



THE
UNIVERSITY OF MINNESOTA

Announces Its

March Commencement
1954

NORTHROP MEMORIAL AUDITORIUM
THURSDAY EVENING, MARCH 18
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

As a courtesy to those attending functions, and out of respect for the character of the building, be it resolved by the Board of Regents that there be printed in the programs of all functions held in the Cyrus Northrop Memorial Auditorium a request that smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms.

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota has this year celebrated its one hundred and third birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 112,500 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to nearly 19,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, and recreation and health consultants give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people, in the area it serves, artists and lecturers of quality and talent.

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University, from 7:00 to 7:30 p.m. they will hear the Flemish bells being played from Northrop Memorial Auditorium, Mr. J. Frederic Goossen, Instructor in Music, carillonneur. Admission to the March commencement exercises is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

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

Allegro from the "Water Music Suite" - - - - -	Handel
Chorale and Fugue from the "Organ Sonata in C Minor" -	Guilmant
Valse from the "Swan Lake Ballet" - - - - -	Tschaikowsky
Second Suite in F - - - - -	Gustav Holst

PROCESSIONAL: March Processional - - - - - Clare Grundman

PROCESSIONAL: As candidates for degrees enter the Auditorium at 8:00 p.m. the curtain will be opened. Seated on the platform, left to right, are: Dr. Edwin S. Cieslak, Associate Professor of the General College, Marshal; Dr. Joseph C. Olson, Associate Professor of Dairy Husbandry, Marshal; Dr. John G. Darley, Associate Dean of the Graduate School; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. Austin A. Dowell, Assistant Dean, College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Mr. Huntington Miller, Assistant Dean of University Extension; Dr. E. G. Williamson, Dean of Students; Dr. Ellsworth Gerritz, Admissions Officer, Admissions and Records; The Honorable Karl G. Neumeier, Member, Board of Regents; Dr. Malcolm M. Willey, Vice President, Academic Administration; Dr. James Lewis Morrill, President of the University of Minnesota; Dr. Grayson Kirk, President, Columbia University; The Honorable Lester A. Malkerson, Member, Board of Regents; Rabbi Louis Milgrom, Director, Hillel Foundation at the University; Lieutenant Colonel Clarke W. Henkle, USAF, Assistant Professor of Air Science and Tactics; Dr. Alfred L. Vaughan, Assistant Dean of the General College; Dr. Athelstan F. Spilhaus, Dean of the Institute of Technology; Dr. Walter W. Cook, Dean of the College of Education; Dr. William F. Maloney, Acting Assistant Dean of the College of Medical Sciences; Mr. Blake Stern, Assistant Professor of Music; Dr. Edward B. Stanford, University Librarian, Marshal.

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

Order of Events

THE NATIONAL ANTHEM (first stanza only): The entire audience and Mr. Blake Stern, Assistant Professor of Music, soloist.

INVOCATION: Rabbi Louis Milgrom, B.S., Director, Hillel Foundation at the University.

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

COMMENCEMENT ADDRESS: "Knowledge, Useful and Otherwise," President Grayson Kirk, Ph.D., Columbia University, New York, New York.

PRESENTATION OF CONGRATULATORY CITATION: President Morrill will present to President Kirk a citation on the occasion of the Columbia University Bicentennial celebration.

THE COLUMBIA UNIVERSITY ALMA MATER: The audience will rise as the band plays one verse of "Stand Columbia," the Columbia University alma mater song.

CONFERRING OF COMMISSIONS: Dr. Malcolm M. Willey, Vice President, Academic Administration, will introduce Lieutenant Colonel Clarke W. Henkle, USAF, Assistant Professor of Air Science and Tactics, who will present the candidates for commissions in their respective branches of the Armed Services. The commissions will be presented by President Morrill; the oath of office will be administered by Lieutenant Colonel Henkle.

CONFERRING OF DEGREES: Vice President Willey will introduce the several deans or their representatives who will present the candidates for certificates and degrees in their respective colleges. These, in order of their introduction, are: Assistant Dean Huntington Miller, LL.B., University Extension; Assistant Dean Alfred L. Vaughan, General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts and representing University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Acting Assistant Dean William F. Maloney, M.D., College of Medical Sciences; Associate Dean John G. Darley, Ph.D., Graduate School. All degrees will be conferred by President Morrill.

PRESENTATION OF DIPLOMAS: With Dean of Students E. G. Williamson, Ph.D., presiding, all members of the March graduating class will pass across the stage to receive their certificates and diplomas.

Order of Events

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

“HAIL! MINNESOTA,” the University’s alma mater song: The audience and Mr. Blake Stern, soloist.

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

RECESSIONAL: The University Concert Band.

French Marching Song - - - - - *Sigmund Romberg*

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, Coast Artillery Corps

Wallace F. Dyste, St. Bonifacious
John T. Lundegard, Minneapolis

Thomas H. Taylor, Minneapolis

Second Lieutenant, Ordnance Corps

Robert A. Hill, Shakopee

Second Lieutenant, Transportation Corps

Eugene A. Foster, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, SC, USN

Alfred Barnhardt Nelson, St. Paul

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

Richard D. Allen, Byron
Philip M. Carlson, Nye, Wis.
Rodney L. Cooperman, Minneapolis
John J. Daly, Jr., Rosemount
Robert E. Daun, St. Peter
Bernard P. Friel, St. Paul
Ronald E. Gauger, Wheaton
Franklin N. Groves, Minneapolis
Michael B. Herbst, Fargo, N.D.
Dale B. Jackson, Albert Lea
Thomas P. Joyce, Duluth
Allen A. Kaufmann, Edina
Dwight H. Lindholm, Cambria
Richard L. Millberg, Leavenworth,
Kan.

Donald P. Moffet, Rochester
David P. Olson, Minneapolis
James H. Oppegard, St. Paul
Norman L. Schultz, Minneapolis
Henry W. Stenquist, Jr., Minneapolis
James A. Thompson, Princeton
Curtis J. Timm, Minneapolis
Gordon D. Wagner, St. Paul
William J. Ward, Minneapolis
Richard L. Weimer, St. Paul
David D. Weiss, Austin
James N. Wetherbee, Marshall
Rodger R. Wetherbee, Marshall
William W. Zettel, 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

Bertram Thomas Caswell, Minneapolis

Clifford Charles Hall, Minneapolis
Robert Earl Maurer, St. Paul

Engineering Certificate

Norbert Gustof Nystrom, Minneapolis

Industrial Engineering Certificate

Robert Waldron Nelson, St. Paul

GENERAL COLLEGE

Associate in Arts

Donald George Camitsch, St. Paul
Patrick William Colbert, Jr., Minneapolis
Kenneth Lyle Floberg, Minneapolis
Darrell David Havir, Minneapolis
John B. Heimkes, Jr., Minneapolis
Robert James Kleinart, Minneapolis
John Beseler Kropp, Winona
William Edson McDaniel, Minneapolis

Robert L. Miller, Minneapolis
Jerry John Nelson, West St. Paul
Susan Elizabeth Nygren, Minneapolis
James Henry Pahl, Minneapolis
Anthony S. Phifer, Minneapolis
Warren Dean Redwing, Mabel
Douglas Charles Warfield, St. Paul
Demetrios C. Ziaskas, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Twyla Ann Boraas, Dawson
Alan Lewis Gould, Minneapolis
Larry Gene Hanson, Minneapolis
Dolores Louise Isaacs, St. Paul
Noel Korengold, Minneapolis

Chernie Rae Levinson, Minneapolis
Judith Ann Longaecker, Robbinsdale
Frank Lorenzo, Minneapolis
William Raymond Park, St. Paul
Sherwood Marvin Shapiro, St. Paul

Bachelor of Arts

- Elizabeth A. Baker, Granite Falls, CUM LAUDE
- Mary Bartholomew Black, Minneapolis, MAGNA CUM LAUDE
- Lois Jean Boggs, Minneapolis
- Dorothy Carolyn Bohn, Minneapolis
- Kathleen Elizabeth Bowers, Western Springs, Ill.
- Robert McClamroch Brewer, Jonesboro, Ark., MAGNA CUM LAUDE
- Richard Robert Busch, St. Paul
- Glenna M. Callister, Minneapolis
- June Beverly Carlson, Minneapolis, SUMMA CUM LAUDE
- Jean Marshall Chapman, Minneapolis
- Donald Burton Chase, Jr., A.A., Minneapolis
- Joan Michelyn Cieslak, Chicago, Ill.
- Margaret Ann Conrad, St. Paul
- Eva Constantine, Minneapolis
- Rodney Lyle Cooperman, Minneapolis
- John Clark Cumming, Jr., St. Paul
- Martha-Katharine Webster Erickson, Minneapolis
- Mary Lee Erickson, Minneapolis
- Raymond Joseph Fesenmaier, New Ulm
- Marilyn Ann Fitch, Minneapolis
- Axel Marvin Fritz, Jr., Minneapolis
- Corrinne Joyce Galinson, A.L.A., St. Louis Park
- Elaine Marion Gorson, Minneapolis
- Jerome A. Hallisy, Minneapolis
- Robert Fredrick Hamel, Robbinsdale
- John Loretz Hancock, Minneapolis, CUM LAUDE
- Carol Ann Hedengran, Minneapolis
- Klaus Jacob Herrmann, Minneapolis
- Judah Laurence Hexter, St. Paul
- Helen Agatha Huntington, Milwaukee, Wis.
- Larry Eugene Jeffries, A.A., Minneapolis
- Lewis Tyra Johnston, Minneapolis
- James Ritchey Kerns, Minneapolis
- Elizabeth Ann Koehler, Red Wing
- Warren Merritt Lindstrom, South St. Paul
- Mildred Locke, Sheboygan, Wis.
- Delbert Richard May, A.A., Milwaukee, Wis.
- Patricia Ann McAndrews, Minneapolis
- John C. McNulty, Minneapolis
- John Howard McNutt, D.D.S., Minneapolis
- Richard Lennart Millberg, Duluth
- Kathryn Joy Muggaberg, Minneapolis, CUM LAUDE
- Norma Ordella Myhre, Walcott, N.D.
- Raymond Ardell Nelsen, Farmington
- Barbara Ellin Nelson, Minneapolis, MAGNA CUM LAUDE
- Janet Lee Neprud, Minneapolis
- Wilmer Milton Nordine, St. Paul
- Richard Francis O'Neill, St. Paul
- Virginia Irene Owens, Bismarck, N.D.
- Robert Harry Patrin, A.A., St. Paul
- Gerald Paymar, A.A., Minneapolis
- Florence Lucille Peterson, Duluth
- John Douglas Peterson, Westbrook
- Urban Lawrence Plain, Jr., Minneapolis
- Joseph Henry Quady, Jr., St. Paul
- Marian M. Rajewsky, Chaska
- Gordon Willeford Renfro, A.A., Minneapolis
- Carolyn Annette Ries, Madison Lake
- Barbara Ann Rubenzer, Minneapolis
- Warren Keith Russell, Park Rapids
- William Marshal Sandstrom, Willmar
- Donna Ann Schaefer, Minneapolis, MAGNA CUM LAUDE
- Norman Lee Schultz, Minneapolis
- Henry Willard Stenquist, Jr., Minneapolis
- Max Simon Streitman, Minneapolis
- James Herman Tell, St. Paul
- Lee Andrew Terrill, Jr., Minneapolis, MAGNA CUM LAUDE
- John Alexander Thomas, Duluth
- Curtis John Timm, Minneapolis
- Ralph Dale Trumble, Shell Lake, Wis.
- Phyllis Jean Tupa, Minneapolis
- Gordon Dominic Wagner, St. Paul
- John William Wagner, Minneapolis

William Joseph Ward, Minneapolis
Robert Eugene Weaver, Los Angeles,
Calif.

Richard Leo Weimar, St. Paul
Marcia Jean Williams, St. Paul
Donald Duane Woodke, Lakefield

David Anson Woodward, Dickinson,
N.D.

Sarah Marie Wormhoudt, St. Cloud
William Winfield Zettel, St. Paul
Louis Zukowski, A.A., Minneapolis
Yvonne Glendinning Zumbusch, Rio
de Janeiro, Brazil

Bachelor of Science in Library Science

Ella Kraushaar Hansen, Minneapolis
Mary Morris Schmidt, B.A., Minne-
apolis

William E. Sloggy, B.A., Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Donna Mae Feigum, Minneapolis
Mary Lou Helm, Minneapolis

Sally Oman, Topeka, Kan.

Bachelor of Science

Wilfred Raymond Kostamo, Minne-
apolis

John Edward Seaholm, Minneapolis,
CUM LAUDE

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Charles Seymour Barger, Jr., Kansas
City, Mo., WITH DISTINCTION
Wayne Waldo Bettin, Lakefield, WITH
DISTINCTION

Roland Vernon Johnson, Albert Lea,
WITH DISTINCTION
Douglas Merlyn Skoglund, Minneap-
olis, WITH HIGH DISTINCTION
James Marshall Wold, Minneapolis

Bachelor of Agricultural Engineering

Vernon Richard Anderson, Minneapolis

Bachelor of Architecture

Frederick Loewen, New York, N.Y.
Anthony Dean Schultz, St. Paul, WITH
DISTINCTION

Robert Randall Vosbeck, Mankato

Bachelor of Chemical Engineering

Wallace Frithjof Dyste, Minneapolis

Bachelor of Civil Engineering

Charles Seymour Barger, Jr., Kansas City, Mo., WITH DISTINCTION

Wayne Waldo Bettin, Lakefield, WITH DISTINCTION

William Francis Burke, Minneapolis, WITH DISTINCTION

John Paul Davidson, B.A., Two Harbors

Roland Vernon Johnson, Albert Lea, WITH DISTINCTION

Gleb Shemtschushnikow, St. Paul
Oliver Andrew Stoutland, Jr., Minneapolis

James Marshall Wold, Minneapolis

Bachelor of Electrical Engineering

Leland Irving Anderson, Minneapolis

James Hilman Oppegard, St. Paul

Bachelor of Mechanical Engineering

Harry Theodore Christenson, Minneapolis

Robert Edward Daun, St. Peter

Earl Duane Forslund, Iron River, Wis.

Robert William Lang, Minneapolis

Donald Lewis Olson, St. Paul

Eugene Price Reagan, Minneapolis

Ralph Duane Whaley, St. Paul

Bachelor of Mining Engineering

Arden Wilford Swanson, Minneapolis

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

Bachelor of Science

Atallah Khalifa Ali, Kirkuk, Iraq, Agriculture

Jerry Allen Angier, St. Louis Park, Forestry

John Robert Borgeson, Hibbing, Agriculture

Philip M. Carlson, A.A., Nye, Wis., Agriculture

Jerald Charles Fitzgerald, Ivanhoe, Agriculture

Mary Katherine Garding, Jefferson, Wis., Home Economics

Norman Raymond Hansen, Minneapolis, Fishery and Wildlife Management

Donald Ladwig Hanson, Minneapolis,
Forestry

Joanne Marie Hazard, Cooperstown,
N.D., Home Economics, WITH DISTINCTION

Frederick Leo Heck, Chaska, Agriculture

Bonnie Jean Kaufman, Minneapolis,
Home Economics

Glenna P. Knickerbocker, Annandale,
Home Economics

Frank Joseph Kovach, Jr., Duluth, Agriculture

Elton Leroy Lassina, Cloquet, Agriculture

Laverne Dale Moll, Alexandria, Forestry

Alfred Barnhardt Nelson, Jr., St. Paul,
Food Technology, WITH DISTINCTION

Omar Carlton Nelson, Kensington,
Agriculture

David Peter Olson, Minneapolis, Fishery and Wildlife Management, WITH DISTINCTION

Kenneth Roger Rose, Lanesboro, Agriculture

Richard Lindell Rudquist, Minneapolis, Fishery and Wildlife Management

Guy Maurice Schaefer, Cold Spring, Forestry, WITH DISTINCTION

Ernest Keith Spalding, Waseca, Science Specialization

Clarence Kosaku Tabata, B.S., Honolulu, T. H., Science Specialization

Marianne Southerland Thiel, Minneapolis, Home Economics, WITH DISTINCTION

Darrel Niel Van Sickle, Garden City, Agriculture

Dennis George Wood, Minneapolis, Forestry

Kenneth Alexander Ystesund, Thief River Falls, Forestry

SCHOOL OF VETERINARY MEDICINE OF THE INSTITUTE OF AGRICULTURE

Doctor of Veterinary Medicine

Harold Leo Strandberg, B.S., Mahtowa

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

Bachelor of Science

Wallace Dwaine Eklund, Stanchfield,
Agricultural Education

Maynard Frederick Harms, Norwood,
Agricultural Education

Donald Merle Keith, Moose Lake,
Agricultural Education

Herbert Ray Timm, Olivia, Agricultural Education

Helen Henderson Wyss, Aurora,
Home Economics Education, WITH HIGH DISTINCTION

COLLEGE OF EDUCATION

Bachelor of Science

- David Lee Aldrich, Minneapolis, WITH DISTINCTION
RUBY Wilkes Archer, Bedford, Va., WITH DISTINCTION*
Beverly Jean Bailey, St. Paul
Robert Adam Bauman, Sherburn
Audrey Ann Bennett, Long Prairie
Norma Grace Beyl, Clear Lake, Wis., WITH DISTINCTION
Beverly Mae Bowers, A.A., Minneapolis
Edward Carl Brandeen, Faribault
Gladys Mary Daily, Minneapolis
Barbara Joyce Eisenbarth, Algona, Iowa*
Mildred Kennedy Esquivel, St. Paul
Forrest William Fraasch, Montevideo
Ronald Lee Fraser, St. Paul
Evelyn Fredericksen, B.A., Hopkins
John Furlong, Bovey
Ronald Edwin Gauger, Wheaton
Donald John Gaylord, A.A., St. Paul
Lenore Shari Goldberg, Minneapolis
Kimi Taguchi Hara, Minneapolis*
Donald James Harris, St. Paul
John Edwin Hawkinson, Jr., A.A., Pine City, WITH DISTINCTION
Joseph Donald Holewa, Minneapolis
Faith Ann Holst, Plainview
Doris McCabe Kemler, Wayzata, WITH HIGH DISTINCTION
Clara Olien Kernkamp, Minneapolis
Edith Louise Koeneke, St. Paul
Barbara Ann Kraker, A.A., Virginia
Carl William Kroening, Minneapolis
Mary Maxine Kruse, St. Peter
Florence V. Langdon, St. Louis Park
John Robert Lindbeck, Ely, WITH DISTINCTION
Ethel Engebretson Miller, Minneapolis
Faith Fahring Miller, Long Beach, Calif.*
Douglas Allen Nelson, Minneapolis
Leslie Nixon, B.A., Minneapolis
Elsie Suo Orr, Minneapolis, WITH DISTINCTION
Corinne Margaret Pearson, Minneapolis
Gretchen Irene Pirsch, Minneapolis
Henrietta Louise Pollock, Evansville, Ind.*
James Robert Rainbow, Anoka, WITH DISTINCTION
Dean Richard Reichow, Minneapolis, WITH DISTINCTION
Merrywayne Ridge, A.A., Anoka
Eleanor Severeid Sather, Robbinsdale, WITH DISTINCTION
Dorothy Newcomb Saulnier, Stillwater*
Helen Patricia Shannon, St. Paul, WITH HIGH DISTINCTION
Olga Elvira Shennig, B.A., Minneapolis
Dawn Mary Skarnes, Minneapolis
Berniece Marie Wagner, Norfolk, Neb., WITH HIGH DISTINCTION*
Marilyn Sue Watkins, Carlton, WITH HIGH DISTINCTION
Sybil Ann Watson, Long Beach, California*
Celine Terese Carlin Watters, Foley
Francis Richard Weinberger, Nashwauk, WITH DISTINCTION

Master of Education

- Thomas Albert Bender, Jr., B.S., Rochester
Joyce Tyer Parker, B.A., Raleigh, N.C.
Robert Lance Pickering, B.S., Robbinsdale
Richard Benny Reinholtz, B.S., Minneapolis

* Nursing Education Curriculum.

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

- Donald DeWitt Anderson, St. Paul
Gilbert Theodore Anderson, Minneapolis
Mary Evalyn Blender, St. Peter, WITH HIGH DISTINCTION
William Francis Burke, Minneapolis, WITH DISTINCTION
John Jerome Connolly, St. Paul
Leonard James Delehanty, Montgomery
James Richard Flis, A.L.A., St. Paul
Eugene Arnold Foster, A.L.A., Minneapolis
Franklin Nelson Groves, Minneapolis, WITH DISTINCTION
Bernice Soelberg Hobart, Sioux City, Iowa
Margaret Jean Holden, St. Paul
Dale Burton Jackson, Albert Lea
Robert Elmer Johnson, Minneapolis
Thomas Patrick Joyce, Duluth
Alfred Just, Minneapolis
- John Wilder Kreitz, Minneapolis, WITH DISTINCTION
Erwin Ansel Lichten, A.A., Minneapolis
Robert Lee Logman, B.A., St. Paul
Thomas Parker Lowe, St. Paul
Raymond Bernard Mailhot, Crosby
Donald Pratt Moffet, Rochester
Robert Dale Myhre, Bismarck, N.D.
Edwin Rapacz, Minneapolis
James Richard Spicola, Minneapolis
Thomas Huntington Taylor, Minneapolis
James Allen Thompson, Princeton
James Moore Thompson II, St. Croix Falls, Wis.
John Holmer Tysk, Minneapolis
Lawrence Anthony Vancura, Fessenden, N.D.
Richard Alan Wedell, St. Paul
David Donald Weiss, Austin
James Nelson Wetherbee, Marshall
Rodger Roe Wetherbee, Jr., Marshall

Bachelor of Science in Economics

- Yvonne Mae Morehouse, St. Paul Park
George Frederick Muenchow, Minneapolis

LAW SCHOOL

Bachelor of Science in Law

Bernard Preston Friel, St. Paul

Bachelor of Laws

Henry Ashton Gregg, St. Paul

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Professional Nursing*

Joan Janette Abitz, St. Cloud
Nancy Ann Allan, Minneapolis
Elizabeth Victoria Ann Almquist,
Minneapolis
Elizabeth Ann Alsaker, Ortonville
Joan Commer Aschenbeck, Minne-
apolis
Virginia Rae Beatty, Duluth, WITH
DISTINCTION
Jeanne Marie Belanger, Escanaba,
Mich.
Billie Kathleen Houlton Benzie,
Onamia
Betty Ann Berg, Harvey, N.D.
Laverne Ann Boesel, St. Paul, WITH
HIGH DISTINCTION
Dorothy Bruhl, Faribault, WITH DIS-
TINCTION
Lu Etta Eleanor Ehlers, Marshall
Irene J. Engel, Currie, WITH DISTINC-
TION
Mary Lucintha Fraser, Grand Rapids
Helen Doris Freeze, St. Paul
Laura Gertrude Gulbrandson, St. Paul
Dorothy June Hegge, Austin, WITH
DISTINCTION
Frances Martha Hillstrom, Belle Plaine
Mary Ann Jackson, Crystal
Mary Ann Jacobson, Minneapolis
Jean Lois Johnson, Litchfield
Virginia Ffloitte Johnson, Crookston
Clara Marie Skindrud Jordahl, Clin-
ton, Wis., WITH HIGH DISTINCTION
Hazel Joyce Knutson, A.A., Lawler,
Iowa
Lucille Ann Kramer, Gaylord
Rachel Joan Lee, Minneapolis
Joann Laurel LeVahn, Minneapolis,
WITH DISTINCTION

Evelyn Levinson, Minneapolis
Juliana Marie Lindell, Minneapolis,
WITH DISTINCTION
Dorothy Joan Lintula, Duluth
Caryl Jean Nelson, Newman Grove,
Neb.
Betty Alice Nordtvedt, Norfolk, Neb.
Jean Edna O'Connor, White Bear
Lake
Arlene Mae Olson, Ada
Astrid M. Ravnholt, Luck, Wis.
Mary King Rothschild, B.A., Mahto-
medi
Constance Helen Schlozer, St. Paul
Shirley Joanne Schmolke, Brainerd
Jean Carol Schubring, St. Paul
Shirley Margaret Skene, Minneapolis
MaryAnn Starkman, Ely
Elizabeth Therese Stemper, St. Paul
Joan Dagmar Stenberg, Amboy, WITH
DISTINCTION
Mary Patricia Theilmann, Minneapo-
lis, WITH HIGH DISTINCTION
Joyce Leone Thulin, Litchfield
Joyce Elaine Tyson, St. Paul
Anita Venners Valentine, Little Falls,
WITH HIGH DISTINCTION
Stephanie Dale Vincent, Coleraine,
WITH HIGH DISTINCTION
Clarice I. Warne, Minneapolis, WITH
DISTINCTION
Mary Louise Weik, Morgantown,
W.Va.
Sally Lynn Werner, Anoka, WITH DIS-
TINCTION
Ruth Wombolt, Laurel, Mont., WITH
HIGH DISTINCTION
Marguerette Jeanne Youngner,
Rochester

* These degrees are conferred subject to the satisfactory completion of nursing practice prior to June 12, 1954.

Master of Public Health

Virginia Lorene Christopher, B.S., Anna Tomsic, B.S., Trinidad, Colo.
Teague, Texas

Doctor of Medicine

James Duncan Stephen, B.S., M.B., Regina, Saskatchewan, Canada

GRADUATE SCHOOL

Master of Arts

James Arnold Anderson, Minneapolis
B.A. '50, Luther College. Major: Sociology.
Minor: History. Thesis: The Struggle for
Leadership in a Merger of Religious Institu-
tions: An Analytical Case Study.

Norman C. Bansen, Ferndale, Calif.
B.A. *cum laude* '47, Dana College. Field of
Concentration: English.

Charles LeRoy Barron, Baudette
B.A. '51, University of Minnesota. Field of
Concentration: Statistics.

William Ernest Broen, Jr., Minneapo-
lis
B.A. '52, University of Minnesota. Field of
Concentration: Psychology.

Donald Herbert Buckman, Spooner,
Wis.
B.A. *cum laude* '50, Northland College. Field
of Concentration: Educational Administration.

William Stewart Caldwell, St. Paul
B.A. *magna cum laude* '43, University of Min-
nesota. Major: Journalism. Minor: Political
Science. Thesis: American Propaganda in the
1948 Italian Election Campaign.

Yvonne Tze-Ming Chen, Shanghai,
China
B.S. '44, Soochow University. Field of Con-
centration: Library Science.

Mary Agatha Crolley, Glencoe
B.S. with distinction '46, University of Minne-
sota. Field of Concentration: Educational Psy-
chology.

William Clarence Erickson, Duluth
B.A. *magna cum laude* '51, University of Min-
nesota. Major: Physics. Minor: Mathematics.
Thesis: Lead Isotope Analysis and the Deter-
mination of Geological Age.

John William Gehm, Jr., New York,
N.Y.
B.S.S. '51, City College of New York. Major:
History. Minor: Political Science. Thesis: Al-
lied Intervention in Russia, 1918-1920.

Niilo Edward Hendrickson, Embarrass
B.S. with distinction '47, University of Minne-
sota. Field of Concentration: Educational Ad-
ministration.

Beverly Mae Henningsen, Minneapolis
B.S. '51, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Roger Dale Hinckley, Minneapolis
B.A. '50, University of Minnesota. Field of
Concentration: Spanish.

Donald John Huesers, Minot, N.D.
B.A. '43, Minot State Teachers College. Field
of Concentration: Educational Administration.

Jennings Oliver Johnson, Rochester
B.S. '49, University of Minnesota. Field of
Concentration: Educational Administration.

Rodney Eugene Johnson, Minneapolis
B.A. *magna cum laude* '52, University of Min-
nesota. Field of Concentration: Economics.

Ernest Katin, Minneapolis
B.A. '52, University of Minnesota. Major: Po-
litical Science. Minor: History. Thesis: Bevan
and the Fight for a "Socialist" Foreign Policy.

Marjorie Hendricks Kowalsky, Minneapolis

B.A. '41, Gustavus Adolphus College. Field of Concentration: Speech.

Richard Ernest Krueger, St. Paul

B.S. '36, University of Minnesota. Field of Concentration: Physical Education.

Virginia May Lambert, Roosevelt, Utah

B.A. '52, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: An Investigation of Social Isolation in the Etiology of Schizophrenia in a Sample of Fifty-two Hospitalized, Diagnosed Schizophrenic Patients Between the Ages Sixteen and Thirty with Parents Living in Minneapolis and St. Paul.

Leonard Anthony Marascuilo, St. Paul

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

Waltraud-Margot Marggraff, Berlin, Germany

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

Peter J. McKenna, Jr., Minneapolis

B.A. *cum laude* '52, Catholic University. Major: Psychology. Minor: Economics. Thesis: The Effect on Minnesota Multiphasic Personality Inventory Scores of Oral and Visual Presentation of Test Questions.

Marshall Bassford McKusick, Minneapolis

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

Frederick William Obitz, Mapleton

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

Oladigbolu Otuyelu, Nigeria, West Africa

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

Richard LaVerne Robertson, Wadena

B.A. '50, University of Minnesota. Major: Journalism. Minor: Sociology. Thesis: An Investigation of the Development and Operations of Public Information Programs of the Federal Executive Agencies.

Herbert Paul Rumford, Owatonna

B.A. '42, Eastern Baptist Theological Seminary. Field of Concentration: Educational Psychology.

Marcia Stevens Russell, St. Paul

B.A. '52, Mount Holyoke College. Major: Sociology. Minor: Economics. Thesis: A Study of Negroes Adequately Trained to Accept Skilled Jobs in the City of St. Paul, Minnesota.

Carolyn Barbara Schmidt, Duluth

B.S. '47, Northwestern University. Major: Education. Minor: Educational Psychology. Thesis: A Survey of Current Trends and Practices in Science Courses Presented to Non-Science Majors in Catholic Colleges for Women.

Stella Lucile Sorum, Minneapolis

B.S. with distinction '29, University of Minnesota. Field of Concentration: American Studies.

Lysander James Thompson, Fort Lee, N.J.

B.A. '52, University of Illinois. Field of Concentration: Education.

Robert Marshall White, Minneapolis

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

Master of Arts in Public Administration

Stanley Adolph George, Washington, D.C.

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

Leonard Frederick Wheat, Duluth

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

Master of Forestry

Richard Arnold Skok, St. Paul

B.S. with distinction '50, University of Minnesota. Field of Concentration: Forestry.

Master of Science

Robert Mills Bevenssee, Minneapolis
B.E.E. with distinction '52, University of Minnesota. Field of Concentration: Mathematics and Mechanics.

Chun Chuen Chen, Shanghai, China
B.S. '52, State College of Washington. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Synthesis of 1,2:4,5-Dibenzopentalene.

Orvis Phillip Engelstad, Warren
B.S. with distinction '53, University of Minnesota. Major: Soils. Minor: Agronomy. Thesis: The Effect of Lime on Soils of Southwestern Minnesota.

Howard I. Freeman, Jackson Heights, N.Y.

B.A. '52, Colgate University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Diels-Alder Reactions of Nitroolefins. Nitroolefins with Anthracene.

Robert Louis Glass, Chicago, Ill.
B.S. '50, University of Illinois. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Some Effects of Vitamin B₁₂ in the Maternal and Postnatal Nutrition of the Rat.

Philip Joseph Hartman, St. Cloud
B.A. '52, St. John's University. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Reaction of Nitroolefins with Heterocyclic Compounds. Indole and Pyrrole.

John Thomas Hayward, Minneapolis
B.A. '49, University of Minnesota. Major: Entomology. Minor: Plant Pathology. Thesis: Phytotoxicity of Certain Insecticides Applied to Cucurbits.

Vishwanath Jeewanrao Hudli, Belgaum, Bombay State, India
B.Sc. 51, Karnatak University. Field of Concentration: Dairy Husbandry.

Carlo Michael Ignoffo, Chicago, Ill.
B.S. '50, Northern Illinois State Teachers College. Major: Entomology. Minor: Plant Pathology. Thesis: Morphology, Histology and Growth Phase of Leaf Roll Aphid Gall on Cottonwood: *Populus deltoides* L. Caused by the Fundatrix *Thecabius populi-conduplicifolius* Cowen, (Aphidae, Homoptera).

Edward Joseph Karlin, New York, N.Y.

B.S. '52, College of the City of New York. Major: Entomology. Minor: Botany. Thesis: A Study of the Insect Communities Within Four Species of Fungi with Biological Notes on Some of the Insects Represented.

Robert John Klug, St. Paul
B.S. *cum laude* '50, College of St. Thomas. Field of Concentration: Agricultural Botany.

William Matthew Manion, St. Paul
B.S. '50, University of Minnesota. Field of Concentration: Agricultural Economics.

Ntinos Cleovoulou Myrianthopoulos, Liamassol, Cyprus
B.S. '52, George Washington University. Major: Zoology. Minor: Biostatistics. Thesis: A Genetic Study of Progressive Muscular Atrophy.

Ernest Alton Palmer, Hastings
B.S. '33, University of Minnesota. Field of Concentration: Agricultural Education.

Joseph John Reilly, Roselle, N.J.
B.S. '47, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Corn Seedling Diseases and Their Relationship to Stalk Rot.

Orvin Elwood Rud, Mondovi, Wis.
B.S. '47, University of Wisconsin. Major: Agronomy. Minor: Soils. Thesis: A Study of Methods of Seeding Legumes and Grasses.

Marion Lucy Smith, St. Paul
B.A. *summa cum laude* '51, Macalester College. Major: Physical Chemistry. Minor: Analytical Chemistry. Thesis: A Study of an Exchange Reaction Between Chromium (III) and Chromium (VI) Using Cr⁵¹ as the Tracer Element.

Lina Tormen, Riobamba, Ecuador, S.A.
B.S. '52, Michigan College of Mining and Technology. Major: Soils. Minor: Analytical Chemistry. Thesis: Influence of Fertilizer on the Sugar Content in Tops and Roots of Three Legumes.

Dale Gordon Williams, Arlington Heights, Ill.

B.S. '51, Beloit College. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: An Intensity Study of the Infrared Fundamentals of Hexafluoroethane.

Norman Phillip Yarosh, Minneapolis
B.E.E. '48, University of Minnesota. Field of Concentration: Mathematics and Mechanics.

Master of Science in Chemical Engineering

Keith Charles Eddy, Minneapolis

B.S. with high distinction '52, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics and Mechanics. Thesis: Pressure Drops in Two-Phase Flow.

Master of Science in Civil Engineering

Joseph Zikan, Minneapolis

B.C.E. '41, University of Minnesota. Major: Civil Engineering (Soil Mechanics). Minor: Civil Engineering (Structures). Thesis: An Investigation of the Shear Slides Occurring in the Red Clay Soils Between Sandstone and Duluth, Minnesota, on Trunk Highway, Number 23.

Master of Science in Electrical Engineering

Donald Edward Anderson, Minneapolis

B.S. with high distinction '52, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Effect of Reducing Agents on the Evaporation Rate of Strontium from the Oxide Coated Cathode.

Master of Science in Mechanical Engineering

Milton Eugene Franke, Miami, Fla.

B.M.E. with honors '52, University of Florida. Major: Mechanical Engineering (Internal Combustion Engines). Minor: Mechanical Engineering (Machine Design). Thesis: Orifice Coefficients in Low-Frequency Pulsating Flow.

John Gordon Ryberg, Duluth

B.S. '52, University of Minnesota. Major: Mechanical Engineering (Heat Power). Minor: Mechanical Engineering (Heating and Ventilating). Thesis: The Effect of Various Liquid Fuels on the Optimum Length of an Open Cycle, Gas Turbine Burner.

Master of Science in Medicine

Murray Stanley Hoffman, Denver, Colo.

B.A. '44, University of Denver. M.D. '47, University of Colorado. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Electrocardiographic-Pathologic Correlation of Acute and Healing Myocardial Infarcts.

Roger Carlton Smith, Fort Wayne, Ind.

B.S. '42, M.D. '44, Indiana University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Structural Changes in the Pulmonary Vascular Tree Associated with Chronic Left Ventricular Failure.

Doctor of Philosophy

Andreas Acrivos, Athens, Greece

B.Ch.E. *summa cum laude* '50, Syracuse University; M.S. in Ch.E. '51, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: A Theoretical Discussion of Steady and Unsteady State Multi-component Rectification Including a Treatment of Mixtures with an Indefinite Number of Components. Major Adviser: Prof. N. R. Amundson.

Paul Herman Anderson, Custer, S.D.

B.S. in Met.E. '43, South Dakota School of Mines and Technology; M.S. '49, University of Minnesota. Major: Metallography. Minor: Mechanical Engineering. Thesis: Theory of Nodular Graphite Formation in Ductile Cast Iron. Major Adviser: Prof. R. L. Dowdell.

John Edwin Andrews, Selkirk, Manitoba, Canada

B.S.A. '49, University of Manitoba; M.S. '50, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance of Reaction to Loose Smut and to Stem Rust in Barley. Major Adviser: Prof. J. W. Lambert.

Glen Earl Baxter, Minneapolis

B.A. *magna cum laude* '51, M.A. '52, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: An Application of Stochastic Processes to Certain Problems in the Brownian Motion of Continuous Media. Major Adviser: Prof. M. D. Donsker.

Maurice Charles Benewitz, Minneapolis

B.A. *magna cum laude* '47, Harvard College. Major: Economics. Minor: History. Thesis: Economic Factors in Migration to St. Paul, Minnesota, 1940 to 1950. Major Adviser: Prof. Dale Yoder.

Norman Edward Boucher, Jr., Minneapolis

B.S. '41, M.S. '52, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: The Effects of Radioactive Phosphorus (P^{32}) and Cortisone upon the Response of Mice to Transplanted Mouse Mammary Cancer. Major Adviser: Dr. J. T. Syvertson.

Gary Philip Brazier, Columbus, Ohio

B.S. '46, Southern Illinois Normal University. Major: Political Science. Minor: History. Thesis: Intergovernmental Relations in the Field of Public Airports in Minnesota with Special Reference to Relations Between the State Department of Aeronautics and the Metropolitan Airports Commission. Major Adviser: Prof. William Anderson.

David Liddell Brink, St. Paul

B.S. with high distinction '39, University of Minnesota. Majors: Agricultural Biochemistry and Forestry. Minor: Organic Chemistry. Thesis: The Cooking Process XIII. The Effect of Aqueous Solutions of Pure Sodium Hydro-sulfide on the Constituents of Wood. Major Advisers: Profs. R. L. Hossfeld and W. M. Sandstrom.

Elsworth Robert Buskirk, Minneapolis

B.A. *magna cum laude* '50, St. Olaf College; M.A. '51, University of Minnesota. Major: Physiological Hygiene. Minor: Physical Education. Thesis: Relationships in Man Between the Maximal Oxygen Intake and Components of Body Composition. Major Adviser: Prof. H. L. Taylor.

Bob Keith Davis, Peoria, Ill.

B.S. with distinction '49, Bradley Polytechnic Institute. Major: Organic Chemistry. Minor: Chemistry. Thesis: Cyclopropanes XIII. The Reaction Between Quinones and Metallic Enolates XXVII. Major Adviser: Prof. L. I. Smith.

Fred William De Money, Oak Park, Ill.

B.S. '41, Illinois Institute of Technology; M.S. '51, University of Minnesota. Major: Metallurgy. Minor: Mechanical Engineering. Thesis: Dynamic Creep, Stress-Rupture, Fatigue Properties and Fracture Characteristics of Rolled Aluminum Alloy 24S-T4 at Elevated Temperatures. Major Adviser: Prof. R. L. Dowdell.

Arthur Eugene DeWald, Emlenton, Pa.

B.S. *cum laude* '47, Allegheny College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Steric Effect of α -Methylene Groups. Major Advisers: Profs. S. W. Fenton and R. T. Arnold.

Carl Edwin Ekberg, Jr., Bethlehem, Pa.

B.C.E. '43, M.S. in C.E. '47, University of Minnesota. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: An Investigation of the Two-Way Prestressed Concrete Slab. Major Adviser: Prof. J. A. Wise.

Arthur Warren Glass, St. Peter

B.A. '43, Gustavus Adolphus College; M.A. '48, University of Minnesota. Major: Zoology. Minor: Economic Zoology. Thesis: An Analysis of the Heterosis Encountered in Laboratory Crosses. Major Adviser: Prof. S. C. Reed.

George Troxell Hemphill, Excelsior

B.A. cum laude '47, Kenyon College; M.A. '48, University of Minnesota. Major: English. Minor: Philosophy. Thesis: Decorum in English Verse ca. 1569-1700. Major Adviser: Prof. Huntington Brown.

Ernest Raymond Johnston, White-water, Wis.

B.Ed. '38, Illinois State Normal University; M.S. '39, University of Illinois. Major: Mathematics. Minor: Mechanics. Thesis: A Study in Polynomial Approximation in the Complex Domain. Major Adviser: Prof. S. E. Warschawski.

Clinton Clarence Keeler, Cortland, N.Y.

B.A. with high distinction '40, Oklahoma Agricultural and Mechanical College. Major: American Studies. Thesis: The Grass Roots of Utopia: A Study of the Literature of the Agrarian Revolt in America, 1880-1902. Major Adviser: Prof. Tremaine McDowell.

Joseph Lloyd Keogh, South St. Paul

B.S. '48, College of St. Thomas; M.S. '51, University of Minnesota. Major: Soils. Minor: Geology. Thesis: A Study of Soil Testing Methods for Minnesota Soils. Major Advisers: Profs. C. O. Rost and P. M. Burson.

Henry Lepp, Saskatoon, Saskatchewan, Canada

B.Sc. '44, University of Saskatchewan. Major: Geology. Minor: Mining. Thesis: An Experimental Study of Interconversions Among Iron Carbonates, Oxides, and Sulfides. Major Adviser: Prof. J. W. Gruner.

John S. Linnell, Minneapolis

B.A. '47, Augustana College (Illinois); M.A. '48, State University of Iowa. Major: Philosophy. Minor: Mathematics. Thesis: Berkeley's Criticism of Abstract Ideas. Major Adviser: Prof. W. S. Sellars.

Hugh Gibson Livingston, Montrose, Angus, Scotland

B.Sc. '50, University of Aberdeen; M.S. '52, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: Pasture Investigations with Special Reference to the Feeding Behavior of the Dairy Cow. Major Adviser: Prof. W. E. Petersen.

Maurice Wesley Manbeck, Aberdeen, S.D.

B.S. '40, Hamline University; M.A. '49, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: A Study of Critical Incidents in Effective Secondary School Teaching as Conceived by Pupils and Faculty. Major Advisers: Profs. C. J. Hoyt and W. W. Cook.

Aly Hamed Mohamed, Alexandria, Egypt

B.Sc. '46, Farouk I University; M.S. '53, University of Minnesota. Major: Plant Genetics. Minor: Botany. Thesis: Association Tests Between Chromosomal Interchanges in Maize and Tender Pericarp in Sweet Corn. Major Adviser: Prof. C. R. Burnham.

Richard Robert Nelson, Austin

B.A. '50, Augsburg College; M.S. '52, University of Minnesota. Major: Plant Pathology. Minor: Agronomy. Thesis: Studies on Stemphylium Leafspot of Alfalfa. Major Adviser: Prof. M. F. Kernkamp.

John Christian Norby, North Hollywood, Calif.

B.A. '36, Eastern Washington College of Education; B.S. '39, University of Washington; M.A. '48, University of Minnesota. Major: Economics. Minor: Agricultural Economics. Thesis: An Evaluation of Norwegian Post-War Wage Policy—1945-50. Major Adviser: Prof. Dale Yoder.

Martin Karl Nurmi, Grand Forks, N.D.

M.A. '48, University of Chicago. Major: English. Minor: Philosophy. Thesis: Blake's Doctrine of Contraries: A Study in Visionary Metaphysics. Major Adviser: Prof. D. V. Erdman.

John Daniel Palm, Minneapolis

B.A. '48, Gustavus Adolphus College; M.A. '50, University of Minnesota. Major: Zoology, Minor: Bacteriology. Thesis: Detection of the Gene for Huntington's Chorea. Major Adviser: Prof. S. C. Reed.

Mabel Kathryn Powers, St. Peter

B.A. '25, College of St. Catherine; M.A. '47, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Longitudinal Study of Vocational Interests During the Depression Years. Major Adviser: Prof. D. G. Paterson.

Kenneth Owen Rachie, Granite Falls

B.S. '49, M.S. '52, University of Minnesota. Major: Agronomy. Minor: Soils. Thesis: Winter Hardiness of Birdsfoot Trefoil Strains and Varieties. Major Adviser: Prof. A. R. Schmid.

Fred Paul Roessel, St. Louis Park

B.E. '33, Superior State Teachers College; M.A. '35, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Minnesota Multiphasic Personality Inventory Results for High School Drop-outs and Graduates. Major Advisers: Profs. L. J. Brueckner and S. R. Hathaway.

Niels Rorholm, St. Paul

B.S. '46, Naesgaard Agricultural College. Major: Agricultural Economics. Minor: Economics. Thesis: Linear Programming as a Possible Refinement of Farm Budgeting Techniques. Major Adviser: Prof. S. A. Engene.

Bertram Joseph Smith, Fort Worth, Texas

Ph.B. '39, Louvain University; M.A. '50, University of Minnesota. Major: Psychology. Minor: Industrial Engineering. Thesis: Validation of Certain Tests of Ocular Dominance Against a Criterion of Bombsight Design Preference. Major Advisers: Profs. M. A. Tinker and D. G. Paterson.

Martin Steinmann, Jr., Minneapolis

B.A. *cum laude* '37, M.A. '46, University of Minnesota. Major: English. Minor: Philosophy. Thesis: T. F. Powys: A Thematic Study. Major Adviser: Prof. J. T. Hillhouse.

Robert Alden Swanson, Rantoul, Ill.

B.B.A. '38, University of Minnesota. Major: Psychology. Minors: Educational Psychology and Economics. Thesis: The Relative Effectiveness of Differing Visual Presentations of a Complex Aircraft System in Three Learning Situations. Major Adviser: Prof. H. P. Longstaff.

Marvin Jacob Taves, St. Paul

B.A. *summa cum laude* '45, Hamline University; M.A. '52, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: A Study of Social Factors Associated with Religiosity Among a Sample of College Employees. Major Adviser: Prof. Lowry Nelson.

Paul Edward Toren, Lincoln, Neb.

B.A. '47, M.S. '48, University of Nebraska. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Formation and Stability of Some Complexes of Iron and Vanadium. Major Adviser: Prof. I. M. Kolthoff.

