

THE  
UNIVERSITY OF MINNESOTA

Announces Its

*March Commencement*

*1952*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, MARCH 20

AT EIGHT O'CLOCK



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable J. S. Jones, St. Paul

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

The Honorable Sheldon V. Wood, Minneapolis

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

## *This Is Your University*

Throughout the University's one hundred and one years, its primary function has been the education of the young men and women of the state. The University is proud of its more than 100,000 graduates who have given to their communities the highest type of professional competence and civic leadership.

Currently, 2,300 full- and part-time faculty members, including men and women of international renown, are engaged in preparing some 18,600 students for careers in the professions, in business and industry, and in agriculture.

But the University is not dedicated solely to producing specialists. Its College of Science, Literature, and the Arts, University College, and General College aim at giving a broad, humane, and liberal education.

A second major function of the University of Minnesota is research. Today, University research is being carried on in laboratories on the three campuses, at the agricultural experiment stations in Crookston, Grand Rapids, Duluth, Waseca, and Morris, at the Rosemount Research Center, the biological station at Itasca, and the forestry station at Cloquet.

At all of these centers and at University Hospitals, the Mayo Foundation in Rochester, and the Hormel Institute in Austin, University scientists are seeking answers to such questions as: What causes prejudice in children? What goes on inside the atom? How can we breed borer-resistant corn? What can we learn about cancer in experimental animals and, eventually, in man? In past years millions of dollars have been brought into the state through University research in such fields as taconite, disease-resistant wheat, and Minnesota blue cheese.

The University Hospitals are centers for treatment as well as research. From all over the state, people—many of them with unusual or obscure diseases—are referred by their family doctors to the University medical center.

Last year 11,000 patients spent 145,000 days at University Hospitals and 100,000 visits were made to the outpatient clinic. Besides administering medical care to residents of the state, the Hospitals cooperate with the College of Medical Sciences to train doctors, nurses, and medical technicians. Most recent addition to the University medical center is the Variety Club Heart Hospital, gift of generous people in show business. It is the first hospital in the United States devoted exclusively to the study and treatment of heart diseases. The Mayo Memorial Medical Center now being erected provides a needed extension to the University's medical facilities made possible by warm friends of the University and a generous state legislature.

Not only do people come to the University, but the University goes out to the people. County agricultural agents translate agricultural research into concrete terms by showing farmers how to use improved methods and new crop varieties developed by University and other scientists. Through its Concert and Lecture Service and its Theatre-on-Tour the University each year brings good music, plays, and lively discussion to almost 2,000,000 people all over the northwest. KUOM, the University's nationally honored radio station, reaches more than half the population of the state with adult radio fare.

It has been the University's earnest endeavor to make the whole state its campus, and to meet the people of Minnesota in a two-way flow of talent and services, ideas and equipment. The University sincerely seeks the warm and friendly support of all the people of Minnesota who come in such large and welcome numbers to visit the campuses of their University.

## Order of Events

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

**PRELUDE CONCERT:** Beginning at 7:30 p.m., the University Concert Band, Mr. Gerald R. Prescott, Associate Professor and Bandmaster, will play: French Military Marching Song, from "The Desert Song" - Sigmund Romberg

*Moderne Group:*

Little March	- - - - -	Clare E. Grundman
Waltz from "Summer Day Suite"	- - - - -	Prokofieff
Dance from "From the Delta"	- - - - -	William Grant Still
Deep Sea Chantey	- - - - -	Elie Siegmeister
The Last Spring	- - - - -	Grieg
Inflammatus from "Stabat Mater"	- - - - -	Rossini
Die Fledermaus, Overture	- - - - -	Johann Strauss

**PROCESSIONAL:** March Pontificale - - - - - Gounod

**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. Harry W. Kitts, Associate Professor of Agricultural Education, Marshal; Dr. Tracy F. Tyler, Associate Professor of Education, Marshal; Dr. Maurice B. Visscher, Professor and Head of the Department of Physiology; Mr. Maynard E. Pirsig, Dean of the Law School; Dr. Marcia Edwards, Acting Dean of the College of Education; Dr. Athelstan F. Spilhaus, Dean of the Institute of Technology; Dr. Horace T. Morse, Dean of the General College; Lieutenant Colonel Ashton H. Pully, USA, Assistant Professor of Military Science and Tactics; Dr. Malcolm M. Willey, Vice President, Academic Administration; Mr. True E. Pettengill, Recorder; Dr. Robert L. Stearns, President of the University of Colorado; Dr. James Lewis Morrill, President of the University of Minnesota; The Honorable George W. Lawson, Second Vice President, Board of Regents; The Honorable Lester A. Malkerson, Member, Board of Regents; The Reverend Leonard P. Cowley, Member of the Minnesota Council of Religion and Director of the Newman Foundation, Lieutenant Colonel Helmer T. Aasheim, USAF, Assistant Professor of Air Science and Tactics; Mr. Julius M. Nolte, Dean of University Extension; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Dr. Henry Schmitz, Dean of the College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Dr. Richard K. Gaumnitz, Assistant Dean of the School of Business Administration; Dr. Harold S. Diehl, Dean of the College of Medical Sciences; Mr. Richard Halverson, B.A. '52; Dr. Edward B. Stanford, Acting University Librarian, Marshal.

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

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

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

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

**COMMENCEMENT ADDRESS:** "The Value of Balance," Dr. Robert L. Stearns, LL.D., President of the University of Colorado.

**CONFERRING OF COMMISSIONS:** Dr. Malcolm M. Willey, Vice President, Academic Administration, will introduce Lieutenant Colonel Ashton H. Pully, USA, Assistant Professor of Military Science and Tactics; and Lieutenant Colonel Helmer T. Aasheim, USAF, Assistant Professor of Air Science and Tactics. The commissions will be presented by President Morrill; the oath of office will be administered by Lieutenant Colonel Pully.

**CONFERRING OF DEGREES:** Vice President Willey will introduce the several deans or their representatives who will present the candidates for degrees in their respective colleges. These, in order of their introduction, are: Dean Julius M. Nolte, LL.B., University Extension; Dean Horace T. Morse, Ph.D., 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; Dean Henry Schmitz, Ph.D., College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Acting Dean Marcia Edwards, Ph.D., College of Education; Assistant Dean Richard K. Gaumnitz, Ph.D., School of Business Administration; Dean Maynard E. Pirsig, LL.B., Law School; and Professor Maurice B. Visscher, Ph.D., representing the Graduate School. Immediately afterward, certificates and diplomas will be presented by each dean to the graduates of his college.

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

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

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

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

**RECESSIONAL:** The University Concert Band.

Semper Fidelis, March - - - - - Sousa

**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, Corps of Engineers, USAR**

David V. Rosdahl, St. Paul

### **Second Lieutenant, Signal Corps, USAR**

Lawrence J. Zollar, Grenville, S.D.