Cecil Craig Walden, Saskatoon, Saskatchewan, Canada

B.A. '40, M.A. '41, University of Saskatchewan. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Purification and Stability of Wheat Alpha and Beta Amylases. Major Adviser: Prof. W. F. Geddes.

David Archer White, Washington, D.C.

B.A. '50, Dartmouth College; M.S. '51, University of Minnesota. Major: Geology. Minor: Metallurgy. Thesis: Stratigraphy and Structure of the Mesabi Range, Minnesota. Major Adviser: Prof. J. W. Gruner.

Vi Alfred Wood, Edmonton, Alberta, Canada

B.S. '34, M.S. '36, University of Alberta. Major: Agricultural Economics. Minor: Economics. Thesis: Public Land Policy for Alberta. Major Adviser: Prof. A. A. Dowell.

Doctor of Philosophy in Medicine

Randolph Andrew Rovelstad, Rochester

B.A. '40, St. Olaf College; M.D. '44, Northwestern University. Major: Medicine. Minor: Physiology. Thesis: Factors Influencing the Continuous Recording of the *in situ* pH of Gastric and Duodenal Contents in Normal Persons and Patients with Duodenal Ulcer. Major Adviser: Dr. M. W. Comfort.

Doctor of Philosophy in Physical Medicine

George Keith Stillwell, St. Paul

B.A. '38, University of Saskatchewan; M.D.,
C.M. '42, Queen's University. Major: Physical
Medicine. Minor: Physiology. Thesis: The
Evaluation of the Errors Involved in the Meas-
urement of Surface Temperatures with Thermo-
couples Affixed to the Surface by Adhesive
Tape. Major Adviser: Dr. F. J. Kottke.

Doctor of Philosophy in Physiology

Rodney Bryce Harvey, Stillwater

B.A. '44, M.D. '47, University of Minnesota.
Major: Physiology. Minor: Zoology. Thesis:
Some Factors Influencing the Renal Excretion
of Sodium. Major Adviser: Dr. M. B. Visscher.

CAPS AND GOWNS

AN EXPLANATION

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

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

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

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

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

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

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

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

(In the order of march)

General College.....	crimson and white
College of Science, Literature, and the Arts.....	white
University College.....	old gold and white
Institute of Technology.....	orange
College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture	maize
College of Education.....	light blue
School of Business Administration.....	drab
College of Medical Sciences.....	green
Graduate School	black

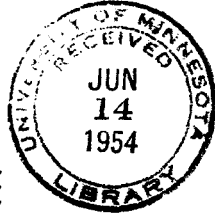


UNIVERSITY OF MINNESOTA

Senior Reception

March 1954

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the Main Ballroom of the Coffman Memorial Union.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identifications.
- Those in the receiving line will be President and Mrs. J. L. Morrill and Miss Sue Gentry, Senior Coordinator, All-University Congress.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1954.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.



THE

UNIVERSITY OF MINNESOTA

Announces Its

June Commencement

1954

MEMORIAL STADIUM
SATURDAY EVENING, JUNE 12
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota has this year celebrated its one hundred and third 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 121,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to nearly 19,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, and recreation and health consultants give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people, in the area it serves, artists and lecturers of quality and talent.

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

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

Order of Events *

THE ASSEMBLING OF THE AUDIENCE: As guests reach the Minneapolis Campus of the University of Minnesota from 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial bells being played from Northrop Memorial Auditorium, Mr. J. Frederic Goossen, Instructor in Music and 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, Mr. Gerald R. Prescott, Bandmaster, conducting.

Prelude and Fugue in D Minor	- - - - -	Bach
An Original Suite for Band	- - - - -	Gordon Jacob
Deep River	- - - - -	arr. Erickson
Ouvre Ton Coeur, Spanish Serenade	- - - - -	Bizet
Song Without Words	- - - - -	Beethoven
Ballet Parisien	- - - - -	Offenbach
Storm King, March	- - - - -	Walter Finlayson

PROCESSIONAL:

Processional March	- - - - -	Mancini
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PROCESSIONAL: The processional, made up of all candidates for degrees, faculty members, and Regents will march from Northrop Field and will enter the Stadium at exactly 8:00 p.m. The line of march will be in the following order: Department of Military Science and Tactics; Department of Naval Science; Department of Air Science and Tactics; General Extension Division; General College; College of Science, Literature, and the Arts; University College; Institute of Technology; College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; School of Veterinary Medicine of the Institute of Agriculture; College of Education; School of Business Administration; College of Pharmacy; Law School; School of Dentistry; College of Medical Sciences; Graduate School. University faculty members, regents, and distinguished guests will be last in the line of march.

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

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

Order of Events

THE NATIONAL ANTHEM: The entire audience, still standing, and Mr. Blake Stern, Instructor in 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 Alvin G. Lewis, Pastor and Adviser to Lutheran students, St. Paul Campus.

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

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

CONFERRING OF DEGREES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Associate Professor of Psychology Wendell White, Ph.D., University Extension; Dean H. T. Morse, Ph.D., General College; Dean E. W. McDiarmid, Ph.D., College of Science, Literature, and the Arts, and Acting Chairman of the Faculty, University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Harold Macy, Ph.D., College of Agriculture, Forestry, and Home Economics, and the School of Veterinary Medicine of the Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean Charles H. Rogers, Sc.D., College of Pharmacy; Dean M. E. Pirsig, LL.B., Law School; Dean W. H. Crawford, D.D.S., School of Dentistry; Dean H. S. Diehl, M.D., College of Medical Sciences; and Dean T. C. Blegen, Ph.D., Graduate School.

Order of Events

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

CONFERRING OF HONORARY DEGREES: Vice President Willey will present Lieutenant General John Ernest Dahlquist and Major General Stanley Raymond Mickelson to President Morrill for the honorary degree, Master of Arts.

JOHN ERNEST DAHLQUIST

Lieutenant General, USA

NATIVE son and former student of the University of Minnesota; outstanding military strategist; since 1917 an officer in the United States Army; commander of the 36th Infantry Division in France in 1944; captor of Field Marshal Von Runstedt and Reich Marshal Goering; liberator of former Premier Reynaud of France; holder of the Distinguished Service Cross, the Distinguished Service Medal, the Silver Star, the Legion of Merit with Oak Leaf Cluster, the Bronze Star with two Clusters; recipient of the French Legion of Honor and the Croix de Guerre from the grateful people of France; Chief of the Army Field Forces at Fort Monroe, Virginia—

BECAUSE of your military service to the country and your contribution to the defense of the free world, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, John Ernest Dahlquist, the degree of Master of Arts, *honoris causa*, with all the rights and privileges pertaining to that degree.

STANLEY RAYMOND MICKELSEN

Major General, USA

NATIVE of the state of Minnesota and former student at its University; in 1917 commissioned in the United States Army; assigned to far-flung outposts in Panama, the Philippines, and Iceland; military authority in artillery; in 1944 chief of the Displaced Persons branch; assistant chief of staff, Supreme Headquarters Allied Expeditionary Forces; able organizer of the Guided Missiles Group; holder of the Distinguished Service Medal and the Legion of Merit; Commanding General of the Antiaircraft and Guided Missiles Center, Fort Bliss, Texas; far-seeing military scientist and rigorous trainer of men—

BECAUSE you have so successfully combined military acumen with rare administrative ability; and because you have ably promoted the cooperation of military and scientific experts, thereby contributing effectively to the national welfare and security, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Major General Stanley Raymond Mickelsen, the degree of Master of Arts, *honoris causa*, with all the rights and privileges pertaining to that degree.

Order of Events

Dean Blegen will present Dr. Solon J. Buck to President Morrill for the honorary degree, Doctor of Laws.

SOLON J. BUCK

NATIVE of our neighboring state, Wisconsin; distinguished graduate of the University of Wisconsin and Harvard University; for seventeen years member of the faculty of the University of Minnesota, interpreter of western history, and guide to advanced students; for an equal period modern rebuilder of our sister institution, the Minnesota Historical Society, and inspirer of public interest in our state and local history; author and editor of notable books depicting the role of Minnesota and the West in national history; organizer of historical work in Pennsylvania and other states; one-time Archivist of the United States, Chief of Manuscripts and Assistant Librarian of the Library of Congress; profound scholar, far-seeing historical administrator, tracer and interpreter of records of the past—

BECAUSE you have created a new public awareness of Minnesota's heritage; because through history and its organization you have deepened understanding of this region and the nation, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Solon J. Buck, the degree of Doctor of Laws, *honoris causa*, with all the rights and privileges pertaining to that degree.

Dean Macy will present Dr. Robert Newton and Dr. Elvin C. Stakman to President Morrill for the honorary degree, Doctor of Science.

ROBERT NEWTON

BORN in the Dominion of Canada; bearer of the British Military Cross for bravery in World War I; distinguished graduate of the University of Alberta and the University of Minnesota; eminent educator and scientist; skilled administrator of the National Research Council of the Dominion of Canada; president emeritus of the University of Alberta; pioneer in establishing regional laboratories which have contributed greatly to the knowledge of plant biochemistry and cereal grains; tireless fighter in the war against plant disease—

BECAUSE your vision and leadership have been instrumental in solving many of the problems of prairie agriculture; because your diligent search for truth and your selfless dedication to the public welfare have made it possible to feed an ever-increasing number of the world's hungry, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Robert Newton, the degree of Doctor of Science, *honoris causa*, with all the rights and privileges pertaining to that degree.

Order of Events

ELVIN C. STAKMAN

INSPIRING educator whose career as a student and teacher at this University has spanned half a century; pioneer in fundamental research in microbiology; acknowledged as the world's foremost authority on stem rust; leader in the study of international aspects of plant pathology; devoted contributor to the development and training of students from all parts of the world; former president of the American Association for the Advancement of Science; chairman of the United States Atomic Energy Commission's Advisory Committee on Biology and Medicine; builder of international understanding as consultant in agriculture for the Rockefeller Foundation; hailed as one of the outstanding scientists of this century—

BECAUSE your invaluable contributions in the field of plant pathology have promoted biological research and advanced agricultural practice in the state, the nation, and the world, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Elvin C. Stakman, the degree of Doctor of Science, *honoris causa*, with all the rights and privileges pertaining to that degree.

“HAIL! MINNESOTA,” The University's Alma Mater song: The audience and Mr. Blake Stern, soloist.

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

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

TAPS: The University Concert Band.

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Medical Service Corps

Ellsworth L. Anderson, Effie
Bernard Bolstad, Appleton
Douglas L. Buck, Milltown, Wis.
Charles B. Conselman, Minneapolis
Jonathan E. Cudd, Minneapolis
Jon A. Ekstrand, St. Paul
Robert W. Federman, Minneapolis
William C. Foss, Moorhead
Howard Gertz, St. Paul
Stanley B. Goldenberg, Minneapolis
Paul G. Grussing, Clara City
David A. Hirscher, Janesville
John A. Johnson, Silver Creek
Burton R. Joul, Lakefield
Gordon J. Kimble, Minneapolis

Kenneth L. Lynch, Minneapolis
Stanley H. Maisel, Minneapolis
Michael J. Martell, Jr., Minneapolis
Henry E. Moran, Providence, R.I.
Gordon W. Oien, Baudette
James E. O'Loughlin, Shakopee
Raymond R. Rantala, Virginia
James M. Schneider, Comfrey
Theophile E. Smith, St. Paul
Alan S. Stein, Minneapolis
Robert B. Tweitto, Spring Grove
John N. Walerius, Rock Rapids, Iowa
Donald G. Wong, Albert Lea
Robert L. Wortz, Litchfield
Richard S. Ziegler, St. Paul

Second Lieutenant, Medical Service Corps USAF

Donald E. Brandt, Minneapolis
Lindley A. Cates, Jr., Minneapolis
Paul J. Christianson, St. Paul
Keith E. Eastman, Bird Island

Roger S. Erickson, Madison
Neil H. Rauk, Spring Grove
Richard E. Stroncek, Minneapolis

Second Lieutenant, Adjutant General Corps

Richard C. Davidson, Minneapolis
Charles L. Fecht, Minneapolis

Jerry Yale Kahn, Minneapolis

Second Lieutenant, Armor Corps

William R. Englehardt, St. Louis Park

Richard H. May, Minneapolis

Second Lieutenant, Coast Artillery Corps

Ardean O. Aafedt, Williston, N.D.
Bruce D. Anderson, St. Paul
John R. Anderson, Detroit, Mich.
Lawrence R. Arseth, Princeton

Vernon H. Beddome, Lakeland
Robert M. Blatt, Clayton, Mo.
Wallace A. Boss, St. Paul
William D. Bosshardt, St. Paul

Kent H. Carlson, Minneapolis
 James J. Casey, St. Paul
 Robert S. Christensen, St. Paul
 Thomas E. Collins, Minneapolis
 Douglas A. Dolliff, Minnetonka Beach
 Joseph D. Doolittle, Fairmont
 John R. Doyle, Minneapolis
 Lester H. Eck, Minneapolis
 Kenneth E. Engclbretson, Minneapolis
 James F. Fitzgerald, Jr., Minneapolis
 Richard, L. Flynn, Minneapolis
 William E. Geilfuss, St. Paul
 George D. Goodrich, St. Louis Park
 Neil C. Gustafson, Minneapolis
 James N. Haidos, Hibbing
 John O. Haight, Jr., Minneapolis
 James E. Halvorson, St. Paul
 Alvin H. Hauge, Pequot Lakes
 James N. Hove, Minneapolis
 Richard G. Hunegs, Minneapolis
 Robert P. Janes, Minneapolis
 Keith E. Jorde, Cando, N.D.
 Paul M. Joyce, Evanston, Ill.
 David E. Kallman, Minneapolis
 David A. King, Red Wing
 Harlan S. Knatvold, Minneapolis
 Ronald M. Komarow, St. Paul

Glen D. Koskinen, Cromwell
 Stuart J. Leisz, Minneapolis
 Kenneth J. Maas, St. Paul
 Robert C. McCollum, St. Paul
 Arthur E. Miller, Crookston
 Alfred L. Nelson, Jr., St. Paul
 William A. Olson, Minneapolis
 John T. Pcarson, Minneapolis
 Bennett J. Porter, Minneapolis
 Herbert E. Rhoades, Hopkins
 John A. Richard, St. Paul
 Robert A. Rick, St. Paul
 William D. Riek, Minneapolis
 John C. Ripley, Winnebago
 Ronald W. Schultz, Minneapolis
 Charles H. Sederberg, North Branch
 Marvin J. Silverman, Minneapolis
 Jerold M. Siperstein, Minneapolis
 Richard G. Stockwell, Minneapolis
 Thomas B. Torgerson, Willmar
 John N. Wahl, West St. Paul
 John F. Wallerius, Fargo, N.D.
 Leonard E. Ware, Hopkins
 Roland H. Westman, Center City
 Gary B. Wollan, St. Paul
 Ronald A. Wolter, Browerville
 Jerrold D. Wolterstorff, St. Paul

Second Lieutenant, Corps of Engineers

Howard S. Adler, Minneapolis
 Reynold M. Anderson, Minneapolis
 Charles J. Beaupre, Minneapolis
 John E. Davis, Minneapolis
 Robert R. Farrar, Jr., White Bear Lake
 Gail G. Gren, Minneapolis
 John L. Holm, Minneapolis
 Dennis L. Johnson, Minneapolis
 Dean B. Kleinschmidt, Mankato
 John W. Lacina, Jr., Omaha, Neb.
 Peter F. Lee, Minneapolis
 Charles D. Malmer, Albert Lea
 Malcolm E. McLouth, Mankato

David E. Miller, Minneapolis
 George H. Nelson, Mankato
 Robert M. Nelson, LaCrosse, Wis.
 Robert L. Noble, Hot Springs, S.D.
 Paul E. Novotny, Stewart
 Robert J. Olsen, Minneapolis
 Robert D. Owens, St. Paul
 Elmer M. Papke, Fergus Falls
 Richard T. Reep, Minneapolis
 Burnell T. Roble, Spring Grove
 David W. Rolschau, Minneapolis
 Dunell V. Schull, Janesville

Second Lieutenant, Finance Corps

Laurel E. Gardin, Minneapolis
 Gerald S. Pettersen, Winona

Leo C. Meloche, Minneapolis

Second Lieutenant, Infantry Corps

Robert B. Janssen, Minneapolis
James P. Lind, Minneapolis

Roy E. Lundstrom, Jr., Stillwater

Second Lieutenant, Military Intelligence Corps

David L. Aldrich, Bertha
Barry S. Bonoff, Minneapolis
Norman D. Day, Robbinsdale
Duane R. Elvin, Minneapolis
Robert E. Fitzsimmons, Jr., Minneapolis

Kenneth J. Grant, Jr., Minneapolis
William K. Keller, Jr., St. Paul
Jack B. King, Omaha, Neb.
James E. Sheppard, St. Paul
Robert M. Skare, Mondovi, Wis.

Second Lieutenant, Ordnance Corps

Roland E. Berg, Hopkins
Jack W. Blien, Fairmont
Alan L. Compton, Mound
Edward H. Dewes, Hopkins
Herbert H. Dobbs, Mapleton
William E. Engebretson, Frazee
David R. Engstrom, Belgrade
Ronald L. Fellenstein, University City, Mo.
Roger H. Greenberg, St. Paul
Truman W. Gregg, St. Paul
David C. Johnson, Princeton
Neil M. Johnson, St. Louis Park

Floyd J. Laumann, St. Bonifacius
Clarence P. Lindberg, St. Paul
John P. Moran, Minneapolis
Neal L. Person, Hector
Louis H. Powell, Jr., St. Paul
Raymond G. Prichard, Minneapolis
Richard C. Rank, Minneapolis
Frank J. Shaw, Jr., Minneapolis
David A. Stoppel, Minneapolis
Peter M. Taylor, Minneapolis
Richard B. Theis, Shakopee
William M. Volna, Minneapolis

Second Lieutenant, Quartermaster Corps

Klaus J. Herrmann, Minneapolis
Douglas A. Nelson, Minneapolis
Richard J. Oldfield, Minneapolis

LeRoy D. Olson, Guckeen
Edward A. Schroer, St. Louis Park

Second Lieutenant, Signal Corps

Richard B. Abrams, Minneapolis
Lee E. Anderson, Plainfield, N.J.
Sanford A. Brody, St. Paul
Burton D. Cohen, Minneapolis
Claude W. Cramer, Jr., Minneapolis
Evan E. Day, Minneapolis
Robert C. Hahnen, Jr., St. Paul
Ronald W. Hansen, Minneapolis
Dennis A. Harms, Waconia
Lauren J. Iversen, Alexandria
Duane A. Johnson, Minneapolis
John H. Kuhlman, Jr., Minneapolis

Robert L. Lockwood, Minneapolis
Lawrence A. Lundeen, Minneapolis
Morris A. Lundin, Warren
Jerry H. Markus, Minneapolis
Jerrold J. McGill, Minneapolis
Leroy H. Olson, Minneapolis
Thomas G. Rohner, Minneapolis
Robert J. Rueff, Minneapolis
William J. Rydrych, Deer River
Russell R. Sage, Minneapolis
Gordon E. Schramm, St. Paul
Stanley H. Schweitzer, Minneapolis

Gerald C. Scott, Hopkins
Robert K. Severson, Lake Park
Ronald W. Shirk, Minneapolis
Richard W. Soshea, Minneapolis

Mitchell R. Spector, Minneapolis
Grant A. Wales, Minneapolis
Bruce M. Wheaton, Hopkins

Second Lieutenant, Transportation Corps

Johnny D. Anderson, Cambridge
James W. Beatty, Edgewood
Duane G. Erickson, Spring Valley,
Wis.
James R. Goebel, Minneapolis
Wayne W. Harmon, Minneapolis
Donald L. Illies, Mound
Richard A. Johnson, Alexandria
William C. Marcus, Buffalo, N.Y.
Jack C. Mark, St. Louis Park
Edward D. McCarthy, Detroit Lakes

Leo T. Molitor, Jr., Superior, Wis.
Robert W. Page, Minneapolis
Robert P. Pettengill, Minneapolis
Robert L. Pickering, Robbinsdale
Peter A. Prentner, Owatonna
Neal W. Prichard, Minneapolis
Robert H. Rutford, St. Paul
Thomas A. Shallbetter, Minneapolis
Mitchell R. Spector, Minneapolis
John J. Wilmes, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Arthur Elmer Anderson, Eau Claire,
Wis.
Jerrold Elmer Chapdelaine, St. Paul
Fred Milton Curtis, Minneapolis
Bruce Charles Dale, Minneapolis
Warren Edward Farwell, St. Paul
Dale Einar Jurgensen, Ellsworth, Wis.

Dale Allen Knutson, Little Falls
Donald Louis Korn, Moorhead
Marvin William Mirsch, St. Paul
Earl Edward Schultz, Minneapolis
Gordon Edwin Tinker, St. Paul
Linus Ben Wensman, Belgrade

Ensign, USNR

Gerald Bemel, Minneapolis
John Stanley Farley, Eveleth
William Douglas Folwick, Minneapo-
lis
James David Hann, Overland Park,
Kan.
Floyd Merle Hartwig, Buffalo
Charles Irving Malme, Halstad

James Alan Moe, Dassel
Robert Bruce Peterson, Minneapolis
Lawrence Rollin Smith, Minneapolis
David Faulk Stiles, Minneapolis
Robert Emmet Summers, Minneapolis
Thomas Monroe Vogt, White Bear
Lake
Philip James Worrell, Hopkins

Ensign, SC, USN

James Bartley Archer, Minneapolis
Patrick James Campbell, Minneapolis
Jay Alan Cedarleaf, St. Paul
George Edward Delchanty, Montgom-
ery

James William Harkin, Minneapolis
Frederick Herbert Kela, Minneapolis
Ronald Morton Mankoff, Minneapolis
John William Smaby, Moorhead
Norman Grant Sterner, Akron, Ohio

Ensign, SC, USNR

Richard Dale Christenson, Madelia
Jack Francis Daly, Jr., Minneapolis
Robert Howard Harvey, Minneapolis
Allen Spain Hitch, Minneapolis
Leslie Ray Johnson, Jr., Minneapolis
William Oscar Johnson, Jr., Minneapolis

John Lawrence Klein, St. Paul
James Richard Parish, Minneapolis
Glen Angus Reed, Superior, Wis.
Edmund Griffith Williamson, Jr.,
Minneapolis

Second Lieutenant, USMC

Andrew William Danielson, St. Paul
Gerald Hellinger Murray, St. Paul
Jerome Michael O'Sullivan, Norcross

James Robert Peterson, Willmar
David Livingston Roberts, Tucson,
Ariz.

Second Lieutenant, USMCR

Larry Gene Schultz, Minneapolis

James Preston Williams, Minneapolis

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

John M. Alton, St. Paul
Donald A. Anderson, Litchfield
Thomas C. Barrett, Anoka
Douglas N. Beecher, Willmar
Robert A. Breer, Mitchell, S.D.
Joseph R. Cates, Rochester
Richard E. Clark, Minneapolis
Donald E. Disselkamp, Morris
Richard J. Dols, Cologne
Florian P. Euteneuer, Grey Eagle
Gerald K. Gable, Minneapolis
James D. Gallup, St. Paul
Vaughn C. Green, Minneapolis
Donald A. Hauble, St. Paul
Thomas F. Kasbohm, Minneapolis
Emory N. Kemler, Jr., Wayzata
Anthony M. Kimball, Minneapolis
Robert G. Kotz, Isle
Lauris D. Krenik, Madison Lake
Douglas E. Letnes, Moorhead
Mark E. Luedtke, Glencoe

James W. Lund, Minneapolis
Frank J. Lyon, Minneapolis
James P. McDonnell, Buffalo
Floyd E. Miller, Glenwood
Edward D. Orenstein, Minneapolis
Samuel Orlich, Jr., Chisholm
Thomas L. Peterson, Sleepy Eye
Vernon C. Peterson, Minneapolis
Gerald E. Pickering, St. Paul
David E. Ratcliff, Minneapolis
Paul H. Richardson, St. Paul
Dale W. Snuggerud, Minneapolis
Richard F. Solem, Minneapolis
Myles M. Spicer, St. Paul
Stanley G. Stocking, Minneapolis
Donald M. Tsubaki, Wailuku, Maui,
T.H.
Ivan R. Weiss, St. Paul
John H. Westerman, Minneapolis
Fred A. Wolter, St. Charles

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

Donald William Berger, St. Paul
Catherine Margaret Bowlin, St. Paul

Warren Edmund Pennig, St. Paul
Harvey Bert Sunt, Minneapolis

Engineering Certificate

Ernest Orval Wold, Minneapolis

Industrial Engineering Certificate

Raymond Gunnar Jacobson, Minneapolis

Associate in Mortuary Science

Thomas Nelson Berger, B.A., Sioux City, Iowa	Marlowe Wayne Kinkade, Watertown, S.D.
Spencer Ezra Brisso, Hadar, Neb.	Louis Andrew Kolssak II, Chicago, Ill.
George Leslie Canon, Winnebago	Paul Robert Kretchman, Lidgerwood, N.D.
Richard Brigham Colbert, Jr., St. Cloud	Dean A. Marshall, Tildon, Neb.
Roger Alan Crowley, Brainerd	John Louis Miller, A.A., Brainerd
Robert Cecil Daly, Rochester	Robert Wesley Page, A.A., Minneapolis
Lyle Eugene Evans, Elmore	Russell Francis Peck, Braintree, Mass.
Roger Daniel Gearhart, Fergus Falls	Warren Sheldon Peterson, Lake City
Donald Jones Goodrich, B.A., Menomonie, Wis.	Michael Hugo Pollei, New Ulm
Lea Andre Hedine, Alexandria	John Donald Rabatin, Minneapolis
Curtis Lyle Hill, Minneapolis	Darrell Cleo Smith, Clarissa
Charles Peter Maddeson Holm, Grove City	James Edward Sobczak, Alma Center, Wis.
Gerald Jerome Iten, B.A., Browerville	Arnold Dahl Sundseth, Minneapolis
Richard Wilson Kelley, Tracy	Frederick Cooper Thomson, Minneapolis

GENERAL COLLEGE

Associate in Arts

- John Arthur Ahlquist, North St. Paul
Robert Forrest Allen, Minneapolis
Donald Arthur Anderson, Minneapolis
Gary Palmer Anderson, Thief River Falls
Louise Rutheld Anderson, Minneapolis
Carol Ann Arkenstine, Minneapolis
Jamesine Lynette Arnold, Minneapolis
Richard Wesley Astleford, Minneapolis
Fred Isador Badiner, Minneapolis
Paul Charles Bailly, Minneapolis
James Lee Barry, Minneapolis
Jean Rockwell Bell, St. Paul
Philip Alan Bennett, St. Paul
James Edward Benson, Red Wing
Donald William Beversdorf, Hopkins
James Floyd Bjork, St. Paul
Betty Carol Bricher, St. Paul
Barbara Ann Buckles, Minneapolis
Maceo Antonio Buford, Jr., St. Paul
Dennis Rudolph Carlson, Mound
Ronald Everett Carlson, Cambridge
Gregory Joseph Celski, St. Paul
Richard Harlan Cheney, Minneapolis
Gale Blondell Christmas, Philadelphia, Pa.
Marilyn Jane Derrick, Minneapolis
Jacqueline Rose Dicaire, Minneapolis
Rosanne Henrice Dworsky, Minneapolis
Charles Alvin Eidem, Minneapolis
Jerry Elliot Finkelstein, Minneapolis
Robert Earl Fredell, Minneapolis
William Vernon Fredine, St. Paul
Richard Harold Frye, Minneapolis
Ronald Francis Gagnier, St. Paul
Barbara Lee Gatten, St. Louis Park
James Raymond Gooden, Minneapolis
Leo Eugene Goslin, Minneapolis
Richard Ben Hagen, Minneapolis
Leo Paul Hanson, Minneapolis
Lyle Ronald Hanson, Steele, N.D.
Rosemary Haussner, White Bear Lake
Dale Lewis Heffron, St. Paul
Helen Nass Helman, Minneapolis
Harry Gustave Hoff, Jr., St. Paul
Charles Peter Holm, Grove City
James Dunning Holmes, St. Paul
Margot Corinne Hopp, St. Paul
Loren Richard Johnson, Minneapolis
Julia Elizabeth Jones, St. Paul
Beverly Ann Jorgensen, Minneapolis
Harry Karsh, Minneapolis
Carol Marian Kelley, Minneapolis
Obed Carrol Knudtson, Blue Earth
Arnold Harold Krueger, Olivia
Peter James Lange, Ivanhoe
Arthur L. Larson, Jr., Lindstrom
Lawrence L. Larson, Minneapolis
Leroy Charles Lemieux, Minneapolis
John Joseph Lofstuen, Rush City
Sadie Louise Luchsinger, Milaca
Donald Charles Manske, Minneapolis
Richards Malvern Manuel, Minneapolis
Jerome Leonard Meskan, Minneapolis
Jean Editha Moe, Minneapolis
Peter Henry Molloy, Minneapolis
Susan Irene Morris, Minneapolis
Gerald James Nelson, St. Paul
Lois Carol Nelson, Detroit Lakes
Patricia Louise Nelson, Minneapolis
Rita Vera Nelson, Minneapolis
John Novak, Minneapolis
Oscar Sylvester Odegard, Jr., Thief River Falls
Bruce Richard Olson, Minneapolis
Esther Joan Paulsen, St. Paul
James Paul Peller, St. Paul
Marilyn Pentell, Minneapolis
Howard Melvin Petersen, Minneapolis
Norman Harold Peterson, Minneapolis
Dale Richard Pfeilsticker, Mound
Duane Joseph Pidcock, Hopkins
Andrew Arnold Piilola, Minneapolis
Richard Curtis Powell, Minneapolis
Dennis Earl Quinn, Minneapolis
Arlene Barbara Rainey, Minneapolis
Carole Jean Reuber, Mankato
Roy Kiesner Riley, Minneapolis
Harvey Alvin Rodich, Minneapolis
James Albert Rosenquist, Minneapolis

Russell Eldon Rosvold, St. Paul Park
Robert Thomas Rush, Minneapolis
Charles Arthur Ryan, Minneapolis
Ralph Lawrence Sathra, Newport
James Gilbert Saxton, Minneapolis
John Herman Schleter, Minneapolis
Carol Fern Schultz, Minneapolis
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Bachelor of Chemical Engineering

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John Edmund Carrow, Minneapolis
Daniel Theodore Danielson, Billings,
Mont.
Evan Edward Day, Minneapolis
Charles Gustave Erickson, Stanchfield
Robert Brian Grady, St. Louis Park,
WITH HIGH DISTINCTION

John Chris Haidos, Hibbing
Edward George Lavigne, St. Paul
Frank Anthony Maderich, Virginia
William Clark Nickles, Manitowoc,
Wis., WITH DISTINCTION
David deLaittre Rosekrans, Wayzata
Richard Paul Sandell, Minneapolis,
WITH DISTINCTION
Paul Clayton Susie, Kenyon

Bachelor of Civil Engineering

Clayton Orville Anderson, Echo
Donald Axel Anderson, Litchfield,
WITH DISTINCTION
Reynold Manuel Anderson, Minne-
apolis
Robert George Baumeister, St. Paul
John Edward Bearden, Worthington

Russell Louis Brandt, Jr., St. Paul
Duane Richard Cady, Rapid City,
S.D.
John Thomas Christian, Morris
James Otto Comfort, Minneapolis,
WITH DISTINCTION

Peter Alois Fischer, St. Paul, WITH
HIGH DISTINCTION
Gail Gunnar Gren, Minneapolis
Jimmie Frank Hayek, Mountain Lake,
WITH DISTINCTION
James Robert Hill, Minneapolis
John Louis Holm, St. Louis Park
Robert Martin Johnson, Anoka, WITH
DISTINCTION
William Alden Kline, Minneapolis
Joseph Frank Koenig, St. Paul
Marvin Earl Krafve, Faribault
Floyd Joseph Laumann, St. Bonifacius
Herbert John Legler, St. Paul
James Alan Moe, Minneapolis
Courtland Lee Mueller, Duluth

Carl Marion Nylander, Montrose
John Gunnar Ohrn, Minneapolis
Andrew Curtis Olson, Windom
Robert Dale Owens, St. Paul
Orville Burdean Paulson, St. Paul
Robert George Peterson, St. Paul
David Winston Rolschau, Minneapo-
lis, WITH DISTINCTION
Joseph Schultz, Jr., Minneapolis
William Richard Slocum, Northfield
Perry Duff Smith, Minncapolis
Wayne Burnell Sperry, Richville
Richard Hale Sullivan, Madelia
Roger William Young, Rochester,
WITH HIGH DISTINCTION
James Arnold Zachman, St. Paul

Bachelor of Electrical Engineering

John Michael Alton, St. Paul
Joseph Lawrence Angeletti, St. Paul
Joseph Banner Barnes, Omaha, Neb.
Henry Martyn Bissell, Jr., B.S.L., St.
Paul, WITH HIGH DISTINCTION
Gordon Giles Blair, Wadena
Evan John Currence, St. Paul
John Michael Dols, Carver
Howard Norman Giese, Minneapolis
George William Gilster, Minneapolis
James David Hann, Overland Park,
Kan.
Floyd Merle Hartwig, Buffalo
Allan Arthur Hill, Ely
Arthur Michael Isaacson, Jr., B.S.,
Fanwood, N.J., WITH DISTINCTION
Paul Homond Jarvis, Breckenridge
Dwight Edward Johnson, Harris
Roy Ragnar Johnson, Minneapolis
Joseph Anthony Kimlinger, St. Paul
Edward Miles Koenig, St. Paul, WITH
DISTINCTION
Irving Henry Koponen, Duluth

Donald Herbert Malcolm, Minne-
apolis
Charles Irving Malme, Halstad, WITH
HIGH DISTINCTION
John E. McDonald, Duluth
Duane D. Miller, St. Paul
Roger Harvey Nelson, Minneapolis,
WITH DISTINCTION
Jurolf Arthur Oen, St. Paul
James Robert Pepper, Mankato
David Ekern Ratcliff, Minneapolis,
WITH HIGH DISTINCTION
Bruce Albert Richard, Minneapolis
William Joseph Rydrych, Deer River
Wayne Ralph Sather, Moorhead
Roy Paul Schindler, St. Paul
Walter Carl Timm, LeCenter, WITH
HIGH DISTINCTION
Francis John Toussaint, Gibbon
Ernest LeRoy Woodfill, Jr., Minne-
apolis
Walter Wychor, Minneapolis

Bachelor of Geological Engineering

Bruce Roger Doe, St. Paul
Rudolph Roger Moen, Minneapolis
Orrin Lee Slind, St. Paul

Leonard Newton Thompson, Jr., St.
Paul

Bachelor of Industrial Engineering

Arthur Elmer Anderson, Eau Claire, Wis.
Gerald Bemel, Minneapolis
Stuart Alan Bessler, Minneapolis,
WITH DISTINCTION
Julian Vincent Bilski, St. Paul
Jay Alan Cedarleaf, St. Paul
William Dore Gasway, Cedar Rapids,
Iowa

Herbert Graham Gish, Fort Snelling
Emil Jacob Helman, Minneapolis
William John Kohler, Minneapolis
Walter Kay Lillemo, Wayzata
Marvin William Mirsch, St. Paul
Peter John Orlando, Havre, Mont.
William Henry Phillips, Jordan
Leonard Dale Tupper, B.B.A., Minne-
apolis

Bachelor of Mechanical Engineering

Robert Neil Bateson, Hibbing, WITH
HIGH DISTINCTION
Glen William Bickley, St. Paul
James Earl Burford, Webster, Wis.,
WITH DISTINCTION
Edward Henry Dewes, Hopkins
Joseph Ernest Doescher, Minneapolis
Arnold Bernhard Erickson, Minne-
apolis
John Stanley Farley, A.S., Eveleth
Gerald Kenneth Gable, Minneapolis,
WITH DISTINCTION
Dennis Eugene Gilberts, Sand Creek,
Wis., WITH DISTINCTION
Jack Alan Gorman, Hibbing
Truman Warren Gregg, St. Paul
Bruce Ralph Harris, Minneapolis
Stanley Gerald Hartz, Litchfield
James Clarence Hogan, Minneapolis,
WITH DISTINCTION
John Richard Ivers, Minneapolis
George Adolph Jackson, Duluth
Curtis Arthur Johnson, St. Paul
Richard Arnold Jorgensen, St. Paul
Keith Martin Lang, Minneapolis
Earl Marvin Loyd, Fergus Falls

Robert Eugene Meyer, Fairmont
George Arvid Meyers, Duluth
Joseph C. Michael, Jr., B.A., Hopkins
Harold Leroy Miller, St. Paul, WITH
DISTINCTION
Larry Gene Nelson, Star Prairie, Wis.
Thoralf Kenneth Oltvedt, A.A., Min-
neapolis
Lawrence Louis Palkert, Minneapolis
Donald Richard Paugh, Minneapolis,
WITH DISTINCTION
Gerald Edward Pickering, St. Paul,
WITH DISTINCTION
Richard Henry Pickering, Virginia
Peter Frank Pierce, Minneapolis
Milton Christ Possis, Minneapolis
Ramon Wright Ragan, Redwood Falls
Glenn Charles Reinhold, Duluth
Paul Holst Richardson, St. Paul
Robert Hoyt Sevey, Excelsior
Russell George Solheim, B.A., Racine,
Wis.
Jack LeMoyné Suhr, St. Paul
Dwight Worthing Thompson, Minne-
apolis, WITH DISTINCTION

Bachelor of Metallurgical Engineering

Paul Winther Chase, A.A., Crosby
John McCoy Faulkner, Des Moines,
Iowa
Robert William Joseph, St. Paul, WITH
DISTINCTION

William Horton Magnuson, Minne-
apolis
Richard Orrin Olson, Minneapolis

Bachelor of Mining Engineering

Herbert Harold Faust, St. Paul
Allen Latham, Minneapolis
Clinton Kidder Lewis, Minneapolis

Thomas Maynard Tweed, Minneapolis, WITH DISTINCTION
Warren N. Warhol, Minneapolis

Bachelor of Petroleum Engineering

Charles J. Beaupre, Jr., Minneapolis
Robert Bruce Einhorn, Winona

Gordon Edwin Tinker, St. Paul, WITH DISTINCTION

Bachelor of Physics

John Albert Blaylock, Minneapolis

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

Electrical Engineer

Gerhard Lionel Oscarson, B.S. in E.E., '22, University of Minnesota, thesis, "Application and Precision Field Testing of Magnetic Slip Couplings Applied to Paper Machine Fan Pumps."

Mechanical Engineer

Robert Darnell Harvey, B. of M.E., SMME '39, University of Minnesota, thesis, "Design of a Low-Cost Multi-cylinder Fuel Injection Pump."

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

Bachelor of Science

Norman Charles Anderson, Ellendale, Forestry
Donald Edward Andreasen, Owatonna, Forestry
Marlene LaDonna Arman, Minneapolis, Home Economics
Robert Elmer Bagwill, Minneapolis, Agriculture
Ernest Eino Banttari, Hibbing, Agriculture, WITH DISTINCTION
Gloria Christine Bodlak, St. Paul, Home Economics

Barbara Ann Boysen, Cedar Falls, Iowa, Home Economics
Rueben Charles Buse, Brandon, Agriculture
Robert Steglitz Christensen, St. Paul, Agriculture
Carol Larson Coborn, Detroit Lakes, Home Economics
Irving Alexander Cornwell, Minneapolis, Forestry
Darrell Wright Crawford, A.S., Minneapolis, Forestry

- Truman Archie Dahl, Rushford, Agriculture
- Donald Harper Dinkel, Wasilla, Alaska, Agriculture
- John Paul Eddy, Howard Lake, Agriculture
- Robert Roland Farrar, White Bear Lake, Agriculture
- Margaret Ann Fenske, St. Paul, Home Economics
- Robert Martin Fitzke, Canton, Ohio, Agriculture
- Harlan George Freeman, Minneapolis, Forestry, WITH DISTINCTION
- Ronald Charles Froelich, St. Cloud, Forestry
- Margaret Diane Garding, Jefferson, Wis., Home Economics
- Richard Harry Gerlach, Rochester, Agriculture
- Geraldine May Gilbertson, Minneapolis, Home Economics
- Ellen Louise Glenny, Minneapolis, Home Economics
- Arthur Britt Goodwin, Mitchell, S.D., Fishery and Wildlife Management
- Dwight Alan Haberman, Minneapolis, Agriculture
- Glenn Lyle Haff, St. Paul, Agriculture
- Janice Marilyn Haier, Minneapolis, Home Economics, WITH DISTINCTION
- Harold Burton Halstead, Waseca, Agriculture
- Richard Curtis Haney, International Falls, Forestry
- Nancy Helen Hanson, St. Peter, Home Economics
- Harvey Philip Hermanson, Spring Valley, Agriculture
- Eugene Bert Hook, Tracy, Agriculture
- Robert Thomas Houska, International Falls, Forestry
- Marion Louise Illa, Minneapolis, Home Economics, WITH DISTINCTION
- Barbara Johnson, Aurora, Home Economics, WITH DISTINCTION
- Ralph Gordan Johnson, Minneapolis, Forestry
- Alan John Kenyon, St. Paul, Science Specialization, WITH DISTINCTION
- Michael Arthur Kerrick, Stillwater, Forestry
- David Austen King, Waconia, Forestry
- Jerome William Koenigs, Fairmont, Forestry, WITH HIGH DISTINCTION
- Glenn Hugo Koepke, Minneapolis, Forestry
- Glen Dale Koskinen, Cromwell, Agriculture
- Norma Elayne Kramin, Danube, Home Economics
- Russell Leonard Krech, South St. Paul, Agriculture
- Lauris Delford Krenik, Cleveland, Agriculture, WITH DISTINCTION
- Lynn R. Lindsten, Minneapolis, Home Economics, WITH HIGH DISTINCTION
- Whitney Ralph Lindwall, Two Harbors, Agriculture
- Markus E. Luedtke, Glencoe, Forestry
- Suzanne Mae Lund, Minneapolis, Home Economics
- Gordon Carlyle MacVey, St. Paul, Agriculture
- Judith Ann Mansmith, Minneapolis, Home Economics
- Marjorie Dorothea Melby, Cloquet, Home Economics
- Robert Eugene Norton, St. Paul, Agriculture
- Conrad Anton Olson, Minneapolis, Home Economics
- LeRoy David Olson, Guckeen, Agriculture, WITH DISTINCTION
- William Arthur Olson, Minneapolis, Agriculture
- George Daniel Pathos, Eau Claire, Wis., Agriculture
- Thomas Lynn Peterson, Sleepy Eye, Agriculture
- Patricia Harland Podd, St. Paul, Home Economics
- Raymond George Prichard, Minneapolis, Agriculture
- Pearl V. Quist, Glenview, Ill., Home Economics
- Ann Louise Reichert, Minneapolis, Home Economics
- William Robert Reilly, Minneapolis, Agriculture
- Dwane LeRoy Reineke, Clarissa, Agriculture

Herbert Eugene Rhoades, Jr., Hopkins, Forestry	Ronald Earl Taven, Duluth, Agri- culture, WITH HIGH DISTINCTION
John Charles Ripley, Winnebago, Agriculture	Eugene Ramon Tavonatti, Iron Mountain, Mich., Forestry
Warren Manley Schmalz, Buffalo Lake, Agriculture	Patricia Lynn Vanstrum, Minneapolis, Home Economics, WITH DISTINC- TION
Robert Wayne Schramek, Minne- apolis, Forestry	Kenneth Donald White, Marshall, Agriculture
Denis John Schreyer, New Ulm, Agriculture	Marjorie Joyce Wintenburg, Minne- apolis, Home Economics, WITH HIGH DISTINCTION
Erven Wayne Skaar, Thief River Falls, Agriculture	Fred Addison Wolter, St. Charles, Forestry
George Stanley Sovada, Bowlus, Agri- culture, WITH DISTINCTION	
Pauline Helen Strenglis, St. Paul, Home Economics	

SCHOOL OF VETERINARY MEDICINE OF THE INSTITUTE OF AGRICULTURE

Bachelor of Science

Richard William Baus, Hoven, S.D.	Edward LeRoy Larson, Grove City
Francis Richard Bilkovich, St. Paul	Robert Albert Martens, New Ulm
Charles William Brown, Granite Falls, WITH HIGH DISTINCTION	John Secrest McCallum, Clinton
William R. Byron, Waseca	Charles William McPherson, St. Charles, WITH HIGH DISTINCTION
Robert James Caldwell, Minneapolis	Richard Joseph Nolden, Jordan
Robert Cameron Eelkema, Duluth	Peter John Oberhauser, Minneapolis
William Dennis Funk, Minneapolis	Harvey Allen Olson, Luverne
Irving Lawrence Graves, Rice	Lowell Lee Patterson, West Concord, WITH DISTINCTION
Daniel D. Hagen, St. Paul	LaVerne Michael Schugel, New Ulm
Richard Carroll Herschler, St. Paul	Wayne Howard Sletten, Winthrop, WITH DISTINCTION
Herbert Anthony Hohenhaus, Jamestown, N.D.	Robert Andrew Stahnke, St. Paul
Edward Rodney Holland, Duluth, WITH DISTINCTION	Milton Carrol Stensland, Mabel
Carl Roger Jessen, St. James	Raymond Bernard Swanson, St. Paul
Kermit Wells Johnson, Windom	Robert Milton Wempe, St. Paul, WITH DISTINCTION
Vernon Allan Karli, Spring Grove	Robert Lloyd Westlake, Minneapolis
Ruth Helen Krueger, Kaukauna, Wis., WITH DISTINCTION	John L. Williamson, St. Bonifacius
George Anthony Lakes, St. Paul	

Doctor of Veterinary Medicine

Orlin William Bakke, B.S., St. Paul	Clyde Loren Books, B.S., St. Paul
Axel Hjalmar Bendickson, B.S., Rush City	Charles Thomas Brandly, B.S., Madison, Wis.
Walter Angelus Bonnett, B.S., Minneapolis	Daniel Richard Brensike, B.S., Minne- apolis