### **DEPARTMENT OF AIR SCIENCE AND TACTICS** **Second Lieutenant, USAF Reserve**

Aris D. Efthimides, Buenos Aires, Argentina      John Joseph Volkenant, St. Paul  
James Anthony Winker, Randall

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## *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 Certificates**

Donald P. Kaelble, St. Paul  
Milton E. Larson, Robbinsdale

Lawrence W. Levandowski, Minneapolis

#### **Engineering Certificate**

Chin Nai Shui, Minneapolis

## GENERAL COLLEGE

### Associate in Arts

Beverly Mae Bowers, Minneapolis  
Robert P. Edlund, Minneapolis  
Grace Mildred Gould, Minneapolis  
John William Kassan, South St. Paul  
Walter James Kimble, Minneapolis  
Keith Charles Kleist, Minneapolis  
James McKenzie Laing, Excelsior  
Dale Allyn Lindsley, Minneapolis\*  
Patricia Eleanor Malmberg, Minneapolis  
Richard Alvin Mundhenk, Minneapolis  
David Lee Palm, Minneapolis  
Gerald Herman Pittelkow, Minneapolis  
William Allen Powell, Denver, Colo.

Gordon W. Renfro, Roscoe, Tex.  
Douglas Robert Ronning, Minneapolis  
Roger Merlin Rutt, Minneapolis  
Robert Keith Scrivener, St. Paul  
Marvin Jerome Silverman, Minneapolis  
Neal Eugene Simons, Minneapolis  
Ellsworth Berger Stein, Minneapolis  
Dwight R. Suiter, St. Paul  
Mary Francis Tomlinson, Minneapolis  
Carleton Julian West, Jr., St. Paul  
Louis Levi Zachary, St. Paul  
Louis N. Zukowski, Minneapolis

### Associate in Liberal Arts

Donna Margaret Gassman, St. Paul  
Shirley Elaine Kaplan, St. Paul

Frederic Charles Martichuski, Denham

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Joan Lee Atlas, Houston, Tex.  
Charles Christ DeMoss, Minneapolis  
Jean Irene Gange, St. Paul

Mary Ann Ibberson, Wayzata  
Marjorie Ann Lewis, Muscatine, Iowa  
Nancy Carol Ramer, St. Paul  
Francis John Ross, St. Paul

### Bachelor of Arts

Jonathan Prindle Abbott, St. Paul  
Jerome Harrison Arndt, Detroit Lakes  
Margaret Lucretia Barber, Pierre, S.D.  
Blytha Amelia Beck, St. Louis Park,  
CUM LAUDE  
Shirley Joan Beck, Barnesville  
Robert Ellsworth Belden, Minneapolis  
Clarence Andrew Benschoter, Minneapolis  
Malcolm Eugene Bolton, Minneapolis  
Anna Jeanne Michelson Brooks, Cleveland, Ohio, MAGNA CUM LAUDE  
John Joseph Brown, Jr., Minneapolis,  
MAGNA CUM LAUDE

Glen Hugh Crawford, Minneapolis  
Raymond Anthony Crippen, Jr., A.A.,  
Worthington, CUM LAUDE  
George Robert Crotty, Minneapolis  
Harold Eugene Dahlgren, Minneapolis  
Allen Eugene Daugherty, Minneapolis  
Robert Warren Davis, Minneapolis  
Benjamin Anthony Dvorak, Minneapolis  
James David Enstad, Austin  
Joseph H. Eusterman, Rochester  
Helen Rita Falk, Sioux City, Iowa  
Elizabeth Felix, A.A., Minneapolis

\* Degree conferred as of June 16, 1951.

Robert Bruce Ferguson, St. Paul  
 Charles Arthur Flint, Minneapolis  
 Frank Edward Friedl, Minneapolis  
 John Earl Gibson, Milwaukee, Wis.  
 Janet Helen Gilquist, Minneapolis  
 James Paul Grymyr, Minneapolis  
 Elizabeth Dickinson Hanmer, Excelsior  
 Viggo Peter Hansen, Askov  
 Harry Hanson, Minneapolis  
 Robert Edward Hanson, Minneapolis  
 John Robert Harmer, Mankato  
 Robert Patrick Harriman, Minneapolis  
 Beverly Jane Hayer, Minneapolis, CUM LAUDE  
 Joyce Marie Heckenlaible, Rochester  
 Alice Loretta Hendrickson, Minneapolis  
 Charles Carroll Hicks, Excelsior  
 Louis Peter Hiniker, Jr., St. Paul  
 Thomas Richard Holm, Kennedy  
 Wells Jerome Horvereid, Minneapolis  
 James Boyd Jensen, Minneapolis  
 Edward Milton Johnson, Proctor  
 Joan Dorset Junkin, St. Paul  
 John B. Keefe, Minneapolis  
 Andrew Frank Kitchar, Minneapolis  
 Wallace Owen Knowles, Minneapolis  
 Edward Hirsh Kolner, Minneapolis, CUM LAUDE  
 George Alfred Larson, Minneapolis  
 Zev Levin, Tel-Aviv, Israel  
 Gerald Yale Levine, Minneapolis  
 Suzanne Barbara Levy, St. Paul  
 Tom Hart Lundquist, Minneapolis  
 Charles Clifford Lindstrom, Minneapolis  
 Phyllis Arlene McCarthy, Minneapolis  
 John Edward McCauley, Minneapolis  
 Thomas Arthur Mee, St. Paul  
 Janet Roust Meier, Montevideo  
 Ronald Roger Mortensen, Minneapolis

Donald Leonard Nordquist, Minneapolis  
 Carolyn Eugenie Nordstrom, Minneapolis  
 Joe Edward Nusbaum, Minneapolis, MAGNA CUM LAUDE  
 Anne Margaret Peterson, St. Paul  
 Daniel Philip Phillips, Minneapolis  
 Richard Ewart Pogue, Jr., Watertown  
 Richard G. Poore, St. Paul  
 William David Quinlivan, St. Paul, CUM LAUDE  
 Barbara Louise Richman, St. Louis Park, MAGNA CUM LAUDE  
 Kirk Frederick Roe, Northfield  
 Lorraine Emily Rosbacka, Cloquet, CUM LAUDE  
 Bernard Joseph Rotklein, St. Paul  
 Emil John Rukavina, Virginia  
 Richard Ray Rundle, Minneapolis  
 Albert Peter Ruotsala, Ely  
 Paul Hugh Shannon, Carlton  
 Amy Louise Shogren, Minneapolis, MAGNA CUM LAUDE  
 Charles Crawford Spencer, Parma Heights, Ohio, CUM LAUDE  
 James Elmer Stumpfa, Jr., Minneapolis  
 Chester Celestine Swanson, Winthrop  
 Raymond LeRoy Truelson, Minneapolis, CUM LAUDE  
 Barbara Malinoff Tucker, St. Paul, MAGNA CUM LAUDE  
 Howard Amory Van Dyk, Minneapolis  
 John Joseph Volkenant, A.A., St. Paul  
 Louis Evert Voss, A.L.A., St. Paul  
 Louise DePetro Walker, Nashwauk  
 Ross Wendell Warren, Nevis  
 Yvonne Marie Lovold Westphal, Spring Grove  
 James Byron Wilson, Jr., Minneapolis  
 Richard Edward Wilson, Mankato

### Bachelor of Science in Library Science

Carol Margaret Ardin, Cook

Duane Marcellus Helgeson, Fergus Falls

## UNIVERSITY COLLEGE

### Bachelor of Arts

Ellen McGuigan, A.A., Minneapolis

Ruth Violet Nimlos, Stephen



# INSTITUTE OF TECHNOLOGY

## Bachelor of Science

<i>Merton Lee Bartsch, Rapidan, WITH DISTINCTION</i>	<i>Ingvard Leonard Myklebust, Jr., Minneapolis</i>
<i>George Erwin Beatty, Graceville, WITH DISTINCTION</i>	<i>Lyle Perry Pederson, Fulda</i>
<i>William Maximillian Foley, Kelliher, WITH DISTINCTION</i>	<i>Melvin Joseph Straub, Minneapolis, WITH DISTINCTION</i>
<i>William Baldwin Hamre, Spring Valley, WITH DISTINCTION</i>	<i>Joseph Milton Wetzel, Elysian, WITH HIGH DISTINCTION</i>