Charles William Brown, Granite Falls
 Delbert George Carlson, Worthington
 William Francis Cates, B.S., Prior
 Lake
 Terrence Michael Curtin, B.S.,
 Emery, S.D.
 Harold Edmund Dziuk, B.S., Foley
 Ronald E. Engel, B.S., Mason City,
 Iowa
 Norman I. Frederickson, B.S., Hanska
 Harold Henry Fuglsang, Glencoe
 Kenneth Guy Gillette, B.S., Cloquet
 Raymond L. Grefe, B.S., Truman
 Rodney Charles Hanson, B.S.,
 Winthrop
 Carl John Harberts, Worthington
 Alfred Charles Hartung, B.S.,
 Minneapolis
 Paul John Homme, Granite Falls
 William Andrew Horne, B.S.,
 Chippewa Falls, Wis.
 Carl Leslie Johnson, B.S., Eveleth
 Donald David Johnson, B.S., Chisago
 City
 Lyle Vincent Kansanback, B.S.,
 Sanborn
 Eugene Kenneth Karnis, B.S.,
 Brewster
 Albert Leon Klingsporn, B.S., St. Paul
 George Laurence Koepke, B.S.,
 Minneapolis
 Allen Fay Larson, Backus
 Albert Julius Luedke, B.S., Ogema,
 Wis.
 Donald Oliver Manthei, B.S., Loretto
 Gordon Dale Merry, B.S., Viola, Wis.
 Bennitt Eugene Monson, B.S.,
 Pequot Lakes
 Charles Ahti Oinonen, B.S., Virginia
 Harry Roy Olson, Minneapolis
 Lloyd Leroy Otteson, B.S., Waunakee,
 Wis.
 Robert William Page, B.S., St.
 Charles
 Lowell Lee Patterson, West Concord
 Clifton Arnold Paulson, B.S., Aitkin
 Ronald Dean Pawlisch, B.S., North
 Freedom, Wis.
 John Carl Schlotthauer, B.S.,
 Rochester
 Charles Roderick Shreffler, B.S.,
 St. Paul
 Loren Luverne Stock, B.S., Kensington
 Melvin Willard Stromberg, B.S.,
 Quamba
 Dan Edward Suther, B.S., Minne-
 apolis
 Irving Leland Thal, B.S., Bismarck,
 N.D.
 Robert Fred Walser, B.S., Minnesota
 Lake
 Donald Rex Wenger, B.S., Reading
 Daniel Alan West, B.S., St. Paul
 Eugene Lee Whitford, B.A., West
 Union, Iowa
 Roger Lee Winans, B.S., Shell Lake,
 Wis.
 James Raymond Zosel, B.S., Wadena

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

Bachelor of Science

<p> Carol Ardith Abraham, Olivia, Home <i>Economics Education, WITH HIGH DISTINCTION</i> Roberta Arlene Anderson, Sargent, Home Economics Education Robert Edward Andrews, Floodwood, Agricultural Education </p>	<p> Norman Ellsworth Bartlett, Blue Earth, Agricultural Education Lois Ann Bloemke, Springfield, Home Economics Education Julianna Godley Blunt, Albert Lea, Home Economics Education Carol Beverly Cain, Mantorville, Home Economics Education </p>
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- Joan Celia Fosshage, Redwood Falls,
Home Economics Education
- Edward Charles Frederick, Eagle Lake,
Agricultural Education, WITH HIGH
DISTINCTION
- Joann Louise Gilbert, Buffalo Lake,
Home Economics Education
- Lois Myrtle Gustafson, St. Paul,
Home Economics Education
- Wayne Carlton Haglin, Brainerd,
Agricultural Education
- Karen Diane Hanson, Minneapolis,
Home Economics Education
- Marla Ann Harff, Hastings, Home
Economics Education
- Mary Frances Hickok, Minneapolis,
Home Economics Education
- Marvin Waino Himango, Esko, Agri-
cultural Education
- Shirley Ann Huber, New Prague,
Home Economics Education
- Ann Louise Jirak, Montgomery,
Home Economics Education, WITH
DISTINCTION
- Richard Andrew Johnson, Alexandria,
Agricultural Education
- Marlene Yvonne Jondal, Hayfield,
Home Economics Education, WITH
DISTINCTION
- Janet June Jones, Lake Crystal,
Home Economics Education
- Harold Arthur Knudson, Hartland,
Agricultural Education
- Kenneth Wayne Knutson, Williams,
Agricultural Education
- Earl Fredrick Koeberl, Hector,
Agricultural Education
- Betty Marie Krueger, Hibbing, Home
Economics Education, WITH DIS-
TINCTION
- Genevieve Ruth Larson, A.A., St.
Cloud, Home Economics Education
- Patricia Ann Livingston, Minneapolis,
Home Economics Education, WITH
DISTINCTION
- Donna Mae Nagel, Hackensack,
Home Economics Education
- Harold Philip Paulson, Barnum,
Agricultural Education
- Areta Mae Peterson, Deephaven,
Home Economics Education, WITH
DISTINCTION
- Joan Priscilla Peterson, Winona,
Home Economics Education
- Joan Carol Petrich, Glencoe, Home
Economics Education, WITH DIS-
TINCTION
- Bonnie Jean Roberts, Minneapolis,
Home Economics Education, WITH
DISTINCTION
- Carolyn Ruth Roehm, Enderlin, N.D.,
Home Economics Education
- Nancy Alice Rose, Minneapolis,
Home Economics Education
- William Adolph Ruf, Aitkin, Agri-
cultural Education
- Lauretta Elaine Schell, Roseau, Home
Economics Education
- Kathleen Agnes Schneider, Marshall,
Home Economics Education
- Joann Mae Schwerin, Elkton, Home
Economics Education
- Fred Arnold Sorensen, Baudette,
Agricultural Education, WITH DIS-
TINCTION
- Marvin John Thiesse, Ceylon, Agri-
cultural Education
- Dorothy Ellen Valerius, Albertville,
Home Economics Education
- Kathryn Marie Vorachek, Thief River
Falls, Home Economics Education,
WITH DISTINCTION
- Arloa Fae Zahrbock, Clinton, Home
Economics Education

COLLEGE OF EDUCATION

Bachelor of Science

- Mary Theresa Adams, B.A., Minne-
apolis
- Rivoli Ann Agranoff, Sioux City, Iowa,
WITH DISTINCTION
- Joan Kellogg Ahlgren, A.A., Austin,
WITH DISTINCTION
- Curtis James Anderson, B.A., Minne-
apolis

Gloria Lynne Anderson, Canton, S.D.
 Janet Nordquist Anderson, Minneapolis
 Patricia Lenore Anderson, Two Harbors
 Patricia Marie Anderson, St. Paul
 Patricia Marie Anderson, Winger
 Janet Karen Andrews, Minneapolis
 Shirley Jean Andrie, Minneapolis,
 WITH DISTINCTION
 Robert Michael Barnack, Fergus Falls
 Thomas Clifford Barrett, Anoka, WITH
 DISTINCTION
 Jeanne Alice Bartholoma, Minneapolis
 Robert James Bauer, Mondovi, Wis.
 Juana Kay Baum, Clear Lake, Iowa
 Jean Leck Bauman, B.A., Minneapolis
 Yvonne Beaumont, Mound
 Patricia May Beha, Minneapolis
 Leah Marcia Mirviss Ben-Ora, Minneapolis, WITH DISTINCTION
 Wanda Mae Benson, Minneapolis
 Marilyn Phyllis Berchielli, Stamford, Conn.
 Eunice Victoria Berglund, Minneapolis
 Fred Paul Berndt, St. Paul
 Barbara Jean Bronner Blair, Minneapolis
 Mary Jo Blake, Minneapolis
 Carol Margaret Blakeslee, Mankato
 Carol Anne Boe, Presho, S.D.
 Hubert Frank Boeddeker, B.A., Minneapolis
 Mary Jane Borgeson, St. Paul
 Marjorie Elaine Bornhausen, St. Paul, WITH DISTINCTION
 Helene Rose Borseth, Minneapolis, WITH DISTINCTION
 Lorna Lou Borseth, Minneapolis
 Michael Arthur Bosanko, B.A., Minneapolis
 Betty Jane Boughton, Winona
 Beverly Mae Bowers, A.A., Minneapolis
 Thomas Ralph Boyer, A.A., Minneapolis
 Phillip Arthur Brandeen, Faribault, WITH DISTINCTION
 Marline Breitbord, Duluth
 John Leroy Brenna, A.A., Minneapolis
 Thomas Charles Brenna, Minneapolis
 Mary Ann Brooks, Anoka
 Marlys Jean Brustman, St. Paul
 Helen Alverta Buchta, B.S., St. Paul
 Catherine Joan Buckles, Minneapolis
 Carol Charlotte Volkert Buse, Minneapolis
 Ruth Lucille Bushee, Rochester, WITH DISTINCTION*
 Harry Woodward Byerly, Jr., St. Paul, WITH DISTINCTION
 Alma Jean Campbell, Minneapolis
 Patrick James Campbell, Minneapolis
 Margaret Anne Cargill, A.L.A., Minneapolis
 Judith Marie Carlson, A.A., Moose Lake
 David Charles Castren, Virginia
 James Hemming Castren, B.S., Virginia
 Mildred Brandon Cheese, Pine River
 James Joseph Chlebeczek, Minneapolis
 Bruce Arnold Christensen, Minneapolis
 Joyce Irene Christensen, St. Paul
 Sue B. Churchill, Cloquet, WITH HIGH DISTINCTION
 Herbert Ronald Clark, St. Paul
 Elaine Cohen, Minneapolis
 Luella Mae Cole, St. Paul, WITH DISTINCTION
 John D. Conklin, St. Paul, WITH DISTINCTION
 Walter Joseph Conway, A.A., Minneapolis
 Roger Vincent Crary, Minneapolis
 John William Cravens, Milaca
 Marianne Kathryn Cruzen, Minneapolis
 Donna Marie Cunningham, Mankato
 Robert Max Curry, Minneapolis
 Fred Milton Curtis, Minneapolis
 Jean D. Davis, Duluth
 Dolores Desmond, Minneapolis, WITH DISTINCTION
 Patricia Jeanne Dickinson, B.S., Minneapolis

* Nursing Education Curriculum.

Judith Nannette Savitt Dodd, Minneapolis
 Mary Davis Donsker, B.A., M.A., Minneapolis
 Joseph Doering Doolittle, Fairmont
 Dale Mathew Dosser, Eveleth
 Darrell Ramon Douglas, St. Paul
 Arthur J. Downey, St. Paul, WITH
 DISTINCTION
 Leif Martensen Duus, Tyler
 Ruth Eleanor Dwyer, New York, N.Y.
 Nadine Westin Dye, Manistique,
 Mich., WITH DISTINCTION
 Betty Jane Eckman, Delano, WITH
 HIGH DISTINCTION*
 Duane Elmer Eklin, Minneapolis
 Ruth Muriel Ekola, Crystal Falls,
 Mich.*
 Betsy Ann J. Elander, Two Harbors*
 John Smith Ellison, B.S., Monticello
 Colene Margaret Elton, Canton, WITH
 HIGH DISTINCTION
 Joan Marie Engebretson, Brecken-
 ridge*
 Janice Vee Engleson, A.A., Austin,
 WITH DISTINCTION
 Patricia Lou Enhelder, International
 Falls
 Loretta Marie Eno, Biwabik, WITH
 HIGH DISTINCTION*
 Gerald Meyer Erickson, Amery, Wis.,
 WITH DISTINCTION
 Gloria May Erickson, Minneapolis
 James Henry Esselman, Sauk Rapids
 Elizabeth Dorothy Evans, Excelsior
 Fay Richard Fitzgerald, A.A.,
 Rochester
 Veronica Anne Fjeran, Minneapolis
 James Henry Flom, Minneapolis, WITH
 DISTINCTION
 William Carl Foss, Moorhead
 Ruth Ann Fowler, Minneapolis
 Fruma Riva Frank, St. Paul
 Darlene Joan Fretter, Minneapolis
 Marlene Adele Friedman, St. Paul
 Jeanette Irene Fruen, Minneapolis
 John Stanley Futch, Minneapolis
 Jean Elizabeth Gadola, Ogilvie, WITH
 HIGH DISTINCTION
 Janet Ilene Gillie, Williams
 Daren K. Gislason, B.S. in Tech.Ag.,
 Minneota
 Donna Lee Glaas, Minneapolis
 Gail Lois Wolfson Goldstein, Minne-
 apolis
 Kathleen Ann Gramling, Minneapolis
 Thomas Christian Green, B.A., St.
 Paul
 Delores M. Grewing, Minneapolis
 Burton Louis Grover, Glyndon, WITH
 HIGH DISTINCTION
 Elizabeth Hanmer Gundersen, B.A.,
 Minneapolis
 Nancy Jane Hahn, Minneapolis
 John Orton Haight, Jr., Minneapolis
 Beverly Jean Haima, Hutchinson
 Janet Josephine Hall, Minneapolis,
 WITH DISTINCTION
 Barbara Claire Hammer, Galesville,
 Wis.
 Lowell Martin Handberg, Minneapolis
 Janet Mary Hansen, St. Paul
 Patricia Smith Hansen, Minneapolis
 Donald B. Hanson, North St. Paul
 Phyllis Ruth Hanson, Northfield
 Kimi Taguchi Hara, Minneapolis*
 Dennis Alfred Harms, Waconia
 Joan Elaine Harms, Minneapolis
 Donald James Harris, St. Paul
 Glenice Harstad, Sebeka
 Daisy Alice Hattstrom, Robbinsdale
 Donald Albert Hauble, White Bear
 Lake
 Jeanne Carol Haywood, Belgrade
 Henry Emil Ilenke, Jr., B.A., St. Paul
 Dana-Mae Hillstedt, Minneapolis
 Helen Lucille Hobbs, A.A., St. Paul
 Nadine Evonne Hofer, Minneapolis
 Doris Louise Hoffman, St. Paul, WITH
 DISTINCTION
 Renee C. Hoffmann, Minneapolis
 Marlys Jean Holmgren, St. Paul
 Kenneth Walter Holoien, Fergus
 Falls, WITH DISTINCTION
 Janet Arlene Howe, Glencoe, WITH
 DISTINCTION
 Elva Marjorie Hudson, Sleepy Eye
 Richard Duane Hugunin, Jackson
 Sarah Ann Humble, Klamath Falls,
 Ore.

* Nursing Education Curriculum.

Evelyn Mae Indihar, Elcor
 Lois Ruth Indihar, Gilbert
 George John Jamsa, Ely
 Shirley Evelyn Jellison, Cohasset
 Jack Winfield Jensen, Kansas City,
 Kan.
 Aldean Mary Jeurissen, Chaska
 Howard John Jiran, A.A., Minneapolis
 Milda Utoft Johansen, Tyler, WITH
 HIGH DISTINCTION
 Constance May Johnson, Wayzata
 Dale Eugene Johnson, Detroit Lakes
 Don Richard Johnson, Minneapolis
 Dorothy Anne Johnson, Fairfax, WITH
 DISTINCTION
 Duane Alward Johnson, Minneapolis
 Fred Arnold Johnson, B.A., Minne-
 apolis
 Helen D. Larsen Johnson, St. Paul,
 WITH DISTINCTION*
 Jean Carol Johnson, Minneapolis,
 WITH DISTINCTION
 Robert Norman Johnson, Minneapolis
 Susan Louise Johnson, Stillwater
 Evelyn Helen Jones, Minneapolis,
 WITH HIGH DISTINCTION
 Leah Crotty Jones, Minneapolis
 Clifford Carl Jordan, Redwood Falls,
 WITH DISTINCTION
 William Wallace Juntunen, Brainerd
 Barbara Ann Smith Just, B.A., Minne-
 apolis
 David Everrette Kallman, Minne-
 apolis
 Loren Frank Kamish, St. Croix Falls,
 Wis.
 Ramona A. N. Karlson, Bemidji, WITH
 HIGH DISTINCTION
 Audrey Ruth Katzoff, Cedar Rapids,
 Iowa
 Joyce Elaine Menne Kerl, New
 Brighton
 Merle Worden Kidder, Minneapolis
 Barbara Nell Knutson, Marshall,
 WITH HIGH DISTINCTION
 Dale Allen Knutson, Little Falls
 Theodore Wayne Kobs, Minneapolis
 William John Koski, Wayzata
 Shirley Jean Kouba, Albert Lea
 John Albright Kowalke, B.A., Hutch-
 inson
 Jane Noreen Kramer, St. Paul
 Joan Beverly Krause, Anoka
 Miriam Jean Krawetz, St. Paul
 Mary Sue Krebs, B.A., St. Paul
 Marilyn Lavonne Kringlee, Norwich,
 N.D.
 Carl William Kroening, Minneapolis
 Katheryne Louise Kroupa, Kansas
 City, Mo.
 Dean Leo Kruegel, Rochester
 John Henry Kuhlmann, Jr., Minne-
 apolis
 Florence Loeffert Lacabanne, B.A.,
 Minneapolis
 Lissette Gail Oliver Lafave, Grace-
 ville, WITH HIGH DISTINCTION
 Anne Elvira Larson, Minneapolis
 Gervaise Margit Larson, Albert Lea
 Jean Firmage Larson, B.A., Hopkins
 John Vincent Larson, Virginia
 Mary Susan Lau, Minneapolis
 Marilyn O. Ledin, North Branch
 Rosemary Therese Leoni, Gilbert
 Joann Kathryn Langlie Lewit, Minne-
 apolis, WITH DISTINCTION
 Lenore Margarite Lillejord, Minne-
 apolis
 Sara Crawford Lilygren, St. Paul
 Marlene Joan Lincoln, St. Paul
 Dorothy Miriam Lindblom, St. Paul
 Thomas Dean Loven, St. Paul
 James William Lund, Minneapolis
 Margery Jean Lund, La Crosse, Wis.*
 Margaret Ann Nuss Lyon, Minneapo-
 lis, WITH HIGH DISTINCTION
 Lorraine Marohn Madsen, Elk River
 Gertrude Elizabeth Mahlke, St. Louis
 Park
 Constance Louise Maiser, Waconia
 Beulah G. Mansfield, Minneapolis
 Marian Judith Mark, Minneapolis,
 WITH DISTINCTION
 Alice Watts Marshall, Minneapolis,
 WITH DISTINCTION
 Carl Robert Martin, Jr., Minneapolis
 Eugene Victor Martz, B.A., Brainerd
 Marilyn Matteson, St. Paul

* Nursing Education Curriculum.

Richard Henry May, Milwaukee, Wis.
 Jacqueline Gale McCauley, Minneapolis
Fred Charles McCormick, Jr., Minneapolis, WITH DISTINCTION
 Joann Marie McDowell, St. Paul
 Carolyn Veronica McKersie, Minneapolis
 James Louis Meade, Minneapolis
 Joanne Louise Meagher, Minneapolis
 Virginia Claire Means, Eugene, Ore.
 Marilyn Elaine Meline, St. Paul
 Marcia Jean Hayes Meloche, Minneapolis
Milda Luella Mensing, Blue Earth, WITH HIGH DISTINCTION
 Donald Lee Meyer, St. Paul
 Evelyn Rita Micheletti, Gilbert
 Mary Kathleen Miles, Fremont, Neb.
Patricia Ann Miller, Minneapolis, WITH HIGH DISTINCTION
 Marilyn Joyce Miner, St. Paul
 Charles S. Moates, B.S., North St. Paul
Robert Wayne Mollan, Minneapolis, WITH DISTINCTION
Lawrence Preston Moon, Spring Valley, WITH DISTINCTION
 Joan Louise Munson, Atwater
 Robert Joseph Nadon, B.A., M.A., Minneapolis
 James Barton Nelson, Minneapolis
 Mary Ellen Nelson, Minneapolis
Lila Marie Nentwick, Long Prairie, WITH HIGH DISTINCTION
 Navonne Adair Nicholls, St. Paul
 Clarette Olson Noah, B.A., Minneapolis
 Patricia Ann Noland, Storm Lake, Iowa
 Beverly Ann Olson, Minneapolis
 Irma Martin Olson, Hazel Run
 LeRoy Harold Olson, Minneapolis
 Marilyn Joan Olson, St. Paul
 Bonnie Anne Paal, Currie
 Janet Kay Paschke, Grand Rapids
 Stewart George Patrick, Minneapolis
 Ella B. Pedersen, Minneapolis
Rita Anna Pedersen, Ringsted, Iowa, WITH HIGH DISTINCTION

Robert Arnold Peloquin, Hibbing
Richard Lee Pemberton, Blue Earth, WITH HIGH DISTINCTION
 Elliott Perovich, Crosby
 Ann Peters, Glenwood, WITH DISTINCTION
 Inga Kromann Petersen, Ruthton, WITH DISTINCTION
 Barbara Joyce Peterson, Minneapolis, WITH DISTINCTION
 Eileen Carol Peterson, Minneapolis
 Elaine Sally Phillips, Thief River Falls
 Patricia Ann Plorde, Fairmont
 Ilo Gladys Pollmann, Glencoe
Angie Marian Porter, Minneapolis, WITH DISTINCTION
 Mary Lou Potocnik, Elcor, WITH DISTINCTION
 Ruta V. Praulins, Latvia
 Marilyn Lois Preston, St. Paul
 Marian May Priest, Minneapolis
Patricia Ann Ransier, St. Paul, WITH HIGH DISTINCTION
 Diane Joy Rauk, Nerstrand
 Richard Clayton Rauk, Minneapolis
 Glen Angus Reed, Superior, Wis.
 Laura Joyce Reed, Minneapolis
 Anne Louise Reick, Minneapolis
 Peter Richardson, Minneapolis
 Robert Alan Rick, St. Paul
 Ramona LaRena Mary Rienstra, Worthington
 Mary Helen Riley, Minneapolis
 Ruth Frances Riley, B.A., Muskegon, Mich.
 Wayne Thomas Robinson, B.A., San Francisco, Calif.
 Margaret Marie Roby, Hackensack
Joan Pauline Roehrich, St. Paul, WITH DISTINCTION
 Lawrence A. Ross, St. Paul
 Joseph William Ruttger, Deerwood
 Sandra Lynn Ryder, Hibbing
 Eleanor Cecilia Rynda, Montgomery
 Audrey Helen Samuelson, B.A., Kiron, Iowa
 Susan Mae Sanders, Minneapolis
 Blossom Charlyne Santamaa, B.S. in Professional Nursing, Aurora*
 Elizabeth Jane Sarantos, St. Paul

* Nursing Education Curriculum.

Martha Jean Scharmann, Williston, N.D.
 Adair Marie Schiefelbein, Minneapolis, WITH DISTINCTION*
 Dorothy Schneider, R.N., Minneapolis, WITH DISTINCTION*
 Henry Cedric Scholberg, B.A., Minneapolis
 William Jean Schrankler, B.A., St. Paul
 Florence Marguerite Schubert, Utica, WITH DISTINCTION*
 Mary Ann Schuette, Minneapolis, WITH DISTINCTION
 Geraldine Katherine Scott, Minneapolis
 Margaret A. Scott, B.A., Fairmont
 Charles Herbert Sederberg, North Branch, WITH DISTINCTION
 Vivian Joan See, Minneapolis
 Anna Margaret Sells, Freeborn, WITH DISTINCTION
 Margaret Marie Setterlund, Minneapolis, WITH DISTINCTION
 Lumir Charles Severson, B.A., Minneapolis
 Roger Allan Severson, Minneapolis
 La Vonne Virginia Shelton, A.A., Biwabik
 Wayne Vernon Shelton, Minneapolis
 Jessie Evelyn Shewell, B.A., Minneapolis
 Joan Reva Shuirman, Keewatin
 Harriet Silver, Minneapolis
 Sandra Kay Singer, Duluth
 Dorothy Ann Sjoquist, St. Paul, WITH DISTINCTION
 Ardella Darlene Skog, A.A., Bay City, Wis.
 Frances Kathryn Smith, Coshocton, Ohio, WITH HIGH DISTINCTION*
 Suzanne Elizabeth Snipes, St. Paul
 Faith Ellen Socha, St. Paul
 Elisabeth Helena Soderberg, Rock Island, Ill.
 Richard Frank Solem, Minneapolis
 Mary Elin Sommers, Minneapolis
 Carol Lee Sorenson, Minneapolis
 Phyllis Ruthe Sperling, Minneapolis
 Mary Louise Stein, Minneapolis
 Irene Claire Steiner, Ortonville
 Joyce Elvira Stephens, Minneapolis
 David Faulk Stiles, Minneapolis
 Marianna Johanna Stockvig, Spicer
 Theodore Rudolph Storlie, Minneapolis
 Patricia Jean Stormo, International Falls
 Janice Lou Streater, Spring Park
 Colleen McQuillan Strom, St. Paul
 Laura Jean Stryk, B.A., St. Paul
 Helen Aurit Sullivan, Minneapolis*
 Lois Jane Swaiman, Minneapolis
 John Richard L. Swanson, Minneapolis
 Mary Ann Priscilla Swenson, Albert Lea
 Gweneth Diane Tanner, Winnetka, Ill.
 Norma Ann Tanner, Minneapolis, WITH DISTINCTION
 Alberta Adaliza Tedford, Albia, Iowa, WITH DISTINCTION*
 Richard Benjamin Theis, Shakopee
 Mary Jean Thompson, St. Paul
 Robert Earl Thurston, St. Paul
 Clayton Howard Tiede, Rochester, WITH DISTINCTION
 Jeanette Mary Tobias, Beach, N.D., WITH DISTINCTION
 Harold O. Toupin, Chisholm
 Boris Trboyevich, B.A., Bovey
 Nancy May Tuthill, B.A., Edina
 Betty Jean Tutt, St. Paul, WITH DISTINCTION
 Joan Marilyn Ulrich, Wheaton
 Carolyn Louise Vogland, Minneapolis, WITH DISTINCTION
 Eugene Paul Vuicich, Chisholm
 Gregory Jerome Waddick, Minneapolis, WITH DISTINCTION
 Alfred William Walck, B.A., Rochester
 John Forbes Wallerius, Fargo, N.D.
 Lawrence A. Wallin, Hibbing, WITH DISTINCTION
 Maureen Claire Walter, A.L.A., Minneapolis
 Jean Walton, Flandreau, S.D.

* Nursing Education Curriculum.

David Guiles Washburn, B.A., St. Paul
Vernon Ervin Weckwerth, Montevideo, WITH HIGH DISTINCTION
Joyce Ann Weinman, B.A., Fairmont
Clarence Richard Wesenberg, St. Paul
Donald Oric Whited, Minneapolis
Jenille Evelyn Wicklund, Minneapolis
Doris Mae Wildenborg, Rochester*
Lettie Jeannette Williams, St. Louis, Mo., WITH DISTINCTION*
Gerald Raymond Wilson, Minneapolis

Betty Ann Wojahn, St. James, WITH DISTINCTION
Elizabeth Wolcott, Minneapolis
Frank Henderson Wood, B.A., M.A., Cherryvale, Kan.
Mary Ann Woodley, St. Paul
Joanne Katherine Schneider Wurst, Red Wing, WITH DISTINCTION
Ellen Kahn Yager, B.A., St. Paul
Seymour Yesner, B.S., Minneapolis
Suzanne Helen Zachman, St. Paul
Francis Anthony Zanitsch, St. Louis, Mo.

Bachelor of Science in Library Science

Jeanette Florence Benson, B.S., St. Paul

Master of Education

Elva Hudson Hunter, B.S., B.A., Clarksville, Tenn.
Clara Othelia Johanson, B.S., Minneapolis
Miriam Jean Krawetz, St. Paul
John Beauchamp Leicester, B.A., Saskatoon, Saskatchewan, Canada
Eugene Victor Martz, B.A., Brainerd

Lucille Nenita Paradela, R.N., B.A., Ceba City, Philippines
Mildred Paulsen Parsons, B.S., San Jose, Calif.
Constance Husted Strayer, B.S., Rochester
Donald Macbeth Uhlin, B.S., Minneapolis
Kenneth Frank Williams, St. Paul

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Richard Reuben Adamson, B.M.E., Superior, Wis.
Bill Etthemios Alevizos, Minneapolis, WITH DISTINCTION
John Michael Alton, St. Paul
John Deloren Anderson, Cambridge
Wilfred Balter, Minneapolis
LeRoy Henry Bartels, Deer Creek
Roland Elliott Berg, Hopkins
Stuart Allan Bessler, Minneapolis, WITH DISTINCTION
Mary Lou Boesser, Minneapolis
William Draeger Bosshardt, St. Paul
Kermit Derond Bovee, Minneapolis

Sanford Alan Brody, St. Paul
David Lee Brown, Oakland, Neb.
Thomas Francis Burke, A.L.A., B.A., St. Paul
Barton Charles Burns, St. Paul, WITH HIGH DISTINCTION
Thomas Harold Carlson, Wayzata
Roger Willard Challman, Minneapolis
Merle Hertzl Charney, Minneapolis
Richard Dale Christenson, Madelia
Arthur Wesley Coffland, Minneapolis
Donald Roy Cohen, Minneapolis
James Otto Comfort, Minneapolis, WITH DISTINCTION

* Nursing Education Curriculum.

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 Eugene Ronald Dankowski, St. Paul
 Richard John de Werd, St. Joseph
 Cyril Lawrence Ducharme, East Grand
 Forks
 George Alan Emslie, St. Paul
 Joann Ruth Erdman, St. Paul
 Bernice Marie Erickson, Minneapolis
 Jerry Etshokin, Chicago, Ill.
 Stuart Milton Friedell, Minneapolis,
 WITH DISTINCTION
 Laurel Eckman Gardin, Minneapolis
 Harold Donald Gillman, St. Paul
 Robert Brian Grady, St. Louis Park,
 WITH HIGH DISTINCTION
 Alan Frank Greenberg, Minneapolis
 James Eugene Halvorson, St. Paul
 William Robert Hamilton, Minne-
 apolis
 Edwin Stephen Hammer, Minneapolis
 Morris Oliver Hammer, Minneapolis
 Wayne William Harmon, Minne-
 apolis
 Glenn Docken Harper, St. Paul
 Dennis Wayne Henderson, Clear-
 brook
 Allen Spain Hitch, Minneapolis
 Jerome Oliver Holtan, Mantorville,
 WITH DISTINCTION
 George H. Hoyt, Minneapolis
 Wayne Thomas Huso, Northwood,
 Iowa
 Arthur Warren Igelsrud, A.A., Minne-
 apolis
 Gordon Edward Jereczek, St. Paul
 Beatrice Johnson, Milwaukee, Wis.
 Dexter Albert Johnson, St. Paul
 Gary Roy Johnson, Minneapolis
 Leslie Ray Johnson, Jr., Minneapolis
 Robert Victor Jonason, Lindstrom
 Leigh Albertson Jones, Mankato
 Myron James Jordahl, Lake Park
 James Lawrence Jordan, Minneapolis
 Willard Raymond Karkela, Sebeka
 Frederick Herbert Kela, Cass Lake
 Reese Frederick Kiner, Jr., Minne-
 apolis
 John Lawrence Klein, St. Paul
 Janet Eloise Koch, Minneapolis
 Edmund Wencil Kodet, Olivia
 Paul Fiedler Koernig, Minneapolis
 Clarence Walter Koester, Hopkins
 Joan Arlette Kolberg, Minneapolis,
 WITH DISTINCTION
 Ronald Marvin Komarow, St. Paul
 Donald Louis Korn, Moorhead
 Robert George Kotz, Isle
 Reginald Francis Kroskin, Wayzata
 Duane Rueben Kullberg, Cannon
 Falls, WITH DISTINCTION
 Roger Allan Larson, Minneapolis
 Harold Harlan Lee, Glencoe
 Richard Claude Lidstone, Minneapolis
 Richard Arnold Madsen, St. Paul
 John Edward Majerus, Minneapolis
 Charles William Malmquist, Minne-
 apolis
 George Thomas Medvec, Minneapolis
 Leo Conrad Meloche, A.L.A., Min-
 neapolis
 Arthur Edward Miller, Crookston
 Raymond Joseph Mondor, St. Paul
 Richard Alvin Mundhenk, A.A., Min-
 neapolis
 John Francis Murphy, Jr., St. Paul
 Neil Thomas Naftalin, Minneapolis,
 WITH DISTINCTION
 Fredric Lee Nathanson, Minneapolis
 Leighton Clarence Natt, Marine-on-
 St. Croix
 John Edwin Nelson, Minneapolis
 Lois Mae Nessola, Chisholm
 Robert Loren Noble, Hot Springs,
 S.D.
 James Walter Noehl, Pine Island
 William James Nusbaum, Owatonna
 Lawrence Junior Oberg, Minneapolis
 David Anton Olson, Dodge Center
 Philip Matthew Olson, St. Paul
 Mark Paper, St. Paul, WITH DISTINC-
 TION
 James Richard Parish, Minneapolis
 James Frederick Pearson, Minneapolis
 Robert Edward Perry, Staples
 Gerald Edward Pickering, St. Paul,
 WITH DISTINCTION
 Edmond Scott Pierce, Montevideo
 Donald Frederick Pitt, Little Falls
 Ronald Earl Plude, Minneapolis
 David Ekern Ratcliff, Minneapolis,
 WITH HIGH DISTINCTION
 John Albert Richard, St. Paul

Edmund Carleton Richmond, St. Paul
 Roger William Roberts, St. Paul
 Eugene Mathew Roering, St. Cloud
 Patricia Ann Rogers, Sioux City, Iowa
 John Downey Rollins, Minneapolis
 Robert Charles Roosen, Minneapolis
 Arthur Carl Rutscher, Jr., St. Paul
 Kenneth C. Sallberg, Crystal Village
 Peter Santrach, A.A. Calumet
 Roy Paul Schindler, St. Paul
 Claude Clifford Schneider, St. Cloud
 Richard Benjamin Schneider, Minneapolis
 Charles Scott Schuler, Minneapolis
 Ronald W. Schultz, Minneapolis
 Stanley Herman Schweitzer, Minneapolis
 Dale Wilmer Snuggerud, Minneapolis
 Douglas Keith Steenson, Minneapolis
 Garnett Roy Steiner, Ortonville
 Fred David Steingas, Montrose
 Donald Gerard Stelzner, A.L.A., Minneapolis
 Norman Grant Sterner, Akron, Ohio
 Norman Creevey Stirling, Santa Ynez, Calif., WITH HIGH DISTINCTION

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 Donald Elmer Svitak, Minneapolis
 Roy Walter Talmo, Rochester
 Carolyn Mary Thomas, Minneapolis
 Robert Charles Thomas, Rochester
 Robert Charles Thornbury, St. Paul
 Edward George Thuman, Chicago Heights, Ill., WITH DISTINCTION
 Elda Mae Turnacliff, Minneapolis
 Bradley Van Nest, Minneapolis
 Ottar Vikre, Bergen, Norway
 George Willard Vogt, Minneapolis
 Marquis L. Ward, Cloquet
 Harry James Wernecke, Rochester
 Daniel Peter Westerberg, Minneapolis
 Charles Edward White, Stillwater
 John James Wilmes, A.L.A., Minneapolis
 Ernest LeRoy Woodfill, Jr., Minneapolis
 Charles Hans Wulff, Albert Lea
 Donald Richard Yager, St. Paul
 Albert Francis Zubin, Minneapolis
 Margaret Elizabeth Zuehlke, Faribault

Bachelor of Science in Economics

Lawrence Raymond Arseth, Princeton, WITH DISTINCTION
 Richard Myron Bredesen, Minneapolis
 Paul Daub Brey, St. Paul
 James Curtis Carlson, Minneapolis
 Dean Constantine, Minneapolis
 Ronald Lee Fellenstein, University City, Mo.
 Edward Arthur Johnson, Minneapolis

Douglas LeRoy Mattson, Chisholm
 Louis Plutzer, Minneapolis
 Peter Wagner Robinson, Minneapolis, WITH DISTINCTION
 Margaret Isabel Schow, Minneapolis
 Willis Franklin Shaw, Minneapolis
 Emil Shipka, Minneapolis
 James Preston Williams, Minneapolis

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

James William Alexander, Owatonna
 Donald Arthur Anderson, Minneapolis
 Ellsworth Lee Anderson, Effie
 Robert Ward Barnes, Minneapolis
 Fritz Smith Bost, Duluth
 Frederic George Brandes, St. Paul
 Donald Erving Brandt, Minneapolis

Douglas Lawrence Buck, Milltown, Wis.
 Lindley Addison Cates, Jr., Minneapolis
 Zigrida Dunena Cazars, Minneapolis
 Paul John Christianson, St. Paul

Charles Berven Conselman, Shell Lake, Wis.	Michael Joseph Martell, Jr., Minneapolis
Francis Burton Crawford, Beaver Creek	George Hastings McDougall, Duluth
Lawrence Ellsworth Dahl, St. Peter	Robert Francis Montroy, St. Louis Park
Keith Edward Eastman, Bird Island	Neil Albert Muller, West St. Paul
Howard Clyde Ekberg, Minneapolis	Donald F. Mummah, Minneapolis
Roger Sherman Erickson, Madison	Gordon William Oien, Baudette
William Hubert Geraghty, Rosemount	James LeRoy Olsen, Robbinsdale
Howard Gertz, St. Paul	Raymond Richard Rantala, Virginia
Vincent Gregory Gladhill, Minneapolis	John Hursh Rasmusson, Ballclub
Stanley Blake Goldenberg, Minneapolis	Neil Helmer Rauk, Spring Grove
Wilmar August Grabow, Rapidan	William Yale Rose, Minneapolis
Gilmore Kay Granat, St. Paul	James Mathew Schneider, Comfrey
Paul George Grussing, Clara City	Andrew Vernon Siler, Bemidji
David Alfred Hirscher, Janesville	Sister M. Danile Knight, St. Joseph
Morton Russell Holmgren, St. Paul	Theophile Edward Smith, St. Paul
Eugene Leonard Jarett, Rochester	Alan Stuart Stein, Minneapolis
Andrew Raymond Johnson, Wyoming	Richard Eugene Stroncek, Minneapolis
Eugene Albin Johnson, Minneapolis	Charles Eugene Thompson, Minneapolis
John Albin Johnson, Minneapolis	Robert Bidne Tweitto, Spring Grove
Burton Raymond Joul, Lakefield	Leona Mae Vik, Minneapolis
William Douglas Kellermann, St. Paul	John Nicholas Walerius, Minneapolis
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Kenneth Leonard Lynch, Minneapolis	Donald Gen-Min Wong, Albert Lea
Adrian Owen Magnuson, B.Ch.E., St. Paul	Robert Lloyd Wortz, Litchfield
Stanley Howard Maisel, Minneapolis	

LAW SCHOOL

Bachelor of Science in Law

David Arnold Bailly, Minneapolis	Robert Henry Maverus, A.A., Rose Creek
Donald Torrence Belgum, Glenwood	John Graham McCorkindale, Minneapolis
Robert Julian Botten, Thief River Falls	Gerald Hellinger Murray, St. Paul
James Patton Corson, Duluth	Francis Xavier Nelson, Minneapolis
James Gordon Cowen, Minneapolis	John Bertram Press, A.S., Eveleth
Jack Francis Daly, Jr., Minneapolis	Thomas Erwin Reiersgord, Crookston
Andrew William Danielson, St. Paul	Michael Lewis Robins, Minneapolis
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James Ralph Holman, Minneapolis	Robert Grady Schiefelbein, Minneapolis
Alfred Harry Lee, Carlton	James L. Sifferle, Minneapolis
Derbin Kenneth Lindgren, Jr., Minneapolis	Howard Silberman, La Crosse, Wis.
Landol John Locher, A.A., Austin	John William Smaby, Moorhead
Ronald Morton Mankoff, Minneapolis	

Stephen Barnett Solomon, St. Paul
Carl Burton Stokes, Cleveland, Ohio
Robert Norton Stone, Minneapolis
John Edward Streiff, A.A., Stewartville
Rose Marie Margaret Sundquist, A.A.,
Virginia

James Edwin Toms, Ely
George Leonard Vobejda, Lodgepole,
S.D.
Thomas M. Vogt, White Bear Lake
David Lynn Wells, Robbinsdale
John Harold Westerman, Minneapolis

Bachelor of Laws

Richard Duane Allen, A.A., B.S.L.,
Byron
Harry Lloyd Altman, B.A., M.A.,
Minneapolis
Robert Bakke, B.S.L., Minneapolis
Zola Bernard Blicher, A.L.A., B.B.A.,
Minneapolis
Roy A. Bogen, B.B.A., Minneapolis
Michael James Bolen, B.S.L., Minne-
apolis
Harold Keith Bradford, Jr., B.S.L.,
Minneapolis
Walter Lewis Bush, Jr., A.B., Minne-
apolis
James Patton Corson, Duluth
James Gordon Cowen, Minneapolis
Jonathan Earl Cudd, B.S.L., Minne-
apolis
John Joseph Daly, Jr., B.A., Rose-
mount
Edward Peter Dietrich, B.S.L., Min-
neapolis
Herman Satoshi Doi, B.A., Honolulu,
T.H.
William Buehler Dosland, B.A.,
Moorhead
Robert Lloyd Erickson, B.A., B.S.L.,
Minneapolis
Norman Eugene Evidon, B.S.L., Min-
neapolis
Thomas Bainbridge Foster, B.S.L.,
St. Paul
Bernard Preston Friel, St. Paul
James Edward Garvey, B.A., Eau
Claire, Wis.
William Charles Geimer, B.S.L., Min-
neapolis
Richard James Gunn, B.S.L., Minne-
apolis
Earl Bernard Gustafson, B.S., Duluth
John William Hedberg, B.S.L., Min-
neapolis

Robert Leslie Helland, B.S.L., Arthur,
N.D.
Peter Joseph Iliniker, B.A., Le Sueur
Edward Clarence Hoffman, Jr., B.A.,
St. Paul
Ellwood Hoskins, B.B.A., Minneapolis
Ronald Wayne Howard, B.B.A., Min-
neapolis
John Irvin Jacobson, B.B.A., Glen-
wood
Richard John Kantorowicz, B.S.L.,
Minneapolis
Hiroshi Kato, B.A., Honolulu, T.H.
Robert Edward Kaul, B.A., Faribault
William Arthur Kolstad, B.A.,
Ivanhoe
Fred Richard Kraft, A.A., B.S.L.,
Austin
James William Krause, B.A., Fergus
Falls
Ernest Rienhart Kutzik, B.A., Monte-
video
Jule Neiland Kvamme, B.B.A.,
Scanlon
James Philip Larkin, B.A., Minne-
apolis
James Alvin Larson, B.B.A., Minne-
apolis
Robert Latz, B.S.L., Minneapolis
James Patrick Leavitt, Jr., B.A., St.
Paul
Dwight Henry Lindholm, B.B.A.,
Cambria
Gerald Edward Magnuson, B.B.A., St.
Paul
Knute Eugene Malmberg, Minne-
apolis
Alvin Sherman Malmon, B.B.A., St.
Paul
Ronald Morton Mankoff, Minneapolis
John David McCarthy, B.A., Minne-
apolis

Lloyd Thomas Merrigan, B.S.L., Minneapolis
 William Wallace Merrill, B.S.L., Glencoe
 Robert Emmett Moore, B.A., Minneapolis
 Daniel Henry Mundt, B.B.A., Shawano, Wis.
 Winston Ellsworth Munson, B.B.A., Minneapolis
 Donald Burdette Nold, B.S.L., Anoka
 James David Olson, B.A., B.S.L., Minneapolis
 Raymond B. Ondov, B.S.L., Minneapolis
 Donald J. Paquette, B.A., Duluth
 Elver Thomas Pearson, B.A., Elizabeth, N.J.
 Marvin Jack Pertzik, B.B.A., St. Paul
 Donald Edward Price, B.S.L., Minneapolis
 James Devitt Rogers, B.A., Minneapolis
 Bernard Rosenberg, B.A., Minneapolis
 Gerald Edward Rutman, B.S.L., St. Paul
 Connor Francis Schmid, B.S.L., Minneapolis
 Roger William Schnobrich, B.B.A., Minneapolis
 Edward James Schwartzbauer, B.S.L., St. Paul
 John Earl Simmonds, B.A., Mankato
 Robert Martin Skare, B.S.L., Mondovi, Wis.
 Julius Coller Smith, B.S.L., Shakopee
 Curtis John Timm, B.A., Minneapolis
 George Leonard Vobejda, Lodgepole, S.D.
 Perry Gerald Voldness, B.A., Thief River Falls
 Donald Patrick Waddick, B.S.L., Minneapolis
 Charles Frederick Wallander, Jr., B.S.L., Minneapolis
 Frederick Robinson Weddel, B.S.L., Minneapolis
 Burton Gerald Weisberg, B.S.L., Minneapolis
 Honnen S. Weiss, B.B.A., Minneapolis
 Thomas Earl Wolf, B.A., B.S.L., Rochester
 Jerome Sherman Yugend, B.B.A., St. Paul

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

<p> Coletha Joan Anderson, Glenwood Glence Harriet Anderson, Minneapolis Karen Elizabeth Anderson, Granite Falls Nancy Ann Anderson, Springfield, Mo. Barbara Ann Brooks, St. Paul Mary A. Bruber, South St. Paul Noreen Jane Budd, Minneapolis Jean Sigrid Christopherson, Minneapolis Sally K. Crabtree, Ellendale, N.D. Mary Ann Drinkall, Minneapolis Dorothy Jean Edelson, Minneapolis Avis Louise Fellows, New Lisbon, Wis. Myrtle Evonne Glick, Glasgow, Mont. </p>	<p> Joan Catherine Grutsch, West St. Paul Patricia Ann Haggerty, Rapid City, S.D. Georgia Diane Hettenhausen, Port Arthur, Ontario, Canada Audrey Merette Jacobson, Robbinsdale Barbara Hera Jensen, Minneapolis Germaine Ann Johanningmeier, Cedar Rapids, Iowa Virginia Lee Johnson, Minneapolis Suzanne Claire Leavitt, Quincy, Ill. Marjorie Geoline Morem, Harmony Evelyn Elsie Morrow, Anoka Sally Joy Olson, Minneapolis Mary Jayne Rees, North St. Paul </p>
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Dorothy Mae Sevy, Springfield, Mo.
Eloise Stanwood, Minneapolis
Dolores June Stoerzinger, South St.
Paul
Marjorie Jane Tidemand, Minneapolis
Ardis Thelma Tollefson, Glenwood

Phyllis Ann Tollefson, Minot, N.D.
Nancy Rae Wemple, St. Paul
Bernice Margaret Wilson, Arvada,
Colo.
Lois Marian Wimmer, Minneapolis

Bachelor of Science

Boriss Afanasjevs, Minneapolis
John Anthony Alampi, Nashwauk
Thomas Roy Aldritt, Minneapolis
Gordon Clarence Amundson, Duluth
David Grant Anderson, Minneapolis
Donald Sigvartsen Benson, A.A.,
Rochester
Donald Everett Bentley, B.A., Twin
Valley
Stephen Thomas Braum, St. Paul
Roger Jerome Burke, St. Paul
John Warner Carns, B.A., St. Paul
Donald Joseph Casey, St. Paul
Arden Gale Christen, Lemmon, S.D.
Donavon Dwayne Claussen, Jasper
Razack Adisa Danmole, A.A., Lagos,
Nigeria
William James Darrington, West St.
Paul
Frida Agnes Delhey, Minneapolis
Robert Raymond Edlund, Minne-
apolis
David Paul Engleson, Benson
Charles David Fisher, Minneapolis
Douglas Rennie Fraser, B.A., St. Paul
Fanny Nusia Freund, Minneapolis
David Laurence Gadola, Ogilvie
William Henry Gold, Redwood Falls
Shale Henry Gollop, St. Paul
John Michael Haubner, Carlton
Paul Almeron Hayes, Minneapolis
John Robert Hornick, Morris
Robert George Hutflissi, Minneapolis
Lawrence Harlo Irgens, Fergus Falls
Robert John Isaacson, Fanwood, N.J.