## Bachelor of Aeronautical Engineering

John William Beatty, Crookston

## Bachelor of Agricultural Engineering

Celius Robert Anderson, Starbuck

## Bachelor of Architecture

<i>Eugene Lawrence Freerks, Minneapolis</i>	<i>Richard Roy Soderlind, Minneapolis, WITH HIGH DISTINCTION</i>
<i>Marlin Douglas Hutchison, Milnor, N.D.</i>	

## Bachelor of Chemical Engineering

<i>Peter DuFresne, Minneapolis</i>	<i>Albert Edward Ledding, Minneapolis</i>
<i>Peter Sturtevant Dwan, Minneapolis</i>	

## Bachelor of Civil Engineering

<i>George Erwin Beatty, Graceville, WITH DISTINCTION</i>	<i>Ingvard Leonard Myklebust, Jr., Minneapolis</i>
<i>Ralph A. Boriin, Chisholm</i>	<i>Lyle Perry Pederson, Fulda</i>
<i>William Baldwin Hamre, Spring Valley, WITH DISTINCTION</i>	<i>Thomas Francis Solon, Minneapolis</i>
	<i>Joseph Milton Wetzel, Elysian, WITH HIGH DISTINCTION</i>

## Bachelor of Electrical Engineering

<i>Merle Henry Blasjo, Sturgeon Lake</i>	<i>Aris Demetrio Efthimides, Buenos Aires, Argentina</i>
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## Bachelor of Geological Engineering

Eildon Culver Ferreira, Duluth

## Bachelor of Mechanical Engineering

Ernest William Amundsen, Minneapolis  
Walter Raymond Andrychowicz, Minneapolis  
Henry Albert Brandtjen, Farmington

Harry Reginald Carlsen, Minneapolis  
Walter Bernard Mueller, Minneapolis  
Owen Martin Sawyer, Elgin  
Ralph John Slavik, St. Paul  
Melvin Joseph Straub, Minneapolis,  
WITH DISTINCTION

## Bachelor of Metallurgical Engineering

Joseph Patrick Ryan, Willernie

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

### Bachelor of Science

Ward J. Aas, Alvarado, Agriculture  
Jerry Stuart Adams, Evan, Agriculture  
Arthur B. Appledorn, Crosby, Forestry  
John August Austbo, Redwood Falls, Forestry  
James Orville Bauman, St. Paul, Agriculture  
John Hugh Benson, Glenwood, Forestry  
Donald Clifford Berg, Minneapolis, Agriculture  
Rodger Blake Brostrom, Minneapolis, Agriculture  
Robert Noe Campbell, St. Paul, Forestry, WITH HIGH DISTINCTION  
Merton Eugene Cooper, Hastings, Home Economics  
Kernit Daniel Dybsetter, Porter, Fish and Wildlife Management  
Orvis Phillip Engelstad, Fertile, Agriculture, WITH DISTINCTION  
Arlen Joseph Erickson, St Paul, Forestry  
John P. Wallace Friederichs, Breckenridge, Agriculture  
Robert William Johnson, Wilmot, S.D., Agriculture  
Richard Charles Krueger, Albert Lea, Agriculture

Eugene Allen LeFebvre, White Bear, Fish and Wildlife Management, WITH DISTINCTION  
Richard Paul Leinfelder, Minneapolis, Forestry  
Merrill Henry Lenzmeier, St. Cloud, Agriculture, WITH DISTINCTION  
John Peter Lindmeier, Minneapolis, Fish and Wildlife Management  
Michael Dale Lysne, Crookston, Forestry  
Leland Dewey Miller, Nevis, Agriculture  
Lawrence Herbert Mirkes, Shawano, Wis., Forestry  
John Francis Mulvehill, St. Peter, Agriculture  
Richard Cletus Murphy, Waseca, Agriculture  
Lester S. Nelson, Minneapolis, Agriculture  
Marvin Lyle Nelson, Brainerd, Agriculture  
Elmer Hampton Olson, Minneapolis, Agriculture  
Verna Maybelle Owens, Crookston, Home Economics, WITH DISTINCTION  
William Peter Pastuck, Hallock, Agriculture

Donald Wayne Petersburg, Claremont, Forestry  
 Allen Arthur Prigge, Lewiston, Forestry, WITH DISTINCTION  
 Ellsworth Russell Quam, Agriculture, St. Paul  
 Charles Walter Roepke, Boyd, Forestry  
 Edna Naslund Rude, Minneapolis, Home Economics  
 Milton O. Sands, Alvarado, Agriculture

Bernard John Schaefer, Cold Spring, Forestry, WITH DISTINCTION  
 David Oliver Skorseth, Park Rapids, Agriculture  
 Calvin Leland Smith, Rainy River, Ontario, Canada, Forestry  
 Joseph Robert Sterle, Chisholm, Forestry  
 Darold Dean Westerberg, Stockholm, Wis., Forestry  
 Robert Dennison Wright, Excelsior, Agriculture, WITH DISTINCTION

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

### Bachelor of Science

David Canine Brandon, Jr., Grand Rapids, Agricultural Education  
 Raymond Frederick Klug, Blackduck, Agricultural Education  
 Margaret Hagen LeFebvre, Minneapolis, Home Economics Education  
 Marjorie Jean Smallidge, St. Paul Park, Home Economics Education

James Berto Swanson, Argyle, Agricultural Education  
 Eleanor Joan Thompson, Hibbing, Home Economics Education  
 Lucy Isako Torii, St. Paul, Home Economics Education, WITH DISTINCTION  
 Kenneth James Ziebarth, Wrenshall, Agricultural Education

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

### Bachelor of Agricultural Business Administration

George Francis Hansen, Minneapolis

## COLLEGE OF EDUCATION

### Bachelor of Science

Alice Nelson Ashmun, Dawson  
 Jerome Ben Baer, St. Paul  
 Virginia Rosemary Beaver, Bemidji, WITH DISTINCTION

Archie Almon Bibbey, A.A., Lamoni, Iowa  
 Joan Kathleen Biss, Minneapolis  
 Deloy Swan Christopherson, Russell

- Phyllis Evelyn Conway, A.A., Minneapolis  
 Joseph Kenneth Crose, A.A., Albert Lea  
 Richard Lee Cundy, Anoka  
 Chester Durda, Minneapolis  
 Eugene Theodore Epstein, Minneapolis  
 Doris Solberg Erickson, St. Paul  
 Elizabeth B. Exner, Minneapolis  
 Douglas Allen Fenderson, Minneapolis  
 Jerome Fishman, St. Paul  
 Eugenia Felicity Forster, New Ulm  
 Eugene Morris Fritz, Luverne  
 John Joseph Goulet, St. Paul  
 Barbara Alice Gudgeon, Minneapolis  
 Gerhard Karroll Haukebo, Underwood  
 Mary Frances Hayden, A.A., Marble  
 Margaret Jackson High, Cedar  
 James Carl Hoffman, Minneapolis  
 Herbert Mahlon Jelley, Hastings  
 Donna Mae Kaplan, A.A., Minneapolis  
 Charles Thomas Kline, Minneapolis  
 Cecile Kume, G.N., Minneapolis, WITH DISTINCTION  
 Sarah Mattson Lahti, Minneapolis  
 Gilbert Kenneth LaLonde, Minneapolis  
 Jo Anne Liebenberg, B.A., Minneapolis  
 Robert Kenneth Lundgren, Minneapolis  
 Georg Hamilton Lykken, B.A., Minneapolis  
 Milo Carl Madsen, Ruthton  
 Marjorie Fowler Neal, Chandler, Okla.  
 Benny Norman Noodleman, Minneapolis  
 Angela Novotny, Clarkson, Neb.\*  
 Francis Carr Ohly, Excelsior  
 Bruce Dallman Paine, Rochester  
 Donna Mae Peterson, Minneapolis, WITH HIGH DISTINCTION\*  
 Patricia Louise Phaneuf, Minneapolis  
 Eugene Edward Pool, B.A., Minneapolis  
 Vern Harold Ranney, B.A., Granite Falls  
 Marjorie Lu Reif, R.N., Chicago, Ill., WITH DISTINCTION\*  
 Edna Earle Ross, Miami, Okla., WITH HIGH DISTINCTION\*  
 Mavis Jean Schlueter, Le Sueur\*  
 Irmina Elizabeth Schultz, St. Paul  
 Jane Patricia Sheehan, G.N., R.N., Faribault, WITH DISTINCTION\*  
 James Benedict Shields, St. Paul  
 Mary Helen Smith, Kimball, S.D., WITH HIGH DISTINCTION\*  
 Rose Margaret Smith, Fort Collins, Colo.\*  
 Mabel Geraldine Stott, Atlanta, Ga., WITH DISTINCTION\*  
 George Francis Tait, Benson  
 Audrey Payton Thompson, Minneapolis, WITH DISTINCTION  
 Anna Marie Truman, Canton, WITH DISTINCTION  
 Richard James Viken, A.L.A., Minneapolis  
 Eugene Jerome Wilhelmi, St. Paul  
 Lawrence Zambino, A.A., St. Paul

## Bachelor of Science in Library Science

Ethel Kathleen Sullivan, B.S., Minneapolis

## Master of Education

- Judith F. Bieber, B.Ed., New Ulm  
 Lucille Helen Borowick, A.A., B.S., St. Paul  
 Edward Frank Gorrilla, B.S., Ironwood, Mich.  
 Alice Dorothea Hill, B.A., Minneapolis  
 Ruben Eli Komanti, B.S., Duluth

\* Nursing Education Curriculum.

# SCHOOL OF BUSINESS ADMINISTRATION

## Bachelor of Business Administration

- Glenn Larrabee Allen, Jr., Minneapolis  
Ralph Isaac Allison, Minneapolis  
George Palmer Armstrong, Minneapolis  
Douglas Ten Eyck Berg, Stillwater  
Garland Curtis Brandt, Moorhead  
Loren Walter Brixius, Minneapolis  
Blaine C. Burdick, Lake Mills, Iowa  
Alpha Louise Carlson, Minneapolis,  
WITH DISTINCTION  
Clifford O. Charlson, Kenyon  
Henry Einer Christensen, Minneapolis  
Richard James Chrysler, St. Paul  
Richard Lloyd Colby, Sandstone  
Walter Sherer Craver, Palm Springs,  
Calif.  
Royce Waldo Day, Raymond  
Milan M. Dostal, Hutchinson  
James Harold Foss, Prairie du Chien,  
Wis.  
Kenneth Milton Garfield, Minneapolis  
Edward James Giel, Winona  
Russell Leonard Gleason, Minneapolis  
Roland Douglas Graham, Minneapolis  
Richard Norbert Grassmann, A.A.,  
New Prague  
Wallace Joseph Greenstein, St. Paul  
Lester Norris Hansen, Minneapolis  
Warren Hanson, Duluth  
Gene Elden Harnack, Rochester  
Helen Elizabeth Holmes, Minneapolis  
William John Jaks, Virginia  
Charles Thomas Johnson, Minneapolis  
Clayton Russell Johnson, B.Ch.E.,  
Minneapolis  
Wayne Albert Johnson, Minneapolis  
Willard Reuben Johnson, St. Paul  
Ross Byron Jorgensen, Minneapolis  
Harold Edward Kastan, Minneapolis  
Stuart Kaufman, St. Paul  
Richard F. Keefe, St. Paul  
Robert Francis Keegan, Minneapolis  
Francis Einar Koppala, Bovey  
Eugene Louis Kubiak, St. Paul  
John Arthur Lindquist, Minneapolis  
Joseph Jerome Maley, Minneapolis  
Dennis Darrel McElfish, Massena,  
Iowa  
Gerald M. Mitchell, Minneapolis,  
WITH DISTINCTION  
Donald Gene Nelson, Lake Mills,  
Iowa  
Donald Ross Nygaard, Minneapolis  
LeRoy Francis Piche, Minneapolis,  
WITH DISTINCTION  
Kenneth Marlow Reed, Minneapolis  
William Elwood Schafer, Minneapolis  
Robert John Somers, Fond du Lac,  
Wis.  
Paul Isamu Tamaki, Pasadena, Calif.  
William Ellis Tessmer, St. Louis Park  
Theodore Norman Thomas, Minne-  
apolis  
Mary Martha Thomassen, Albert Lea  
Richard Harvey Tschudy, Minneapo-  
lis, WITH DISTINCTION  
Robert Earl Wenzel, A.L.A., St. Paul  
Vincent Otis Wollum, St. Paul

## Bachelor of Science in Economics

Robert Warren Thurston, Minneapolis

## LAW SCHOOL

### Bachelor of Science in Law

Leonard Alfred Wilson, Jr., Mahanomen

## Bachelor of Laws

Leonard Alfred Wilson, Jr., Mahanomen

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Professional Nursing

Doris Bailey, Cincinnati, Ohio  
Helene Louise Bakke, Minneapolis  
Shirley Knecht Bersagel, Bismarck,  
N.D.  
JoAnn Marie Bouma, St. Paul  
Russell Thomas Church, Minneapolis  
Shirley Mavis Click, Lewiston, Mont.