William Cable Jackson, Jr., Minne-
apolis
Jerry Edward Johnson, Minneapolis
Merlyn Burdette Johnson, Ashby
Wendell C. Johnson, B.A., Farm-
ington
Nick Karahalios, Kelly Lake
Robert Arthur Kasper, Winsted
Daniel Peter Kelly, A.A., Grand
Rapids
James Emil Klima, A.L.A., Cedar
Rapids, Iowa
John Robert Klobe, Glencoe
Donald Wayne Legler, Minneapolis
Carl Paul Mayer, St. Paul
Robert Edward McDonnell, St. Paul
James Willard Monson, St. Paul
Jerome Rye Muller, Gibbon
Jack A. Namias, Greece
Raynard Peter Nyberg, Jr., Columbia
Heights
Robert George Olson, Minneapolis
Laurance Vinton Peterson, II, Mabel
Robert Clarence Peterson, Benson
Raymond Bernard Price, Stephen
Francis William Rasen, Cloquet
Duane Edward Reiter, B.A., Pine
Island
Gerald Arlen Rosdahl, Minneapolis
Roger Raymond Severinson, Willmar
Deane Allison Skyberg, B.A., Fisher
Maynard Floyd Smedstad, Willmar
Curtis Bruce Sorte, Scobey, Mont.
Charles Robert Wellner, Windom

Doctor of Dental Surgery

Boriss Afanasjevs, Minneapolis
Richard Wellis Anderson, B.A., B.S.,
St. Paul
Mervin Allen Aus, B.S., Rugby, N.D.

Joan Kathryn Bardell, B.S., Glasgow,
Mont.
Andrew Ronald Benassi, B.A., Duluth

Donald Everett Bentley, B.A., Twin Valley
 Norris Lee Boe, B.S., Ogema
 Irving Allen Borkon, B.A., B.S., Minneapolis
 John Warner Carns, B.A., St. Paul
 Raymond Elliott Dunham, B.A., B.S., St. Paul
 Eugene Francis Eiden, B.S., Chaska
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 William John Ford, Jr., B.S., Fargo, N.D.
 James Douglas Fossum, B.S., Crosby
 Douglas Rennie Fraser, B.A., St. Paul
 Melvin Leonard Frazee, B.S., Antioch, Calif.
 Richard Joseph Fredlund, B.A., B.S., Minneapolis
 Walter Richard Grabner, A.A., B.S., Minneapolis
 Raymond Folke Gustafson, B.S., Minneapolis
 Charles Warren Hallgren, B.S., Carver
 Harry Willard Haugan, B.A., B.S., Alvarado
 Robert Louis Helleen, B.S., St. Paul
 George Hallaway Henkel, B.A., B.S., White Bear Lake
 Sylvester Stephan Hera, Jr., B.A., B.S., Minneapolis
 Arthur George Robert Hoaglund, B.S., Minneapolis
 Kenji Horita, B.A., B.S., Minneapolis
 William Franklyn Hudelson, B.A., B.S., Hibbing
 Melvin Christopher Humbert, B.S., St. Cloud
 Merlyn Burdette Johnson, Ashby
 Verland Eldred Johnson, B.S., Jasper
 Wayne Douglas Johnson, B.A., B.S., Minneapolis
 Wendell C. Johnson, B.A., Farmington
 Nick Karahalios, Kelly Lake
 Carl Walter Karja, A.A., B.S., Virginia
 L. Victor Kennedy, B.S., Minneapolis
 Aina Robezgruntnieks Kiris, DDS., Minneapolis
 Thomas John Kotula, Jr., B.S., Brownville
 Thomas Robert Larkin, B.S., Minneapolis
 John Clayton Larsen, B.S., St. James
 Delbert Wayne Leckband, B.A., B.S., Kinbrae
 Robert Lawrence LeGault, B.S., Argyle
 Hobert Philip Lundblade, B.S., Sandstone
 John Edmund Maeurer, B.S., St. Paul
 James Patrick Mallon, B.S., Minneapolis
 Maynard Albert Mellang, B.A., B.S., Albert Lea
 John Henry Menefee, B.A., Rochester
 Willard Irvin Mielke, B.S., Brownston
 John Hall Moline, B.S., Boulder, Colo.
 James Willard Monson, St. Paul
 Earl Dennis Nash, B.A., B.S., Winona
 Eugene Thomas O'Brien, B.S., Belle Plaine
 Harold L. Odden, B.S., Cumberland, Wis.
 Roy Clarence Olson, B.S., Hendricks
 Takeshi Osada, B.S., Minneapolis
 David Jerome Osdoba, B.S., Albert Lea
 William Douglas Ostergren, B.A., B.S., St. Paul
 John James Owens, B.S., Menahga
 Vincent Joseph Paul, B.A., Spring Valley
 Ralph Charles Edward Peterson, B.S., Minneapolis
 Vernon Eric Peterson, B.A., B.S., Minneapolis
 Wesley Carl Peterson, B.S., Virginia
 Dean Edgar Rasmussen, B.S., St. Paul
 Harley Alvin Raykowski, Jr., B.A., B.S., St. Paul
 Anthony David Romano, Jr., B.S., Duluth
 William Dean Romers, B.S., Minneapolis
 Myron Thorphin Shervheim, B.S., Marshall
 Kenneth Marvin Shipstead, B.S., Winona
 Wallace Allen Simunds, B.S., Moorhead

Robert Upham Spear, B.A., B.S., St. Paul	Donald Alphonse Welna, B.S., Minneapolis
Roland Lloyd Stromsborg, B.A., B.S., St. Cloud	Marion Richard White, B.S., Minneapolis
Gordon Reinhart Struck, A.L.A., B.A., B.S., St. Paul	Paul Raymond Wild, B.S., St. Paul
Keith Richard Thompson, B.S., Mandan, N.D.	George Richard Williams, B.S., A.L.A., Minneapolis
George Roger Tompkins, B.S., B.A., Redwood Falls	Edgar Frederick Ziegler, B.S., Perham
David Ernest Weiss, B.S., Eau Claire, Wis.	George Curtis Ziegler, A.L.A., B.S., St. Paul
	Albert Ziton, B.Acro.E., St. Paul

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Professional Nursing*

Marjorie Jacob Alley, Anoka	Mary Elizabeth Faribault, B.S. in Mus.Ed., Minneapolis
Joan Legus Campbell, Minneapolis	Mary Ellen Amberg Kelly, St. Paul
Sally Annette Watkins Dennis, Carlton	Margaret Alys Wyatt, St. Paul, WITH DISTINCTION

Bachelor of Science

Katharine Frances Adams, Minneapolis, Medical Technology**	Dorothy Broding Dahlgren, Minneapolis, Public Health Nursing
Ann Marie Alar, Virginia, Medical Technology, WITH DISTINCTION**	Diane Josephine Davis, North Branch, Medical Technology**
Ruth Loraine Alberts, Radcliffe, Iowa, Public Health Nursing	Ann Dorcen Daynard, A.A., Bovey, Medical Technology**
John Duncan Allison, Michigan City, Ind., Physical Therapy, WITH DISTINCTION	Donald Lee Dingman, B.A., Minneapolis, Medical Technology**
Janice Emma Lorena Annis, Minneapolis, Medical Technology**	Marcy Leroy Ditmanson, B.A., M.A., Minneapolis, Medical Sciences
William R. Bird, Ida Grove, Iowa, Physical Therapy, WITH DISTINCTION	Jean Katherine Fndress, St. Paul, Occupational Therapy
Dorothy Cochel Calafiore, Phoenix, Md., Public Health Nursing, WITH DISTINCTION	Lois Latham Erlandson, Minneapolis, Occupational Therapy
Millie C. Christenson, Minneapolis, Public Health Nursing	Mary Louise Espersen, St. Paul, Occupational Therapy
Helen Hassapopoulou da Cruz, Athens, Greece, Medical Technology**	Aaron Gerald Fingerhut, B.A., Minneapolis, Medicine
	Michele Ann Flanagan, St. Paul, Physical Therapy, WITH HIGH DISTINCTION

* These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 16, 1954.

** These degrees are conferred subject to the satisfactory completion of practical work prior to December 16, 1954.

- Claudette Carol Garland, Marinette, Wis., Occupational Therapy
- Frances Louise Griffith, Minneapolis, Medical Technology, WITH DISTINCTION**
- David Franklin Griggs, Minneapolis, Occupational Therapy
- Elizabeth Therese Habedank, Ada, Physical Therapy
- Norma June Hammer, Minneapolis, Medical Technology**
- Kathleen Frances Hastings, Minneapolis, Occupational Therapy
- Jess Woodrow Hetherington, Knoxville, Iowa, Physical Therapy
- David Anderson Hilding, B.A., Duluth, Medicine
- Joan Elizabeth Hockett, Alexandria, Occupational Therapy
- Joyce Ann Hoepfer, Wausau, Wis., Occupational Therapy, WITH HIGH DISTINCTION
- John Arnold Jensen, B.A., Williams, Medical Sciences
- Joseph Dale Jerome, Kelliher, Medical Technology**
- Donna Lou Johanson, Wheaton, Physical Therapy, WITH DISTINCTION
- Ardyce Mildred Johnson, Garfield, Medical Technology**
- Ronald Glen Johnson, B.A., St. Paul, Medicine
- Willis Constance Johnson, Columbia, S.C., Medical Technology
- Sachiko Kaneko, Calif., Physical Therapy, WITH DISTINCTION
- Karla Faye Kaplan, Owatonna, Medical Technology**
- A. Patricia Scott Keairnes, A.A., Minneapolis, Medical Technology, WITH HIGH DISTINCTION**
- Ruth Elizabeth Knox, Minneapolis, Medical Technology**
- Jane Elizabeth Larson, St. Paul, Occupational Therapy, WITH DISTINCTION
- Beverly Lilliann Lysen, Minneapolis, Occupational Therapy
- Jean Audrey Mandery, Minneapolis, Physical Therapy
- Jacqueline Sue Marofsky, St. Paul, Occupational Therapy, WITH DISTINCTION
- Nancy Ann Melchior, St. Paul, Chemistry
- Ella Marie Mogilevsky, Minneapolis, Medical Technology**
- Douglas Alan Nelson, B.A., Windom, Medicine
- Nancy L. Nepp, Albert Lea, Medical Technology**
- Donna Mae Irene Newstrand, St. Paul, Medical Technology**
- Marilyn Mae O'Brien, Minneapolis, Medical Technology, WITH DISTINCTION**
- Geraldine Marie Olafson, Minneapolis, Medical Technology, WITH DISTINCTION**
- Ruth Mae Page, St. Charles, Occupational Therapy
- Ruth Marie Plum, Minneapolis, Occupational Therapy
- Barbara Mae Reed, Minneapolis, Physical Therapy
- Betty Ann Ruspino, Crosby, Medical Technology**
- Lucile Wilcox Sandman, R.N., Colorado Springs, Colo., Public Health Nursing
- Charles Walker Schabacker, B.A., Minneapolis, Medicine
- James Robert Schlichting, B.A., Minneapolis, Medicine
- Clarence Alfred Sicard, A.L.A., Somerset, Wis., Occupational Therapy
- Richard Knute Simmons, B.A., Minneapolis, Medicine
- Donna Lois Stauffer, Tyler, Occupational Therapy, WITH DISTINCTION
- Cathleen Cecile Sweeney, Shakopee, Medical Technology, WITH DISTINCTION**
- Elizabeth Ann Swyryd, St. Paul, Medical Technology**

** These degrees are conferred subject to the satisfactory completion of practical work prior to December 16, 1954.

Marian Louise Velleu, Rochester,
Physical Therapy
Ellen Hopkins Warren, Minneapolis,
Occupational Therapy
Sumiye Watari, Minneapolis, Occupa-
tional Therapy
Norman Richard Wegner, Luverne,
Iowa, Physical Therapy

Gloria Jeanne Welk, Minneapolis,
Medical Technology**
John Clifford Whitacre, II, B.A., St.
Paul, Medicine
Carole Marie Wilson, St. Paul, Occu-
pational Therapy
Lloyd Thomas Wood, B.A., Lake
City, Medicine

Master of Hospital Administration

Stephen Lawrence Barrett, B. of Ph.,
Chicago, Ill.
Donald Harrison Black, B.A., Fulton,
N.Y.
Armand Eugene Brim, B.S., Fairfield,
Wash.
Peter Earl Bye, Jr., B.A., Hibbing
Florence Irene Gregoric, B.S., Calu-
met, Mich.
John Cecil Hamiter, B.S., Carrollton,
Ala.
Owen Paul Hatley, B.S., Boise, Idaho
John Marion Hendricks, B.S., Mem-
phis, Tenn.
Lloyd Niels Hermansen, B.S., Lin-
coln, Neb.
Benjamin Nobuki Hirano, B.A., Hono-
lulu, T.H.
Richard Wilson Hunsaker, B.S., Min-
neapolis
Robert Manfred Jacobson, B.A., Chis-
holm
Otto Martin Janke, B.A., Minneapolis
Howard Earl Johnson, B.B.A., Minne-
apolis
Ronald Dwight Larsen, B.A., Winner,
S.D.

Woodrow Lee, B.B.A., Great Lakes,
Ill.
Henry Ellsworth Moran, B.S., Mil-
waukee, Wis.
John Lawrence Morrow, B.A., Min-
neapolis
Julio Olavarria, Mexico, D.F.,
Mexico***
Hamilton Vardaman Reid, B.S.,
Montgomery, Ala.
Dean K. Roe, B.A., Minneapolis
Bruce Robert Sanderson, A.A., B.A.,
Stockton, Calif.
John Howard Shephard, B.S., White
Bear Lake
Sister Mary Generose Gervais, B.S.,
Rochester
James Robert Startzman, B.B.A.,
Caldwell, Ohio
Ward A. Stoddard, B.S., Alma Center,
Wis.
Carl Alfred Streufert, B.B.A., Glencoe
Eugene Benedict Wait, B.A., Fari-
bault
Rolland Edward Wick, B.A., Duluth

Master of Public Health

Andreas Angara y Aragon, M.D.,
Baguio City, Philippines
Josephine Elizabeth Baca, B.S.N.,
Santa Fe, N.M.
Rashed Bahar, B.S., Mashad, Iran
Umit Nezhik Cakmur, B.S., Kilis,
Turkey

Pao-Shu Chen, M.D., Taipei, For-
mosa, China
Oscar Otto Egger, B.S., Fond du Lac,
Wis.
Vigen Leon Gevorkian, B.S., Tehran,
Iran

** These degrees are conferred subject to the satisfactory completion of practical work prior to December 16, 1954.

*** Degree conferred as of June 13, 1953.

Glen Finlay Hallman, B.S., Bre-
 mer-ton, Wash.
 Sara Lou Harrison, B.A., M.A., Den-
 ver, Colo.
 Alfred Herman Hintz, B.S., Minne-
 apolis
 Agnes Marie Hoeger, B.S., M.D.,
 Fargo, N.D.
 Nancy Gibbons Lautzenheiser, B.A.,
 M.B., M.D., Martin, S.D.
 Robert Louis Magoffin, B.A., M.D.,
 Fort Worth, Tex.
 Sarah Louise Manaugh, B.S., San
 Diego, Calif.
 Irene Helen Narloch, B.S., Wausau,
 Wis.
 Forrest Nelson, B.A., B.S.L.S., Spring-
 field, Ill.

Helen Schaefer O'Dair, B.A., Park
 Rapids
 Kenneth Lloyd Pool, B.A., Lewiston,
 Idaho
 Gladys Ruth Rydeen, M.Ed., Clear-
 brook
 Wesley Earl Smith, B.A., Jefferson
 City, Mo.
 Myrtis Eloise Jones Snowden, B.S.,
 New Orleans, La.
 Elmer Raymond Spurrier, B.S.Ed.,
 Jefferson City, Mo.
 Ralph James Walsh, B. of Eng.,
 Woonsocket, R.I.
 Walter Albert Werner, B.A., M.D.,
 Gate City, Va.
 Elmer William Whitcomb, B.S.,
 M.B., M.D., Byron

Doctor of Medicine

Alexander Abrams, Jr., B.A., Minne-
 apolis
 James Thomas Adkins, B.S., B.A., St.
 Paul
 Robert Clarence Ahlstrom, B.A., St.
 Paul
 Eunice Rose Anderson, B.A., Sturgeon
 Lake
 William Evan Anderson, B.A., St.
 Peter
 Richard Eldon Anonsen, B.A., B.S.,
 Minneapolis
 John Ellsworth Applen, B.A., Marshall
 Merle Charles Bah, B.A., B.S., Evans-
 ville
 Melvin Palmer Baken, Jr., B.S.,
 M.S.D., D.D.S., Minneapolis
 Alvin E. Berglund, Jr., B.A., B.S.,
 Cambridge
 Richard Edson Borreson, B.S., B.A.,
 Thief River Falls
 Brian Earl Briggs, B.A., B.S., Minot,
 N.D.
 James Edward Brown, Jr., B.A., B.S.,
 St. Paul
 Gerald F. Burke, B.A., B.S., St. Paul
 Joseph Albert Callan, B.A., Minne-
 apolis
 Wayne Leigh Campbell, B.S.,
 Willmar

Jean Effal Carlin, B.A., B.S., M.A.,
 Minneapolis
 Robert Gerald Carlson, B.A., Minne-
 apolis
 Warren Albert Christensen, B.A.,
 Proctor
 William Bruce Clark, B.A., Rockville
 James Windsor Decker, B.A., Minne-
 apolis
 Kathleen Hogan Decker, B.A., Minne-
 apolis
 Frank DeAtley Dennis, B.A., Minne-
 apolis
 Marcy Leroy Ditmanson, B.A., M.A.,
 Minneapolis
 James Adrian Donaldson, B.A., B.S.,
 St. Cloud
 George Charles Dorsey, Jr., B.S., Min-
 neapolis
 Stephen R. Dunphy, B.S., Minne-
 apolis
 Paul Jerome Dyrdal, B.A., Albert Lea
 William Lyle Ellingson, B.A., B.S.,
 Detroit Lakes
 Milton Gene Ettinger, B.A., B.S., St.
 Paul
 Robert D. Fedor, B.S., Lakefield
 William Frank Feller, B.A. magna
 cum laude, B.S., St. Paul

Aaron Gerald Fingerhut, B.A., Minneapolis
 Richard Clayton Finley, B.A., B.S., Mound
 Gilbert Sherman Frank, B.A., Minneapolis
 Kenneth Ray Gaarder, B.A. *summa cum laude*, Minneapolis
 Edgar Ralph Gamm, B.A., B.S., Marshall
 Robert Williams Geist, B.A., B.S., St. Paul
 Leonard Harold Greene, B.A., Minneapolis
 Paul Thomas Grimes, B.A., B.S., Grand Meadow
 Warren Hartley Gullen, B.A., B.S., Minneapolis
 Roger Verner Haglund, B.A., B.S., Duluth
 Donald Eugene Halverson, B.A., Flandreau, S.D.
 Kent Oscar Hanson, B.A., B.S., Hallock
 Stanley J. Haukeness, B.A., Minneapolis
 William Louis Hedrick, B.S., Minneapolis
 Bernard John Heetderks, Jr., B.A., B.S., Bozeman, Mont.
 Katherine Hiduchenko, Lcbedin, Ukraine
 David Anderson Hilding, B.A., Duluth
 Kenneth Verplank Hodges, B.A., Albert Lea
 George Creighton Hottinger, B.S., St. Paul
 Donald Bruce Hulteng, B.S., East Grand Forks
 Joseph Robert Jannach, B.S., Minneapolis
 Oleg Jardtetzky, B.A., M.S., Minneapolis
 John William Jenne, B.A., Minneapolis
 John Arnold Jensen, B.A., Williams
 Kenneth Irving Jernberg, B.A., B.S., Minneapolis
 Emery Allen Johnson, B.S., Warren
 Ronald Glen Johnson, B.A., St. Paul
 Thomas Harrington Johnson, Jr., B.S., Minneapolis
 Edward Olaf Jorgensen, A.L.A., B.A., North St. Paul
 Morris Ralph Katkov, B.A., B.S., St. Paul
 John Edward Kauth, B.A., B.S., Minneapolis
 Michael Kosiak, B.A., B.S., Chisholm
 Bruce Allen Kottke, B.S., Pine Island
 Richard James Krebsbach, B.S., B.A., St. Paul
 Vernon George Kuhlmann, B.A., B.S., Hamburg
 Martha Carlisle Larsen, B.A., B.S., Crookston
 Arthur Norman Larson, B.A., Osakis
 Dorette Wheat Larson, B.S., Duluth
 Paul Roy Leon, B.S., B.A., Ely
 James Bushnell Lindahl, B.A., B.S., Crosby
 James McNair Little, B.A., B.S., Mayville, N.D.
 Dennis E. Lofstrom, B.S., St. Peter
 Carol LaVon Lynn, B.A., Redwood Falls
 Robert Ecklund Lynner, B.A., B.S., Clarkfield
 Fredric L. Mast, A.S., B.A., B.S., Brainerd
 Donald Sheldon Mattson, B.S., Minneapolis
 Robert Lynn McAllister, B.A., B.S., Minneapolis
 Charles Joseph McCarthy, B.S., St. Paul
 Gene Edward Meger, B.S., Minneota
 Giles Gene Merkel, B.S., New Ulm
 Richard Hollister Meyer, B.A., Fari-bault
 William Peters Miller, B.S., Ortonville
 Leo Joseph Moran, B.S., Slayton
 Douglas Alan Nelson, B.A. *magna cum laude*, Windom
 John Douglas Nelson, B.S., Duluth
 Wilhma Bowman Nelson, B.S., M.B., Minneapolis
 Sidney Nerenberg, B.A., B.S., St. Paul
 Richard Alton Ness, B.A., Waterloo, Iowa
 Eugene C. Ott, B.S., Minneapolis
 Neely E. Pardee, B.A., Minneapolis

Thomas Myles Parker, B.A., B.S., Rochester
 Charles R. Pelzl, B.S., New Ulm
 Edward Nohl Peterson, B.S., Virginia
 Robert Dwight Pilgrim, B.A., Absarokee, Mont.
 Howard Richard Porter, B.A., B.S., Minneapolis
 Elsa Caroline Proehl, B.A., M.A., Minneapolis
 Robert Lyle Radke, B.S., Jordan
 Andrew Eugene Reardon, B.S., St. Paul
 Burton Irwin Rein, B.A., B.S., Minneapolis
 Mason C. Robbins, B.A., B.S., St. Paul
 William Henry Rock, B.A., St. Paul
 Eugene Thomas Rondeau, B.A., Minneapolis
 Richard Keith Runquist, B.A., B.S., Cokato
 Leonard Sadoff, B.A., B.S., Minneapolis
 Lucille Mary Saloum, B.S., Duluth
 Bernard Sandler, B.S., New York, N.Y.
 Charles Walker Schabacker, B.A., Minneapolis
 James Robert Schlichting, B.A., Minneapolis
 Robert Eugene Schmitz, B.A., B.S., Minneapolis
 Herbert Alan Schoening, B.S., B.A., Minneapolis
 Doris Vivien Schoon, B.A. cum laude, B.S., Luverne
 Lawrence Serber, B.A., B.S., Minneapolis
 Arthur Elton Sethre, B.A., M.S., Fergus Falls
 Gerald Bernard Sinykin, B.S., Minneapolis
 Duane Samuel Smith, B.S., Minneapolis
 David Milton Stenzel, B.A., Easton
 Richard Edward Student, B.S., Minneapolis
 Harry Arvid Swedlund, B.A., Minneapolis
 Russell Alden Thompson, B.S., Hutchinson
 Deloran Leigh Thurber, B.A., B.S., Rochester
 James Curtis Trautmann, B.A., Hastings
 Warren James Warwick, B.A., Green Bay, Wis.
 Macnider Wetherby, Jr., B.A., Minneapolis
 John Clifford Whitacre, II, B.A., St. Paul
 Robert Edward Wilson, B.A., Minneapolis
 Robert G. Wohlrabe, B.A., B.S., Springfield
 Lloyd Thomas Wood, B.A., Lake City
 Donald William Woodley, B.A., Minneapolis
 Toshio Yumibe, B.A., Hood River, Ore.

GRADUATE SCHOOL

Master of Arts

Samuel Levi Adams, Waycross, Ga.
 B.A. '48, West Virginia State College; B.A. '49, Wayne University. Field of Concentration: Journalism.
 Diane Ramsey Albitz, Minneapolis
 B.A. cum laude '50, University of Minnesota. Field of Concentration: Psychology.
 Donald Lloyd Anderson, Duluth
 B.A. cum laude '52, University of Minnesota. Field of Concentration: Economics.
 Oliver Johan Arneson, Edinburg, N.D.
 B.S. '48, Mayville State Teachers College. Field of Concentration: Educational Administration.
 Frank B. Baker, Mankato
 B.S. '50, University of Minnesota. Field of Concentration: Educational Psychology.
 Bruce Edward Balow, Wabasha
 B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Edward F. Barski, Stillwater
B.E. '39, Winona State Teachers College. Field of Concentration: Industrial Education.

David Miller Bjork, Los Angeles, Calif.
B.A. '50, University of California at Los Angeles. Field of Concentration: Geography.

Robert S. Burger, St. Paul
B.A. '39, College of the City of New York. Field of Concentration: Journalism.

Sue Stokely Burnett, Washington, D.C.
B.A. with distinction '41, The George Washington University. Field of Concentration: Political Science.

Robert Russell Catura, Jordan
B.A. cum laude '52, University of Minnesota. Field of Concentration: Linguistics.

Donald Wesley Cederberg, Minneapolis
B.S. '39, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Robert Alfred Chapman, Minneapolis
B.A. '49, University of Minnesota. Field of Concentration: Economics.

Gerald William Christenson, Litchfield
B.A. '53, St. John's University. Field of Concentration: Educational Administration.

Isaac B. Corpuz, Asingan, Pangasinan, Philippines
E.T.C. '47, Philippine Normal College; B.S.E. '50, Central Luzon College. Field of Concentration: Curriculum and Instruction.

William Charles Curran, Lead, S.D.
B.S. '46, United States Naval Academy. Field of Concentration: Statistics.

Paul Wentland Eaton, Minneapolis
B.A. '49, University of Minnesota. Field of Concentration: Economics.

Anthony George Ellis, Winston-Salem, N.C.
B.A. with honor '52, St. Augustine's College. Field of Concentration: History.

Lucy DeReid Enos, Minneapolis
B.S. '46, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Donald Charles Ewing, Minneapolis
B.A. cum laude '50, St. Thomas College; M.A. '53, University of Minnesota. Field of Concentration: Library Science.

Herbert Fantle, St. Paul
B.A. magna cum laude '50, University of Minnesota. Field of Concentration: Mathematics.

Donald LaVonce Farnham, Arthur, N.D.
B.S. with highest honors '41, University of North Dakota. Field of Concentration: Political Science.

Donna Marie Farrell, Minneapolis
B.S. '52, University of Minnesota. Major: Speech Pathology. Minor: Educational Psychology. Thesis: An Investigation of the Influence of Different Voices on the Selection and Repetition of Words Presented Dichotically at a Supra Threshold Level.

John Robert Fausch, Minneapolis
B.S. '34, University of Minnesota. Field of Concentration: Industrial Education.

Stanton Paul Fjeld, Prescott, Wis.
B.A. '50, University of Minnesota. Field of Concentration: Psychology.

Floyd Parker Gilbert, Hutchinson
B.A. '28, Union College. Field of Concentration: Educational Administration.

Elizabeth Thorne Grant, St. Paul
B.S. '51, Northwestern University. Field of Concentration: Speech.

Carolyn Pfaff Greene, North St. Paul
B.A. '49, Augsburg College. Field of Concentration: Speech.

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

Richard Dale Halverson, Wayzata
B.A. cum laude '52, University of Minnesota. Field of Concentration: Music.

Gloria Joan Hebbe, Minneapolis
B.A. cum laude '46, Brooklyn College. Major: Physics. Minor: Mathematics. Thesis: An Exterior Cauchy Problem for the Acoustic Field.

Robert Doyle Hjort, St. Paul
B.S. with distinction '52, University of Minnesota. Field of Concentration: Agricultural Economics.

John David Hugunin, St. Paul
B.A. *cum laude* '51, University of Minnesota.
Field of Concentration: Psychology.

Frédéric William Ibeling, Minneapolis
B.S. '41, Concordia Teachers College. Field of Concentration: Curriculum and Instruction.

William Robert Keller, Nevada, Mo.
B.A. *cum laude* '49, Harvard College. Field of Concentration: American Studies.

James Ray Kiland, Thief River Falls
B.A. '50, University of Minnesota. Field of Concentration: Psychology.

Thomas Morris Leshner, Columbus, Ohio
B.A. '46, Ohio State University. Field of Concentration: Psychology.

John Anson Levorsen, Tulsa, Okla.
B.A. '53, Pomona College. Field of Concentration: Geology.

Arthur B. Lieber, New York, N.Y.
B.A. '52, University of Miami. Major: Journalism. Minor: History. Thesis: Relationship of Tutelage and Censorship to the Press of the Near and Middle East, India, and Pakistan Since World War II.

Willard Miner Ludford, Robbinsdale
B.A. '41, Hamline University. Field of Concentration: Curriculum and Instruction.

Wilson Sands Luhman, Minneapolis
B.S. '42, University of Minnesota. Field of Concentration: Industrial Education.

Mark E. Mahowald, Fergus Falls
B.A. *cum laude* '53, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Convergence and Summability Theorems for the Expansions of Functions in Spherical Harmonics.

William Charles Marcus, Buffalo, N.Y.
B.S. '52, University of Wisconsin. Field of Concentration: Political Science.

Jack Charles Mark, St. Louis Park
B.A. '52, University of Minnesota. Field of Concentration: Journalism.

Edmund Jerome McCarthy, Chicago, Ill.
B.S. '50, Northwestern University. Major: Economics. Minor: Industrial Engineering. Thesis: High Earnings and the Guaranteed Annual Wage—A Case Study of Geo. A. Hormel and Co.

Robert Francis McDonnell, Minneapolis
B.A. *cum laude* '51, St. John's University. Field of Concentration: English.

Richard Keith Means, Sherman Oaks, Calif.
B.S. with distinction '52, University of Minnesota. Field of Concentration: Physical Education.

Ezzeldin Ali Moustafa, Cairo, Egypt
Graduate '46, Royal Police Academy and Faculty of Law (Egypt). Field of Concentration: International Relations.

Robert Walter Nave, Minneapolis
B.A. '48, Hamline University. Major: Area Study (Far East). Thesis: Local Government in Uttar Pradesh, India.

Arthur Carlisle Oien, Audubon
B.A. '52, Concordia College. Field of Concentration: History.

Sherman James O'Neill, Minneapolis
B.A. *magna cum laude* '48, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Vector Lattices.

C. A. Ake Orndahl, Ekolsund, Sweden
Graduate '50, University of Neuchâtel (Switzerland). Major: Political Science. Minor: Economics. Thesis: Regional Arrangements in the United Nations Charter.

Marvin Andrew Palecek, Minneapolis
B.A. '53, Northwestern Schools. Field of Concentration: History.

Warren Russell Palmquist, St. Paul
B.A. '50, Bethel College. Field of Concentration: Educational Psychology.

Ellsworth Eugene Panser, Minneapolis
B.S. '53, University of Minnesota. Field of Concentration: History and Philosophy of Education.

Josephine Durkee Paterek, St. Paul
B.S. '37, University of Wisconsin. Major: Speech. Minor: Art. Thesis: A Survey of Stage Costuming in the Colleges and Universities of the United States.

James Eugene Pearson, Circle Pines
B.A. '47, M.A. '49, University of Oklahoma. Field of Concentration: Library Science.

Gerald Leigh Penk, St. Paul
B.S. '53, University of Minnesota. Field of Concentration: History and Philosophy of Education.

Perry Milton Polski, St. Paul

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

Hareshwari Prasad, Dinapore Cantt., Bihar, India

B.A. '33, M.Ed. '37, M.A. '44, Patna University (India). Field of Concentration: History and Philosophy of Education.

George Daniel Prazich, White Bear Lake

B.A. *cum laude* '42, Gustavus Adolphus College; M.Ed. '47, University of Minnesota. Field of Concentration: Educational Psychology.

Ove Jacob Hjort Preus, St. Paul

B.A. '48, Luther College. Field of Concentration: English.

Joseph Louis Pucel, Ely

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

Eugene James Putzer, Oshkosh, Wis.

B.A. '51, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: A Survey of Certain Limiting Processes.

Helen E. Hodgdon Rood, Minneapolis

B.A. '50, B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Dale LaVerne Rose, Minneapolis

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

William Rosenfeld, Herkimer, N.Y.

B.A. '51, Utica College of Syracuse University. Field of Concentration: American Studies.

James Jay Ryan, III, St. Paul

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

Mohamed Ali Selim, Alexandria, Egypt

B.Com. '49, Fouad I University. Major: Business Administration. Minor: Economics. Thesis: The Egyptian Merchant Marine and Cargo Handling in Important Ports.

Ingegerd Seljestad, Finnsnes, Norway
Graduate '49, Hamar Teacher Training College (Norway). Field of Concentration: Educational Psychology.

Eugene Nathan Seltz, Hopkins

Graduate '29, Concordia Seminary. Field of Concentration: German.

Libby Epstein Siegel, Minneapolis

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

Malcolm Saul Steinberg, Highland Park, N.J.

B.A. *cum laude* '52, Amherst College. Major: Zoology. Minor: Physiological Chemistry. Thesis: Studies on the Mechanism of Physiological Dominance in Tubularia.

Howard Thomas Stewart, Rochester

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

Hisako Tanaka, Tokyo, Japan

Graduate '41, Tsuda College. Field of Concentration: Curriculum and Instruction.

Loyola Brinckmann Thiltgen, Hugo

B.A. '43, College of St. Catherine. Major: Political Science. Minor: Economics. Thesis: Relations of the Governor to the Settlement of Labor Disputes in the State of Minnesota Prior to 1939.

Arthur Harding Thomas, Sauk Centre

B.A. '51, Carleton College; B.S. '53, University of Minnesota. Field of Concentration: Educational Psychology.

Viola Swanhilde B. Thompson, Glen Lake

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

Jacob Arnold Toews, Mountain Lake

B.A. with honor '52, Mankato State Teachers College. Major: Sociology. Minor: Agricultural Education. Thesis: Change in Church Participation of Migrants to the Suburb of Roseville.

Elsie Linda Turner, Minneapolis

B.F.A. with distinction '45, State University of Iowa. Major: Speech. Minor: Scandinavian. Thesis: An Introductory Study of the Training and Background of Fifty Prominent American Players Who Made Their Debuts Between 1875 and 1924.

Arthur G. Wahlers, Portland, Ore.

B.A. '44, Concordia Seminary. Field of Concentration: Educational Psychology.

Keith Warnell Warne, Lake Preston, S.D.

B.A. '43, Yankton College; M.A. '49, University of South Dakota. Field of Concentration: Library Science.

Richard Wayne Weech, St. Paul
B.S. '48, Mankato State Teachers College.
Field of Concentration: Educational Psychology.

Ruth Dorothy Weise, Park Ridge, Ill.
B.S. with distinction '46, University of Minnesota.
Field of Concentration: Educational Psychology.

Lester Ingvar Wickstrom, Virginia
B.A. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Clyde Roman Wisch, Duluth
B.A. '52, University of Minnesota. Field of Concentration: Economics.

Ellen Kahn Yager, St. Paul
B.A. '51, University of Minnesota. Field of Concentration: History.

Richard Donald Young, Watertown, S.D.

B.A. *summa cum laude* '51, University of Minnesota. Field of Concentration: Economics.

Master of Arts in Public Administration

Dean Arthur Lund, Minneapolis
B.B.A. '50, University of Minnesota. Major: Public Administration. Thesis: Boards of United States Civil Service Examiners.

Earl Peter Wagner, South Bend, Ind.
B.A. '46, University of Minnesota. Major: Public Administration. Thesis: An Administrative Code for Small Cities with Special Reference to Wayzata, Minnesota.

Master of Business Administration

Donald Edward Price, Minneapolis
B.S.L. '50, University of Minnesota. Field of Concentration: Economics.

David William Thayer, St. Paul
B.B.A. with distinction '52, University of Minnesota. Field of Concentration: Business Administration.

Master of Forestry

Roger Rudolph Bay, La Crosse, Wis.
B.S. '53, University of Idaho. Field of Concentration: Forestry.

Master of Science

John Warren Barnes, St. Paul
B.S. '49, Ohio University. Major: Entomology. Minor: Plant Pathology. Thesis: The Morphology of the Skeleton of *Brachycystis crassa* Bradley (Hymenoptera, Tiphidae).

Roy Torgny Berg, Millicent, Alberta, Canada
B.Sc.A. '50, University of Alberta. Field of Concentration: Animal Husbandry.

Colin Campbell, Rutland, England
B.A. '53, Cambridge University. Field of Concentration: Dairy Husbandry.

Robert Noé Campbell, St. Paul
B.S. with high distinction '52, University of Minnesota. Major: Plant Pathology. Minor: Forestry. Thesis: Studies on the Biology and Epidemiology of *Endoconidiophora fagacearum* Bretz, the Cause of Oak Wilt.

Alfonso Jorge Pedro Castronovo, Buenos Aires, Argentina
Ing. Agr. '43, University of LaPlata. Major: Plant Pathology. Minor: Horticulture. Thesis: Significance of Variation in *Phytophthora infestans*.

Nai Lin Chin, Tientsin, China
B.S. '52, Michigan State College. Field of Concentration: Soils.

Richard Lane Crowell, St. Paul
B.A. *cum laude* '52, University of Buffalo. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: The Cytopathogenicity of the Coxsackie Viruses in Tissue Culture.

- Lester John DePew, East Orange, N.J.
B.S. with distinction '49, Colorado State College of Agriculture and Mechanic Arts. Major: Entomology. Minor: Plant Pathology. Thesis: Laboratory Studies on the Toxicity of Three Organic Insecticides Against White Grubs of the Genus *Phyllophaga*.
- David Lee Goblirsch, Minneapolis
B.A. '52, University of Minnesota. Field of Concentration: Agricultural Economics.
- Lorraine Marie Gonyea, Minneapolis
B.S. with distinction '44, University of Minnesota. Major: Anatomy. Minor: Pathology. Thesis: A Study of the Stainable Iron in Erythrocytes in the Blood and Bone Marrow.
- Gerhard William Harpestad, Westby, Wis.
B.S. '52, University of Minnesota. Field of Concentration: Dairy Husbandry.
- Ahmed Abd-El-Ghany Hassan, Shebin El Kom, Egypt
B.Sc. '46, Ibrahim University (Egypt). Field of Concentration: Dairy Husbandry.
- Noel Clayton Hatle, Hartland
B.S. '39, University of Minnesota. Field of Concentration: Agricultural Education.
- Eugene Benton Hayden, Jr., Pawtucket, R.I.
B.S. '50, Rhode Island State College. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Races and Viotypes of *Puccinia graminis tritici* Eriks. and Henn. in Relation to Spring Wheat Improvement.
- Norman Victor Leonard Helbacka, Embarrass
B.S. '52, University of Minnesota. Field of Concentration: Poultry Husbandry.
- Robert Mathew Hill, Caledonia
B.S. *cum laude* '44, St. Mary's College. Major: Agricultural Biochemistry. Minor: Analytical Chemistry. Thesis: An Investigation of the Titration Curves of Native and Heat Denatured β -Lactoglobulin in Relation to an Observed Change in Mobility Which Accompanies Such Denaturation.
- John Harold Hoffman, Winona
B.S. *summa cum laude* '51, St. Mary's College. Major: Physics. Minor: Mathematics. Thesis: Triple Filament Surface Ionization Source.
- Robert A. Kaasa, Keewatin
B.Mech.E. '44, University of Minnesota. Major: Geophysics. Minor: Electrical Engineering. Thesis: A Geophysical Method for Measuring Glacial Drift Thickness.
- Harry Robertson Livingston, Dunlop, Scotland
B.Sc. '52, University of Glasgow. Field of Concentration: Animal Husbandry.
- Lora Yaeko Mabe, Wailuku, T.H.
B.S. with high distinction '52, Indiana University. Field of Concentration: Curriculum and Instruction.
- Eldon Harold Madison, Adrian
B.S. '47, University of Minnesota. Field of Concentration: Agricultural Education.
- Luis M. Mendez-Santana, San German, Puerto Rico
B.S.A. '50, University of Puerto Rico. Field of Concentration: Animal Husbandry.
- Kyaw Myint, Rangoon, Burma
B.A. '51, University of Rangoon. Field of Concentration: Agricultural Economics.
- Joyce L. Stiller Niskanen, Minneapolis
B.S. '43, University of Minnesota. Field of Concentration: Library Science.
- Muriel Marjorie Orcutt, Clear Lake, Iowa
B.S. '44, Mankato State Teachers College; B.S. in L.S. '47, University of Minnesota. Field of Concentration: Library Science.
- Thomas Howard Peterson, St. Paul
B.S. '53, University of Minnesota. Field of Concentration: Agricultural Economics.
- Richard LeRoy Pierce, Mundelein, Ill.
B.S. '49, Michigan College of Mining and Technology. Major: Botany. Minor: Geology. Thesis: Vegetation Cover Types and Land Use History of the Cedar Creek Natural History Reservation, Anoka and Isanti Counties, Minnesota.
- William Jordan Rice, Crawford, Miss.
B.S. '44, Alcorn A. & M. College. Field of Concentration: Agricultural Education.
- John Douglas Ross, Vancouver, British Columbia, Canada
B.A. (Hon.) '47, University of British Columbia. Major: Bacteriology. Minor: Cancer Biology. Thesis: A Method for the Quantitative Assay of Complement Fixation.

Joanne Marie Schlenk, Cloquet
B.A. '48, Carleton College. Field of Concentration: Botany.

Arnold K. Solstad, Plum City, Wis.
B.S. '41, River Falls State Teachers College. Field of Concentration: Agricultural Education.

Gayatri Prasad Tewari, Chainpur, India
B.Sc. '51, Agra University. Field of Concentration: Soils.

Carroll Myron Thureen, International Falls

B.S. '49, University of Minnesota. Major: Forestry. Minor: Organic Chemistry. Thesis: The Leaching of Pentachlorophenol from Wood.

Shirley Rene Trantanella, St. Paul
B.S. '46, University of Minnesota. Field of Concentration: Home Economics Education.

Master of Science in Aeronautical Engineering

Robert Reed St. John, Mankato
B.Aero.E. with distinction '52, B.S. with distinction '52, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Charles James Scott, Minneapolis
B.S. with distinction '51, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Master of Science in Agricultural Engineering

James Richard Beebe, Trempealeau, Wis.

B.Ag.E. with high distinction '52, B.S. with high distinction '52, University of Minnesota. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Design and Construction of a Device for Filling Deep Potato Storage Bins.

Master of Science in Chemical Engineering

Thomas Mead Johnson, Fulda
B.A. '52, Carleton College. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: A Study of the Flow Characteristics of Paper Pulp Suspensions Using a Modified Concentric-Cylinder Viscometer II.

Master of Science in Civil Engineering

John Joseph Hannigan, New Haven, Conn.
B.S. '52, University of Connecticut. Field of Concentration: Civil Engineering.

Daniel Bigelow Maynard, New Ipswich, N.H.
B.S. in C.E. '52, University of New Hampshire. Field of Concentration: Civil Engineering.

Donald Harold Olson, Two Harbors
B.S. with distinction '52, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Structural Investigation of Sandwich-Type Construction Using Vermiculite and Conventional Concrete.

Roy Lawrence Ostergren, Litchfield Park, Ariz.
B.S. '52, B.C.E. '53, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Stress Distribution Around Fillet-Welded Tension Joints.

Roman Peter Wengler, Albany
B.B.A. with distinction '52, B.C.E. with high distinction '52, University of Minnesota. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: The Effect of Holes in Beam Webs on the Distribution of Bending and Shearing Stresses in the Beam.

Master of Science in Dental Surgery

Lowell D. Pincock, Rexburg, Idaho
D.D.S. '48, Georgetown University. Major:
Dental Surgery. Minor: Pathology. Thesis: A
Study of the Nature of Proliferative Changes
in the Epithelium of the Linings and Walls
of Dentigerous Cysts.

Master of Science in Dentistry

Philip T. Fleuchaus, Tuckahoe, N.Y.
B.A. '48, Columbia University; D.D.S. '51,
University of Pennsylvania. Major: Dentistry.
Minor: Pathology. Thesis: The Effect of
Hyaluronidase on the Swelling and Trismus
Resulting from Odontectomy of Mandibular
Impacted Third Molars.

John Howard McNutt, Minneapolis
D.D.S. '46, University of Minnesota. Major:
Dentistry. Minor: Anatomy. Thesis: Reproduc-
ibility of Radiographic Recordings of Rest Posi-
tion of the Mandible in Young Adults.

Eugene Edward Petersen, St. Paul
D.D.S. '44, University of Minnesota. Major:
Dentistry. Minor: Biophysics. Thesis: Effects
of Diaphragms on the Intensity of Radiation
in Air.

Master of Science in Dermatology and Syphilology

Cletis Stewart Dorsey, Rochester
B.S. '41, M.D. '44, Northwestern University.
Major: Dermatology and Syphilology. Minor:
Histopathology. Thesis: The Blue Nevus (Jada-
sohn-Tieche) and Related Conditions: A
Clinico-Pathological Study.