Arlyne Beverly Groth, Kadoka, S.D.  
Carol Marie Johnson, A.A., Cloquet  
Eugene A. Roedl, Eden Valley  
Lois Hansene Rostad, Moorhead  
Phoebe Jean Stevenson, Tintah  
Margaret Frances Whelpley, Spokane,  
Wash.  
Nancy Ray Wright, Minneapolis

### Bachelor of Science

Phyllis Vieregge Cooksey, R.N., Min-  
neapolis, *Public Health Nursing*,  
WITH HIGH DISTINCTION  
Clarice Phyllis Foley, Albert Lea,  
Medical Technology\*  
Joan Elizabeth Gruba, Minneapolis,  
Public Health Nursing  
Cornelius Kooiman, Minneapolis, Oc-  
cupational Therapy  
Marvin Gilmore Lepley, St. Paul, Oc-  
cupational Therapy  
Amelia Catherine Logar, R.N., Ely,  
Public Health Nursing  
Mary Louise Mitchell, Rochester, Oc-  
cupational Therapy

Dorothea Eva Nippoldt, St. Paul,  
Medical Technology\*  
Helen Christine Okan, Minneapolis,  
Public Health Nursing  
Luise E. Politis, Minneapolis, Medi-  
cal Technology  
Marjorie Martha Robb, Wadena, Pub-  
lic Health Nursing  
Louina Ann Younger, Menasha, Wis.,  
Public Health Nursing, WITH DIS-  
TINCTION  
Janice Lorna Zettler, Mankato, Occu-  
pational Therapy, WITH DISTINCTION

### Master of Public Health

William Austin Allen, B.A., Minne-  
apolis  
Dorothy Boone, B.S., Fayetteville,  
N.C.  
Agnes Butoryak, B.S., Farrell, Pa.  
Mary Alice Collins, Scarsdale, N.Y.  
Mildred E. Kingcade, B.S., R.N.,  
Benton, Ky.  
Frances Ellen Locke, B.S., Hammond,  
Ind.

Marion Ransom Nighman, B.S., Min-  
neapolis  
Lois Dorothy Peterson, B.S., Coleraine  
Charlotte Amanda Querns, B.S., Mill-  
ville, N.J.  
Rona Schuett Whelan, B.S., Boise,  
Idaho  
Dolores Marie Zeis, B.S., St. Louis,  
Mo.

\* These degrees are conferred subject to satisfactory completion of required practical work prior to June 14, 1952.

# GRADUATE SCHOOL

## Master of Arts

Henry Albers, Andover, Mass.  
B.A. '49, Harvard College. Major: Astronomy. Minor: Physics. Thesis: The Stars of Large Proper Motion.

Gordon Duane Alston, Minneapolis  
B.S. *magna cum laude* '50, Lawrence College. Major: Sociology. Minor: Anthropology. Thesis: Trend and Analysis of Protestant and Catholic Stereotypes.

Harold Bernard Ause, Harmony  
B.A. '34, St. Olaf College. Field of Concentration: Educational Administration.

Kenneth Clinton Bailey, Grafton, N.D.

B.A. *magna cum laude* '50, St. Olaf College. Major: Philosophy. Minor: Psychology. Thesis: The Ethics and Social Philosophy of Reinhold Niebuhr.

Bartlett James Baker, St. Paul  
B.A. '48, University of Minnesota. Field of Concentration: History.

Margaret Elaine Betz, East Liverpool, Ohio

B.A. '48, Ohio State University. Major: Child Welfare. Minor: Psychology. Thesis: An Investigation of the Effects of Puberty on Girls' Productions on the Horn-Hellersberg Drawing Test.

John Wolfgang Bohnstedt, East Lansing, Mich.

B.A. with high honor '50, Michigan State College. Major: History. Minor: Philosophy. Thesis: Peaceful Relations between Muslims and Latin Christians in Syria, 1101-1154.

Forrest Edgar Brown, Zimmerman  
B.A. *summa cum laude* '50, Hamline University. Field of Concentration: History.

Andrew Christopherson Brueberg, Pine River

B.A. '32, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.

George Milford Christensen, Wilmot, S.D.

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

Judith Harriet Cieslak, Eden Prairie  
B.A. '50, New York University. Major: Art. Minor: Classics. Thesis: Seven Greek Vases from the Collection of The Walker Art Center, Minneapolis, Minnesota.

Sherwood Martin Cleveland, Anoka  
B.S. '48, University of Minnesota. Field of Concentration: Educational Administration.

Marian MacNeil Deininger, Minneapolis

B.A. *magna cum laude* '49, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: A Study of the Social Aspects of an Anglo-American Community in Minnesota, Historically Considered.

James Edward DeSautelle, Ironwood, Mich.

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

Forrest Leroy Erlandson, Minneapolis  
B.A. *cum laude* '48, University of Minnesota. Field of Concentration: Psychology.

Beulah Theresa L. Gautefald, St. Paul  
B.S. '37, University of Minnesota. Field of Concentration: Child Welfare.

Leon Haaland, Columbus, N.D.

B.A. '37, St. Olaf College. Field of Concentration: Educational Administration.

James Dwight Harris, Winona

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

Clarence Hein, Minneapolis

B.A. *cum laude* '41, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Use of Pre-primary Endorsements in Minnesota.

Lyle Sheldon Hoffman, Minneapolis

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

Jeremiah Beswick Hogan, Kenosha, Wis.

B.S. '48, Stout Institute. Field of Concentration: Industrial Education.

Alton Albernon Hovern, Upsala

B.S. '38, LaCrosse State Teachers College. Field of Concentration: Educational Administration.

Clayton Vernon Kallander, St. Paul  
B.A. '50, University of Minnesota. Field of Concentration: History.

Clara Kanun, St. Paul  
B.A. '50, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Residential Mobility of Public Assistance Recipients in St. Paul, Minnesota.

Stanley Benjamin Kegler, South St. Paul  
B.S. with distinction '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Morton Roy Kenner, Rochester, N.Y.  
B.A. *cum laude* '49, University of Rochester. Major: Mathematics. Minor: Philosophy. Thesis: On Completeness and Undecidable Propositions.

Richard H. Kosaki, Honolulu, T.H.  
B.A. with honors '49, University of Hawaii. Field of Concentration: Political Science.

Vernon William Kruse, Chapin, Iowa  
B.S. '39, Iowa State Teachers College. Field of Concentration: Educational Administration.

Dorothy McBride, St. Paul  
B.A. '49, University of Minnesota. Field of Concentration: Psychology.

Keith Nielson McFarland, St. Paul  
B.S. '42, University of Minnesota. Field of Concentration: Educational Psychology.

Lowell Hugo Melbye, Ulen  
B.S. '46, Moorhead State Teachers College. Field of Concentration: Educational Administration.

Lester Walter Milbrath, Bertha  
B.A. *magna cum laude* '51, University of Minnesota. Field of Concentration: Political Science.

Clayton Peter Morgan, Minneapolis  
B.A. '31, Augsburg College. Field of Concentration: Curriculum and Instruction.

Constance Burkhardt Nelson, Owatonna  
B.A. '38, William Jewell College. Major: Child Welfare. Minor: Psychology. Thesis: An Exploratory Study of Awareness of Differences in Social Roles of Negroes and Whites in Kindergarten and Fourth Grade Children Using a Marionette-Interview Technique.

Milton John Nesbit, St. Charles  
B.A. *magna cum laude* '50, Hamline University. Field of Concentration: Economics.

Kirsten Margrethe Oglænd, Sandnes, Norway  
B.A. '50, St. Olaf College. Field of Concentration: American Studies.

Marjorie Perry, Clear Lake, Iowa  
B.A. '44, Iowa State Teachers College. Field of Concentration: Political Science.

Ruth E. Potter, St. Paul  
B.A. '41, University of Illinois. Field of Concentration: Psychology.

Peirce Russell Ressler, Park Rapids  
B.B.A. '48, University of Minnesota. Field of Concentration: English.

Donald Patrick Rice, Lester Prairie  
B.E. '47, LaCrosse State Teachers College. Field of Concentration: Educational Administration.

Edward Louis Robinson, Minneapolis  
B.A. '44, State University of Iowa. M.S. '48, University of Colorado. Field of Concentration: Journalism.

Thelma Evelyn Sneide, Duluth  
B.E. '38, Duluth State Teachers College. Field of Concentration: Mathematics.

Tiat Han Tan, Indramayu, Indonesia  
B.A. '50, Northwestern Schools. Field of Concentration: History.

Francis Moore Tompkins, St. Paul  
B.A. *magna cum laude* '50, University of Minnesota. Major: Political Science. Minor: English. Thesis: The City Manager and the School Superintendent: A Comparative Study.

James Campbell Underhill, Duluth  
B.A. '49, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: The Effect of Temperature on Food Consumption in Fishes, with Special Reference to the Brown Bullhead, *Ameiurus nebulosus* (Le Seur).

Paul Willard Weiblen, Miller, S.D.  
B.A. with high distinction '50, Wartburg College. Field of Concentration: History.



## Master of Arts in Public Administration

Barbara Jeanne Stuhler, Evanston, Ill.  
B.A. '45, MacMurray College. Major: Public Administration. Thesis: The Administration of a Volunteer Civic Organization: The League of Women Voters of Minnesota.

## Master of Science

Duane Clarence Brown, Grand Forks, N.D.

B.S. '51, Yale University. Major: Mathematics. Minor: Statistics. Thesis: Approximate Summation of Series.

Arthur Lain Brundage, Walkill, N.Y.

B.S. with distinction '50, Cornell University. Major: Dairy Husbandry. Minor: Physiological Chemistry. Thesis: A Comparison between Daily Rotational and Continuous Grazing Pasture Management Using Monozygotic Cattle Twins.

George Christianson, St. Paul

B.S. '39, South Dakota State College. M.S. '40, University of Tennessee. Major: Agricultural Biochemistry. Minor: Dairy Husbandry. Thesis: The Influence of Certain Factors on the Physical Stability of Frozen Concentrated Milk during Storage.

Mary Ellen Cook, Tyler, Tex.

B.S. cum laude '46, Texas College. Field of Concentration: Home Economics.

Harold Seth Crawford, Beaver Creek

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

Philip John Dziuk, Foley

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

Bernard Adolph Fashingbauer, St. Paul

B.S. '49, University of Minnesota. Major: Economic Zoology. Minor: Botany. Thesis: The Effects of Defoliation by the Forest Tent Caterpillar, *Malacosoma disstria*, Hbn., and Spraying for the Control of the Forest Tent Caterpillar upon Bird Life and the Effects of Spraying for the Control of the Forest Tent Caterpillar upon Amphibians.

James Frederick Fisher, Williamsport, Pa.

B.S. '50, The Pennsylvania State College. Major: Organic Chemistry. Minor: Agricultural Biochemistry. Thesis: Reduction of Organic Compounds with Aluminum Alkoxides.

William Henry Harrison, Jr., Fargo, N.D.

B.A. cum laude '48, University of Minnesota. Major: Agricultural Biochemistry. Minor: Physical Chemistry. Thesis: Chemical, Potentiometric and Polarographic Studies of the  $\alpha$ Tocopherol- $\alpha$ Tocopheroxide System.

Milton Leonard Korpi, Dassel

B.S. '41, University of Minnesota. Field of Concentration: Agricultural Education.

Philip Rodney Larson, North Branch

B.S. with distinction '49, University of Minnesota. Major: Forestry. Minor: Soils. Thesis: The Tolerance of Forest Nursery Stock to Various Applications of Sodium Trichloroacetate.

Lawrence Charles Paulson, St. Paul

B.S. '50, University of Minnesota. Field of Concentration: Mathematics and Mechanics.

Joseph Vickers Raine, Staples

B.S. '40, University of Minnesota. Field of Concentration: Agricultural Education.

Otto Ludwig Stein, Minneapolis

B.S. with distinction '49, University of Minnesota. Major: Plant Genetics. Minor: Botany. Thesis: A Comparison of Embryonic Growth Rates in Two Inbreds of *Zea mays* L. and Their Reciprocal Hybrids.

Thomas Fairlamb Stratton, Kansas City, Mo.

B.S. '49, Union College. Major: Physics. Minor: Mathematics. Thesis: The Experimental Determination of the Excited Nuclear Level in Beryllium 7.

Godfrey Porter Van Meter, Bowling Green, Ky.

B.S. '38, Arkansas Agricultural, Mechanical and Normal College. Field of Concentration: Agricultural Education.

Mary Ellen Warters, Des Moines, Iowa

B.A. '47, Oberlin College. Field of Concentration: Entomology.

## Master of Science in Aeronautical Engineering

John Jule Herfurth, Milwaukee, Wis.  
B.Aero.E. with distinction '50, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Determination of the Induced Velocity Distribution Along the Diameter of a Lifting Rotor in Forward Flight by Means of the Goldstein Vortex Theory.

## Master of Science in Agricultural Engineering

Dilip Kumar Goswami, Sibsagar, Assam, India

B.Sc. in Ag.Eng. '47, University of Allahabad. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: The Efficiency of Combining from the Windrow as a Function of Drill Row Spacing.

Charles Peter Hedlin, Saskatoon, Saskatchewan, Canada

B.Ag.E. '50, University of Saskatchewan. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Design and Construction of and Research with a Fluidizing Grain Conveyor, with a View to Investigating Its Possible Application to Farm Use.

## Master of Science in Chemical Engineering

Shafi Ul Hossain, Pakistan

B.S. '44, M.S. '46, University of Calcutta. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: High Temperature Vapor Liquid Equilibrium Still for Zinc-cadmium System.

James Andrew Smith, Northampton, Pa.

B.S. in Ch.E. '50, B.A. '50, Lehigh University. Major: Chemical Engineering. Minor: Business Administration. Thesis: The Effect of Temperature and Intraparticle Diffusion on Catalysis in Heterogeneous Systems.

Tung Tsang, Wushing, Chekiang, China

B.S. in Ch.E. '49, University of Utopia (China). Major: Chemical Engineering. Minor: Organic Chemistry. Thesis: Analytical Solution of Transient State Heat Transfer in Packed Beds.

## Master of Science in Civil Engineering

Robert Brooks Carroll, Minneapolis

B.C.E. '50, University of Minnesota. Field of Concentration: Civil Engineering.

## Master of Science in Industrial Engineering

Robert Warren Manske, Minneapolis

B.M.E. '50, University of Minnesota.

Major: Industrial Engineering. Minor: Business Administration. Thesis: An Investigation of the Relationship between Complexity of Manual Operations and Performance Times.

## Master of Science in Mechanical Engineering

Thomas Francis Irvine, Jr., St. Paul  
B.S. in E.E. '47, Pennsylvania State College.  
Major: Mechanical Engineering. Minor: Aero-  
nautical Engineering. Thesis: Heat Transfer by  
Forced Convection from a Flat Plate with  
Large Temperature Gradients.

Jen-Hsia Sun, Kiangsu, China  
B.S. in M.E. '41, National Central Univer-  
sity (China). Field of Concentration: Me-  
chanical Engineering.

## Master of Science in Medicine

William Joseph Block, Jr., San An-  
tonio, Tex.

B.A. '42, St. Mary's University. M.D. '45,  
University of Texas. Major: Medicine. Minor:  
Anatomy (Hematology). Thesis: Effect of  
Small Doses of Heparin in Increasing the  
Translucence of Plasma during Alimentary  
Lipemia. Studies in Normal Persons and Pa-  
tients Having Atherosclerosis.