Master of Science in Industrial Engineering

George Edward Rebolz, St. Paul
B.M.E. with distinction '53, B.I.E. with dis-
tinction '53, B.B.A. with distinction '53, Uni-
versity of Minnesota. Field of Concentration:
Industrial Engineering.

Master of Science in Mechanical Engineering

Lorne William Nelson, Two Harbors
B.S. '52, University of Minnesota. Field of
Concentration: Mechanical Engineering.

Lester David Savage, Jr., Minneapolis
B.S. '52, University of Minnesota. Major: Me-
chanical Engineering. Minor: Mathematics.
Thesis: Consideration of Flow in a Simulated
Pneumatically Operated Poppet Valve.

Master of Science in Medicine

Robert O. Brandenburg, Rochester
B.S. '40, North Dakota State College; M.D.
'43, University of Pennsylvania. Major: Medi-
cine. Minor: Pathologic Anatomy. Thesis:
Liver Biopsy: A Necropsy Study.

Clyde Owens Brindley, Temple, Tex.
B.A. '38, University of Texas; M.D. '43, Duke
University. Major: Medicine. Minor: Biochem-
istry. Thesis: Peptidases in Formed Elements
of the Blood.

Clayton Harold Klakeg, Rochester
B.S. '43, University of North Dakota; M.D. '45,
Temple University. Major: Medicine. Minor:
Physiology. Thesis: A Study of the Effect of
Exercise on the Electrocardiogram—with Par-
ticular Regard to the Effect of the Ingestion
of a Heavy Meal.

Master of Science in Orthopedic Surgery

Charles Roger Sullivan, St. Petersburg,
Fla.
B.A. '43, Ohio Wesleyan University; M.D. '46,
University of Rochester. Major: Orthopedic
Surgery. Minor: Surgical Pathology. Thesis:
Fibrosarcoma of the Soft Tissues of the Ex-
tremities.

Master of Science in Pediatrics

Joseph Deafner Craig, Washington
Court House, Ohio
B.A. '43, Denison University; M.D. '47, Ohio
State University. Major: Pediatrics. Minor:
Pathology. Thesis: Communications Between
the Left Atrium and Coronary Sinus.

Master of Science in Physiology

James P. Lillehei, St. Paul
B.S. '46, M.D. '48, University of Minnesota.
Major: Physiology. Minor: Medicine. Thesis:
A Study of the Effect of Heart Disease and
of Body Position on the Venous Pressure
Gradient in Humans.

Master of Science in Plastic Surgery

Henry E. McWhorter, Chicago, Ill.
B.S. '42, M.D. '44, University of Chicago.
Major: Plastic Surgery. Minor: Surgical Pathol-
ogy. Thesis: Pigmented Nevi, Juvenile Mel-
anomas and Malignant Melanomas in Children.

Master of Science in Radiology

Hillier Locke Baker, Jr., Rochester
B.S. '43, M.D. '47, University of Chicago.
Major: Radiology. Minor: Surgical Pathology.
Thesis: The Radiologic Aspects of Smooth
Muscle Tumors of the Alimentary Tract.

Leo Blank, Hartford, Conn.
Ph.G. '39, Columbia University; M.D. '49,
Medical College of Virginia. Major: Radiology.
Minor: Pathology. Thesis: Cardio-Esophageal
Relaxation (Chalasia) Studies on the Normal
Infant.

Master of Science in Surgery

John Richard Pettet, Laguna Beach,
Calif.
M.D. '48, University of Southern California.
Major: Surgery. Minor: Surgical Pathology.
Thesis: Chemodectomas: A Clinicopathological
Study of Chemodectomas with Especial Refer-
ence to Those Arising in the Carotid Body.

Curtis Cleaver Ruff, Butler, Pa.
B.S. '37, Grove City College; M.D. '41, Uni-
versity of Pennsylvania. Major: Surgery. Minor:
Surgical Pathology. Thesis: Preoperative Ra-
dium Therapy in Treatment of Adenocarci-
noma of Rectum and Rectosigmoid Colon: A
Clinicopathologic Study of Ninety-Six Cases.

Master of Social Work

Jerome Bruce Andersen, Minneapolis
B.A. '49, Augsburg College. Field of Concen-
tration: Social Work.

Veryl Ann Cashman, St. Paul
B.A. *summa cum laude* '52, Hamline Univer-
sity. Field of Concentration: Social Work.

Sallie Rosalie Churchill, Minneapolis
B.A. '49, University of Minnesota. Field of
Concentration: Social Work.

Ernestine Elaine Dullum, Minne-
apolis
B.A. *cum laude* '52, University of Minnesota.
Field of Concentration: Social Work.

Eleanor Felker, Bronx, N.Y.
B.S. '43, College of the City of New York.
Field of Concentration: Social Work.

Paul Henry Gruber, Rochester
B.A. '47, Gustavus Adolphus College. Field of
Concentration: Social Work.

Benjamin Harold Handleman, Min-
neapolis
B.A. *cum laude* '52, University of Minnesota.
Field of Concentration: Social Work.

Robert Carleton Indehar, St. Paul
B.A. '52, Macalester College. Field of Concen-
tration: Social Work.

Miriam Lorraine Majander, Duluth
B.S. '49, University of Minnesota. Field of
Concentration: Social Work.

Evelyn Ida Middelstadt, Elk River
B.A. '52, Valparaiso University. Field of Con-
centration: Social Work.

Raymond LeRoy Mondloh, Braham
B.A. '49, University of California at Los An-
geles. Field of Concentration: Social Work.

Judith Patricia Moore, St. Paul
B.A. '50, Hamline University. Field of Con-
centration: Social Work.

Jean Marjoric Ohman, St. Paul
B.S. '43, Northern Michigan College of Educa-
tion. Field of Concentration: Social Work.

James Finn O'Keefe, Minneapolis
B.A. '52, University of Minnesota. Field of
Concentration: Social Work.

Frederick William Plebuch, St. Paul
B.A. *cum laude* '52, Macalester College. Field
of Concentration: Social Work.

Ben Baer Reuben, St. Paul
B.S. '46, B.A. '48, University of Minnesota.
Field of Concentration: Social Work.

Sophie Panoutsopoulou Reuben,
Athens, Greece
B.A. '52, Macalester College. Field of Concen-
tration: Social Work.

Maureen Ellen Ryan, St. Paul
B.A. '52, College of St. Catherine. Field of
Concentration: Social Work.

Doris Eleanor Walsh, Minneapolis
B.S. '52, University of Minnesota. Field of
Concentration: Social Work.

Doctor of Philosophy

Ira Edward Aaron, Athens, Ga.

A.B.J. '41, M.Ed. '47, University of Georgia. Major: Educational Psychology. Minor: Education. Thesis: The Relationship of Auditory-Visual Discrimination to Spelling Ability. Major Advisers: Profs. W. W. Cook and G. L. Bond.

Charles Donald Alstad, Cokato

B.Ch.E. '46, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics and Mechanics. Thesis: The Transient Behavior of Single-Phase, Natural-Circulation Loop Systems. Major Adviser: Prof. N. R. Amundson.

William Carlisle Anderson, Minneapolis

B.S. '36, Nebraska State Teachers College; M.A. '42, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: Student Teaching in Industrial Arts Education. Major Adviser: Prof. H. J. Smith.

Richmond Grenfell Banks, Red Wing

B.Ed. '42, Superior State Teachers College; M.A. '49, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparative Study of Certain Aspects of the Social Adjustment of Farm and Non-Farm Pupils in Selected Minnesota High Schools. Major Adviser: Prof. C. W. Boardman.

Robert Elroy Bothun, Crosby, N.D.

B.S. '48, M.S. '53, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Study of the Inheritance of Certain Characters in a Cross of Two Flax Varieties, as Expressed in Populations Sprayed with 2,4-D. Major Adviser: Prof. J. O. Culbertson.

Allan Barrie Campbell, Winnipeg, Manitoba, Canada

B.S.A. '44, M.Sc. '48, University of Manitoba. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Monosomic Analysis of Redman Wheat for Stem Rust Resistance. Major Adviser: Prof. C. R. Burnham.

Hector Neri Castañeda, Zacapa, Guatemala

B.A. '50, M.A. '52, University of Minnesota. Major: Philosophy. Minor: Mathematics. Thesis: The Logical Structure of Moral Reasoning. Major Adviser: Prof. W. S. Sellars.

Blaine McLyman Cooke, Park Forest, Ill.

B.A. '38, Hamline University. Major: Economics. Minor: Statistics. Thesis: Economic Education in Industry. Major Adviser: Prof. R. K. Gaumnitz.

David Kenneth Cunningham, Winnipeg, Manitoba, Canada

B.A. '41, University of British Columbia. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Comparative Studies of the Chemical and Physical Properties of Some Cereal Proteins. Major Adviser: Prof. W. F. Geddes.

Norris G. Davis, Austin, Tex.

B.J. with highest honors '37, M.J. '38, University of Texas. Major: Political Science. Minor: Journalism. Thesis: Freedom of the Press in Texas—A Comparative Study of State Legal Controls on Mass News Media. Major Advisers: Profs. William Anderson and R. D. Casey.

Albert Stanley Dreyer, Brooklyn, N.Y.

B.A. cum laude '49, Brooklyn College; M.A. '51, University of Minnesota. Major: Child Welfare. Minor: Psychology. Thesis: Behavior in a Level of Aspiration Situation as Affected by Group Comparison. Major Advisers: Profs. D. B. Harris and Leon Festinger.

Marvin D. Dunnette, Austin

B.Ch.E. with distinction '48, M.A. '51, University of Minnesota. Major: Psychology. Minors: Educational Psychology and Biostatistics. Thesis: A Special Analogies Test for the Evaluation of Graduate Engineers. Major Adviser: Prof. D. G. Paterson.

Walter Arnold Ehrlich, Winnipeg, Manitoba, Canada

B.S.A. '39, M.Sc. '46, University of Manitoba. Major: Soils. Minor: Geology. Thesis: Pedological Processes of Some Manitoba Soils. Major Adviser: Prof. P. R. McMiller.

Donald Raymond Farmer, Minneapolis

B.S. '44, University of Minnesota. Major: Political Science. Minor: Area Studies (Russia). Thesis: The Theory and Practice of Soviet Nationality Policy. Major Adviser: Prof. Herbert McClosky.

- Robert Outhwaite Gibbon, Bloomington, Ill.
B.A. '44, M.A. '45, University of Kansas. Major: Political Science. Minor: Sociology. Thesis: The Relationship of the State to the Economic System in Greek Political Theory: A Study in Greek Political Thought. Major Adviser: Prof. B. E. Lippincott.
- Leonard C. Haas, Eau Claire, Wis.
B.Ed. '35, Eau Claire State Teachers College; Ph.M. '38, University of Wisconsin. Major: Education. Minor: History. Thesis: The Academic Dean in American Teachers Colleges. Major Adviser: Prof. R. E. Eckert.
- Vivian Humphrey Hewer, Minneapolis
B.S. with distinction '29, M.S. in Psychometrics '41, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Vocational Interest-Achievement-Ability Interrelationships at the College Level. Major Adviser: Prof. D. G. Paterson.
- Harry Dahl Holmgren, Anoka
B.Phys. with high distinction '49, M.A. '50, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Experimental Determination of the Differential Cross Sections for the $C^{12}(d,p)C^{13}$ Reaction for 3.29 Mev. Incident Deuterons and the $C^{13}(d,t)C^{12}$ Reaction for 2.19 Mev. and 3.29 Mev. Incident Deuterons as a Function of the Angle of the Emitted Particles. Major Advisers: Profs. J. H. Williams and J. M. Blair.
- Murray Clemens Johnson, St. Paul
B.S. '43, M.A. '50, University of Minnesota. Major: Educational Psychology. Minor: Statistics. Thesis: Classification by Multivariate Analysis with Objectives of Minimizing Risk, Minimizing Maximum Risk, and Minimizing Probability of Misclassification. Major Adviser: Prof. P. O. Johnson.
- Frederick William Kohlmeyer, Chatfield
B.S. '43, Winona State Teachers College; M.A. '49, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Movement Toward International Cooperation in Food and Agriculture: Background of the FAO of the UN. Major Adviser: Prof. Herbert Heaton.
- James Vernon Lill, St. Paul
B.A. with honors '47, M.A. '48, University of Oregon. Major: English. Minor: Philosophy. Thesis: Dryden's Adaptation from Milton, Shakespeare, and Chaucer. Major Adviser: Prof. S. H. Monk.
- Robert Frank Lockman, Tonawanda, N.Y.
B.A. magna cum laude '50, Syracuse University; M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Evaluation of Naval Aviation Cadet Selection Measures Using Multivariate Discriminatory Statistical Techniques. Major Advisers: Profs. D. G. Paterson and J. J. Jenkins.
- Anna Agnes Martorana, Farnham, N.Y.
B.S. '42, Buffalo State Teachers College; M.A. '45, Columbia University. Major: Child Welfare. Minor: Psychology. Thesis: A Comparison of the Personal, Emotional, and Family Adjustment of Crippled and Normal Children. Major Adviser: Prof. J. E. Anderson.
- Boyd L. Mathers, Ellensburg, Wash.
B.S. '49, Florida State University; M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Learning Theory and Induced Anxiety in the Rat. Major Adviser: Prof. W. T. Heron.
- Robert Lindy McCormack, Moline, Ill.
B.A. '49, State University of Iowa; M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Sex Differences in the Vocational Interests of a Professional Group. Major Adviser: Prof. D. G. Paterson.
- William Willis Mills, Minneapolis
B.A. '39, St. Louis University. Major: Educational Psychology. Minor: Education. Thesis: MMPI Profile Pattern and Scale Stability Throughout Four Years of College Attendance. Major Adviser: Prof. W. W. Cook.
- George Montgomery, Manhattan, Kan.
B.S. '25, M.S. '27, Kansas State Agricultural College. Major: Agricultural Economics. Minor: Economics. Thesis: Wartime Control of Grain Prices in the United States. Major Adviser: Prof. O. B. Jesness.
- William Robert Moore, Pacific Palisades, Calif.
B.S. '50, University of California at Los Angeles. Major: Organic Chemistry. Minors: Physical, Analytical, and Inorganic Chemistry. Thesis: The Synthesis and Rates of Hydrolysis of Some Di-Benzocycloalkenylchloromethanes. Major Adviser: Prof. R. T. Arnold.

James Joseph Mullen, Lincoln, Neb.
B.B.A. '47, M.A. '49, University of Minnesota.
Major: Business Administration. Minors: Psychology and Journalism. Thesis: Some Relationships Between the Volume of Sales of Green Giant Brand Peas and Advertising in Seventy-Four Market Areas. Major Adviser: Prof. R. S. Vaile.

Helene Nahas, Toulouse, France
Graduate '45, University of Toulouse. Major: French. Minor: English. Thesis: Etude de la Femme dans la Litterature Existentielle Francaise: Jean-Paul Sartre et Simone de Beauvoir. Major Adviser: Prof. F. B. Barton.

Carl Bertil Nelson, Minneapolis
B.M.E. '39, Augustana College (Rock Island, Illinois); M.Ed. '47, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: An Experimental Evaluation of Two Methods of Teaching Music in the Fourth and Fifth Grades. Major Advisers: Profs. W. W. Cook and C. J. Hoyt.

Roy Conrad Nelson, Fort Collins, Colo.

B.E. '31, Superior State Teachers College; M.A. '37, University of Minnesota. Major: Speech. Minor: Education. Thesis: An Experimental Study of Four Methods of Teaching Beginning Speech in College. Major Adviser: Prof. Howard Gilkinson.

Norma O. Thor Ottoson, Minneapolis
B.S. '39, M.S. '48, University of Minnesota. Major: Home Economics. Minor: Agricultural Biochemistry. Thesis: The Effect on Sulfur Metabolism in Women of Varying the Sulfur Intake by Providing Different Levels of Protein Intake and by Giving a Methionine Supplement at Each Level of Protein Intake. Major Adviser: Prof. J. M. Leichsenring.

Jacqueline Lydie Penez, Woonsocket, R.I.

B.A. '45, Regis College; M.S. '47, Brown University. Major: Mathematics. Minor: Mechanics. Thesis: Approximation by Boundary Values of Analytic Functions. Major Adviser: Prof. P. C. Rosenbloom.

Clara Penniman, Madison, Wis.

B.A. '50, M.A. '51, University of Wisconsin. Major: Political Science. Minor: Economics. Thesis: Recent Developments in the Administration of the State Income Tax. Major Adviser: Prof. L. M. Short.

Glen Ervin Peterson, South St. Paul

B.A. '49, Luther College; M.S. '52, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Role of Antibiotics in the Nutrition of the Rat and Certain Bacteria. Major Advisers: Profs. K. R. Johansson and D. W. Watson.

Martha Pitel, Binghamton, N.Y.

B.S. '46, M.S. '47, Western Reserve University. Major: Anatomy. Minor: Pathology. Thesis: Variations in the Bronchovascular Patterns of the Left Lower Lobe of Fifty Lungs. Major Adviser: Prof. E. A. Boyden.

Anthony Truman Pouncey, Minneapolis

B.A. with highest honors '33, B.J. with high honors '35, M.A. '42, University of Texas. Major: Educational Psychology. Minor: Journalism. Thesis: Psychological Correlates of Journalism Training Completion. Major Advisers: Profs. C. G. Wrenn and R. L. Jones.

Roy Clifford Prentis, LeRoy

B.E. '37, Winona State Teachers College; M.A. '46, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: The Relationship Between School District Organization and Public Schoolhousing Needs in Minnesota. Major Adviser: Prof. M. G. Neale.

Gerald Cowles Preston, Minneapolis

B.A. magna cum laude '50, M.A. '51, University of Minnesota. Major: Mathematics. Minor: Mechanics. Thesis: On Locally Compact Totally Disconnected Abelian Groups and Their Character Groups. Major Adviser: Prof. G. K. Kalisch.

Harry Edward Roadman, Pittsburgh, Pa.

B.A. '49, Duquesne University; M.A. '53, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Relationship of Measured Interests to Career Data for Air Force Officers in the Comptroller Field. Major Adviser: Prof. K. E. Clark.

Arthur William Rudnick, Jr., St. Paul

B.S. '39, M.S. '40, Iowa State College. Major: Dairy Husbandry. Minor: Agricultural Economics. Thesis: Effect of Heat During Processing of Nonfat Dry Milk Solids Used for Cottage Cheese Manufacture. Major Adviser: Prof. S. T. Coulter.

Henriette Etta Saloshin, Minneapolis

Graduate '29, Hellerau-Laxenburg (Austria); M.S.W. '49, Wayne University. Major: Social Work. Minor: Sociology. Thesis: Development of an Instrument for the Analysis of the Social Group Work Method in Therapeutic Settings. Major Adviser: Prof. J. C. Kidneigh.

Walter C. Schuiling, San Bernardino, Calif.

B.E. '39, Bemidji State Teachers College; M.A. '47, University of Minnesota. Major: History. Minor: Political Science. Thesis: An Economic Survey of Soviet Central Asia 1920-1950. Major Adviser: Prof. G. W. Anderson.

Jesse Marshall Shapiro, Minneapolis
 B.A. '50, M.A. '51, University of Minnesota.
 Major: Mathematics. Minor: Statistics. Thesis:
 An Error Estimate for the Convergence of
 Distributions of Sums of Independent Random
 Variables to Infinitely Divisible Distributions.
 Major Adviser: Prof. M. D. Donsker.

Chi-Neng Shen, Hong Kong, China
 B.C.E. '39, National Tsing Hua University;
 M.S. '50, University of Minnesota. Major: Me-
 chanical Engineering. Minor: Mathematics.
 Thesis: Effect of Non-Linear Process Elements
 on the Stability of Closed Loop Control Sys-
 tems. Major Adviser: Prof. E. N. Kemler.

Newman Siegler, New York, N.Y.
 B.M.E. '42, College of the City of New York;
 M.S. in M.E. '48, University of Minnesota.
 Major: Mechanical Engineering. Minor: Sta-
 tistics. Thesis: A Study of Some Factors Affect-
 ing Element Time in Manual Work. Major
 Adviser: Prof. J. M. MacKenzie.

John William Snyder, Minneapolis
 B.A. *magna cum laude* '50, M.A. '52, Univer-
 sity of Minnesota. Major: History. Minor:
 Greek. Thesis: A Catalogue of the Cuneiform
 Tablets in the Davenport Public Museum.
 Major Adviser: Prof. T. B. Jones.

Bernard Freeland Stanton, Greenville,
 N.Y.
 B.S. '49, Cornell University; M.S. '50, Uni-
 versity of Minnesota. Major: Agricultural Eco-
 nomics. Minor: Economics. Thesis: Using
 Farm Records in Decision Making in Live-
 stock Production. Major Adviser: Prof. C. A.
 Pond.

Harold Ralph Stucky, Bozeman,
 Mont.
 B.S. '27, University of Idaho; M.S. '42, Uni-
 versity of Minnesota. Major: Agricultural Eco-
 nomics. Minor: Economics. Thesis: Settle-
 ment and Repayment Policies on Irrigation
 Projects. Major Adviser: Prof. O. B. Jesness.

Gordon Ira Swanson, St. Paul
 B.S. with distinction '42, M.S. '49, University
 of Minnesota. Major: Education. Minor: Edu-
 cational Psychology. Thesis: Qualitative and
 Quantitative Variables Affecting Successful Ex-
 perience in the Agricultural Education Curricu-
 lum. Major Adviser: Prof. M. J. Peterson.

Alan Thomas, Havertown, Pa.
 B.S. '49, Pennsylvania State College; M.S. '50,
 University of Minnesota. Major: Dairy Hus-
 bandry. Minor: Agricultural Biochemistry. The-
 sis: A Study of the Mechanism of Sulfhydryl
 Action in Milk. Major Advisers: Profs. S. T.
 Coulter and Robert Jenness.

Charles Walkof, Morden, Manitoba,
 Canada
 B.S.A. '33, University of Manitoba; M.Sc. '42,
 University of Alberta. Major: Horticulture.
 Minor: Plant Genetics. Thesis: Double Back-
 crossing as a Possible Method of Developing
 an Early, Large-Fruited Tomato. Major Ad-
 viser: Prof. T. M. Currence.

Patrick Cecil Telfer White, Toronto,
 Ontario, Canada
 B.A. '46, University of British Columbia; B.A.
 '48, Cambridge University. Major: History.
 Minor: Political Science. Thesis: Anglo-Ameri-
 can Relations from 1803 to 1815. Major Ad-
 viser: Prof. A. L. Burt.

Doctor of Philosophy in Surgery

Gilbert S. Campbell, Jr., Minneapolis
 B.A. '43, M.D. '46, University of Virginia;
 M.S. '49, University of Minnesota. Major: Sur-
 gery. Minor: Physiology. Thesis: Effect of pH
 Changes on Vagal Inhibition of the Heart.
 Major Adviser: Dr. O. H. Wangensteen.

Claude Raymond Hitchcock, Minne-
 apolis
 B.A. '40, B.S. '43, M.D. '45, University of
 Minnesota. Major: Surgery. Minor: Cancer
 Biology. Thesis: Attempts to Abet the Action
 of Methylcholanthrene in the Induction of
 Gastric Cancers in Mice, Using Dietary Chemi-
 cal Additives and Dietary Deficiencies. Major
 Adviser: Dr. O. H. Wangensteen.

SUMMARY OF DEGREES CONFERRED BY THE UNIVERSITY DURING THE ACADEMIC YEAR 1953-1954

Conferred July, August and December, 1953; March, 1954.....	1,941*
Conferred this June commencement, 1954 (subject to completion of requirements)	2,583**
Total degrees conferred 1953-1954.....	4,524

* Includes 65 conferred at Duluth.

** Includes 168 conferred at Duluth.

THE
UNIVERSITY OF MINNESOTA

Announces Its

July Commencement

1954



NORTHROP MEMORIAL AUDITORIUM
THURSDAY EVENING, JULY 15
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota has this year celebrated its one hundred and third 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 121,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to nearly 19,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, and recreation and health consultants give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people, in the area it serves, artists and lecturers of quality and talent.

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University of Minnesota from 7:00 to 8:00 p.m., they will hear the Frances Miller Brown Memorial bells being played from Northrop Memorial Auditorium, Mr. Edward Berryman, Instructor in Music, 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. Paul O. Manz, M.M., Organist-Choirmaster of Mount Olive Lutheran Church, will play:

Rigaudon	Campra
Jesu, Joy of Man's Desiring	Bach
Musette and Minuet	Handel
Andante Cantabile (Sym. IV)	Widor
Rondo	Boellmann
Greensleeves	Vaughn-Williams
Rondo in G	Bull

PROCESSIONAL:

Fanfare	Edmundson
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PROCESSIONAL: 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: Dr. Edwin S. Cieslak, Associate Professor of the General College, Marshal; Dr. Raymond Price, Professor of Education, Marshal; Dr. John G. Darley, Associate Dean of the Graduate School; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. Austin A. Dowell, Assistant Dean, College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Dr. Mulford Q. Sibley, Professor of Political Science and secretary of the faculty of the College of Science, Literature, and the Arts; Dr. Robert E. Summers, Dean of Admissions and Records; Major Edward W. Smith, Jr., USA, Assistant Professor of Military Science and Tactics; Dr. Ellsworth Gerritz, Admissions Officer, Admissions and Records; Dr. E. W. Zicbarth, Dean of the Summer Session; Dr. Theodore C. Blegen, Dean of the Graduate School; Mr. Carl W. Jones, President, Minnesota Historical Society; The Reverend Joseph G. Vasilou, Director, Eastern Orthodox Fellowship at the University; Colonel Kermit D. Stevens, USAF, Professor of Air Science and Tactics; Dr. Alfred L. Vaughan, Assistant Dean of the General College; Dr. William G. Sheppard, Professor of Electrical Engineering, Institute of Technology; Dr. Walter W. Cook, Dean of the College of Education; Dr. W. H. Crawford, Dean of the School of Dentistry; Dr. William F. Maloney, Acting Assistant Dean of the College of Medical Sciences; Mr. Blake Stern, Assistant Professor of Music; Dr. Joseph C. Olson, Associate Professor of Dairy Husbandry, Marshal.

Order of Events

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

THE NATIONAL ANTHEM (first stanza only): The entire audience and Mr. Blake Stern, Assistant Professor of Music, soloist.

INVOCATION: The Reverend Joseph G. Vasiliou, Director, Eastern Orthodox Fellowship at the University.

SPEAKING FOR THE UNIVERSITY: Dean Theodore C. Blegen, Ph.D., Dean of the Graduate School.

COMMENCEMENT ADDRESS: "The Old and the New Magician," Mr. Carl W. Jones, President, Minnesota Historical Society.

CONFERRING OF COMMISSIONS: Dean E. W. Ziebarth, Dean of the Summer Session, will introduce Major Edward W. Smith, Jr., USA, Assistant Professor of Military Science and Tactics, and Colonel Kermit D. Stevens, USAF, Professor of Air Science and Tactics, who will present the candidates for commissions in their respective branches of the Armed Services. The commissions will be presented by Dean Blegen; the oath of office will be administered by Colonel Stevens.

CONFERRING OF DEGREES: Dean E. W. Ziebarth, Summer Session, will introduce the several deans or their representatives, who will present the candidates for degrees in their respective colleges. These in order of their introduction, are: Assistant Dean Alfred W. Vaughan, Ph.D., General College; Professor Mulford Q. Sibley, Ph.D., College of Science, Literature, and the Arts, and University College; Professor William G. Sheppard, Ph.D., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Assistant Dean Richard Gaumnitz, Ph.D., School of Business Administration; Assistant Dean William F. Maloney, M.D., College of Medical Sciences; Dean W. H. Crawford, D.D.S., School of Dentistry; Assistant Dean John G. Darley, Ph.D., Graduate School. All degrees will be conferred by Dean Blegen.

PRESENTATION OF DIPLOMAS: With Dean Robert E. Summers, M.E., Dean of Admissions and Records, 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 Associate Dean John G. Darley to Dean Blegen, who will confer the degrees.

Order of Events

“HAIL! MINNESOTA,” the University’s alma mater song. The audience and Mr. Blake Stern, soloist.

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

RECESSIONAL: Mr. Paul O. Manz, organist.

Toccata - - - - - Bonset

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 first term of the Summer Session, commissions will be conferred as indicated on those listed below and upon such others as may meet the requirements for Reserve Officers in the Armed Services.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Armor Corps

Robert A. Urbon, Tower

Second Lieutenant, Coast Artillery Corps

Ronald L. Bruch, Minneapolis
Vernon E. Seiling, Alexandria

Ronald W. Underwood, Minneapolis

Second Lieutenant, Corps of Engineers

Harland R. Anderson, Minneapolis

Second Lieutenant, Military Intelligence Corps

Roger A. Carlson, Minneapolis

Raymond A. Petterson, Jr., Excelsior

Second Lieutenant, Ordnance Corps

Thomas C. Hines, Minneapolis

Second Lieutenant, Transportation Corps

James J. Dean, Minneapolis

John H. Stocking, Minneapolis

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

Ward J. Brennan, Hopkins
James N. Drake, Minneapolis
John R. Ivers, Minneapolis
George W. Lusher, Minneapolis
John W. Monahan, Minneapolis

George P. Rice, Bayport
Paul H. Richardson, St. Paul
Wayne B. Sperry, Richville
Stanley G. Stocking, Minneapolis

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

Gail Victoria Anderson, Minneapolis
Shirley Rae Anderson, Minneapolis
Hugh Larson Hall, St. Paul
Rita Audrey Kelly, Minneapolis

Jeanne Lenora Kendall, St. Louis Park
Philip Carl Settergren, Minneapolis
Russell Jerome Skaja, Deer River

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Dean Normand Lloyd, St. Louis Park

Bachelor of Arts

David Leon Anderson, Grantsburg,
Wis.

Mary Mack Barker, Minneapolis

Barbara Ann Bentrude, Austin

Quentin Phillip Blonigen, Robbins-
dale

Barbara Mary Brown, Fairmont

Lowell Augustus Brown, Minneapolis

Ronald Lawrence Bruch, Minneapolis

Michael Ellison Canfield, Minneapolis

Merrill David Carlson, Minneapolis

Charles Kermit Cervenka, New Prague

Miles Oliver Cooper, St. Paul

Tod Allen Dockstader, St. Paul

Charles Lee Fecht, A.L.A., Minne-
apolis

Roger Feinstein, Pelham, N.Y.

Max Wayne Frescoln, Winner, S.D.,
CUM LAUDE

Michael Joseph Garvey, St. Paul

Robert Martin Hammel, Marshall

Roger Rockwell Harmon, St. Paul

Paul Orren Highum, Lanesboro

Virginia Ellen Hinsch, Aberdeen, S.D.

Barbara Lois Jackson, St. Louis Park
Rochelle Joan Johnson, Lanesboro,

MAGNA CUM LAUDE

Mary Frances Knowles, Morris

John Erick Krebs, Duluth

Phyllis Harriet Kurtz, Wahpeton,
N.D., CUM LAUDE

Ellen Mary Luedtke, Fairmont

Helen Martens, Winnipeg, Manitoba,
Canada

Richard Harlow McMillen, Eau
Claire, Wis.

William Moisselle, Minneapolis

John Weber Monahan, Minneapolis

William Bernard Montague, Minne-
apolis

John Edgar Morris, Austin

Raymond Albin Petterson, Jr., Excel-
sior

George Paul Rice, Bayport

Joanne McCrory Rilling, Neenah,
Wis., SUMMA CUM LAUDE

Harold Edwin Roslin, A.L.A., Min-
neapolis

John Eric Sandberg, Detroit, Mich.
Kenneth Fred Schoen, St. Paul
Joanne L. Hanson Schwab, Northfield
Warren C. Sederberg, Minneapolis
Joanne Lee Shedlov, Minneapolis,
CUM LAUDE
Stanley George Stocking, Minneapolis
Richard William Strand, Minneapolis

Donald Gibbs Streeter, Wayzata
Ronald William Underwood, Minneapolis
Robert Alex Urbon, Tower
James Richard Voldal, Fort Peck,
Mont., CUM LAUDE
Russell Douglass Walsh, A.A., Long
Lake, MAGNA CUM LAUDE

Bachelor of Science in Library Science

Helen Marie Hanson, B. A., Gowrie,
Iowa
John Prazniak, B.A., Minneapolis

Mae Padli Raushel, B.A., Chisholm
Jean Marion Stevens, B.A., Minneapolis

UNIVERSITY COLLEGE

Bachelor of Science

Louis Lehmann, St. Paul

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Forrest Duane Dohlin, B.M.E., Minneapolis
Robert Butler Fletcher, St. Paul

Arnold Gerhard Fredrickson, Wana-
mingo, WITH HIGH DISTINCTION

Bachelor of Aeronautical Engineering

Robert Stacey Kensinger, St. Paul

Bachelor of Civil Engineering

Dean Boyce Kleinschmidt, Mankato

Bachelor of Geological Engineering

John Lewis Brandt, A.A., Eveleth

Bachelor of Geophysics

Ross Milford Olson, B.E.M., St. Paul

Bachelor of Mechanical Engineering

Vernon Richard Anderson, B.Ag.E.,
Minneapolis
Robert Alphonse Elm, St. Paul

Eli Dan Knezovich, Kinney
George William Lusher, Jr., St. Paul

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

Bachelor of Science

Vernon H. Beddome, Lakeland, Agri-
culture
Kenneth Earl Engelbretson, Minne-
apolis, Forestry
Mary Ann Feehan, Minneapolis,
Home Economics
Donavon Eugene Grenier, Red Lake
Falls, Agriculture

James Lowell McLaughlin, Mankato,
Fishery and Wildlife Management
Ruth Brevig Metaweh, Starbuck,
Home Economics
Thomas Wolff Mussehl, Fort Atkin-
son, Wisconsin, Fishery and Wild-
life Management
Roy Dean Nelson, Hayward, Wis.,
Fishery and Wildlife Management

COLLEGE OF EDUCATION

Bachelor of Science

Jack Lawrence Abrahamson, B.S., St.
Paul
Patricia May Beha, Minneapolis
Letha Karen Bergh, B.S., Eugene, Ore.
Mary Lou Borlaug, Minneapolis
Elizabeth Onstad Bridston, Grand
Forks, N.D.,* WITH DISTINCTION
George Robert Brown, Minneapolis
Vivian Ann Cates, Dassel
Betty Mary Ottmann Christenson,
Minneapolis
Gloria Nielsen Ellefson, Minneapolis
James Francis Fitzgerald, Minneapolis
Janice Arlene Fure, Kiester, WITH DIS-
TINCTION
George Ardin Gunderson, St. Paul
Neil Carroll Gustafson, Minneapolis
Emelie Elizabeth Hammarstrand,
Minneapolis
Dennis Herbert Hanson, St. James

Helen Elizabeth Holmes, B.B.A.,
Minneapolis
John Iver Huseby, B.A., Minneapolis
Carol Elvida Soholt Johnson, Minne-
apolis, WITH HIGH DISTINCTION
Coeleen Templeton V. Kiebert, Min-
neapolis
Stella Elizabeth Luchsinger, St. Paul
Robert Nathan MacLeod, Isle
Allan Robert Markert, St. Paul
Joanne Marie Melberg, Robbinsdale
Lila Marie Nentwick, Long Prairie,
WITH HIGH DISTINCTION
Lila Martha Niemi, Aurora, WITH
DISTINCTION
John Clifford Norton, B.A., Minne-
apolis
Neal Wayne Prichard, Minneapolis
Helen Margaret Richards, Joliet, Ill.,*
WITH DISTINCTION

* Nursing Education Curriculum

Marilyn Jean Robertson, Minneapolis
Lydia Schwandt Sand, Minneapolis
Edna Hedwig Helen Struck, Ortonville, WITH DISTINCTION
Zenith Ethel Svalgaard, Minneapolis, WITH DISTINCTION

Virginia M. Tyrrell, New Ulm
Alice Irvine Webber, Ames, Iowa
Gloria Lafrance Williams, B.A., St. Paul

Bachelor of Science in Library Science

James Harold Gregg, B.A., Minneapolis
Dorothy Nelson, B.S., St. Paul
Mabel Ward Sandin, B.S., Grand Rapids

Lorraine Clara Vetter, B.A., New Ulm
Rosalie Anna Zeien, B.A., North Branch

Master of Education

Robert N. Aupperle, B.A., Minneapolis
Elizabeth Reed Denman, B.S., Birmingham, Ala.
Lee Arlo Dosch, B.S., Amery, Wis.
Phyllis Ann Glaser, B.S., Faribault
Arlene Sophia Krieger, B.S., Waterliet, Mich.

Charles Anton Lunder, B.A., Northfield
August David Schauer, B.S., St. Paul
Harold Eugene Thill, B.S., Minneapolis
James Vincent Trotto, B.A., Virginia
Etta Walters, B.A., Lake City
Mary Arlene Williams, B.S., Albert Lea

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

Bachelor of Science

Frances Jaus Albright, Winthrop, Home Economics Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Harland Robert Anderson, Minneapolis
John Lewis Brandt, A.A., Eveleth
Ward Jeremiah Brennan, Hopkins
Edward Claude Cornelissens, St. Paul
Ronald Edward Erickson, Duluth
Arden Lee Freeman, A.A., Rochester
Harry Edward Jarvis, Minneapolis
Chester Paul Johnson, Duluth
Edward Dean McCarthy, Detroit Lakes

Donald Arthur Passer, Wells
Roger Kenneth Prescott, Minneapolis
Youry M. Pundyk, Minneapolis
Robert Milton Redmond, Minneapolis
Frank George Subak, Minneapolis
Richard Thorne Van Wyck, Minneapolis
John Morgan Williams, Minneapolis, WITH DISTINCTION

Bachelor of Science in Economics

Orville Imanuel Jorgenson, Minneapolis

Vernon Erwin Sieling, Alexandria

SCHOOL OF DENTISTRY

Doctor of Dental Surgery

Biminita Berzina, Riga, Latvia

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

- | | |
|---|---|
| Burton Ivan Abramson, B.A., Minneapolis, Medicine | John Arnold Gronvall, B.A., Hopkins, Medicine |
| Dean Ralph Ackley, Minneapolis, Medicine | Paul Richard Hartig, B.A., Minneapolis, Medicine |
| David Bender, B.A., Minneapolis, Medicine | Royal Clifford Hayden, Jr., B.A., Red Wing, Medicine |
| Richard Emanuel Burman, Malmo, Medicine | DeLarry Ruel Hovde, Rochester, Medicine |
| John Harrison Dahl, Duluth, Medicine | Alan Charles Hymes, Minneapolis, Medicine |
| Donald Earl Dougherty, St. Paul, Medicine | William Carlyle Johnson, B.A., Minneapolis, Medicine |
| Frederick Ernst Drill, B.A., Hopkins, Medicine | John William Josse, B.A., Minneapolis, Medicine |
| Richard Allan Edlund, B.A., Minneapolis, Medicine | Harold Bernard Kaiser, B.Ch.E., Minneapolis, Medicine |
| Gerald Greene Eklund, Bethel, Medicine | John Thomas Kelly, B.A., Minneapolis, Medicine |
| Abel Raymond Ellingson, B.A., Detroit Lakes, Medicine | William Joseph Kozel, Montgomery, Medicine |
| Darroll James Erickson, Minneapolis, Medicine | James William LaFave, B.A., Morris, Medicine |
| Robert Edward Evans, Austin, Medicine | Clarence Myhren Larson, Jr., B.A., Minneapolis, Medicine |
| William Arthur Foley, Minneapolis, Medicine | Warren Robert Lawson, B.Ch.E., M.P.H., Minneapolis, Medicine |
| Martin Zolle Fruchtman, B.A., Minneapolis, Medicine | Glenn Marcus Lewis, Jr., B.A., Minneapolis, Medicine |
| Robert Bernard Fruchtman, B.A., Minneapolis, Medicine | Nelda Arline Meyer, Girard, Kan., Public Health Nursing, WITH DISTINCTION |
| Stanley Morton Goldberg, B.A., Minneapolis, Medicine | Herbert Martin Modelevsky, B.A., St. Paul, Medicine |
| Richard Alan Greenberg, B.A., St. Paul, Medicine | Norval Mortensen, Tyler, Medicine |

Robert Anthony Murray, Jr., Hibbing, Medicine	John Lee Sander, B.A., Detroit Lakes, Medicine
Melvin Ogurak, B.A., St. Paul, Medicine	Gene Roger Savelkoul, Minneapolis, Medicine
Arthur Raymond Page, St. Charles, Medicine	John Marlowe Sheehan, B.A., Wi- nona, Medicine
Carl Frank Peikert, Cokato, Medicine	Sam Shragg, B.A., Minneapolis, Medicine
James Raymond Pluth, Chisholm, Medicine	Harold Shure, Minneapolis, Medicine
James Lawrence Purdie, B.A., St. Paul, Medicine	Melvin Edward Sigel, B.A., Duluth, Medicine
Frederick Alexander Ramlall, B.A., Berbice, British Guiana, Medicine	John Gilbert Stafne, Fargo, N.D., Medicine
John Corliss Richards, B.A., Minne- apolis, Medicine	John Patrick Williams, Minneapolis, Medicine
Filmore Stanley Rodich, B.A., St. Louis Park, Medicine	Robert M. Wright, B.A., Minneapolis, Medicine
Loren Rothstein, B.A., St. Paul, Medicine	Max Eugene Zaring, Minneapolis, Medicine
Jerome Howard Rudolph, B.A. cum laude, Minneapolis, Medicine	

Master of Public Health

Dorothy Ann Woodin, B.S., Grand Island, Neb.

GRADUATE SCHOOL

Master of Arts

Beatrice Matilda Aldred, Fort Wayne, Ind. B.A. '48, Indiana University. Major: Speech Pathology. Minor: Educational Psychology. Thesis: A Preliminary Investigation into the Spontaneous Speech of Kindergarten Children.	Ralph Sloan Bailey, La Crosse, Wis. B.A. '50, St. Olaf College. Field of Concen- tration: Physical Education.
Janice Helen Anderson, Wells B.S. '42, University of Minnesota. Field of Concentration: Curriculum and Instruction.	Ann Corwin Bark, Gary, Ind. B.S. '48, Indiana University. Major: Speech Pathology. Minor: Child Welfare. Thesis: Con- struction of a Non-Verbal Picture Choice In- ventory of Certain Attitudes of the Severely Handicapped Cerebral Palsied Child.
Carol Rich Andreas, North Newton, Kan. B.A. '53, Bethel College (Kansas). Field of Concentration: Psychology.	Alvin Boderman, St. Paul B.A. '50, University of Minnesota. Major: Sociology. Minor: Philosophy. Thesis: A Study of the Interrelations Among Three Sub-Areas of Sociological Activity.
William Peter Baer, New Ulm B.S. '52, University of Minnesota. Major: Speech Pathology. Minor: Psychology. Thesis: An Investigation of the Influence of Various Time Intervals Upon the Selection and Repe- tition of Words Presented Dichotically at a Supra Threshold Level.	James Howard Brown, Omaha, Neb. B.M.E. '44, B.S. '49, University of Minnesota. Field of Concentration: Industrial Education.
	Bartlett Russell Butler, St. Paul B.A. magna cum laude '49, University of Minnesota. Field of Concentration: Music.

- Thomas Edward Collier, St. Paul
B.A. '49, University of Minnesota. Major: Music. Minor: Art. Thesis: Quintet for Flute, Clarinet, Bassoon, Trumpet, and String Bass.
- Mary Thielman Colomy, St. Cloud
B.E. '31, St. Cloud State Teachers College. Field of Concentration: Educational Psychology.
- Donald Joseph Dusek, Wymore, Neb.
B.A. '49, Nebraska State Teachers College. Field of Concentration: Industrial Education.
- Gordon Howard Grilley, Rice Lake, Wis.
B.S. '50, River Falls State Teachers College. Field of Concentration: Curriculum and Instruction.
- Allison S. Gullickson, St. Paul
B.S. '42, Eau Claire State Teachers College. Field of Concentration: Curriculum and Instruction.
- Alma Ann Munz Hammer, Northfield
B.A. '34, Arizona State Teachers College. Major: German. Minor: History. Thesis: Nicolai in the Estimate of Literary Historians.
- Lawrence Charles Hansen, Jr., Duluth
B.S. '51, University of Minnesota. Field of Concentration: Industrial Education.
- Robert Edward Hayes, Duluth
B.A. '52, University of Minnesota. Field of Concentration: Political Science.
- Mary Lee Helseth, Pelican Rapids
B.A. *cum laude* '53, Syracuse University. Field of Concentration: Curriculum and Instruction.
- Austin Curwood Hoggatt, Minneapolis
B.S. '51, Northwestern University. Major: Economics. Minor: Statistics. Thesis: The Concept of Identification in Econometrics.
- Michael Thomas Hreha, Minneapolis
B.S. '52, University of Minnesota. Field of Concentration: Industrial Education.
- Frank Buck Keith, Chicago, Ill.
B.A. '51, Carleton College. Field of Concentration: Educational Administration.
- William LaMarr Kopp, Ephrata, Pa.
B.A. '52, Goshen College. Field of Concentration: German.
- Ronald Avron Kroman, Minneapolis
B.A. *cum laude* '49, University of Minnesota. Major: Zoology. Minor: Biostatistics. Thesis: The Convergent Improvement Test of the Genetic Basis of Hybrid Vigor.
- Fred August Krügel, Three Rivers, Mich.
B.A. with highest honors '51, Albion College. Major: German. Minor: Spanish. Thesis: Grillparzer and Tieck on Spanish Drama.
- Barbara Gail Lenmark, New York, N.Y.
B.A. '52, Pacific University. Major: Journalism. Minor: History. Thesis: Some Effects of the Teletypesetter on the Newspaper.
- Celestine Kathryn Magner, Waseca
B.A. '25, College of St. Teresa. Field of Concentration: Curriculum and Instruction.
- Jerome Raymond Marsolek, Little Falls
B.S. '46, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.
- Reginald Julian Miller, Minneapolis
B.A. '49, B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- John Walter Nelson, Sherburn
B.A. '52, Gustavus Adolphus College. Field of Concentration: Psychology.
- Marvin Claude Nelson, Minneapolis
B.A. '49, Central Bible Institute and Seminary. Field of Concentration: Speech.
- Lawrence Patrick Neuerburg, Wadena
B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Irene Carolyn Nyquist, Minneapolis
B.S. '51, University of Minnesota. Field of Concentration: English.
- Yasuo Okamura, Tokyo, Japan
Graduate '44, Kyoto Imperial University. Field of Concentration: Political Science.
- Kathryn J. Panian, St. Paul
B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Lois Mabel Price, Lake Crystal
B.S. '41, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.
- Ruthmary Jolliff Ringer, Chicago, Ill.
B.S. '48, University of Minnesota. Field of Concentration: Education.
- Donald Cochran Royal, Santa Ana, Calif.
B.A. '53, University of Minnesota. Field of Concentration: Psychology.

Alden Browneil Sears, Minneapolis
B.A. '47, York College. Field of Concentration: Psychology.

David Robitshek Seltzer, Edina
B.A. '52, Carleton College. Field of Concentration: Journalism.

Helen Blanche Shipley, Park Forest, Ill.

B.A. '37, Elmhurst College; B.S. in L.S. '41, University of Illinois. Major: American Studies. Thesis: The Migration of the Mennonites from Russia, 1873-1883, and Their Settlement in Kansas.

Denzell Stewart Smith, New Richmond, Wis.

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

Mary Jane Strattner, Bronxville, N.Y.
B.S. '44, College of St. Elizabeth. Field of Concentration: Home Economics Education.

Mitsugu Sumada, Minneapolis
B.S. '51, University of Minnesota. Field of Concentration: Industrial Education.

Richard Glenn Thorp, Duluth
B.A. '49, St. Olaf College. Field of Concentration: Physical Education.

Werner-Dietrich Tismer, Berlin, Germany
Graduate '53, Free University of Berlin. Field of Concentration: Curriculum and Instruction.

Theodore John VanderNoot, Jr., Bronxville, N.Y.
B.A. '52, Duke University. Major: Sociology. Minor: Economics. Thesis: The Construction of an Attitude Scale for the Indirect Prediction of Absenteeism: A Pilot Study.

Cecille Warschaw, Chicago, Ill.
B.A. '52, University of Illinois. Field of Concentration: International Relations.

Donald Edward Wiederanders, Waverly, Iowa
B.S. in Ed. '48, Wartburg College. Field of Concentration: Educational Administration.

Ellsworth Stanley Woestehoff, St. Cloud
B.S. '42, St. Cloud State Teachers College; M.Mus. '47, Northwestern University. Field of Concentration: Education.

Etta Wolpert, Minneapolis
B.A. magna cum laude '52, University of Minnesota. Field of Concentration: English.

Master of Arts in Public Administration

Howard LaViers Reese, Glendale, Calif.

B.S. '51, Iowa State College. Field of Concentration: Public Administration.

Master of Business Administration

George Benz Millard, St. Paul
B.A. '52, Brown University. Field of Concentration: Business Administration.

Jatavallabhula Satyanarayana, Madras, India

B.A. '40, B.A. (Hons.) '42, Andhra University (India). Field of Concentration: Business Administration.

Oren John Steinfeldt, Minneapolis
B.B.A. '42, University of Minnesota; L.L.B. '46, University of Southern California. Field of Concentration: Business Administration.

Master of Fine Arts

Joyce Petersen Mouratides, Camanche, Iowa

B.A. '50, University of Minnesota. Major: Art. Minor: English. Thesis: A Discussion of the Relationship Between Esthetic Theory and Practice in Visual Art.

Harvey Retzloff, Hammond, Ind.
B.A. cum laude '51, University of Minnesota. Major: Art. Minor: History. Thesis: The Effect of Photography on Painting.

Master of Forestry

Roy Edward Skog, Marquette, Mich.
B.S. '40, Michigan State College. Field of
Concentration: Forestry.

Master of Science

Jean Renee Aichele, St. Paul
B.S. '48, University of Minnesota. Field of
Concentration: Library Science.

Conrad Robert Appledorn, Crosby
B.M.E. '49, University of Minnesota. Major:
Geology. Minor: Geophysics. Thesis: Some
Volcanic Structures in the Chuska Mountains,
Navajo Reservation, Arizona-New Mexico.

Allen Guyan Blair, Minneapolis
B.S. *magna cum laude* '49, Hamline Univer-
sity. Field of Concentration: Physics.

Dorothy Elizabeth Bonnell, Fort
Dodge, Iowa
B.S. '48, Iowa State College. Major: Home
Economics. Minor: Statistics. Thesis: Effect
of Thickness of Aluminum Cooky Sheets on
the Quality of Butter Cookies.

William Brickel, Vicksburg, Miss.
B.S. '40, Alcorn A & M College. Field of
Concentration: Agricultural Education.

Clifford Elmer Brown, Indian Head,
Saskatchewan, Canada
B.S.A. '49, University of Manitoba. Major:
Entomology. Minor: Forestry. Thesis: A Study
of the Progeny of Mated and Unmated Fe-
males of the Pine Needle Scale *Phenacaspis*
pinitfoliae (Fitch), (Homoptera, Coccoidea).

Silvio Arzani Buscaglia, Los Andes,
Chile
Ing.Agron. '50, Catholic University of Chile.
Field of Concentration: Agricultural Educa-
tion.

Rafael Díaz, Minneapolis
B.S. in Ch.E. '48, University of Puerto Rico.
Field of Concentration: Analytical Chemistry.

Heinz Sorger-Domenigg, Graz, Aus-
tria
B.S. with distinction '51, University of Min-
nesota. Major: Agricultural Biochemistry. Mi-
nor: Mechanical Engineering. Thesis: The Ef-
fect of Wheat History on Its Stability Upon
Storage.

Bernard Hughes Ebel, Buffalo, N.Y.
B.S. *cum laude* '50, New York State College
of Forestry. Major: Entomology. Minor: Plant
Pathology. Thesis: A Revision of the North
American Pyrochroidae (Coleoptera).

Frank Mathew Hruz, Milwaukee, Wis.
Met.E. '52, Colorado School of Mines. Major:
Metallurgy. Minor: Geology. Thesis: Amine
Flotation of Quartz as Applied to Iron Ore
Beneficiation.

Yu-Tseng Hsi, Ching-Pu, Kiangsu,
China
B.S. '40, National Central University (China).
Field of Concentration: Horticulture.

Donald Irvine Kurth, Minneapolis
B.S. '52, University of Minnesota. Field of
Concentration: Mathematics.

David Van Hoff Lewis, Indianapolis,
Ind.
B.S. '52, Indiana University. Major: Geology.
Minor: Geophysics. Thesis: Relationships of
Ore Bodies to Dikes and Sills.

Floyd Jerry Lucia, Eau Claire, Wis.
B.S. with distinction '53, University of Minne-
sota. Major: Geology. Minor: Physical Chem-
istry. Thesis: Igneous Geology of the Enger
Tower Area, Duluth, Minnesota.

Laura Ann Schuh, Rollingstone
B.E. '38, Winona State Teachers College.
Field of Concentration: Zoology.

Pao-lo Yu, Shanghai, China
B.S. '47, University of Nanking (China). Ma-
jor: Plant Genetics. Minor: Plant Pathology.
Thesis: Inheritance of Several Agronomic Char-
acters as Studied in the F_2 Generation of Two
Barley Crosses.

Master of Science in Aeronautical Engineering

Robert John Barnes, Bryan, Ohio
B.S. '45, U. S. Naval Academy; B.S. in Aero.E. '53, U. S. Naval Postgraduate School. Major: Aeronautical Engineering. Minor: Civil Engineering. Thesis: A Study of the Effect of Various Fuels on the Optimum Length of a Gas Turbine Combustor Equipped with a Vaporizer Tube.

Robert Stanley Hutches, Gary, Ind.
B.S. '45, U. S. Naval Academy; B.S. in Aero.E. '53, U. S. Naval Postgraduate School. Major: Aeronautical Engineering. Minor: Civil Engineering. Thesis: An Investigation of the Effects of Turbulent Quenching in a Can-Type Combustion Chamber.

Winston LaVern Miller, Buffalo Lake
B.Aero.E. with distinction '43, University of Minnesota; B.S. in Aero.E. '53, U. S. Naval Postgraduate School. Major: Aeronautical Engineering. Minor: Civil Engineering. Thesis: Design and Performance of a Vaporizer Type Fuel Inlet System.

Richard Donald Wood, Minneapolis
B.M.E. '50, University of Minnesota. Major: Aeronautical Engineering. Minor: Industrial Engineering. Thesis: Theoretical Ejector Performance and Comparison with Experimental Results.

Master of Science in Agricultural Engineering

Loyal Albert Johnson, Minneapolis
B.Ag.E. '34, University of Minnesota. Field of Concentration: Agricultural Engineering.

Master of Science in Anesthesiology

William Evers, St. Paul
M.D. '45, Federal Institute of Medicine (Russia). Major: Anesthesiology. Minor: Pharmacology. Thesis: Reflex Changes in Heart Rate and Rhythm During Laryngeal Manipulation. Evaluation of Incidence as Related to the Use of Pentothal-Curare, Pentothal-Flaxedil and Topical Cocaine in Clinical Anesthesia.

Serafino Possati, Bologna, Italy
M.D. '43, University of Bologna. Major: Anesthesiology. Minor: Physiology. Thesis: A Mass-Spectrometric Method for the Determination of Cyclopropane in Blood. Its Clinical Application in Relation to a Classification of the Electroencephalographic Patterns Occurring During Cyclopropane Anesthesia.

Master of Science in Civil Engineering

WeiMing Lu, China
B.S. '52, Taiwan Provincial College of Engineering (China). Field of Concentration: Civil Engineering.

Asim Kumar Mukherjee, Calcutta, India
B.E. '47, University of Calcutta. Field of Concentration: Civil Engineering.

Master of Science in Electrical Engineering

Katsunori Shimada, Tokyo, Japan
B.S. in E.E. *magna cum laude* '45, Tokyo Imperial University. Major: Electrical Engineering. Minor: Mathematics and Mechanics. Thesis: The Audio Frequency Oscillations in a Hot Cathode Gas Discharge Tube.

Master of Science in Industrial Engineering

Arthur Edward Tissol, St. Paul
B.S. in M.E. '48, Northwestern Technological
Institute. Field of Concentration: Industrial
Engineering.

Master of Science in Mechanical Engineering

Ben Hilton Anderson, Minneapolis
B.S. with distinction '52, University of Minne-
sota. Field of Concentration: Mechanical En-
gineering.

Elmer Melvin Christensen, Albert Lea
B.M.E. '48, University of Minnesota. Field of
Concentration: Mechanical Engineering.

Glendon Maynard Benson, Minne-
apolis
B.S. '53, University of Minnesota. Field of
Concentration: Mechanical Engineering.

Master of Science in Medicine

Noah Hampton Chiles, Corryton,
Tenn.
B.S. '41, University of Tennessee; M.D. '44,
University of Louisville. Major: Medicine.
Minor: Pathologic Anatomy. Thesis: Esopha-
geal Varices: Comparative Incidence of Ulcera-
tion and Spontaneous Rupture as a Cause of
Fatal Hemorrhage.

Paul Anderson Green, Rochester
B.A. '43, M.D. '46, University of Oklahoma.
Major: Medicine. Minor: Pathologic Anatomy.
Thesis: The Kidneys of Young Diabetics.

Robert Castleman Green, Jr., Win-
chester, Va.
M.D. '47, University of Virginia. Major: Medi-
cine. Minor: Pathologic Anatomy. Thesis: The
Relationship of Diabetes Mellitus to Primary
Carcinoma of the Pancreas.

Norman G. Hepper, Rochester
B.A. '44, B.S. '44, University of North Da-
kota; M.D. '46, University of Illinois. Major:
Medicine. Minor: Pathologic Anatomy. Thesis:
The Effect of Cortisone on Healing of Experi-
mentally Produced Myocardial Infarction in
Dogs.

Norman William McQuay, Rochester
M.D., C.M. '45, Queens University (Canada).
Major: Medicine. Minor: Pathologic Anatomy.
Thesis: Types of Death in Cases of Acute
Myocardial Infarction.

Alvin Sherwood Medoff, New York,
N.Y.
M.D. '48, New York Medical College. Major:
Medicine. Minor: Hematology. Thesis: A Study
of Patients Diagnosed as "Myeloid Metaplasia
of the Spleen" with Special Reference to the
Changes Occurring in the Peripheral Blood.

Maurice Hardy Murphy, Marshall,
Tex.
B.S. '39, Centenary College; M.D. '43, Baylor
University. Major: Medicine. Minor: Patho-
logic Anatomy. Thesis: Tumor Metastasis in
the Adrenal.

Robert Allen Rabens, Rochester
M.D. '50, University of Illinois. Major: Medi-
cine. Minor: Pathologic Anatomy. Thesis: The
Induction and Pathological Characteristics of
Experimental Streptococcus Mitis Endocarditis.

Richard J. Reitemeier, Rochester
B.A. '43, University of Denver; M.D. '46,
University of Colorado. Major: Medicine. Mi-
nor: Pathologic Anatomy. Thesis: The Com-
parative Effects of Phenindione, Dipaxin and
Ethyl Biscoumacetate (Tromexan) on the One-
Stage Prothrombin Time.

Ballard Franklin Smith, Rochester
M.D. '46, University of Buffalo. Major: Medi-
cine. Minor: Pathologic Anatomy. Thesis: A
Histopathologic Study of 100 Cases of Liver
Abscess.

Master of Science in Neurosurgery

Shelley Nien-chun Chou, Minneapolis
B.S. '46, St. John's University (China); M.D.
'49, University of Utah. Major: Neurosurgery.
Minor: Pathology. Thesis: The Interpretation
of Isotope-Encephalometry.

James Francis Cooney, West Palm
Beach, Fla.

B.S. '42, University of Notre Dame; M.D. '46,
Yale University. Major: Neurosurgery. Minor:
Neuropathology. Thesis: Astrocytomas (Astro-
cytoma, Astroblastoma, Glioblastoma Multi-
forme) of the Cerebrum.

Master of Science in Ophthalmology

Jerry Frank Donin, Winnipeg, Mani-
toba, Canada

M.D., L.M.C.C. '49, University of Manitoba.
Major: Ophthalmology. Minor: Surgical Pa-
thology. Thesis: Polyvinyl Sponge as an Intra-
ocular Implant Following Evisceration of the
Eye: An Experimental Study.

Rex Winfield Weaver, Mesa, Ariz.

B.S. '46, University of Nebraska; M.D. '50,
Louisiana State University. Major: Ophthal-
mology. Minor: Surgical Pathology. Thesis: A
Study of Eye Movements During Prism Verg-
ence Tests.

Master of Science in Pathology

Raymond Archie Allen, Rochester

B.S. '43, University of Utah; M.D. '46, Uni-
versity of Louisville. Major: Pathology. Minor:
Clinical Pathology. Thesis: Soft Tissue Tu-
mors of the Sole of the Foot with Special
Reference to Plantar Fibromatosis.

Master of Science in Radiology

Byron Earl Besse, Jr., Haverford, Pa.

M.D. '50, Jefferson Medical College. Major:
Radiology. Minor: Surgical Pathology. Thesis:
Aneurysmal Bone Cysts.

Master of Science in Surgery

Frank James Kroboth, Jr., Bingham-
ton, N.Y.

B.A. '43, M.D. '46, Syracuse University. Major:
Surgery. Minor: Surgical Pathology. Thesis:
Some Effects of Ethionine on Dogs with Partic-
ular Reference to External Pancreatic Sec-
retion.

Richard Thors, Reykjavik, Iceland

M.D. '47, University of Iceland. Major: Sur-
gery. Minor: Surgical Research. Thesis: Ef-
fect of Ligation of the Hepatic Artery on Oxy-
gen Content of Blood from the Hepatic Vein
in Dogs.

Ralph Lev, Norwalk, Conn.

M.D. '48, Jefferson Medical College. Major:
Surgery. Minor: Physiology. Thesis: Immedi-
ate Hemodynamic Effects of Mitral Commis-
surotomy; Observations During Surgery.

Master of Social Work

Loring Alfred Abrahamson, Minneapolis

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

Jacqueline Hoffman, Minneapolis

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

Willard Cyrus Rasmussen, Minneapolis

Ph.B. '50, University of North Dakota. Field of Concentration: Social Work.

Norman Luther Tolo, Fertile

B.A. '52, Concordia College. Field of Concentration: Social Work.

Doctor of Philosophy

Roland Charles Blake, Howland, Me.
B.S. with highest distinction '49, University of Maine. Major: Horticulture. Minor: Plant Genetics. Thesis: Strawberry Progeny Testing and Evaluation of Parents for Breeding. Major Adviser: Prof. A. N. Wilcox.

Coleman Dudley Fitz, Excelsior

B.M.E. with high distinction '43, M.S. in M.E. '46, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Investigation of the Intermittent Motion of Certain Bodies Sliding on Ice. Major Adviser: Prof. R. C. Jordan.

Jacob Frederic Goossen, St. Cloud

B.A. *summa cum laude* '49, M.A. '50, University of Minnesota. Major: Music. Minor: History. Thesis: Symphony No. I. Major Adviser: Prof. P. M. Oberg.

Otis Frederick Hall, St. Paul

B.A. '43, Oberlin College; M.F. '48, Yale University. Major: Forestry. Minor: Economics. Thesis: The Growth Patterns of Thinned and Unthinned Forest Stands and Their Value in the Management of the Forest. Major Adviser: Prof. A. E. Schneider.

Delbert Curtis Hastings, Seattle, Wash.

B.S. '47, M.A. '49, University of Minnesota. Major: Statistics. Minor: Economics. Thesis: A Monthly Index of Regional Business Activity Based on Net Product Measurement. Major Adviser: Prof. R. L. Kozelka.

Jack Waugh Heberling, Jr., Chicago, Ill.

B.S. '50, University of Illinois. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Reaction of α -Haloacetals with Mercaptans Substitution Reactions of 1,2-Vinyl-Bis-sulfides. Major Adviser: Prof. W. E. Parham.

Kenneth Boyd Hoyt, Cherokee, Iowa
B.S. '48, University of Maryland; M.A. '50, George Washington University. Major: Educational Psychology. Minor: Education. Thesis: A Study of the Effects of Teacher Knowledge of Pupil Characteristics on Pupil Achievement and Attitudes Towards Classwork. Major Adviser: Prof. W. E. Dugan.

Helen M. Jambor, San Francisco, Calif.

B.A. '33, University of California at Los Angeles; M.A. '36, University of Oregon; M.A. '39, University of Chicago. Major: Social Work. Minor: Sociology. Thesis: Discrepancies in Role Expectations for the Supervisory Position—A Concern of Social Work Administration. Major Adviser: Prof. J. C. Kidneigh.

Kenneth James LaBudde, Sheboygan Falls, Wis.

B.A. with high honors '41, B.L.S. with high distinction '42, University of Wisconsin; M.A. '48, University of Minnesota. Major: American Studies. Thesis: The Mind of Thomas Cole. Major Adviser: Prof. Theodore Hornberger.

Juanita Mariella Luck, Houston, Tex.

B.A. '35, The Rice Institute; B.S. '38, University of Houston; M.S.S.A. '44, University of Pittsburgh. Major: Social Work. Minor: Sociology. Thesis: A Study of Peer Relationships Which Children in Their Latency Years Are Observed to Form During 25 Group Therapy Sessions. Major Adviser: Prof. J. C. Kidneigh.

Dorothy McBride, Minneapolis

B.A. *summa cum laude* '49, M.A. '52, University of Minnesota. Major: Psychology. Minor: Sociology. Thesis: The Effects of Public and Private Changes of Opinion on Intra-Group Communication. Major Adviser: Prof. K. E. Clark.

William Clayton McGuffin, Calgary, Alberta, Canada

B.A. '36, M.A. '37, University of Western Ontario. Major: Entomology. Minor: Botany. Thesis: Larvae of the Larentiinae (Lepidoptera: Geometridae). Major Adviser: Prof. C. E. Mickel.

Ibrahim Esmat Metaweh, Cairo, Egypt

B.S. '44, Fouad University (Egypt); Ed.Diploma '46, High Institute of Ed. (Egypt); M.A. '52, University of Minnesota. Major: Education. Minor: Sociology. Thesis: Improvement of Rural Teacher Education in Egypt. Major Adviser: Prof. C. P. Archer.

Mary Ann Morris, Norwalk, Calif.

B.S. with honors '48, M.S. '49, University of California at Los Angeles. Major: Home Economics. Minor: Agricultural Economics. Thesis: The Thermal Insulation and Associated Properties of Single and Multiple Layers of Fabrics. Major Adviser: Prof. E. L. Phelps.

John Sumner Pearson, Rochester

B.A. '44, Gustavus Adolphus College. Major: Psychology. Minor: Neuropsychiatry. Thesis: Psychometric Correlates of Emotional Immaturity. Major Adviser: Prof. S. R. Hathaway.

Florence Eloise Petzel, Tuscaloosa, Ala.

Ph.B. '31, M.A. '34, University of Chicago. Major: Home Economics. Minor: Agricultural Economics. Thesis: The Behavior of Certain Cotton and Linen Fabrics with Respect to the Absorption of Water and Drying. Major Adviser: Prof. E. L. Phelps.

Ferdinand Antonio Quinones, Mayaguez, Puerto Rico

B.S.A. '46, University of Puerto Rico; M.S. '48, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Heterosis in Tomatoes as Affected by Diverse Origin of Parents. Major Advisers: Profs. E. H. Rinke and T. M. Currence.

Richard Wales Ramette, Hartford, Conn.

B.A. '50, Wesleyan University. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Reaction Between Rhodamine B and Antimony. Major Adviser: Prof. E. B. Sandell.

David Francis Sadler, Anderson, S.C. B.A. '46, Antioch College; M.A. '48, University of Minnesota. Major: American Studies. Thesis: Theodore Roosevelt: A Symbol to Americans, 1898-1912. Major Adviser: Prof. Tremaine McDowell.

Donald Elwyn Sikkink, Harmony

B.A. cum laude '49, M.A. '51, University of Minnesota. Major: Speech. Minor: Psychology. Thesis: An Experimental Study of the Effects on the Listener of Anti-Climax Order and Authority in an Argumentative Speech. Major Adviser: Prof. Howard Gilkinson.

Ted Ray Spivey, Swainsboro, Ga.

B.A. '49, Emory University; M.A. '51, University of Minnesota. Major: English. Minor: History. Thesis: Two Visions of Character and Fate. A Study of Themes and Major Characters in the Novels of Thomas Hardy and George Eliot. Major Adviser: Prof. J. T. Hillhouse.

Thomas Fairlamb Stratton, Kansas City, Mo.

B.S. '49, Union College; M.S. '52, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Experimental Determination of the Absolute Differential Cross Sections for the $0^{18}(d,p)0^{17}$, $0^{16}(d,p)0^{17*}$ and $0^{18}(d,p)0^{18*}$ Reactions as a Function of the Incident Deuteron Energy and the Angle of the Emitted Protons. Major Advisers: Profs. J. H. Williams and J. M. Blair.

Norman Francis Thomas, Webster, S.D.

B.A. '40, Yankton College; M.A. '44, University of South Dakota. Major: History. Minor: Sociology. Thesis: Minneapolis-Moline; A History of Its Formation and Operations. Major Adviser: Prof. Herbert Heaton.

Bruce O. Watkins, Tucson, Ariz.

B.S. in E.E. with high distinction '34, University of Arizona; M.S. in E.E. '49, University of Missouri. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Characteristics of Phase Sensitive Detector Circuits and the Influence of Such Circuits on Servomechanism Design. Major Adviser: Prof. L. C. Caverley.

Norman Willard, Jr., Chehalis, Wash.

B.A. '48, College of Puget Sound; M.A. '49, Columbia University. Major: Psychology. Minor: Educational Psychology. Thesis: Level of Performance in the Rat as a Function of Training and of Subsequent Partial Reinforcement. Major Adviser: Prof. W. T. Heron.

Wesley Ray Workman, St. Paul

B.S. with high honor '49, M.S. '50, Michigan State College. Major: Organic Chemistry. Minor: Chemistry. Thesis: Unusual Reactions of Methylvinylnitrosamine and β -Chloroethylmethylnitrosamine. Major Adviser: Prof. C. F. Koelsch.

Doctor of Philosophy in Medicine

Rudi Schmid, Minneapolis

M.D. '47, University of Zurich. Major: Medicine. Minor: Anatomy. Thesis: Studies in Human and Experimental Porphyria. Major Adviser: Dr. C. J. Watson.



UNIVERSITY OF MINNESOTA

Senior Reception

July 1954

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held on the terrace of the Coffman Memorial Union. In case of rain it will be in the main ballroom of the Union. Dean Theodore C. Blegen, Dean of the Graduate School, will represent President Morrill, who is out of the city at this time.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identifications.
- Those in the receiving line will be Dean Theodore C. Blegen and Mrs. Blegen, and Mr. Rod Blanchard, Senior Coordinator, All-University Congress.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1954.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.



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THE
UNIVERSITY OF MINNESOTA

Announces Its

August Commencement

1954

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, AUGUST 19

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota has this year celebrated its one hundred and third 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 121,600 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to nearly 19,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, and recreation and health consultants give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people, in the area it serves, artists and lecturers of quality and talent.

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University of Minnesota from 7:00 to 8:00 p.m., they will hear the Frances Miller Brown Memorial bells being played from Northrop Memorial Auditorium, Mr. Richard Fosse, M.A., Assistant Professor of Music, Taylor University, carillonneur. Admission to the August commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

ORGAN RECITAL: From 7:30 to 8:00 p.m. Mr. Paul Manz, M.M., Organist-choirmaster of Mount Olive Lutheran Church, will play:

Tocatta, Adagio, Fugue in C	-	-	-	-	-	-	-	-	-	Bach
Sheep and Lambs May Safely Graze	-	-	-	-	-	-	-	-	-	Bach
Finale in B Flat	-	-	-	-	-	-	-	-	-	Franck

PROCESSIONAL:

Trumpet Tune and Air	-	-	-	-	-	-	-	-	-	Purcell
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PROCESSIONAL: 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: Dr. David K. Berninghausen, Director of the Library School, Marshal; Dr. Edwin H. Lewis, Associate Professor of Business Administration, Marshal; Dr. John G. Darley, Associate Dean of the Graduate School; Dr. Richard Kozelka, Dean of the School of Business Administration; Dr. Harold Macy, Dean of the Institute of Agriculture; Mr. Laurence Lunden, Comptroller; Mr. True E. Pettengill, Recorder; Dr. E. W. Ziebarth, Dean of the Summer Session; Dr. Malcolm M. Willey, Vice President, Academic Administration; Dr. James Lewis Morrill, President of the University; The Honorable Charles W. Mayo, Regent of the University; The Reverend George G. Garrelts, Chaplain to Catholic students at the University; Colonel Kermit D. Stevens, USAF, Professor of Air Science and Tactics; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Dr. Alfred L. Vaughan, Assistant Dean of the General College; Dr. Elmer W. Johnson, Assistant Dean, Institute of Technology; Dr. Marcia Edwards, Associate Dean of the College of Education; Dr. Harold S. Diehl, Dean of the College of Medical Sciences; Mr. Roy Schuessler, Associate Professor of Music; Mr. Keith McFarland, Assistant to the Director of Resident Instruction, College of Agriculture, Forestry, and Home Economics, Marshal.

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

Order of Events

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

INVOCATION: The Reverend George G. Garrelts, Chaplain to Catholic students at the University.

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

COMMENCEMENT ADDRESS: "The Factor of Time," Dr. Charles W. Mayo, Regent of the University and Alternate Delegate to the United Nations.

CONFERRING OF COMMISSIONS: Vice President Malcolm M. Willey, Ph.D., Vice President, Academic Administration, will introduce Colonel Kermit D. Stevens, USAF, Professor of Air Sciences and Tactics, who will present the candidates for commissions in the various branches of the armed services. The commissions will be presented by President Morrill; the oath of office will be administered by Colonel Stevens.

CONFERRING OF DEGREES: Vice President Willey will introduce the several deans or their representatives, who will present the candidates for degrees in their respective colleges. These in order of their introduction are: Assistant Dean Alfred L. Vaughan, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts and University College; Assistant Dean Elmer W. Johnson, M.E., Institute of Technology; Dean Harold Macy, Ph.D., College of Agriculture, Forestry, and Home Economics, Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Dean Richard Kozelka, Ph.D., School of Business Administration; Dean Harold S. Diehl, M.D., College of Medical Sciences; Associate Dean John G. Darley, Ph.D., Graduate School. All degrees will be conferred by President Morrill.

PRESENTATION OF DIPLOMAS: With Dean E. W. Ziebarth, Ph.D., Dean of the Summer Session, 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 John G. Darley to President Morrill, who will confer the degrees.

Order of Events

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

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

RECESSIONAL: Mr. Paul O. Manz, organist.

Toccata (Gothic Suite) - - - - - *Boellmann*

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 second term of the Summer Session, commissions will be conferred as indicated on those listed below and upon such others as may meet the requirements for Reserve Officers in the Armed Services.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Coast Artillery Corps

Noel C. Case, Minneapolis

Craig M. Erickson, St. Paul

Second Lieutenant, Quartermaster Corps

John T. Donovan, Minneapolis

Second Lieutenant, Transportation Corps

Richard D. Anderson, Minneapolis

Kenneth A. Johnson, Minneapolis

Samuel A. Friedman, Minneapolis

John B. McGrath, St. Paul

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, USAF Reserve

Miles O. Cooper, St. Paul

Walter K. Nielsen, Minneapolis

Richard E. Davies, Minneapolis

Robert B. Odland, Minneapolis

James A. Metcalf, Primghar, Iowa

Peter A. Rappe, Minneapolis

Donald O. Stenquist, Minneapolis

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

David Bereman Bendell, Minneapolis

Daniel John Moran, Minneapolis

Walter Franklin Berg, Minneapolis

Kathleen Irene Nelson, Westbrook

Charles Allen Fleming, Minneapolis

Mark Michael Sivanich, Minneapolis

Willis Donald Gates, Minneapolis

James Peter Wallinder, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Jean Arlene Bladholm, Marshall
Virginia Gehring Caldwell, Bloomer,
Wis.

William Ray Jones, Jr., Edina

Bachelor of Arts

Raymond Gordon Armstrong, Minne-
apolis

Edward John Bardon, St. Paul,

SUMMA CUM LAUDE

Clinton Benjamin Bergman, A.A.,
Minneapolis

Gertrude Lillian Berndt, Minneapolis

Daniel Enfield Berry, Mediapolis,
Iowa

Ann Juvette Bolmgren, Minneapolis

Robert Kane Bridges, Minneapolis

Noel Cecil Case, Minneapolis

Leslie Giffen Curtis, St. James

Richard Edwin Davies, Minneapolis

Marilynn Jean Dingman, Minneapolis

John Thomas Donovan, Jr., Minne-
apolis

Craig Milton Erickson, St. Paul

Lawrence Alden Erlandson, Kennedy,
CUM LAUDE

Gordon Carl Frank, Winona

Samuel Allen Friedman, Minneapolis

*Nancy Elizabeth Hammond, Minne-
apolis, CUM LAUDE*

Doris Elaine Hartquist, St. Paul

Laura Margaret Herr, Minneapolis

Gale Greenly Hicks, Excelsior

*Sharline Harriet Hirsch, Minneapolis,
MAGNA CUM LAUDE*

Lois Ann Huseby, Milan

Frank Anthony Jaksa, A.A., Eveleth

Kenneth Alfred Johnson, A.A., Min-
neapolis

Shirley Elaine Kaplan, A.A., St. Paul

James Edward Knothe, La Crosse,
Wis.

Betty Jane Langhorne, White Bear
Lake

Phillip Lee Levin, Minneapolis

William Robert Lundell, St. Paul

Kevin Caspar McGuire, Osage, Iowa

Michael Graham McGuire, B.A.,
St. Cloud

Walter Kent Nielsen, Minneapolis

James Edward Novak, St. Paul

Robert Burton Odland, Minneapolis

John Edward Peterson, Minneapolis

Peter Allan Rappe, Minneapolis

William David Riek, Minneapolis

Joan Mary Schaitberger, Minneapolis

Arnold J. Schultz, Jr., Minneapolis

Frank Rinaldo Shaw, Jr., Minneapolis
Netanel E. Shechter, Israel, CUM

LAUDE

Suzanne Hill Shepardson, Minne-
apolis

Marvin Jerome Silverman, A.A., Min-
neapolis

Katharine Severson Smith, A.A., Min-
neapolis

Elizabeth Lee Spanner, A.A., Hibbing

Barbara Ruth Sumpmann, Minne-
apolis

Robert Eugene Swenson, Grand
Forks, N.D.

Ann Elizabeth Wilson, St. Paul,

MAGNA CUM LAUDE

Jerold Walter Wulf, St. Croix Falls,
Wis.

Bachelor of Science

Karen Kristine Vermund, Kongsvinger, Norway

Bachelor of Science in Library Science

Marguerite B. Gall, B.A., Lindstrom Martha Rossing, B.A., Bergen, N.D.

UNIVERSITY COLLEGE

Bachelor of Arts

Donald G. Cain, Minneapolis Patricia Joan Ellefson, Minneapolis
Esterica Tina Choban, Minneapolis

Bachelor of Science

Effal Anderson Carlin, Minneapolis Robert Paul Janes, Minneapolis
Katherine Nelson Gamble, St. Paul Audrey Jean F. Murray, St. Paul,
Arlene Ann Gollwitzer, Minneapolis MAGNA CUM LAUDE

INSTITUTE OF TECHNOLOGY

Bachelor of Science

John Paul Hansen, Swatara, WITH Dale Roy Palmer, Alexandria, WITH
DISTINCTION HIGH DISTINCTION

Bachelor of Architecture

Michael Graham McGuire, B.A., Harold Frederick Schroeder, Jr., Min-
St. Cloud neapolis
David Eustace Miller, Minneapolis

Bachelor of Chemical Engineering

Willis Gregory Houdek, Danube Norman Peter Polubinsky, St. Paul

Bachelor of Civil Engineering

Thomas Henry Linquist, Minneapolis

Bachelor of Electrical Engineering

Jerome John Rishavy, St. Paul

Bachelor of Industrial Engineering

William Carlton Matson, Crookston James David Zank, B.A., Moorhead

Bachelor of Mechanical Engineering

Herbert Hotaling Dobbs, Mapleton
James Alan McRae, Minneapolis
Clement Richard Moore, Minneapolis

John Thomas Pederson, Cloquet
Peter Anthony Thor, Minneapolis

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

Bachelor of Science

William Edward Lewis, Jr., St. Paul,
Agriculture
Irene Mae Ott, Albert Lea, Home
Economics

Pearle M. Sederberg, Minneapolis,
Home Economics
Donna Mae Thompson, A.A., Minne-
apolis, Home Economics

COLLEGE OF EDUCATION

Bachelor of Science

William A. L. Anderson, Jr., Minne-
apolis
Carl Edward Berglund, Minneapolis
Helene Rose Borseth, Minneapolis,
WITH DISTINCTION
Elsie Ruth Brandt, Montevideo
Iloe Johnson Dahl, St. Paul
Margaret Mary Day, Shakopee, WITH
DISTINCTION
Barbara Neal Donley, Minneapolis
Richard Leo Dougherty, A.A., Inter-
national Falls
Richard Arthur Ekhaml, St. Paul
Leo Finegold, B.S., New Orleans, La.
Lavon Ann Grasdalen, Albert Lea
Elizabeth Hammer Gundersen, B.A.,
Minneapolis
Mary Day Gunderson, White Bear
Lake
Carl Burton Gustafson, B.A., St. Peter
Emelie Elizabeth Hammarstrand,
Minneapolis
Evelyn Pollard Hoots, Hopkins
Phylis Amy Johnstone, St. Paul
Mary Crowley Kasbohm, Minne-
apolis, WITH HIGH DISTINCTION
Barbara Ann Rich Kaster, Duluth
Lloyd David Kreitz, Minneapolis
Lorraine Helen Kvam, Cokato

Stuart Joseph Leisz, A.A., Minneapolis
Bonnie Ryan Lemieux, International
Falls, WITH DISTINCTION
Gunvor Elizabeth Lundeen, Minne-
apolis, WITH DISTINCTION
Karla M. Madsen, Ruthton
Joanne Marie Melberg, Robbinsdale
John Albert Miller, B.A., Minneapolis
Myrtrice Carlson Moody, Minne-
apolis, WITH DISTINCTION
Edward John Nichols, Duluth
Charles Lynn Ofsthun, Robbinsdale
Lowell Kenneth Paulson, St. Paul
Alice Lorraine Peterson, Stillwater,
WITH DISTINCTION
Kathryn Zirbel Peterson, B.A., M.A.,
St. Paul
Richard Clayton Rank, Minneapolis
Birgit Louise Rootness, Two Harbors,
WITH HIGH DISTINCTION
Betty Rae Steindorff, Stillwater
Carol Jean Steindorff, Stillwater
Patricia Marilyn Swanson, Minne-
apolis
Wilma Adeline Swedburg, Minne-
apolis
Mary Mildred Utter, St. Paul
John Robert Wolfe, Waverly

Bachelor of Science in Library Science

Alma Marion Beckwith, B.S., Atlantic, Iowa
Gertrude Giesen, B.S., Minneapolis
Aileen Wheeldon Graham, B.A., Auburn, Neb.
Minnie Catherine Martin, B.S., Minneapolis
Mary Margaret Schummers, B.A., Caledonia

Master of Education

Sidney Hendon Acuff, B.A., M.A., Mt. Pleasant, Tenn.
Alice Henrietta Aderman, B.S., Shawano, Wis.
James Warren Alley, B.S., Roseau
Roger Charles Bailey, B.S., Minneapolis
Robert John Berg, B.S., Minneapolis
Byron Eugene Blake, B.A., Minneapolis
Lois Claire Bolyard, B.S., Minneapolis
Helen Roberta Boyd, B.S., Sioux City, Iowa
Theodore Zinter Christensen, B.S., St. Paul
Beverly Jayne Cornelius, B.S., Minneapolis
Delver Daniel Daly, B.S., Minneapolis
Peter James Deanovic, B.S., Minneapolis
Lee Arlo Dosch, B.S., Amery, Wis.
Duane Elmer Eklin, B.S., Minneapolis
Arlene Louise Geuder, B.A., B.S., Minneapolis
Richard Charles Gompf, B.S., Fargo, N.D.
Hatcher Hoyt, B.A., B.M., Little Rock, Ark.
Herbert Conrad Hultgren, B.S., Hayfield
Elva Hudson Hunter, B.S., B.A., Clarksville, Tenn.
Mary Frances Morse, B.S., Plant City, Fla.
Roy Dobbedal Newcomb, B.S., Hines
Irene Beck Schulz, B.S., Jamestown, N.Y.
Jeanne Therese Scovill, B.S., Minneapolis
Sister Frances Michael Haley, B.S., Minneapolis
Sister Joan Arthur Hessian, B.S., Minneapolis
Harold Carlyle Skilbred, B.A., St. Cloud
Dorothy Louise Slitzke, B.S., Minneapolis
Gerald Rolter Stewart, B.S., Minneapolis
Kermit Leroy Swenson, B.S., Minneapolis
Alice Claudine Taylor, B.S., Wilmington, Del.
Robert Bernard Waldoch, B.S., St. Paul
Myron A. Way, B.S., B.A., Hancock
Margaret McCollister Wood, B.S., St. Paul

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Gordon Garry Barott, Minneapolis
Reginald Willis Becker, Minneapolis
Keith Cloe Field, Des Moines, Iowa
Robert L. Fjerstad, Minneapolis
Patricia Ann Ginnaty, St. Paul
Ralph George Hamann, Minneapolis
Phillip Luverne Johnson, Minneapolis
Robert H. Knoch, West St. Paul

Allan Gerald Lindgren, Minneapolis
Marvin Russell Loff, A.A., Bovey
Howard Ralph McHugh, Minneapolis
George Hamilton Nelson, Mankato
Marvin Fred Peterson, Minneapolis
Louis John Pihaly, St. Paul
Norman Peter Polubinsky, St. Paul

Raymond Henry Riss, Worthington
James Benjamin Shollenberger,
Moline, Ill.
Donald Oliver Stenquist, Minneapolis
Carl Leonard Stenstrom, Jr., Minne-
apolis
Doris Mary Sweeney, St. Paul

LAW SCHOOL

Bachelor of Science in Law

Hiroshige Mori, B.A., Kona Hawaii, T.H.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Robert Duane Bush, Anoka, Medicine	Leland Gordon Reichelt, Roseau, Medicine
Robert Elmer Dinsmore, B.A., Cedar, Medicine	Nola Merle Blackburn Reinhart, Crosby, Public Health Nursing
Barbara Jane Eyster, Holcomb, Ill., Medical Technology†	Emil Schulz, Minneapolis, Medicine
Norma Idella Hamer, Belleville, Ill., Public Health Nursing, WITH DIS- TINCTION	Arthur Bruce Sundberg, B.A., Minne- apolis, Medicine
Avis Lauralie Nelson, Minneapolis, Public Health Nursing	Howard How Wong, B.A., Minne- apolis, Medicine

Bachelor of Science in Professional Nursing*

Dona Jo-Ann Amundson, Stillwater, WITH HIGH DISTINCTION	Jodene Audrey Law, Minneapolis
Ardella Mae Beske, Minnesota Lake, WITH DISTINCTION	Charlotte Mae Linster, Crookston, WITH HIGH DISTINCTION
Twylah Vivian Gregg, St. Paul	Sine Alfreda Nielsen, Hutchinson
Marilyn Elaine Iverson, Wayzata	Mary Elizabeth O'Brien, Maple Lake
Marilyn Malosh Johnson, Mott, N.D., WITH DISTINCTION	Arliss Rose Plotnik, Browerville
Kathryn Kingsley, Minneapolis	Edith Bernadette Ptacek, St. Paul
Patricia Murphy Kremer, St. Cloud	Phyllis LuCille Reck, Buffalo Lake, WITH DISTINCTION
Marian Johanna Larson, Minneapolis	Phyllis Marie Rybak, New Prague
	Lois L. Zarnott, Gaylord

* These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 16, 1954.

† These degrees are conferred subject to the satisfactory completion of practical work prior to December 16, 1954.

Master of Nursing Administration

Louelia Owen, B.S., Athens, Tex.

Doctor of Medicine

Donna Mae Edwards, B.A., B.S., M.B., Minneapolis
Howard David Ross, B.A., B.S., Minneapolis

GRADUATE SCHOOL

Master of Arts

Ottie Bernice Applen, Preston
B.S. '33, Northern Normal and Industrial School. Field of Concentration: Library Science.

Edith Bernetta Aronson, Minneapolis
B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

David Nelson Barker, Rochester
B.A. '51, Dartmouth College. Field of Concentration: Economics.

Robert Edward Bartlett, Lake Villa, Ill.
B.A. '53, University of Colorado. Field of Concentration: Journalism.

Margaret Ruth Berggren, Minneapolis
B.E. '46, National College of Education. Field of Concentration: Child Welfare.

Lawrence S. Branstad, Racine, Wis.
B.S. '48, University of Wisconsin. Field of Concentration: Curriculum and Instruction.

Forrest Edgar Brown, Jr., Zimmerman
B.A. *summa cum laude* '50, Hamline University; M.A. '52, University of Minnesota. Field of Concentration: Library Science.

Greta Blanche Buchwald, Brooklyn, N.Y.
B.A. '51, Brooklyn College. Field of Concentration: English.

Alexander Bryan Caldwell, Minneapolis
B.A. *magna cum laude* '51, University of Minnesota. Field of Concentration: Psychology.

Marie E. Carlson, Rush City
B.A. '33, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.

Jack Clifford Conley, Sauk Rapids
B.S. '43, St. Cloud State Teachers College. Field of Concentration: Physical Education.

Prabhat Nalini Das, Cuttack, Orissa, India
B.A. (Hons.) '48, Utkal University; M.A. '50, Allahabad University. Field of Concentration: English.

Wesley Allan Dibbern, Valley City, N.D.
Ph.B. '51, University of North Dakota. Field of Concentration: Political Science.

Gertrude M. Donat, Fargo, N.D.
B.A. '53, Concordia College. Field of Concentration: Psychology.

James Elstone Dow, St. Paul
B.A. '51, University of Minnesota. Field of Concentration: Area Studies: Northwest Europe.

Raymond Joseph Endres, Billings, Mont.
B.A. '49, St. John's University; B.S. '51, Eastern Montana College of Education. Field of Concentration: Curriculum and Instruction.

John Andrew Fibiger, Minneapolis
B.A. *summa cum laude* '53, University of Minnesota. Field of Concentration: Statistics.

Theodore Russell Fisher, Minneapolis
B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Dean E. Fritze, Hayfield
B.S. '48, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Lyle Duane Gerard, Duluth
B.A. '49, Macalester College. Field of Concentration: Curriculum and Instruction.