Hugh Henderson Hanson, Pittsburg,  
Tex.

B.S. '41, M.D. '43, University of Texas. Ma-  
jor: Medicine. Minor: Anatomy (Hematology).  
Thesis: The Effect of Menadione Sodium  
Bisulfite and Vitamin K<sub>1</sub> on the Prothrombin  
Deficiency Induced by 4-Hydroxycoumarin An-  
ticoagulant No. 63 in Human Beings.

## Master of Science in Psychiatry

Karem John Monsour, Valentine,  
Neb.

B.S. '42, M.D. '45, University of Nebraska.  
Major: Psychiatry. Minor: Neuropathology.  
Thesis: Spasmodic Torticollis.

## Master of Social Work

James Thomas Peterson, St. Paul  
B.A. '48, Hamline University. Field of Con-  
centration: Social Work.

Frances Honora Zeglen, Anoka  
B.A. '31, Minot State Teachers College. Field  
of Concentration: Social Work.

## Doctor of Philosophy

Mahmoud A. O. Abdel-Akher, Tahta,  
Egypt

B.S. '41, Fouad I University. M.S. '47, Uni-  
versity of Minnesota. Major: Agricultural Bio-  
chemistry. Minor: Organic Chemistry. Thesis:  
The Constitution of Glycogen. Major Adviser:  
Prof. Fred Smith.

Khalid Tahsin Ali, Baghdad, Iraq

B.S. '46, Fouad I University. M.S. '48, Uni-  
versity of California. Major: Animal Hus-  
bandry. Minor: Plant Genetics. Thesis: The  
Heritability of, and the Effects of Some En-  
vironmental Factors on, the Birth Weight, the  
Weaning Weight, and the Grease Fleece  
Weight of Sheep. Major Adviser: Prof. L. M.  
Winters.

William Egidius Bleidner, St. Paul

B.S. '43, M.S. '45, University of Rochester.  
Major: Agricultural Biochemistry. Minor:  
Physical Chemistry. Thesis: The Construction  
and Calibration of a Light Scattering Photome-  
ter. Major Adviser: Prof. D. R. Briggs.

Charles Alexander Campbell, Jr.,  
Springfield, Mass.

B.A. '47, University of Massachusetts. M.A.  
'48, University of Chicago. Major: English.  
Minor: History. Thesis: "The Great American  
Novel"—A Study in Literary Nationalism,  
1870-1900. Major Adviser: Prof. Theodore  
Hornberger.

- Tung Fang Chao, Shangtung, China  
B.S. '42, Shengsi National Northwestern College of Agriculture. M.S. '48, University of Minnesota. Majors: Horticulture and Agricultural Botany. Minor: Botany. Thesis: A Study of the Phytotoxic Action of 2,4-Dichlorophenoxyacetic Acid on Certain Aquatic Plants. Major Advisers: Profs. W. H. Alderman and E. C. Stakman.
- Clifford M. Christensen, Wilmot, S.D.  
B.A. *cum laude* '48, M.A. '49, University of Minnesota. Major: Educational Psychology. Minors: Psychology and Statistics. Thesis: Multivariate Statistical Analysis of Differences between Selected Groups of College Students. Major Advisers: Profs. W. W. Cook and P. O. Johnson.
- Gilbert Corwin, St. Paul  
B.S. *cum laude* '43, Harvard University. Major: Geology. Minor: Mining. Thesis: The Petrology and Structure of the Palau Volcanic Islands. Major Adviser: Prof. S. S. Goldich.
- Narendra Lal Dhawan, Nagpur, India  
B.S. '42, M.S. '44, Nagpur University. Major: Horticulture. Minor: Agronomy. Thesis: Studies on the Effects of Growth-regulating Substances on Fruitfulness in Field-grown Tomatoes and the Relation between Seed Formation and the Production of Growth-regulating Substances in the Fruit. Major Advisers: Profs. R. E. Nylund and A. N. Wilcox.
- John Dick Donker, St. Paul  
B.S. '48, University of California. Major: Dairy Husbandry. Minor: Physiology. Thesis: Problems Associated with Superovulation and Transplantation of Fertilized Ova in the Bovine. Major Adviser: Prof. W. E. Petersen.
- David W. French, St. Paul  
B.S. with distinction '43, M.S. '49, University of Minnesota. Majors: Plant Pathology and Forestry. Thesis: The Phenomena of Plugging in Paper Machine Wet Felts. Major Advisers: Profs. C. M. Christensen and F. H. Kaufert.
- Edgar Lionel Gasteiger, Jr., Harrisburg, Pa.  
B.A. '42, Allegheny College. M.S. '43, University of Illinois. Major: Biophysics. Minor: Physiology. Thesis: The Effects of Beta Rays on the Conducted Action Potentials of Nerves. Major Adviser: Prof. Berry Campbell.
- Robert Warren Geiger, Minneapolis  
B.Chem. '44, University of Minnesota. Major: Analytical Chemistry. Minor: Agricultural Biochemistry. Thesis: The Carbon Tetrachloride Extraction of Copper (II) Dithionite. Major Adviser: Prof. E. B. Sandell.
- Kenneth Warren Hanson, Wheaton  
B.S. '48, M.S. '51, University of Minnesota. Major: Horticulture. Minor: Plant Genetics. Thesis: The Inbreeding and Outbreeding Behavior of Certain Strawberry Clones with Respect to Ascorbic Acid Content of the Fruit and Fruit Size. Major Adviser: Prof. A. N. Wilcox.
- Rowland Frank Hein, Minneapolis  
B.Ch.E. with distinction '44, University of Minnesota. Major: Chemical Engineering. Minor: Agricultural Biochemistry. Thesis: Continuous Stirred Tank Reactors: Mass Transfer Rates in Liquid-Liquid Systems. Major Adviser: Prof. A. J. Madden.
- David Henry Heinrichs, Swift Current, Sask., Canada  
B.S.A. '38, M.Sc. '41, University of Saskatchewan. Major: Plant Genetics. Minor: Botany. Thesis: Methods of Breeding Intermediate Wheatgrass, *Agropyron intermedium* (Host.) Beauv. Major Adviser: Prof. H. K. Hayes.
- William Robert Hess, St. Paul  
B.A. '40, M.S. '49, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: A Study of Bovine Brucella Agglutinins. Major Advisers: Profs. J. C. Olson and M. H. Roepeke.
- Donald Louis Hill, Klaber, Wash.  
B.S. '43, State College of Washington. Major: Dairy Husbandry. Minor: Physiological Chemistry. Thesis: A Study of the Progesterone Hormone in the Bovine. I. The Effect on the Mammary Gland and Lactation. II. The Presence and Estimation of a Progesterone Substance Circulating in the Blood. Major Adviser: Prof. W. E. Petersen.
- Hugh Howison Hotson, Seattle, Wash.  
B.S. '38, M.S. '40, University of Washington. Major: Plant Pathology. Minor: Botany. Thesis: Studies on the Physiology of the Rust Fungi. Major Adviser: Prof. E. C. Stakman.
- Stanley Evers Jacobs, Evanston, Ill.  
B.S. '36, Northwestern University. M.A. '49, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: Compulsory Military Training in College and Subsequent Success in the Armed Forces during World War II. Major Adviser: Prof. D. G. Paterson.
- Scott Doran Johnston, St. Paul  
B.A. *magna cum laude* '44, B.S. '45, M.A. '47, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Socialist Party in the Conference for Progressive Political Action. Major Adviser: Prof. A. N. Christensen.