- Lowell Reno Gillett, Austin
B.A. '47, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.
- Leona Carolyn Golz, St. Cloud
B.S. '45, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.
- Rita Goodfleisch, New York, N.Y.
B.A. '52, New School for Social Research. Field of Concentration: Library Science.
- Stuart Edwin Goodrich, Little Falls
B.S. '48, St. Cloud State Teachers College. Field of Concentration: Educational Psychology.
- Howard Allen Gordon, Virginia
B.S. '52, University of Minnesota. Field of Concentration: Political Science.
- Alfred H. Grewe, Jr., St. Cloud
B.A. '50, St. Cloud State Teachers College. Major: Zoology. Minor: Botany. Thesis: The Social Behavior of the Largemouth Black Bass (*Micropterus salmoides*) Under Laboratory Conditions.
- Merle Dale Griffith, Minneapolis
B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Edna S. Haakenstad, Mabel
B.S. '46, Winona State Teachers College. Field of Concentration: Curriculum and Instruction.
- Harriet Ann Hall, Minneapolis
B.A. '51, College of Wooster. Field of Concentration: Speech.
- Seth Hamrick, Gunnison, Colo.
B.A. '51, Western State College of Colorado. Field of Concentration: Curriculum and Instruction.
- George Edwin Hanna, South St. Paul
B.A. '31, Yankton College. Field of Concentration: Curriculum and Instruction.
- Gerhard Karroll Haukebo, Underwood
B.S. '52, University of Minnesota. Field of Concentration: Educational Administration.
- Helen W. Hawkins, Waterloo, Iowa
B.S. '40, River Falls State Teachers College. Field of Concentration: Curriculum and Instruction.
- Patricia Jane Hayes, St. Paul
B.A. *cum laude* '49, University of Minnesota. Field of Concentration: Music.
- Mary Gillen Henley, Stillwater
B.A. '24, University of Minnesota. Field of Concentration: Library Science.
- Louis A. Hill, Hawkins, Wis.
B.S. '37, Northern State Teachers College (Michigan). Field of Concentration: Educational Administration.
- Michael Hnatko, Ely
B.S. '49, University of Minnesota. Field of Concentration: Educational Administration.
- John I. Holsen, Winnebago
B.A. '40, Concordia College. Field of Concentration: Educational Administration.
- Irma Tobisch Janitz, Stillwater
B.S. '43, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- George Herbert Johnson, Jr., Minneapolis
B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Harvey Gerald Johnson, Superior, Wis.
B.S. '50, Superior State Teachers College. Field of Concentration: Library Science.
- Robert Jerome Johnson, Minneapolis
B.A. *cum laude* '52, University of Minnesota. Field of Concentration: Journalism.
- Dominic Nguyen Khactu, Viet-Nam, Indochina
B.A. '50, St. Jean Baptiste College (Indochina); B.A. '53, College of St. Thomas. Field of Concentration: Economics.
- Ernest Godfrey Kimme, Long Beach, Calif.
B.A. '52, Pomona College. Major: Mathematics. Minor: Statistics. Thesis: On the Spectra of Certain Linear Transforms of Continuous Functions.
- Jenny-Ann Kloet, Minneapolis
B.S. '40, University of Minnesota. Field of Concentration: History and Philosophy of Education.
- Edna B. Koehn, Dresden, N.D.
B.S. '52, Moorhead State Teachers College. Field of Concentration: Curriculum and Instruction.
- Arvid Henry Korpi, Aurora
B.S. '38, University of Minnesota. Field of Concentration: Curriculum and Instruction.

- M. Pauline Mattson Krieger, St. Paul
B.A. *cum laude* '49, St. Olaf College. Field of Concentration: Speech.
- Mary Jeanne LaFrance, Duluth
B.A. '52, College of St. Scholastica. Field of Concentration: Library Science.
- Lois Gillan Lance, St. Paul
B.S. '44, Indiana Central College. Field of Concentration: Curriculum and Instruction.
- Harrison Lane, Belgrade, Mont.
B.S. '49, Montana State College. Field of Concentration: American Studies.
- Frederick Halvor Lang, Minneapolis
B.A. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Donald LeRoy Lantz, St. Paul
B.A. '51, Wheaton College. Field of Concentration: Curriculum and Instruction.
- Hazel Olivia Larson, Des Moines, Iowa
B.A. '36, Simpson College. Field of Concentration: Education.
- Claire Babette Levine, St. Paul
B.S. with distinction '51, University of Minnesota. Field of Concentration: Library Science.
- Margaret Louise Linster, Crookston
B.S. with distinction '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Janet Adele Loranger, Duluth
B.A. '49, Carleton College. Field of Concentration: Education.
- Nell Jonk Marley, Minneapolis
B.S. '34, B.S. in L.S. '49, University of Minnesota. Field of Concentration: Library Science.
- Charles Dennis Martin, Little Falls
B.E. '32, St. Cloud State Teachers College. Field of Concentration: Speech.
- David Howard Marvin, Chisholm
B.E. '48, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.
- Jerome William McCarty, St. Cloud
B.S. '42, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.
- Milo Alfred McCoy, Jackson
B.S. '47, Mankato State Teachers College. Field of Concentration: Industrial Education.
- Marian Wise Miller, Florence, S.C.
B.A. '28, Benedict College; B.S. '41, University of Minnesota. Field of Concentration: Library Science.
- Sally Elizabeth Millett, St. Paul
B.A. '51, Mills College. Field of Concentration: International Relations.
- Richard James Mooney, Minneapolis
B.S. '51, University of Minnesota. Field of Concentration: Economics.
- John Thomas Mundahl, Little Falls
B.A. '42, St. Olaf College. Field of Concentration: Educational Administration.
- Jeanne Wieriman Neittamo, St. Paul
B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Arthur Edward Nelson, St. Paul
B.A. '50, St. Thomas College; M.A. '51, University of Minnesota. Field of Concentration: Library Science.
- Earl Ellsworth Nelson, Two Harbors
B.A. '38, Augustana College. Field of Concentration: Curriculum and Instruction.
- Niilo E. Niemi, Eveleth
B.E. '36, Duluth State Teachers College. Field of Concentration: Curriculum and Instruction.
- Ralph Brynjolf Norland, Blackduck
B.A. '49, Luther College. Field of Concentration: Educational Administration.
- Joseph Donald Novak, Minneapolis
B.S. '52, University of Minnesota. Field of Concentration: Education.
- Frederick Clifford Ojala, Proctor
B.S. '46, Duluth State Teachers College. Field of Concentration: Curriculum and Instruction.
- Harold William Otte, St. Paul
B.S. '47, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.
- Harald Palm, Minneapolis
B.A. *cum laude* '47, Bethany College. Field of Concentration: Curriculum and Instruction.
- Marjorie Theodora Meyer Paul, Mankato
B.S. '41, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.

- George Darrell Peterson, Superior, Wis.
B.A. '50, Superior State Teachers College. Field of Concentration: Curriculum and Instruction.
- Paul Vanard Peterson, Bemidji
B.A. '48, University of Colorado. Field of Concentration: Journalism.
- Warren Arthur Reich, Grand Rapids
B.B.A. '48, University of Minnesota; B.S. '50, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.
- Howard Stuart Reinmuth, Jr., Minneapolis
B.A. *summa cum laude* '51, University of Minnesota. Major: History. Minor: Political Science. Thesis: George Abbot, 1562-1633, His Life, Character, and Work.
- George Linn Roberts, Sumner, Iowa
B.A. '40, Iowa State Teachers College. Field of Concentration: Educational Administration.
- Richard Emil Roth, Lanesboro
B.S. '47, Winona State Teachers College. Field of Concentration: Educational Administration.
- Rosemary Patricia Roy, St. Paul
B.S. '51, University of Minnesota. Field of Concentration: Library Science.
- Steven Hine St. Martin, Bloomington
B.S. '50, University of Minnesota. Field of Concentration: Educational Psychology.
- Norma Schmutz, Salt Lake City, Utah
B.S. '47, University of Utah. Field of Concentration: Speech.
- Elizabeth Ann Schultz, Glyndon
B.S. '49, Moorhead State Teachers College. Field of Concentration: Library Science.
- Velda Mae Sheldon, Grand Forks, N.D.
B.S. '51, University of North Dakota. Field of Concentration: Library Science.
- Aili Siltanen, Cloquet
B.S. with distinction '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Sister Margaret James Laughlin, Duluth
B.A. '44, College of St. Scholastica. Field of Concentration: Curriculum and Instruction.
- Sister Mary Theresa Mahoney, Minneapolis
B.A. '48, Columbia College. Field of Concentration: Curriculum and Instruction.
- Sister Ramona Ewen, Duluth
B.A. '43, College of St. Scholastica. Field of Concentration: Curriculum and Instruction.
- Harry Robert Skallerup, Chicago, Ill.
B.S. '52, University of Illinois; M.A. '53, Washington University. Field of Concentration: Library Science.
- LaVerne Ardis Slagel, Minneapolis
B.A. '52, College of St. Catherine. Field of Concentration: Spanish.
- Joyce Schlemmer Smith, West St. Paul
B.A. *magna cum laude* '53, University of Minnesota. Field of Concentration: Psychology.
- Mirdza Snebergs, Daugavpils, Latvia
B.A. *cum laude* '53, University of Minnesota. Field of Concentration: Library Science.
- Carl Alvin Strand, Duluth
B.A. '46, Augsburg College. Field of Concentration: Curriculum and Instruction.
- Herbert Richard Stromquist, Minneapolis
B.A. '50, B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Francis Paul Surge, Buhl
B.S. with distinction '53, University of Minnesota. Field of Concentration: Education.
- Marvin Oliver Swenson, Forsyth, Mont.
B.S. with honors '50, Montana State College. Field of Concentration: Educational Psychology.
- Daniel Peter Teisberg, Ashby
B.A. '50, Concordia College. Field of Concentration: Library Science.
- Martin Luther Thames, Jr., Bemidji
B.S. '49, University of Oklahoma. Field of Concentration: Educational Administration.
- Viola Martha Thiel, Minneapolis
B.A. '30, Hamline University; M.A. '45, University of Minnesota. Field of Concentration: Library Science.

Cora Theoline Trae, Glenville
B.S. with high honors '46, Mankato State
Teachers College. Field of Concentration:
Curriculum and Instruction.

Ivan Tilman Underdahl, Kenyon
B.S. '51, Mankato State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Bernice M. Vaughn, Minneapolis
B.E. '37, National College of Education. Field
of Concentration: Curriculum and Instruction.

Beverly May Walden, Hastings
B.S. '51, River Falls State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Karl Michael Wittman, St. Paul
B.A. '47, St. Paul Seminary. Field of Con-
centration: Latin.

Claire Mae Warweg, Farmington
B.S. '43, St. Cloud State Teachers College.
Field of Concentration: Educational Psychol-
ogy.

Charlotte Olga Westby, Bath, S.D.
B.S. '44, Northern State Teachers College.
Field of Concentration: English.

Richard Hartley Willis, Champaign,
Ill.
B.S. '49, University of Illinois. Field of Con-
centration: Psychology.

Richard Walter Winslow, Minne-
apolis
B.A. '51, University of Minnesota. Field of
Concentration: Spanish.

Master of Arts in Public Administration

George William Frost, Sidney,
Australia
B.Ec. '51, University of Sydney. Field of Con-
centration: Public Administration.

Salahuddin Qureshi, Karachi, Pakistan
B.A. '53, B.S. '53, Hamline University. Field
of Concentration: Public Administration.

Master of Business Administration

Harlis Edwin Johnson, Minneapolis
B.B.A. '50, University of Minnesota. Field of
Concentration: Business Administration.

Richard Samuel Ziegler, St. Paul
B.B.A. '53, University of Minnesota. Field of
Concentration: Business Administration.

Master of Fine Arts

John Matthew Beauchamp, Minne-
sota Lake
B.A. '49, University of Minnesota. Major:
Art (Studio). Minor: Art (History of Art).
Thesis: Mondrian's Angel.

Jean-Paul Darriau, New York, N.Y.
B.A. '51, Brooklyn College. Major: Art
(Studio). Minor: Art (History of Art). Thesis:
The Influence of Haptic Perception on the
Creation of Sculpture.

Master of Science

Syed Bazley Ali, Bogra, Pakistan
B.S. '44, M.S. '46, University of Calcutta.
Field of Concentration: Plant Pathology.

Raymond Lloyd Anderson, Wilmot,
S.D.
B.S. with distinction '51, University of Min-
nesota. Field of Concentration: Agricultural
Economics.

Upendra Kumar Banik, Calcutta,
India
B.S. '50, M.S. '52, University of Calcutta.
Field of Concentration: Animal Husbandry.

Harold Charles Boyar, Minneapolis
B.A. '50, University of Bridgeport. Major:
Zoology. Minor: Botany. Thesis: The Ecology
of *Helodrilus foetidus* (Savigny) with Special
Reference to Temperature Relationships.

Emma Morud Duncan, Minneapolis
B.S. '27, University of North Dakota. Field
of Concentration: Library Science.

Everett Elmer Gerrish, Auburn, Me.
B.S. with high distinction '50, University of
Maine. Major: Plant Genetics. Minor: Plant
Pathology. Thesis: Inheritance in *Zea mays*
L. of Resistance to the European Corn Borer
(*Pyrausta nubilalis* HBN.) and the Effective-
ness of Individual Plant Selection for This
Character.

Finis Eugene Hilton, Tulsa, Okla.
B.S. '50, D.V.M. '52, Oklahoma A & M Col-
lege. Major: Veterinary Medicine. Minor:
Physiological Chemistry. Thesis: The Pathol-
ogy of Blue Comb of Turkeys.

Linley Edward Juers, Lake City
B.S. '53, University of Minnesota. Field of
Concentration: Agricultural Economics.

Gary John Kurowski, Fargo, N.D.
B.S. with high distinction '53, University of
Minnesota. Field of Concentration: Mathe-
matics.

William Francis Simpkins, Prior Lake
B.S. '53, University of Minnesota. Field of
Concentration: Poultry Husbandry.

Clifford Swanson Lofgren, St. James
B.A. '50, Gustavus Adolphus. Major: Ento-
mology. Minor: Botany. Thesis: The Toxicity
of DDT to the American Cockroach, *Peri-
planeta americana*, When the Total Lipid
Content and the Experimental Temperatures
Are Varied.

William Tyndell McElroy, Jr.,
Shreveport, La.
B.S. '49, Louisiana State University. Major:
Physiology. Minor: Agricultural Biochemistry.
Thesis: Electrocardiogram, X-Ray and His-
tological Studies of Mice on a Diet Known
to Produce Heart Failure.

Ovidio John Mira, Nanuet, N.Y.
B.S. '50, Guilford College. Major: Bacteriol-
ogy. Minor: Agricultural Biochemistry. Thesis:
A Study of the Effects of Cortisone and
Roentgen Radiation on Experimental Polio-
myelitis.

Obaidur Rahman, Karachi, Pakistan
B.Sc. '46, Muslim University; M.Sc. '51, Sind
University. Major: Botany. Minor: Plant Pa-
thology. Thesis: Studies on the Respiration
of Corn.

Master of Science in Civil Engineering

Giorgio Bugliarello, Trieste, F.T.T. Norman LeRoy Peterson, Devils Lake,
Graduate '51, University of Padova (Italy). N.D.
Major: Civil Engineering. Minor: Mathe- B.S. '50, North Dakota Agricultural College.
matics. Thesis: The Resistance to Accelerated Field of Concentration: Civil Engineering.
Motion of Spheres in Water.

Robert James Peterson, Ironwood,
Mich.
B.S. in C.E. '49, Michigan College of Mining
and Technology. Field of Concentration: Civil
Engineering.

Master of Science in Dentistry

Paul Eugene Jurgens, Springfield, Ill. Robert Howard Linn, Madison, Wis.
D.D.S. '52, Washington University. Major: B.A. '50, University of Wisconsin; D.D.S. '47,
Dentistry. Minor: Pathology. Thesis: A Study Marquette University. Major: Dentistry.
of Efoacaine. Minor: Pathology. Thesis: Studies of Wound
Healing in the Jaws of Hamsters with Alizarin
Red S Vital Dye.

Milton Leon Westerberg, Wenatchee,
Wash.
D.D.S. '48, Washington University. Major:
Dentistry. Minor: Pathology. Thesis: Some
Laboratory and Clinical Studies Concerning
Implanted Metal Denture Bases.

Master of Science in Dermatology and Syphilology

Barton Leonard Lewis, Rochester
B.A. '47, B.S. '47, M.D. '50, University of
Minnesota. Major: Dermatology and Syphilol-
ogy. Minor: Histopathology. Thesis: The His-
tology of the Nail and Perionychial Tissue.

Master of Science in Electrical Engineering

Joseph Patrick Corrigan III, Balti-
more, Md.
B.S. '51, U. S. Naval Academy. Field of Con-
centration: Electrical Engineering.

Master of Science in Mechanical Engineering

Warren Freyschlag Wade, Minne-
apolis
B.S. with high distinction '53, B.M.E. with
high distinction '53, University of Minnesota.
Field of Concentration: Mechanical Engineer-
ing.

Master of Science in Radiology

Donn Gordon Mosser, Minneapolis
B.A. '42, M.D. '46, University of Kansas.
Major: Radiology. Minor: Pathology. Thesis:
The Roentgen Diagnosis of Lesions of the
Upper Gastro-Intestinal Tract.

Master of Social Work

Grace Marie Geisenhoff, St. Paul
B.A. '51, University of Minnesota. Field of
Concentration: Social Work.

Certificate of Specialist in Education (School Administration)

John Thomas Provinzino, Maple Lake
B.S. '42, St. Cloud State Teachers College;
M.A. '46, University of Minnesota. Major:
Educational Administration.

Doctor of Philosophy

Wendell Victor Flagg Brooks, Rockford, Ill.

B.A. '48, Swarthmore College. Major: Physical Chemistry. Minor: Mathematics. Thesis: Vibrational Intensities of the Mixed Halogen Compounds. Major Adviser: Prof. B. L. Crawford.

Edward Eugene Butler, St. Paul

B.S. '43, University of Delaware; M.S. '48, Michigan State College. Major: Plant Pathology. Minor: Botany. Thesis: Mycoparasitism of *Rhizoctonia solani*. Major Advisers: Profs. J. J. Christensen and C. J. Eide.

Reynold Paul Dahl, Willmar

B.S. with high distinction '49, M.S. '50, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Agricultural Production Lending Activities of Minnesota Country Banks. Major Adviser: Prof. E. F. Koller.

Benno G. Fricke, Regina, Saskatchewan, Canada

B.A. '48, University of Saskatchewan; B.E. '49, M.Ed. '50, University of Alberta. Major: Educational Psychology. Minor: Psychology. Thesis: The Development of an Empirically Validated Personality Test Employing Configuration Analysis for the Prediction of Academic Achievement. Major Adviser: Prof. W. E. Dugan.

Paul Russell Fridlund, Minneapolis

B.A. '42, Augsburg College; M.S. '52, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Studies on Virus Diseases Infecting Hardy *Prunus* Grown in Minnesota Nurseries. Major Adviser: Prof. C. J. Eide.

Gerald Carl Helmstadter, Omaha, Neb.

B.S. '49, M.S. '50, Iowa State College. Major: Psychology. Minor: Statistics. Thesis: The Relative Effectiveness of Varied Pattern Analysis Techniques as Applied to Non-cognitive Data. Major Adviser: Prof. K. E. Clark.

Donald Paul Hoyt, Cherokee, Iowa

B.S. '48, University of Illinois; M.A. '50, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Differential Outcomes of Counseling with College Men. Major Adviser: Prof. D. G. Paterson.

Martin Oliver Juel, Jr., San Marcos, Tex.

B.A. '37, St. Olaf College; M.Ed. '40, University of Minnesota. Major: Education. Minor: Public Health. Thesis: The Effects of Present Methods of Teaching on Attitudes of Men Students at Southwest Texas State Teachers College Toward Recreational Physical Activity. Major Adviser: Prof. C. L. Nordly.

Joseph Weiland Jung, Minneapolis

B.S. '39, M.S. '42, University of Minnesota. Major: Education. Minor: Music. Thesis: A Study of Factors Associated with Music Participation by Secondary School Pupils in the Suburban Areas of Minneapolis and St. Paul. Major Advisers: Profs. N. L. Bossing and R. J. Keller.

Wayne Kermit Kirchner, Minneapolis

B.A. *magna cum laude* '49, M.A. '51, University of Minnesota. Major: Psychology. Minor: Economics. Thesis: Attitudes Toward Employment of Older Persons. Major Adviser: Prof. D. G. Paterson.

Charles Edgar Lee, Storrs, Conn.

B.A. '30, M.A. '31, University of Saskatchewan. Major: Agricultural Economics. Minor: Economics. Thesis: Economic Effects of Sanitary Regulations Relating to Milk Markets. Major Adviser: Prof. O. B. Jesness.

Wallis Allen Lloyd, Harrisburg, Pa.

B.S. '49, Pennsylvania State College. Major: Chemical Engineering. Minor: Agricultural Biochemistry. Thesis: A Study of the Kinetics of Iron Oxide Reduction. Major Adviser: Prof. N. R. Amundson.

John Truman Ludwig, Minneapolis

B.E.E. with distinction '48, M.S. in E.E. '52, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study in the Design of Magnetic Circuits Employing Soft Magnetic Materials and Superposed A-C and D-C Magnetization. Major Adviser: Prof. H. E. Hartig.

Travis Warren Manning, Brookings, S.D.

B.S. with distinction '49, M.S. '50, Oklahoma A. & M. College. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of the Economic Efficiency of Minnesota Dairy Cooperatives. Major Adviser: Prof. E. F. Koller.

John Joseph Neumaier, Hibbing
B.A. magna cum laude '47, University of Minnesota. Major: Philosophy. Minor: Sociology. Thesis: Bertrand Russell's Social Philosophy and Its Relations to Logic, Ethics, and Sociology. Major Adviser: Prof. W. S. Sellars.

Lloyd Richard Peterson, Minneapolis
B.A. '44, Gustavus Adolphus College; M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Variable Delayed Reinforcement. Major Adviser: Prof. Kenneth MacCorquodale.

Lowell Eugene Peterson, Minneapolis
B.Ch. with high distinction '50, University of Minnesota. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: The Sorption of Gases Having Acidic and Basic Properties on Nylon Fibers. Major Adviser: Prof. L. H. Reyerson.

Willy August Poehler, St. Paul
B.D. '29, Concordia Seminary; M.A. '45, University of Minnesota. Major: Education. Minor: German. Thesis: The Appraisal of the Outcomes of Two Kinds of Pre-Ministerial Training in the Lutheran Church—Missouri Synod. Major Advisers: Profs. R. E. Eckert and R. J. Keller.

Otho James Quick, Charleston, Ill.
B.Ed. '36, Eastern Illinois State Teachers College; M.A. '46, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: Teaching and Non-Teaching Baccalaureate Degree Graduates with Industrial Arts Majors. Major Adviser: Prof. H. J. Smith.

Herbert William Samenfeld, East Orange, N.J.
B.A. '49, Drew University; M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Effect of Acceptance and Rejection Upon Attitudes and Participation in a Leaderless Group Discussion. Major Advisers: Profs. R. F. Berdie and Ben Willerman.

Roger France Sandsted, Holdrege, Neb.
B.S. '48, University of Nebraska. Major: Horticulture. Minor: Plant Genetics. Thesis: Yield of Potatoes as Influenced by Applications of Peat and Manure to a Sandy Loam Soil. Major Adviser: Prof. R. E. Nylund.

Erwin Schwinghamer, Fargo, N.D.
B.S. '49, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Physiologic Specialization and the Nature of Parasitism in *Colletotrichum linicolium* Pethyb. and Laff. Major Adviser: Prof. J. J. Christensen.

Donald George Smith, Pilot Rock, Ore.
B.S. '47, M.S. '49, University of Oregon. Major: Political Science. Minor: History. Thesis: The United Nations Trusteeship System: Origin, Principles and Practice, with Special Reference to the Status of the Inhabitants of the Trust Territories. Major Adviser: Prof. C. H. McLaughlin.

Gino Sovran, St. Paul
B.A. '45, Assumption College; B.M.E. cum laude '48, University of Detroit; M.S. '49, Northwestern University. Major: Mechanical Engineering. Minor: Mathematics and Mechanics. Thesis: The Rate and Mechanism of Drying for Wheat Middling Particles. Major Adviser: Prof. N. A. Hall.

Robert Burton Stauffer, Jr., Honolulu, T.H.
B.S. '42, West Chester State Teachers College; M.A. '47, University of Oklahoma. Major: Political Science. Minor: History. Thesis: Manchuria as a Political Entity: Government and Politics of a Major Region of China, Including Its Relations to China Proper. Major Adviser: Prof. H. S. Quigley.

Richard Arthur Swalin, Minneapolis
B.S. with distinction '51, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: Solid State Diffusion of Several Elements in Nickel at Elevated Temperatures. Major Adviser: Prof. A. E. Martin.

Kenneth Thomas Whitby, Fond du Lac, Wis.
B.S. in N.T. with high distinction '46, B.M.E. '48, University of Minnesota. Major: Mechanical Engineering. Minor: Agricultural Biochemistry. Thesis: The Mechanics of Fine Sieving. Major Adviser: Prof. N. A. Hall.

Doctor of Philosophy in Radiology

Joseph Jorgens, Minneapolis
B.S. '41, M.D. '43, M.S. in Rad. '52, University of Minnesota. Major: Radiology. Minor: Physiological Hygiene. Thesis: The Relationship Between Certain Physiological Variables and the Electrokymographic Recording of Ventricular Action. Major Adviser: Dr. L. G. Rigler.



UNIVERSITY OF MINNESOTA

Senior Reception

August 1954

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held on the terrace of the Coffman Memorial Union. In case of rain it will be in the main ballroom of the Union.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women, and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identifications.
- Those in the receiving line will be President James Lewis Morrill and Mrs. Morrill, Vice President Malcolm M. Willey, and Mr. Rod Blanchard, Senior Coordinator, All-University Congress.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1954.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.

"M"

THE
UNIVERSITY OF MINNESOTA

Announces Its

December Commencement

1954

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, DECEMBER 16

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

As a courtesy to those attending functions, and out of respect for the character of the building, be it resolved by the Board of Regents that there be printed in the programs of all functions held in the Cyrus Northrop Memorial Auditorium a request that smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms.

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota has this year celebrated its one hundred and third 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 121,000 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 20,000 students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home agents, and recreation and health consultants give effective aid and assistance to citizens of the state in their very homes.

But the University of Minnesota, like all great universities, has expanded far beyond its early teaching and training programs. In its diverse research laboratories on its three campuses, at the several agricultural experiment stations, at the Rosemount Research Center, and at the University Hospitals, its scientists at any one moment are working on countless research experiments of vital interest to the future health and welfare of all of us. These projects deal with such matters as cancer, poliomyelitis, taxation, low-grade iron ore, cheese-making, teacher training, municipal government, nuclear fission, new varieties and strains of grains and fruits, supersonics and transonics, to mention only a few.

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the Minneapolis Symphony, the University Artists Course, radio station KUOM, the University Theatre, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people, in the area it serves, artists and lecturers of quality and talent.

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University of Minnesota from 7:00 to 7:30 p.m., they will hear the Flemish bells being played from Northrop Memorial Auditorium, Mr. James Johnson, B.A. '56, carillonneur. Admission to the December commencement exercises is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

ORGAN RECITAL: From 7:30 to 8:00 p.m. Mr. Arthur B. Jennings, Associate Professor of Music and University Organist, will play:

Choral, "Break forth, O beauteous heavenly light" - - - - -	Bach
Chorale Prelude on "Lo, how a Rose e'er blooming" - - -	Brahms
Pastorale from "Le Prologue de Jesus" - - - - -	Clokey
Pièce Heroique - - - - -	Franck
Bohemian Carol - - - - -	Poister
Gesù Bambino - - - - -	Yon
Tu es petra - - - - -	Mulet
PROCESSIONAL: Prelude and Fugue in A - - - - -	Jennings

PROCESSIONAL: As candidates for degrees enter the Auditorium at 8:00 p.m., the curtain will be opened. Seated on the platform, left to right, are Mr. David K. Berninghausen, Director of the Library School, Marshal; Dr. Theodore W. Clymer, Assistant Professor of Education, Marshal; Dr. Theodore C. Blegen, Dean of the Graduate School; Mr. Maynard E. Pirsig, Dean of the Law School; Dr. Walter W. Cook, Dean of the College of Education; Dr. William G. Shepherd, Associate Dean of the Institute of Technology; Dr. Horace T. Morse, Dean of the General College; The Honorable E. E. Novak, Member of the Board of Regents; Lieutenant Colonel Jerome K. Hostetler, Assistant Professor of Military Science and Tactics; Mr. True E. Pettengill, University Recorder; Dr. James Lewis Morrill, President of the University; Dr. Millicent C. McIntosh, President of Barnard College, Columbia University, New York; Dr. Malcolm M. Willey, Vice President, Academic Administration; Dr. E. G. Williamson, Dean of Students; The Reverend Edwin Johnson, Pastor and Adviser of the Congregational-Presbyterian Fellowship on the St. Paul Campus; Colonel Kermit D. Stevens, Professor of Air Science; Mr. Huntington Miller, Assistant Dean of the General Extension Division; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Dr. Harold Macy, Dean of the Institute of Agriculture; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. William F. Maloney, Assistant Dean of the College of Medical Sciences; Mr. Roy A. Schuessler, Associate Professor of Music; Dr. Richard K. Gaumnitz, Assistant Dean of the School of Business Administration, Marshal.

Order of Events

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

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

INVOCATION: The Reverend Edwin Johnson, Pastor and Adviser, Congregational-Presbyterian Fellowship at the St. Paul Campus of the University.

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

COMMENCEMENT ADDRESS: "Knowledge, Freedom, and Responsibility," Dr. Millicent C. McIntosh, President of Barnard College, Columbia University, New York.

CONFERRING OF COMMISSIONS: Dr. Malcolm M. Willey, Vice President, Academic Administration, will introduce Lieutenant Colonel Jerome K. Hostetler, USA, Assistant Professor of Military Science and Tactics, and Colonel Kermit D. Stevens, USAF, Professor of Air Science, who will present the candidates for commissions in their respective branches of the Armed Services. The commissions will be presented by President Morrill; the oath of office will be administered by Colonel Stevens.

CONFERRING OF DEGREES: Vice President Willey will introduce the several deans or their representatives who will present the candidates for certificates and degrees in their respective colleges. These, in order of their introduction, are Assistant Dean Huntington Miller, LL.B., General Extension Division; Dean Horace T. Morse, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts and University College; Associate Dean William G. Shepherd, Ph.D., Institute of Technology; Dean Harold Macy, Ph.D., Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean Maynard E. Pirsig, LL.B., Law School; Assistant Dean William F. Maloney, M.D., College of Medical Sciences; Dean Theodore C. Blegen, Ph.D., Graduate School. All degrees will be conferred by President Morrill.

PRESENTATION OF DIPLOMAS: With Dean of Students E. G. Williamson, Ph.D., presiding, all members of the December graduating class will pass across the stage to receive their certificates and diplomas.

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

Order of Events

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

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

RECESSIONAL: Prof. Arthur B. Jennings, University Organist

Electa ut Sol - - - - - *Dallier*

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

Candidates for Commissions

Subject to the completion of all curriculum requirements at the close of the 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, Medical Service Corps

Robert Cotton King, Minneapolis

Second Lieutenant, Coast Artillery Corps

Henry Harold Baker, St. Paul
Charles Richard Chase, Minneapolis

James Courtney Friel, St. Paul

Second Lieutenant, Ordnance Corps

Patrick Warren Collins, Minneapolis

Roland Clarence Danielson, Minneapolis

Second Lieutenant, Quartermaster Corps

Richard Ray Aronson, St. Paul
William O. Bentley, Minneapolis
Roy Norman Johnson, Minneapolis

Sidney Jack Katz, Mankato
James Stewart Stubbs, St. Paul
Sydney Allan Ulvick, St. Paul

Second Lieutenant, Signal Corps

Lawrence Adolph Lundeen, Minneapolis

Roger Richards Woock, Aitkin

Second Lieutenant, Transportation Corps

Eugene Edward Campbell, Minneapolis
Charles Henry Dart, Wayzata

William Palmer Miner, Minneapolis
John Robert Schumann, Cokato

DEPARTMENT OF AIR SCIENCE AND TACTICS

Second Lieutenant, Air National Guard of the District of Columbia

Charles P. Bennett, Duluth
Donald M. Griffiths, St. Paul
Theodore E. Hanson, Robbinsdale

Raymond M. Holz, St. Paul
Robert A. Klicker, North Branch
Roger C. Nygard, Minneapolis

Second Lieutenant, USAF Reserve

John J. Donovan, Minneapolis
Orville W. Johnson, St. Louis Park
Charles P. Lundbeck, St. Paul
Howard L. Peterson, Minneapolis

Gilbert A. Robertson, Hopkins
Robert H. Schrader, St. Paul
Donald E. Tokar, Minneapolis

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Certificate

Max William Carlson, Wayzata
Anthony Maxime Chapados, Duluth

Reinie Joseph Weiss, Minneapolis

Engineering Certificate

George Neil Bacon, Minneapolis
Clare Edgar Larson, St. Paul

Luverne Charles O'Connor, Minneapolis

GENERAL COLLEGE

Associate in Arts

Richard Philip Ackerman, Minneapolis
Dennis Lee Anderson, Minneapolis
Merritt LeRoy Bartlett, Minneapolis
Olga Beczkalo, Minneapolis
Idelle Berg, Minneapolis
Barbara JoAnn Berglund, Minneapolis
Donald Albert Bergsten, Minneapolis
Frank Michel Boucher, St. Paul
Carleton Wallace Brookins, St. Paul
Burie William Carmichael, Minneapolis
Harvey James Christianson, Minneota
Maynard Jergen Eng, Duluth
Mary Louise Feyo, Minneapolis
Joseph Anthony Haas, St. Paul
Dorothy Delight Hanson, Canby
Earl Daniel Hazen, White Bear Lake
Richard Neal Hill, Minneapolis
Fred Kinsey Kane, Afton

Elwood Walter Kempter, Minneapolis
Richard Stanley Kobs, Austin
Earle Francis Kupka, St. Paul
Roger William Lemieux, Minneapolis
Ronald William O'Brien, Minneapolis
Gary Neal Olsen, St. Paul
Marilyn E. Olson, Minneapolis
John Raymond Schabert, St. Paul
Sally Fisher Schaper, Minneapolis
Stanley Thomas Schibsby, Minneapolis
Ann Simpson, Mahtomedi
Robert Owen Snyder, Anoka
Robert Kenneth Sybrant, Minneapolis
Albert Frank Taugner, St. Paul
William LeRoy Walden, Minneapolis
Robert Henry Walker, Minneapolis
Richard Ernest Wilson, Minneapolis
Rheeta Irene Witt, New Ulm
Robert J. Zerban, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Dorothy Maureen Benson, Royalton
Mary Joan Blanchard, Pine City
Glenn William Bones, Minneapolis
Hugh Thomas Cardenas, Minneapolis
Marie Pauline Graber, Minneapolis
Elizabeth Ann Hansen, Wadena
Genevieve Irene Jonak, Minneapolis
George Frederic Kuettner, Jr., St. Paul
Marcia Gay Larson, Virginia
Mary Anastasia Manick, Minneapolis
William James McGlone, Jr., Minneapolis

Richard Francis McNamara, Hastings
Barbara Ann Ness, Minneapolis
Adeline Mae Neumann, Annandale
Duane L. Petersen, Minneapolis
Janet Elizabeth Petersen, Minneapolis
Mary Dustin Platt, St. Paul
William John Robinson, Minneapolis
William Nelson Spellacy, St. Paul
Anna Grant Valentine, St. Paul
Matthew Richard Walsh, Jr., Minneapolis
James Andrew Wishy, Osseo

Bachelor of Arts

Ronald Thomas Abdo, Minneapolis
George Leilani Ah Tou, Hilo, T. H.
Bertram Carl Anderson, Wayzata
Stuart Applebaum, St. Paul
Arlene Locketz Arenson, A.L.A.,
Minneapolis
Marilyn Winifred Avalear, B.A.,
Cooksburg, Pa.
Henry Harold Baker, St. Paul
John Edward Baumann, Winona
Martin Alan Bell, Minneapolis
Peter John Benson, Minneapolis
William Oliver Bentley, Minneapolis
Anne Elizabeth Boos, Wayzata
Janet Inez Brusell, St. Paul
Lester John Bullock, Minneapolis,
MAGNA CUM LAUDE
Paul Joseph Burns, Rochester, N. Y.,
MAGNA CUM LAUDE
James Weaver Butters, Minneapolis
Virginia Pilla Carletta, St. Paul
Patrick Warren Collins, Minneapolis
James Curtis Dahl, Kiron, Iowa
Albert Allen Damrose, A.A., St. Paul
Russell Eugene Davis, Minneapolis
Lois Ruth Diesing, St. Paul, CUM
LAUDE
John Joseph Donovan, Jr., Albert Lea
Mary Joan Dvorak, Minneapolis
David William Eagle, Crookston

George Thomas Eggen, Minneapolis
Jon Alden Ekstrand, A.A., St. Paul
William Stegner Fuhrmann, St. Paul
Sara L. Geneteau, Panama
Robert Ashley Gibbens, St. Paul
Donald Milburn Griffiths, St. Paul
Donald Leo Grimes, St. Paul
Juola Arneson Haga, Golden Valley,
CUM LAUDE
Jerry Hugh Hall, Kennebec, S.D.
Helen Jane Hartfiel, St. Paul
James A. Hodgins, St. Paul
Mary Ann Janisch, St. Paul, SUMMA
CUM LAUDE
David Charles Johnson, Princeton
Helen Lorraine Johnson, Hopkins,
MAGNA CUM LAUDE
Orville Wright Johnson, St. Louis
Park
Roy Norman Lewis Johnson, Minne-
apolis
Edwin Hill Jolley, Chesson, Ala.
Eddie Bruce Kantar, Minneapolis
Sidney Jack Katz, Mankato
Robert Cotton King, St. Louis Park
Robert Arnold Klicker, North Branch
Lois Marie LaBissoniere, A.L.A., St.
Paul
Stanley James Lins, Cologne, CUM
LAUDE

Charles Roger Lundbeck, St. Paul
 Richard Lee Lysaker, A.A., Duluth,
 MAGNA CUM LAUDE
 Harvey Bennett Mackay, St. Paul
 Robert David Mason, St. Paul
 Constance Mary Matson, Minneapolis
 Edgar Lincoln Mattson, A.A., Minne-
 apolis
 Margaret Elizabeth McElmury, Min-
 neapolis
 Lee Emmett Mickelson, Biwabik
 William Palmer Miner, Minneapolis
 Kathryn Lenore Moe, Virginia, CUM
 LAUDE
 Dwayne Allan Netland, Willmar
 James William O'Connor, White
 Bear Lake
 Marilyn Joan Porter, Minneapolis,
 CUM LAUDE
 Theodore Robert Richer, Mason City,
 Iowa
 Chris Ringham, Jr., Albert Lea
 Wallace Henry Russell, St. Paul

Charles Brumback Schneider, Minne-
 apolis
 John Robert Schumann, Cokato
 Pearly R. Schwartz, Minneapolis
 June M. Madland Simon, St. Paul
 Terence Galvin Sommer, St. Paul
 Sally Edith Sperling, Minneapolis,
 MAGNA CUM LAUDE
 Forest Snow Sutton, Hoffman
 Mary Camille Stewart Swanson, St.
 Cloud
 Veronica Ann Szasz, Minneapolis,
 MAGNA CUM LAUDE
 Helen Elizabeth Truesdale, Palmer-
 ton, Pa.
 Harold Allyn Ulseth, Minneapolis
 Sydney Allan Ulvick, St. Paul
 Elizabeth Velie, Long Lake
 Dennis Norman Weber, A.A., Minne-
 apolis
 Joan Marie Wold, Northfield
 John Amadeus Wolter, St. Paul
 Roger Richards Wooock, Aitkin

Bachelor of Science

Gladys Lorraine Johnson, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Nancy Ann Hite, Minneapolis, CUM LAUDE

Bachelor of Science

Michael Phillip Kuller, St. Paul

Jerold John McGill, Minneapolis

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Edward Frank Hampl, Jr., St. Paul

William Bovey Owen, Wayzata, WITH
 DISTINCTION

Bachelor of Aeronautical Engineering

Howard Lorenzo Peterson, Blooming
 Prairie

Raymond Emil Toussaint, Gibbon

Bachelor of Agricultural Engineering

Deane Monroe Manbeck, Little Falls

Bachelor of Architecture

Wayne Leroy Harmala, Saginaw
Yaroslav Alex Korsunsky, St. Paul
Lyle George Landstrom, B.A., Minne-
apolis, WITH DISTINCTION
Wilbert Gustaf Peterson, St. Paul
Lawrence Eugene Rice, St. Paul

Alden Clyde Smith, B.A., Minne-
apolis
Gardner Clifton Sorum, B.A., Crook-
ston
Thomas Corwin Van Housen, B.A.,
St. Paul

Bachelor of Chemical Engineering

James Robert Zuehlke, Minneapolis

Bachelor of Chemistry

Eugene Carlyle Johnsen, Minneapolis, WITH DISTINCTION

Bachelor of Civil Engineering

Richard Divinski, Ortonville
Harold Gordon Israelson, Minneapolis

Burnell Tilford Roble, Spring Grove

Bachelor of Industrial Engineering

Hartley Edwin Conrad, Duluth
James Edward Johnson, B.B.A., Min-
neapolis

*William Arthur Moy, St. Paul, WITH
DISTINCTION*

Bachelor of Mechanical Engineering

Hartley Edwin Conrad, Duluth
James A. Day, Minneapolis
David Richard Engstrom, Belgrade
Oscar Morris Hagen, Dunseith, N.D.

William Patrick Malone, Minneapolis
Richard Otto Niemann, New Ulm
George Allan Woodward, Ladysmith,
Wis.

Bachelor of Metallurgical Engineering

Robert Henry Goodin, Minneapolis

Bachelor of Mining Engineering

Arthur Frank Colombo, A.S., Eveleth John Henry Kruger, Jr., St. Paul

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

Bachelor of Science

- Orville M. Gunderson, Minneapolis, Agriculture, WITH DISTINCTION
Dale Norman Hendrickson, Olivia, Agriculture
Patricia Ann Hutton, Harmony, Home Economics
Mary Antonia Kisor, South St. Paul, Home Economics
Helmi Asta Luik, Robbinsdale, Dietetics
Paul Edward Lofgren, Hallock, Agriculture
Henry Joseph Menke, Jordan, Fishery and Wildlife Management
Joan Warwick Neibling, Minneapolis, Home Economics
Margaret Jean Neibling, Minneapolis, Home Economics
Floyd Palmer Olson, Plato, Agriculture
Earlene Myrtrice Petrie, St. Paul, Home Economics
Glenn Edward Reamer, Hastings, Forestry
Robert Hutton Schrader, St. Paul, Agriculture
Gordon Lowell Schroeder, New Ulm, Agriculture
Barbara Stuart, Minneapolis, Home Economics
Girard Boylan Vandercar, Chicago, Ill., Forestry
Douglas R. West, Minneapolis, Fishery and Wildlife Management

COLLEGE OF EDUCATION

Bachelor of Science

- Thomas Nelson Bell, Windom
Charles Paul Bennett, Duluth
Miriam Claire Berg, Round Lake,*
WITH HIGH DISTINCTION
Mary Elizabeth Cushner, Stillwater
Martha Worth Doan, B.A., Duluth
Beverly Ann Nyberg Dockstader, Minneapolis
Richard Leo Dougherty, A.A., International Falls
Ronald Theodore Finnegan, West St. Paul
Laura Alice Fjeldstad, Livingston, Mont.
David Myrlan Flugstad, Montevideo
Carol M. Hagestad, A.L.A., Minneapolis
Betty Sargent Hammack, B.A., Minneapolis
Dennis Herbert Hanson, St. James
Inger Marie Hendrickson, Eau Claire, Wis.
Richard Duane Hugunin, Jackson
Marjorie Vaughn Jenkins, B.A., Minneapolis
Evelyn Naoe Kimura, Wahiawa, Oahu, T.H.,* WITH HIGH DISTINCTION
Gladys Elaine Kleindon, Minneapolis
Nancy Ellen Knapton, St. Paul
Marilyn Josephine Larson, Lindstrom, WITH DISTINCTION
Adeline Clarice Leraas, Barrett,* WITH HIGH DISTINCTION
Ruth Gay Margulies, Minneapolis

* Nursing Education Curriculum

Pauline Eloise JoAnne Melin, Minneapolis*
 Arlene Joyce Meyer, Omaha, Neb.,
 WITH DISTINCTION
 Leah Lamkins Miller, Minneapolis
 Marjorie Adelia Dixon Morton, Franklin, Va.*
 Mary Lynn Olmstead, Minneapolis
 Eunice Helen Peterson, Chisholm,*
 WITH DISTINCTION
 Robert Preston Pettengill, A.A., Minneapolis
 Joseph Anthony Polunc, Sr., B.A., Minneapolis
 Jean Weeding Rifley, Minneapolis
 Barbara Augusta Nygaard Sheets, Minneapolis

Marjorie Lucile Short, Minneapolis
 Irene Kazuko Takishima, Honolulu, T.H.*
 Ellen June Thomsen, Minneapolis,
 WITH DISTINCTION
 Valerie Muir Thorsen, Jackson, WITH DISTINCTION
 Jennie Vander Linden, Grand Rapids, Mich.*
 Alfred William Walck, B.A., Rochester
 Ruth White, B.S., Waukesha, Wis.,*
 WITH DISTINCTION
 Barbara Jeanne Bank Williams, B.A., St. Charles

Master of Education

Mildred Breiland Hartleben, B.S., Thief River Falls
 James William Scheu, B.S., Minneapolis

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

Bachelor of Science

Ruth Elnor Abrahamson, Canton, Home Economics Education, WITH DISTINCTION
 Margaret Jane Austbo, Redwood Falls, Home Economics Education
 Joanne Marie Fay, St. Paul, Home Economics Education
 Gael Marie Gross, Minneapolis, Home Economics Education
 Jerry Mae Jacobs, Verndale, Home Economics Education
 MaryLou Jensen, LeRoy, Home Economics Education
 Donna Mae Lenart, Minneapolis, Home Economics Education

Lois Anne Magnuson, Minneapolis, Home Economics Education
 Mildred Marie Magnuson, Minneapolis, Home Economics Education
 Mary Elizabeth Peck, Minneapolis, Home Economics Education
 Mary Lou Peterson, Chisago City, Home Economics Education
 Jean Alice Snellman, Minneapolis, Home Economics Education
 Donna Marie Sutton, Saum, Home Economics Education
 June Louise Wagner, Ortonville, Home Economics Education
 Devona Mary Zarecky, Ward, S.D., Home Economics Education

* Nursing Education Curriculum

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Ronald Luverne Aase, Thief River Falls

George Albert Anderson, Faribault

Curtis Richard Beckman, Minneapolis

Verdayne Walter Benson, Minneapolis, WITH DISTINCTION

Damon Maynard Black, Minneapolis

Carl Alvin Boeder, Minneapolis

Marlin Theodore Brandt, Minneapolis

Kathryn Ann Burger, A.L.A., St. Paul

Eugene Edward Campbell, Minneapolis

Roger Allan Carlson, Minneapolis

James Jerome Casey, St. Paul

Conrad Theodore Coen, Pine Island

Roland Clarence Danielson, Minneapolis

James William Dombrosky, St. Paul

Robert Henry Gambill, Jr., A.A., Rochester

Gerald D. Gulbrandson, A.A., Albert Lea

Theodore Edgar Hanson, Robbinsdale

Kenneth Paul Jaeb, Minneapolis

Robert William Jensen, Stillwater

Clarion Walter Karvonen, Minneapolis

Alfred LeRoy Kleinke, Sebeka

John Kenneth Lynde, Jr., St. Paul

Roger Herman Mattson, Forest Lake

Ray Kuniteru Mayeda, San Diego, Calif.

Stanley Holman Moberg, Minneapolis, WITH DISTINCTION

Eugene Oscar Modig, St. Paul

Michael Joseph Murphy, Jr., Ely, WITH DISTINCTION

Roger Carlton Nygard, Minneapolis

John Andrew Perzel, Minneapolis

George David Poulter, Minneapolis

Donnell Thaddeus Reither, Minneapolis

James Elliot Roberts, Minneapolis

Edward Allen Schroer, Minneapolis, WITH DISTINCTION

George William Steed, St. Paul

Donald Eugene Tokar, Minneapolis, WITH DISTINCTION

Louis James Yelich, Ironwood, Mich.

Bachelor of Science in Economics

Vernon Donald Gallagher, Jr., Minneapolis

Gilbert A. Robertson, Hopkins

Walter Ernst Simonson, Minneapolis, WITH DISTINCTION

LAW SCHOOL

Bachelor of Science in Law

Clinton Allan Schroeder, Fergus Falls

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

- Lois Latham Erlandson, Minneapolis, Occupational Therapy§
Kathryn Ann Grave, B.A., M.A., Minneapolis, Medical Technology, WITH HIGH DISTINCTION†
Eileen Ann Halabrin, Binghamton, N.Y., Medical Technology†
Raymond Howard Holz, Rosemount, Medical Technology†
Marillyn Jeane Letnes, Nielsville, Medical Technology†
Shirley Marie Macek, Adams, Mass., Public Health Nursing, WITH DISTINCTION
Sara Jean McCarron, A.A., Mason City, Iowa, Medical Technology†
- Mary Amelia Roepke, St. Paul, Occupational Therapy, WITH DISTINCTION
Rene Lillian St. Germain, St. Paul, Medical Technology†
Regina Vija Vijums, Minneapolis, Medical Technology, WITH DISTINCTION†
Leona Terese Waligora, St. Paul, Public Health Nursing
Elaine Dorothy Westlund, Atwater, Public Health Nursing
Irene Minnie Will, Lake City, Public Health Nursing, WITH DISTINCTION
Delores Marie Wynnemer, Thief River Falls, Medical Technology†

GRADUATE SCHOOL

Master of Arts

- Frances Ahern, Wayne, Neb.
B.A. '47, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Japanese Emperor in the Governmental Reorganizations of A.D. 645-967.
- Lois Dorothy Anderson, Alexandria
B.S. with high distinction '49, University of Minnesota. Field of Concentration: Educational Psychology.
- Myron George Anderson, Minneapolis
B.A. *summa cum laude* '51, University of Minnesota. Major: Philosophy. Minor: Psychology. Thesis: Meaning and Analytic Truth—A Critique of the First Book of Lewis' *Analysis of Knowledge and Valuation*.
- Arthur Lewis Anthony, Winnebago
B.S. with honor '52, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.
- Bertha Friedman Aronson, Minneapolis
B.S. '25, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Robert Elmore Balay, Wichita, Kan.
B.A. '52, Macalester College. Field of Concentration: English.
- Richard Alexander Bechtle, Esslingen, Germany
Graduate '51, University of Tubingen. Major: German. Minor: History. Thesis: Gerhart Hauptmann "Griechischer Frühling" und Hugo von Hofmannsthal "Augenblicke in Griechenland."
- Nicholas Joseph Begich, Eveleth
B.S. '52, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

§ Degree conferred as of June 12, 1954

† These degrees are conferred subject to the satisfactory completion of practical work prior to March 17, 1955

Edward John Behmler, Mound
B.A. '34, Carleton College. Field of Concentration: Educational Psychology.

John Hargrave Bens, St. Paul
B.S. '49, University of Minnesota. Field of Concentration: American Studies.

Johan O. Berge, Mound
B.A. '35, Concordia College. Field of Concentration: Educational Administration.

Roger Seymour Carlson, Minneapolis
B.S. with high distinction '52, University of Minnesota. Field of Concentration: Business Administration.

Jack Vernon Chapman, St. Paul
B.A. '49, University of Colorado. Field of Concentration: Speech.

Raymond Martin Davoli, St. Paul
B.S. '48, University of Minnesota. Field of Concentration: Industrial Education.

Donald Joseph Dorgan, St. Paul
B.E. '32, River Falls State Teachers College. Field of Concentration: Curriculum and Instruction.

Wayne Eldo Ebert, Clarion, Iowa
B.A. '43, Iowa State Teachers College. Field of Concentration: Educational Administration.

Gertrude Elliff, Minneapolis
B.S. '23, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Virginia Bohan Erdman, St. Paul
B.A. '37, University of Minnesota. Field of Concentration: Psychology.

John James Feda, Alexandria
B.A. '50, St. John's University. Field of Concentration: Educational Administration.

Edroy Clarence Flom, Benson
B.S. '48, University of Minnesota. Field of Concentration: Industrial Education.

Wilmer Franklin Fure, Chatfield
B.A. '48, Luther College. Field of Concentration: Educational Administration.

Dwaine Edward Ganyo, Warroad
B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Robert Clifford Goldstrand, Minneapolis
B.S. '47, University of Minnesota. Field of Concentration: Educational Administration.

James William Gray, Muenster, Saskatchewan, Canada
B.A. '49, St. John's University. Field of Concentration: English.

James Albert Grunerud, Waseca
B.E. '49, B.A. '50, University of Saskatchewan. Field of Concentration: Educational Administration.

Warren Olaf Hagstrom, Minneapolis
B.A. *magna cum laude* '52, University of Minnesota. Major: Sociology. Minor: Philosophy. Thesis: A Study of the Relationship Between Personality Adjustment and Conformity to Experimentally Developed Perceptual Norms.

Alvin Russell Hanson, Rochester
B.S. '50, Drake University. Field of Concentration: Curriculum and Instruction.

Dale Harlan Helgesen, Lake Mills, Iowa
B.A. '47, B.S. '50, University of Minnesota. Field of Concentration: English.

Margaret Aileen Hogan, Rock Springs, Wyo.
B.A. '41, University of Kansas. Field of Concentration: Statistics.

Norman Severt Holte, Mankato
B.S. '45, University of Minnesota. Field of Concentration: History.

Constance Mae Isaacson, Minot, N.D.
B.A. '53, University of Minnesota. Field of Concentration: Speech.

Norman Alden Jensen, St. Louis Park
B.S. '34, Stout Institute. Field of Concentration: Industrial Education.

James Albert Johnson, St. Paul
B.A. '53, University of Minnesota. Major: Speech. Minor: English. Thesis: An Instrumental Analysis of Familial Voice Similarities.

Ross Eugene Johnson, Maynard
B.S. '50, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Paul A. Kaylor, Jr., Ponca City, Okla.
B.A. '50, Oklahoma A. & M. College. Field of Concentration: Psychology.

George H. Kirkeby, St. Paul
B.A. '39, Luther College. Field of Concentration: Educational Administration.

Leslie Albert Knuti, Esko
B.A. '33, Hamline University. Field of Concentration: Curriculum and Instruction.

- Robert Earl Kuhl, Waseca
B.S. '49, University of Minnesota. Field of Concentration: Industrial Education.
- Judith Kramer Leventman, New York, N.Y.
B.A. magna cum laude '53, Barnard College. Major: Sociology. Minor: English. Thesis: The Social Role of the Literary Critic.
- Joan Love, Minneapolis
B.A. '50, University of California, Los Angeles. Field of Concentration: Sociology.
- Harold Irving Lunde, Austin
B.A. '52, St. Olaf College. Field of Concentration: Economics.
- Gertrude Louise Luttgen, Minneapolis
B.S. with distinction '45, University of Minnesota. Field of Concentration: Child Welfare.
- Arthur F. Mellenthin, Forest Lake
B.S. '43, Mankato State Teachers College. Field of Concentration: Educational Administration.
- Harold Clarence Melsness, Edmonton, Alberta, Canada
B.Sc. '43, University of Alberta. Field of Concentration: Educational Administration.
- Joseph Phillip Miglio, LaSalle, Ill.
B.S. '50, Stout Institute. Field of Concentration: Industrial Education.
- Arild Verner Mikkelsen, Minneapolis
B.A. '49, Hamline University. Field of Concentration: Educational Psychology.
- Matias Moldestad, Oslo, Norway
Diploma '52, Norwegian School of Economics and Business Administration. Field of Concentration: Economics.
- Clarence Cowan Mondale, St. Paul
B.A. '47, Macalester College. Field of Concentration: American Studies.
- Earl Lamie Morrissette, Mahtomedi
B.S. '39, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Elmer Arthur Mueller, St. Paul
B.S. '42, University of Minnesota. Field of Concentration: Industrial Education.
- Rose Mary Nahra, Hazel Park, Mich.
B.S. with honor '49, Michigan State College. Field of Concentration: Physical Education.
- Lois A. F. Nottbohm, Wausau, Wis.
B.S. '47, University of Wisconsin. Field of Concentration: Educational Psychology.
- Joseph L. Nyomarkay, Minneapolis
B.A. cum laude '53, University of Minnesota. Major: International Relations. Thesis: The Organization of Eastern Europe, 1945-1952: A Type of Regional Organization.
- Margaret Jane O'Brien, Minneapolis
B.A. '49, College of St. Catherine. Field of Concentration: Curriculum and Instruction.
- John E. Oist, Cloquet
B.A. '43, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.
- Donald Arthur Opdahl, St. Paul
B.A. '53, University of Minnesota. Field of Concentration: Journalism.
- Robert Arthur Peterson, Rice Lake, Wis.
B.S. '50, Eau Claire State Teachers College. Field of Concentration: Educational Psychology.
- Rosalynd C. Pflaum, Wayzata
B.A. summa cum laude '45, University of Minnesota. Major: French. Minor: English. Thesis: Le Romantisme Sociale dans des Oeuvres Choisies de George Sand.
- James Robert Rainbow, Anoka
B.S. with distinction '54, University of Minnesota. Field of Concentration: Industrial Education.
- John S. Rothamel, Charles City, Iowa
B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Donald James Scanlan, Preston
B.S. '47, Winona State Teachers College. Field of Concentration: Educational Administration.
- Mary Morris Schmidt, Minneapolis
B.A. '47, University of Minnesota. Field of Concentration: Art.
- Roland Leonard Schmidt, Wabasha
B.S. '47, Winona State Teachers College. Field of Concentration: Educational Psychology.
- John Sumner Schroedl, Minneapolis
B.A. '53, College of St. Thomas. Field of Concentration: Economics.
- Arthur Robert Scott, Medford, Ore.
B.S. '45, Duluth State Teachers College. Field of Concentration: Educational Administration.
- Robert Herman Shager, St. Paul
B.S. '50, Eau Claire State Teachers College. Field of Concentration: Curriculum and Instruction.

John Kendall Sheldon, Watertown, S.D.
B.A. '49, St. Olaf College. Field of Concentration: Education.

Vinay Kumar Singh, Baranadi (Aligarh), India
B.A. '49, Agra University; M.A. '51, Patna University. Field of Concentration: Psychology.

Doris Elizabeth Skalstad, Eau Claire, Wis.
B.A. '53, Wisconsin State College, Eau Claire. Field of Concentration: Library Science.

Joseph Melburn Soneson, Minneapolis
B.A. '50, University of Minnesota. Major: Philosophy. Minor: History. Thesis: An Examination of Nicolas Berdyaev's Theory of Ethics.

John William Stetler, Robbinsdale
B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Eldon John Steuernagel, Owatonna
B.S. '48, Winona State Teachers College. Field of Concentration: Educational Administration.

Vera G. Stoehr, Minneapolis
B.A. '49, Roosevelt College. Field of Concentration: Library Science.

Milner Ingolf Stove, Walnut Grove
B.Ed. '39, Whitewater State Teachers College. Field of Concentration: Curriculum and Instruction.

Helen Rose Tieszen, Marion, S.D.
B.A. '49, Bethel College; B.S. '50, University of Minnesota. Field of Concentration: Child Welfare.

Lillian Lucille Wakefield, St. Paul
B.S. '39, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Jones Morton Walker, Dumas, Tex.
B.F.A. '48, Texas Christian University. Field of Concentration: Speech.

Raymond Christian Wirth, Bismarck, N.D.
B.A. '48, Concordia College. Field of Concentration: Educational Psychology.

William David Wolking, Westfield, N.J.
B.A. '50, Macalester College. Field of Concentration: Psychology.

James Edward Woods, St. Paul
B.A. '52, University of Minnesota. Field of Concentration: Psychology.

James Juei-chin Yeh, Tainan, Formosa
B.S. '50, National Taiwan University. Field of Concentration: Mathematics.

Selvin Merlin Zabel, St. Paul
B.S. '49, Stout Institute. Field of Concentration: Industrial Education.

Master of Arts in Public Administration

Geoffrey Yates Cornog, Media, Pa.
B.A. '52, Antioch College. Field of Concentration: Public Administration.

Wallace Yoshio Kunioka, Koloa, Kauai, T.H.
B.S.B.A. '52, University of Denver. Field of Concentration: Public Administration.

Master of Business Administration

Carl Luverne Carlson, Minneapolis
B.B.A. '42, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: Reduction of Manpower Costs Through Efficient Selection of Truck Drivers.

Arne S. Giske, Aalesund, Norway
Graduate '49, Stockholm School of Economics. Field of Concentration: Business Administration.

John Charles Klettenberg, Minneapolis
B.A. '49, University of Minnesota. Field of Concentration: Business Administration.

Donald Pratt Moffet, Rochester
B.B.A. '54, University of Minnesota. Field of Concentration: Business Administration.

Robert Lincoln Murdy, II, Aberdeen, S.D.
B.B.A. with distinction '50, University of Minnesota. Field of Concentration: Business Administration.

Master of Fine Arts

Thomas Stern Fern, Minneapolis
B.S. with distinction '52, University of Minnesota. Major: Art. Minor: English. Thesis: Space in the Paintings of the French Impressionists.

Master of Forestry

Allen Lloyd Lundgren, St. Paul
B.S. '51, University of Minnesota. Field of Concentration: Forestry.

Master of Science

Bruce Norman Bastian, Dixon, Ill.
B.A. cum laude '50, Coe College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Reinvestigation of the Structure of " β -Epichlorohydrin."

Olav Bowitz, Stavanger, Norway
Graduate '52, University of Oslo. Major: Physical Chemistry. Minor: Mathematics. Thesis: Intensity Studies of the Fundamentals of Ethane.

John Edward Gander, Corvallis, Mont.
B.S. '50, Montana State College. Major: Agricultural Biochemistry. Minor: Dairy Husbandry. Thesis: Some Relationships of Dietary Fat to Blood and Fecal Constituents of Dairy Calves and Rats.

Robert Leslie Graham, Austin
B.A. '52, Mankato State Teachers College. Field of Concentration: Inorganic Chemistry.

Marvin D. Grosslein, Minneapolis
B.S. '51, University of Minnesota. Major: Fishery and Wildlife Management. Minor: Botany. Thesis: Some Phases of the Life History of the Goldeye, *Amphiodon alosoides* (Rafinesque), with Particular Reference to the Red Lakes Commercial Fishery.

Clifton Frederick Halsey, Stillwater
B.S. with high distinction '49, University of Minnesota. Major: Soils. Minor: Agronomy. Thesis: The Effect of the Time of Application of Commercial Fertilizers on the Yield of Corn, Oats, and Hay.

Bertha Ann Lewis, Lewisville
B.Chem. '49, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Structural Correlation of the Glycosides of the Methylpentose Sugars.

Lois Ann Lund, Thief River Falls
B.S. with distinction '49, University of Minnesota. Major: Home Economics. Minor: Home Economics Education. Thesis: The Effect of Methods of Preparation on the Retention of Ascorbic Acid and Dehydroascorbic Acid of Raw and Cooked Vegetables.

Souhail Abdulmessih Massouh,
Tripoli, Lebanon
C.E. '51, École Supérieure d'Ingénieurs (Beirut). Field of Concentration: Public Health.

Patricia Ann McVeigh, Detroit, Mich.
B.S. with distinction '53, University of Michigan. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Application of Nef Reaction Conditions to 5-Nitrobicyclo(2.2.1)-2-Heptene.

Richard Morris Prentice, Winnipeg,
Manitoba, Canada
B.S.A. '50, University of Manitoba. Major: Entomology. Minor: Plant Pathology. Thesis: The Life History and Some Aspects of the Ecology of the Large Aspen Tortrix, *Archips conflictana* (Wlk.).

Sigmund Henry Restad, Duluth
B.S. '53, University of Minnesota. Field of Concentration: Dairy Husbandry.

Sidney G. Roberts, Detroit, Mich.
B.S. '43, Hamline University. Major: Metallurgy. Minor: Physical Chemistry. Thesis: Fe-Fe₃C Equilibria.

Antonio E. Rodriguez, Ramos Arizpe,
Coahuila, Mexico
Ing. Agr. '52, Escuela Superior de Agricultura "Antonio Narro" (Mexico). Major: Plant Pathology. Minor: Plant Genetics. Thesis: Seedling Blight of Corn as Affected by Treatments of the Parent Plants.

Harlund G. Routhe, Redwood Falls
B.S. with distinction '51, University of Minnesota. Field of Concentration: Agricultural Economics.

Vera Ernestine Schlegel, Milwaukee, Wis.

B.S. '52, University of Wisconsin. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Role of Certain Molds in the Deterioration of Stored Wheat and on the Inhibition of Their Growth by Carbon Dioxide.

Sister Paul Litecky, St. Paul

B.A. '46, College of St. Catherine. Field of Concentration: Agricultural Biochemistry.

Bernardo A. Taborda, Medellin, Colombia

Graduate '46, University of Colombia. Field of Concentration: Geology.

James Arthur Vermilya, Westerville, Ohio

B.A. '52, Oberlin College. Field of Concentration: Botany.

Eileen Elizabeth Zeitler, St. Charles

B.S. '51, Purdue University. Major: Home Economics. Minor: Education. Thesis: The Influence of Pyridoxine and Pantothenic Acid Deficiencies on the Growth of Heterologous Tumors.

Master of Science in Anesthesiology

Ali Gharib, Tehran, Iran

M.D. '39, University of Tehran. Major: Anesthesiology. Minor: Physiology. Thesis: Influence of Demerol and Nembutal on Arterial Ether Blood Concentration in Man Undergoing Surgery.

Master of Science in Chemical Engineering

Donald Raymond Mosher, Minneapolis

B.Ch.E. '53, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Two-Phase, Steam-Water, Pressure Drops.

Master of Science in Civil Engineering

Rodney Wendell Johnson, Duluth

B.C.E. '50, University of Minnesota. Major: Civil Engineering (Soils Mechanics and Highway Engineering). Minor: Civil Engineering (Surveying). Thesis: An Investigation of Frost Penetration Under Bituminous Pavement.

James Emmet Peterson, Minneapolis

B.C.E. '50, University of Minnesota. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Thomas Michael Terpinas, Frankfort, Ind.

B.A. '44, D.D.S. '50, University of Indiana. Major: Dentistry. Minor: Surgical Pathology. Thesis: An Investigation of the Oxygen Saturation of Arterial Blood During Anesthesia for Oral Surgery as Determined by the Modified Millikan Oximeter.

Master of Science in Dermatology and Syphilology

Helen Maria Roberts, Rochester
M.B.,Ch.B. '49, University of Edinburgh.
Major: Dermatology and Syphilology. Minor:
Dermato-histopathology. Thesis: Dermatomyo-
sitis in Childhood.

Master of Science in Electrical Engineering

Robert Wayne Kulterman, Duluth
B.A. *summa cum laude* '51, Augsburg College.
Major: Electrical Engineering. Minor: Mathe-
matics. Thesis: The Effects of Rectifier Char-
acteristics and Load Circuit and Control Cir-
cuit Resistances on the Performance of Mag-
netic Amplifiers.

Master of Science in Medicine

Cletus Troy Frerichs, Coleridge, Neb.
B.S. '46, Miami University; M.D. '47, Univer-
sity of Nebraska. Major: Medicine. Minor:
Hematology. Thesis: The L. E. Cell Phenomenon in Rheumatoid Arthritis.

Edwin John Kroeker, Winnipeg,
Manitoba, Canada

M.D.,C.M. '47, McGill University. Major:
Medicine. Minor: Physiology. Thesis: Com-
parison of Central and Peripheral Arterial
Pressure Pulses in Man.

Jaime Paris, Bogota, Colombia

M.D. '48, Syracuse University. Major: Medi-
cine. Minor: Physiology. Thesis: The Effect of
Hormones on the Renal Clearance of Radio-
Iodine in the Rat.

Arnold Gerald Rogers, Winnipeg,
Manitoba, Canada

M.D. '50, University of Manitoba. Major:
Medicine. Minor: Physiology. Thesis: Chronic
Ulcerative Colitis: Early and Late Results in
124 Patients with Ileac Stomas Made in the
1940-49 Decade.

Harry Moody Simpson, Jr., Florence,
Ala.

M.D. '50, University of Alabama. Major:
Medicine. Minor: Pathologic Anatomy. Thesis:
Primary Malignant Tumors of the Liver.

Master of Science in Neurosurgery

Andrew Lee Karavitis, Salt Lake City,
Utah

B.A. '45, M.D. '48, University of Utah. Major:
Neurosurgery. Minor: Neuropathology. Thesis:
Ependymomas and Oligodendrogliomas of the
Thoracic Portion of the Spinal Cord.

Master of Science in Obstetrics and Gynecology

G. T. Jim Foust, Jr., Denver, Colo.

B.S. '38, Virginia Military Institute; M.D. '42,
University of Virginia. Major: Obstetrics and
Gynecology. Minor: Surgical Pathology. Thesis:
A Study of Tuberculosis of the Female Geni-
tal Organs with Emphasis on the Endo-
metrium.

Master of Science in Ophthalmology

Clair Francis Benoit, Winnipeg,
Manitoba, Canada

M.D. '43, University of Manitoba. Major:
Ophthalmology. Minor: Pathology. Thesis:
Retinal Changes Associated with Pressure on
the Eyeball During Anaesthesia.

Mary Lomas Price, Rochester

M.B., Ch.B. '47, University of Aberdeen (Scot-
land). Major: Ophthalmology. Minor: Surgi-
cal Pathology. Thesis: Papilloma of the Con-
junctiva: A Study of a Series of 22 Cases.

Master of Science in Orthopedic Surgery

Robert Joe Burleson, Decatur, Ala.

B.A. '39, University of Alabama; M.D. '43,
University of Louisville. Major: Orthopedic
Surgery. Minor: Surgical Pathology. Thesis:
Popliteal Cysts: A Clinico-Pathological Study.

Master of Science in Pathology

Joseph Daniel Mann, Rochester

B.S. '45, M.D. '47, University of Minnesota.
Major: Pathology. Minor: Clinical Pathology.
Thesis: Lymphocytes in the Lymph from
Thoracic Duct, Intestinal, and Hepatic Lymph
Fistulae.

Jose Sanchez, Guadalajara, Mexico

M.D. '48, University of Guadalajara. Major:
Pathology. Minor: Neuropathology. Thesis:
Medulloblastomas. A Pathological Study of
139 Cases.

Master of Science in Pediatrics

John Lemuel Gwinn, Corydon, Ind.

B.A. '44, Denison University; M.D. '46, Uni-
versity of Louisville. Major: Pediatrics. Minor:
Surgical Pathology. Thesis: Presacral Tera-
tomas in Infants and Children: A Clinico-
Pathological Study.

Samuel Slemmons Morrison, Pitts-
burgh, Pa.

M.D. '47, Harvard Medical School. Major:
Pediatrics. Minor: Hematology. Thesis: An
Attempt to "Block" Methyl Group Sources
in the Treatment of Transmitted Mouse Leu-
kemia.

Master of Science in Physical Medicine and Rehabilitation

Rex O. McMorris, Louisville, Ky.

B.S. '48, M.D. '49, University of Nebraska.
Major: Physical Medicine and Rehabilitation.
Minor: Physiology. Thesis: The Amplitudes of
the Motor Unit Action Potentials of Skeletal
Muscles in Normal Subjects and in Patients
with Neuromuscular Disorders.

Master of Science in Plastic Surgery

Alfred Morgan Struthers, Syracuse,
N.Y.

B.A. '43, M.D. '46, Syracuse University. Major:
Plastic Surgery. Minor: Pathology. Thesis: Ex-
perimental Study of Autogenous Bone Forma-
tion Within Polyvinyl Sponge.

Master of Science in Radiology

Robert Anthony Flaherty, Oak Park, Ill.

M.D. '47, Marquette University. Major: Radiology. Minor: Surgical Pathology. Thesis: Roentgenologic Manifestations of Osteoid Osteoma.

Fred E. Wise, Jr., Charlotte, N.C.

B.S. '42, Marshall College; M.D. '45, Medical College of Virginia. Major: Radiology. Minor: Surgical Pathology. Thesis: Enterogenous Cysts of the Mediastinum.

Master of Science in Surgery

Ross Allan Dobson, Chatham, Ontario, Canada

M.D. '49, University of Toronto. Major: Surgery. Minor: Surgical Pathology. Thesis: The Large Solitary Gallstone—A Clinical and Pathological Study of Its Significance in Biliary Tract Disease.

Harold Clinton Habein, Jr., Rochester
B.A. '43, Dartmouth College; M.D. '50, University of Minnesota. Major: Surgery. Minor: Surgical Pathology. Thesis: Recurrent Carcinoma in the Bronchial Stump.

Rudolph Andrew Helden, Rochester
B.A. '42, Upsala College; M.D. '45, Jefferson Medical College. Major: Surgery. Minor: Surgical Pathology. Thesis: Benign Cystic Tumors of the Spleen.

Eric Paul Lofgren, Rockford, Ill.

B.A. '41, M.D. '44, University of Illinois. Major: Surgery. Minor: Surgical Pathology. Thesis: Local Recurrence of Carcinoma after Anterior Resection of the Rectum and the Sigmoid: Its Relationship with the Length of Normal Mucosa Resected Distal to the Lesion.

John Wesley Phillips, San Francisco, Calif.

M.D. '46, St. Louis University. Major: Surgery. Minor: Surgical Pathology. Thesis: A Clinical Pathologic Study of Hepatic Flexure Carcinoma, with Emphasis on Lymphatic Spread.

Everett Shocket, New York, N.Y.

B.A. '44, M.D. '48, Long Island College. Major: Surgery. Minor: Biochemistry. Thesis: Radioiodine as a Label for Fatty Acids.

Master of Science in Urology

Merritt Gartley Ringer, Jr., Washington, D.C.

M.D. '50, Northwestern University. Major: Urology. Minor: Surgical Pathology. Thesis: Renal Tuberculosis. A Roentgenologic and Pathologic Comparison.

Master of Social Work

Walter Mervin Ortman, Minneapolis

B.A. '47, Jamestown College. Field of Concentration: Social Work.

Doctor of Philosophy

Richard Sanford Alm, Honolulu, T.H.
B.S. '42, M.A. '48, University of Minnesota. Major: Education. Minor: English. Thesis: A Study of the Assumptions Concerning Human Experience Underlying Certain Works of Fiction Written for and about Adolescents. Major Adviser: Prof. D. V. Smith.

Jasper N. Baker, Stillwater, Okla.

B.S. '42, M.S. '47, Oklahoma A. and M. College. Major: Education. Minor: Agricultural Economics. Thesis: A Study of the Relative Effectiveness of Sources from Which Farmers Get Information Regarding Agriculture Experiment Station Results. Major Adviser: Prof. M. J. Peterson.

Paul G. Bay, Chicago, Ill.

B.S. '50, George Washington University. Major: Pharmaceutical Chemistry. Minors: Organic Chemistry and Pharmacology. Thesis: The Synthesis of Some 4-Carbobenzoxy-3-Alkoxy Benzamide Hydrochlorides and Other Amidines. Major Adviser: Prof. Ole Gisvold.

Jacques Elias Benveniste, Athens, Greece

Graduate '51, Athens National Technical University; M.S. in C.E. '52, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Theoretical Analysis of Reinforced Concrete Box Girders. Major Adviser: Prof. J. A. Wise.

Edwin Raymond Blakley, Sinaluta, Saskatchewan, Canada

B.S.A. with distinction '49, M.Sc. '50, University of Saskatchewan. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Synthesis of 6-Deoxy-6-Fluoro-D-Glucose and a Study of Its Metabolic Effects. Major Adviser: Prof. P. D. Boyer.

Frank Walker Bliss, Jr., Orlando, Fla.

B.A. '47, Emory University; M.A. '48, University of Minnesota. Major: English. Minor: Philosophy. Thesis: Studies in the Background of the Idea of Pride in Eighteenth-Century Thought. Major Adviser: Prof. S. H. Monk.

William Lee Boyd, Deepwater, N.J.

B.A. '50, University of Tennessee; M.S. '52, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: The Effect of Carbohydrates on the Tryptophanase and Several Deaminase Systems of Bacteria. Major Adviser: Prof. H. C. Lichstein.

Marion Alice Brooks, St. Paul

B.A. '47, M.S. '50, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: Certain Aspects of the Histochemistry and Metabolic Significance of the Intracellular Bodies (Bacteroids) of Cockroaches (Blattariae). Major Adviser: Prof. A. G. Richards.

Sylvia Brooks, Milton, Mass.

B.A. '48, Boston University; M.A. '50, University of Wisconsin. Major: Child Welfare. Minor: Psychology. Thesis: Complexity of Task as a Factor in Rigidity Behavior of Children in Problem Solving Situations. Major Adviser: Prof. M. C. Templin.

Stanley Bruckenstein, Brooklyn, N.Y.

B.S. '50, Polytechnic Institute of Brooklyn. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Acid-Base Equilibria in Glacial Acetic Acid. Major Adviser: Prof. I. M. Kolthoff.

Thomas Charles Burgess, Sidney, Mont.

B.A. with honors '42, Montana State University. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of Certain Relationships between Self-Concept, Vocational Interests, and Occupational Stereotypes. Major Adviser: Prof. C. G. Wrenn.

Frances Louise Clayton, Evansville, Ind.

B.A. '49, Indiana University; M.S. '51, Brown University. Major: Psychology. Minor: Educational Psychology. Thesis: Secondary Reinforcement as a Function of Reinforcement Scheduling. Major Adviser: Prof. Kenneth MacCorquodale.

David Cooperman, Minneapolis

B.A. '47, M.A. '52, University of Minnesota. Major: Political Science. Minor: Psychology. Thesis: Power, Force, and Violence: An Examination of Traditional and Revolutionary Aspects of Political Theory in the Light of a Hypothesis of Limits to Action. Major Adviser: Prof. M. Q. Sibley.

Frank Melvin Crane, Garden City

B.S. '48, M.S. '49, University of Minnesota. Major: Animal Husbandry. Minor: Agricultural Biochemistry. Thesis: The Effects of Different Planes of Nutrition Upon the Rate and Efficiency of Gains and the Yield and Quality of the Carcasses of Swine. Major Adviser: Prof. E. F. Ferrin.

Ady Raul da Silva, Pelotas, Brazil

Agr. Eng. '37, Escola Superior de Agricultura V. Minas Gerais; M.S. '46, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Breeding for Stem and Leaf Rust Resistance in Wheat in Brazil Including Basic Genetical Studies and a Survey of the Physiological Races of Rust. Major Advisers: Profs. C. R. Burnham and Helen Hart.

George James Demetriou, Riverhead, N.Y.

B.A. cum laude '41, Hobart College. Major: Political Science. Minor: Philosophy. Thesis: A Consideration of Some Aspects of the Problem of Legitimacy in Venezuelan Politics, 1830-1953. Major Advisers: Profs. B. E. Lippincott and A. N. Christensen.

Alvin William Donahoo, Moravia,

Iowa

B.S. '41, M.S. '49, Iowa State College. Major: Education. Minor: Agricultural Economics. Thesis: Differential Attitudes of Farmers Toward the Grain Marketing System. Major Adviser: Prof. M. J. Peterson.

Sheldon Dray, Chicago, Ill.

B.S. '41, University of Chicago; M.D. '46, M.S. '47, University of Illinois. Major: Physiological Chemistry. Minor: Physical Chemistry. Thesis: A Quantitative Theory of Dynamic Polyionic Potentials Across Membranes of Ideal Ionic Selectivity in Terms of Transference Numbers and Its Experimental Test with Permeable Membranes. Major Advisers: Profs. W. D. Armstrong and Karl Sollner.

Alfonso Benjamin Falcone, St. Paul

B.A. '44, M.D. '47, Temple University. Major: Agricultural Biochemistry. Minor: Medicine. Thesis: Study of the Mechanism of Enzyme Action by Use of Isotopes of Oxygen and Phosphorus. Major Adviser: Prof. P. D. Boyer.

Raymond Oscar Farden, Moorhead

B.A. *summa cum laude* '47, Concordia College. Major: Sociology. Minor: Psychology. Thesis: An Exploratory Study of the Prediction of Occupational Adjustment. Major Advisers: Profs. Theodore Caplow and A. M. Rose.

John Edward Hafstrom, Duluth

B.S. '36, North Dakota Agricultural College; M.A. '49, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Non-Linear Transformations in Wiener Space of the Form $y(t) = x(t) + q [t; x(t_1), \dots, x(t_n)]$. Major Adviser: Prof. R. H. Cameron.

William Henry Harrison, Jr., Indianapolis, Ind.

B.A. *cum laude* '48, M.S. '52, University of Minnesota. Major: Agricultural Biochemistry. Minor: Physical Chemistry. Thesis: Studies on the Mechanism of Enzymic Phosphate Transfer with O^{18} . Major Adviser: Prof. P. D. Boyer.

Ruben Martin Heermann, Fargo, N.D.

B.S. '43, M.S. '48, University of Nebraska. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance of Stem Rust Reaction in Durum and Emmer Crosses with Particular Reference to Race 15B. Major Adviser: Prof. E. R. Ausemus.

John Robert Holum, Harris

B.A. *summa cum laude* '50, St. Olaf College. Major: Organic Chemistry. Minor: Chemistry. Thesis: Cyclopropanes XIV. Major Adviser: Prof. L. I. Smith.

Nahmin Horwitz, Duluth

B.S. *cum laude* '49, Western Reserve University; M.S. '51, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Cerenkov Counter Measurement of Cosmic Ray Alpha Particles at 41° . Major Adviser: Prof. E. P. Ney.

Cheng Ting Hsu, Wenling, China

B.S. '44, National Tsing Hua University; M.S. '49, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics and Mechanics. Thesis: Stress Distribution in a Sheet-Stringer Panel. (A Shear-Lag Problem Showing Effects on Buckling.) Major Adviser: Prof. J. A. Wise.

Edwin Marvin Ingersoll, Blackduck

B.S. '42, Bemidji State Teachers College; M.S. '49, University of Minnesota. Major: Zoology. Minor: Entomology. Thesis: Taxonomy and Life History of *Cyclocoelum microstromum* (Creplin, 1829) Kossack, 1911 with Notes on the in vitro Cultivation of *C. microstromum* Rediae. Major Adviser: Prof. F. G. Wallace.

John Alexander Johnson, Jr., Manhattan, Kan.

B.S. '40, North Dakota Agricultural College; M.S. '42, Kansas State College of Agriculture and Applied Science. Major: Agricultural Biochemistry. Minor: Plant Physiology. Thesis: Properties of Certain Protease Systems Used in Breadmaking. Major Advisers: Profs. W. F. Geddes and P. D. Boyer.

Björn Karlens, Oslo, Norway

B.S. '50, M.A. '51, University of Nebraska. Major: Educational Psychology. Minor: Child Welfare. Thesis: A Comparison of Some Educational and Psychological Characteristics of Successful and Unsuccessful Readers at the Elementary School Level. Major Adviser: Prof. G. L. Bond.

Helen Hedwig Kaslo, Minneiska

B.A. *cum laude* '42, Western College; M.A. '47, University of Minnesota. Major: History. Minor: English. Thesis: Christopher C. Andrews. Major Adviser: Prof. E. S. Osgood.

Marjorie Ruth Kaufman, Milwaukee, Wis.

B.S. '44, Milwaukee State College; M.A. '47, University of Washington. Major: English. Minor: History. Thesis: Henry James's Comic Discipline—The Use of the Comic in the Structure of His Early Fiction. Major Adviser: Prof. Bernard Bowron.

Masuda Khan, Aligarh, India

B.A. '49, M.A. '51, Muslim University. Major: Agricultural Economics. Minor: Economics. Thesis: An Evaluation of the Index of Minnesota Farm Prices and Recommendations for Revision. Major Adviser: Prof. W. W. Cochrane.

La Vern Laurel Krantz, Minneapolis
B.S. '29, M.A. '30, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: The Relationship of Reading Abilities and Basic Skills of the Elementary School to Success in the Interpretation of the Content Materials in the High School. Major Advisers: Profs. G. L. Bond and M. G. Neale.

Frederich Awalde Krempfle, Superior, Wis.

B.E. '36, Superior State Teachers College; M.A. '48, University of Minnesota. Major: History. Minor: Political Science. Thesis: Cultural Aspects of the Councils of Constance and Basel. Major Adviser: Prof. A. C. Krey.

Robert Consay Lamb, Geneva, N.Y.
B.S.A. '41, University of Saskatchewan; M.S. '47, University of Minnesota. Major: Horticulture. Minor: Botany. Thesis: A Study of Rest Period in the Latham Raspberry: Environmental Conditions Which Affect the Rest Period and the Relationship of Rest to Winter Hardness. Major Adviser: Prof. R. E. Nylund.

Duane John Le Tourneau, Moscow, Idaho

B.S. with distinction '48, M.S. '51, University of Minnesota. Major: Agricultural Botany. Minor: Agricultural Biochemistry. Thesis: Catalase Activity and Chlorophyll Content of Several Species of *Triticum* in Relation to Their Resistance to *Puccinia graminis tritici*. Major Advisers: Profs. Helen Hart and R. H. Landon.

Charles Eldon Logsdon, Kansas City, Mo.

B.A. '42, University of Kansas City. Major: Plant Pathology. Minor: Horticulture. Thesis: Studies on Ring Rot of Potatoes. Major Adviser: Prof. C. J. Eide.

Thomas Mayo Magoon, Framingham, Mass.

B.A. '47, Dartmouth College; M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: General and Specific Outcomes of Counseling with College Men. Major Adviser: Prof. R. F. Berdie.

Horace Milton Manning, Corvallis, Ore.

B.A. cum laude '47, M.Ed. '49, Lewis & Clark College; M.A. with honors '51, University of Oregon. Major: Psychology. Minor: Educational Psychology. Thesis: The Effect of Varying Conditions of Hunger and Thirst on Two Responses Learned to Hunger and Thirst Alone. Major Adviser: Prof. W. A. Russell.

Richard Burton McHugh, Ames, Iowa
B.A. magna cum laude '44, M.A. '49, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: On the Scaling of Psychological Data by Latent Structure Analysis. Major Advisers: Profs. Leonid Hurwicz and Jacob Bearman.

Donald Matthias Medley, Minneapolis

B.S. cum laude '38, College of St. Thomas; M.A. '50, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Relationship of Test Reliability to the Standard Errors of Individual Scores. Major Advisers: Profs. W. W. Cook and C. J. Hoyt.

Eldon Leon Modisette, Minneapolis

B.A. '47, Iowa State Teachers College; M.A. '49, University of Minnesota. Major: American Studies. Thesis: Changing Political Thought in the American Drama, 1919-1951. Major Adviser: Prof. Theodore Hornberger.

Wilbur Norton Moulton, Reliance, S.D.

B.S. magna cum laude '49, Sioux Falls College; M.S. '52, University of Minnesota. Major: Organic Chemistry. Minor: Chemistry. Thesis: 2-Phenyl- Δ^3 -Cyclohexenecarbonitrile. Major Adviser: Prof. W. E. Parham.

Gen Ogata, Helena, Mont.

B.S. '49, University of Minnesota. Major: Soils. Minor: Bacteriology. Thesis: Nitrate Content and Hydrogen-Ion Concentration of Soils and Nitrogen Content of Oat Plants as Affected by Rates of Liming. Major Adviser: Prof. A. C. Caldwell.

Warren Eugene Olson, Evanston, Ill.

B.A. '48, University of Denver; M.A. '50, University of Washington. Major: American Studies. Thesis: The American Advertising Man: A Study of His Attitudes and Values. Major Adviser: Prof. M. Q. Sibley.

Presentacion T. Perez, Diliman, Quezon City, Philippines

B.S.E. '29, Philippine Women's University; M.A. '35, M.S. '36, Teachers College, Columbia University. Major: Education. Minor: Home Economics Education. Thesis: Problems of Employed Women in Certain Professional Groups in the Philippines and Their Educational Implications. Major Advisers: Profs. C. G. Wrenn and William Micheels.

Arthur Gerard Plessers, Ottawa, Ontario, Canada

B.Sc. '50, McGill University; M.S. '53, University of Minnesota. Major: Plant Genetics. Minor: Agricultural Botany. Thesis: The Genetics of Stem and Leaf Rust Reactions and Other Characters in Crosses of Lee Wheat with Chinese Monosomic Testers. Major Adviser: Prof. C. R. Burnham.

Ira Polley, Minneapolis

B.A. '38, Indiana University. Major: Political Science. Minor: History. Thesis: Wage Stabilization in Region 8: A Case Study. Major Adviser: Prof. Lloyd Short.

Truman Addison Potter, Minneapolis

B.A. '47, M.A. '51, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: Some Recent American Critics of Liberalism. Major Adviser: Prof. B. E. Lippincott.

Edward Stewart Redgate, Sea Girt, N.J.

B.S. *summa cum laude* '49, Bethany College; M.S. '52, University of Minnesota. Major: Physiology. Minor: Electrical Engineering. Thesis: The Effect of Variations in Hypothalamic Excitability on Blood Pressure, Pulse Rate and the Reflex Responsiveness to Hypotensive Drugs. Major Adviser: Dr. Ernst Gellhorn.

Patrick Dominic Rocchio, St. Paul

B.A. '41, College of St. Thomas; M.A. '49, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Teacher-Pupil Attitudes as Related to Teachers' Personal Characteristics and Pupil Adjustment. Major Advisers: Profs. M. G. Neale and W. W. Cook.

Danforth Reynolds Ross, Minneapolis

B.A. '33, Southwestern College; M.A. '37, Vanderbilt University. Major: American Studies. Thesis: The Genteel Tradition: Its Characteristics and Its Origins. Major Adviser: Prof. Theodore Hornberger.

Joseph Mathew Russo, Brooklyn, N.Y.

B.S. '47, University of Minnesota. Major: Animal Husbandry. Minor: Veterinary Science. Thesis: Effects of Aureomycin and Arsanilic Acid on Nitrogen Balance in Pigs. Major Adviser: Prof. L. E. Hanson.

John McNeill Sieburth, Vancouver, B.C., Canada

B.S.A. '49, University of British Columbia; M.S. '51, State College of Washington. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Bluecomb Disease of Turkeys: Antibiotic Prophylaxis and Etiology. Major Advisers: Profs. B. S. Pomeroy and J. J. Jezeski.

Miriam Blinn Smith, Cedar Falls, Iowa

B.S. '42, Northern State Teachers College; M.A. '46, University of Minnesota. Major: Speech. Minor: Psychology. Thesis: A Rhetorical Analysis of the Speeches of Robert G. Cousins. Major Adviser: Prof. Howard Gilkinson.

David Richard Spriestersbach, St. Paul

B.S. '43, M.S. '52, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Constitution of Plant Gums. Major Adviser: Prof. Fred Smith.

Otto Ludwig Stein, Oakland, Calif.

B.S. with distinction '49, M.S. '52, University of Minnesota. Major: Botany. Minor: Plant Genetics. Thesis: The Rates of Leaf Initiation in Two Dwarfing Genes, Dwarf-1 and Brachytic-2 in *Zea mays* L. Major Adviser: Prof. E. C. Abbe.

Howard William Thoele, St. Paul

B.S. with distinction '48, M.S. '49, University of Minnesota. Major: Dairy Husbandry. Minor: Veterinary Medicine. Thesis: Factors Influencing the Characteristics of the Milking Curve of the Bovine. Major Adviser: Prof. W. E. Petersen.

Robert Joseph Toman, Virginia

B.Ch.E. with high distinction '49, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Study of Vapor Phase Catalytic Esterification. Major Adviser: Prof. A. J. Madden.

David Rhoads Weimer, Mansfield, Ohio

B.A. '49, Oberlin College; M.A. '50, Johns Hopkins University. Major: American Studies. Thesis: Myth in the American Federation of Labor, 1881-1914. Major Adviser: Prof. Bernard Bowron, Jr.

Donald Walter Wujciak, Irvington,
N.J.

B.S. '50, Rutgers University. Major: Organic
Chemistry. Minor: Chemistry. Thesis: The
Claisen Rearrangement. The Allyl and Crotyl
Ethers of 2,4-Dimethyl-6-Propenylphenol. Ma-
jor Adviser: Prof. W. E. Noland.

Doctor of Philosophy in Pathology

Samuel Theodore Nerenberg, Minne-
apolis

B.S. '45, M.D. '46, M.S. in Pathology '52,
University of Minnesota. Major: Pathology.
Minors: Anatomy and Neuropathology. Thesis:
A Study of the Effects of Physiological Strain
on the Beta Cells of the Islets of Langerhans.
Major Adviser: Dr. J. R. Dawson.

Doctor of Philosophy in Surgery

Morley Cohen, Winnipeg, Manitoba,
Canada

M.D. '48, University of Manitoba. Major:
Surgery. Minor: Pathology. Thesis: Studies
on Experimental Methods for Intracardiac
Surgery: Their Development and Physiologic
Basis. Major Adviser: Dr. C. W. Lillehei.

Russell Marion Nelson, Salt Lake
City, Utah

B.A. with high honors '45, M.D. '47, Univer-
sity of Utah. Major: Surgery. Minor: Physi-
ology. Thesis: Metabolic Effects of Canine In-
fusion with the Paracolon Bacillus, a Con-
taminant of Perfusions with Temporary Pump-
Oxygenator Supplantation of Heart and Lungs.
Major Adviser: Dr. O. H. Wangenstein.



UNIVERSITY OF MINNESOTA

Senior Reception

December 1954

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the main ballroom of the Coffman Memorial Union.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identifications.
- Those in the receiving line will be President and Mrs. J. L. Morrill, and Miss Sue Gentry, Senior Coordinator, All-University Congress.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1954.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.