**Ian Fyvie Keith, Aberdeen, Scotland**  
B.Sc. '48, University of Aberdeen. M.S. '50, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Place of Livestock in the Systems of Farming in Southern Minnesota. Major Adviser: Prof. G. A. Pond.

**Robert B. Koch, St. Paul**

B.S. with distinction '48, University of Minnesota. Major: Agricultural Biochemistry. Minor: Botany. Thesis: The Fate of the Sugars in Bread Doughs and Synthetic Nutrient Solutions Undergoing Fermentation with Bakers' Yeast. Major Advisers: Profs. W. F. Geddes and Fred Smith.

**John Edgar Lancaster, Newell, W. Va.**  
B.S. '42, Duquesne University. Major: Physical Chemistry. Minor: Mathematics. Thesis: The Vibrational Spectra of Some Deutero-Ethylenes. Major Adviser: Prof. Bryce Crawford, Jr.

**Frank A. Loewus, St. Paul**

B.S. '42, M.S. '50, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Physical and Chemical Properties of Starch. The Retrogradation of Amylose in the Presence and Absence of Gelatinizing Agents and Similar Compounds. Major Adviser: Prof. D. R. Briggs.

**Lorenzo Martinez M., Saltillo, Coahuila, Mexico**

Ing. Agr. '36, Escuela Superior de Agricultura "Antonio Narro." M.S. '41, Iowa State College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance of Reaction to Leaf Rust, *Puccinia rubigo-vera tritici* (Eriks.) Carleton, and of Certain Other Characters in a Wheat Cross. Major Adviser: Prof. E. R. Ausemus.

**Elizabeth Ann Mee, Dallas, Texas**

B.A. '40, M.A. '47, Southern Methodist University. Major: Psychology. Minor: Psychiatry. Thesis: A Psychometric Study of Diffuse and Focal Cerebral Pathology Groups. Major Adviser: Prof. P. E. Meehl.

**David Oscar Moberg, St. Paul**

B.A. '47, Seattle Pacific College. M.A. '49, University of Washington. Major: Sociology. Minor: History. Thesis: Religion and Personal Adjustment in Old Age—A Study of Some Aspects of the Christian Religion in Relation to Personal Adjustment of the Aged in Institutions. Major Adviser: Prof. E. D. Monachesi.

**Mary Frances Myatt, Dallas, Tex.**

B.A. '30, M.A. '48, Southern Methodist University. Major: Psychology. Minor: Psychiatry. Thesis: A Study of the Relationship between Motivation and Test Performance of Patients in a Rehabilitation Ward. Major Adviser: Prof. P. E. Meehl.

**Paul Chester Nagel, Minneapolis**

B.A. '48, M.A. '49, University of Minnesota. Major: History. Minor: English. Thesis: The Era of Good Feeling: Foundation for Disunion. Major Adviser: Prof. G. M. Stephenson.

**Helen Young Nelson, Minneapolis**

B.S. '38, M.S. '42, University of Minnesota. Major: Education. Minor: Home Economics. Thesis: Factors Related to the Extent of Mortality among Home Economics Students in Certain Colleges of Minnesota, Wisconsin and Iowa during 1943-50. Major Advisers: Profs. C. G. Wrenn and C. B. Army.

**Chandravadan Hiralal Pathak, Gijaram, India**

B.Sc. '46, B.Sc. '47, M.Sc. '49, University of Bombay. Majors: Agronomy and Soils. Minor: Plant Genetics. Thesis: Effect of Pre-emergence Treatment with 2,4-D on Weeds in Corn and on Various Soil Properties. Major Advisers: Profs. R. S. Dunham and C. O. Rost.

**Marion Walter Pedersen, Logan, Utah**

B.S. '41, M.S. '42, University of Nebraska. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Nectar Production in Alfalfa Clones as Related to Bee Visitation and Seed Production Including a Study of Techniques for Measuring Nectar. Major Adviser: Prof. H. L. Thomas.

**Ralph William Richardson, Jr., Mexico City, Mexico**

B.S. '48, University of Minnesota. Major: Horticulture. Minor: Plant Genetics. Thesis: Genetic Effects of Reduced Fertilization in Tomato Flowers. Major Adviser: Prof. T. M. Currence.

**Francis Edward Rourke, Minneapolis**

B.A. '47, M.A. '48, Yale University. Major: Political Science. Minor: Economics. Thesis: Reorganization of the Labor Department. Major Adviser: Prof. William Anderson.

**John Peter Ryan, St. Paul**

B.S. cum laude '43, College of St. Thomas. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: A Study of the Claisen Rearrangement Using Radioactive Carbon. Major Advisers: Profs. F. H. MacDougall and P. R. O'Connor.

John Sheldon Showell, Urbana, Ill.  
B.S. '46, M.S. '49, California Institute of  
Technology. Major: Organic Chemistry. Mi-  
nor: Physical Chemistry. Thesis: Cyclopropane  
XI: Action of Bases Upon Certain Tertiary  
Nitrocyclopropyl Ketones. Major Adviser:  
Prof. L. I. Smith.

Margaret Susan Sweetser, Minneapolis  
B.A. magna cum laude '40, B.S. '42, M.A. '42,  
University of Minnesota. Major: English. Mi-  
nor: History. Thesis: Herman Melville's Con-  
ception of the Great Writer and His Experi-  
ments in Literary Manners. Major Adviser:  
Prof. Tremaine McDowell.

Leo Eli Topol, Fall River, Mass.  
B.S. with honor '46, Northeastern University.  
Major: Physical Chemistry. Minor: Physio-  
logical Chemistry. Thesis: Ionic Equilibria in  
Aqueous and Mixed Solvent Solutions of Silver  
Acetate and Silver Monochloroacetate. Major  
Adviser: Prof. F. H. MacDougall.

George Calvin Webster, Kalamazoo,  
Mich.

B.S. '48, Western State Teachers College  
(Michigan). M.S. '49, University of Min-  
nesota. Major: Botany. Minor: Agricultural  
Biochemistry. Thesis: Studies on the Distribu-  
tion and Properties of a Cytochrome Oxidase  
in the Tissues of Higher Plants. Major Ad-  
viser: Prof. A. W. Frenkel.

Keith Gordon Wikle, Sioux Falls,  
S.D.

B.S. in Met.E. '43, South Dakota School of  
Mines and Technology. M.S. '47, University  
of Minnesota. Major: Metallurgical Engineer-  
ing. Minor: Physical Chemistry. Thesis: Grain  
Refinement in Magnesium Alloys. Major Ad-  
viser: Prof. R. L. Dowdell.

Victor Bernarr Youngner, St. Paul  
B.S. '48, University of Minnesota. Major: Hor-  
ticulture. Minor: Botany. Thesis: A Study of  
the Inheritance of Several Characters in the  
Cucumber, *Cucumis sativus*, L. Major Adviser:  
Prof. A. E. Hutchins.

## Doctor of Philosophy in Surgery

Karl Eugene Karlson, St. Paul  
B.S. '43, M.D. '45, University of Minnesota.  
Major: Surgery. Minor: Pathology. Thesis:  
The Problem of Construction of a Pump and  
Oxygenator to Replace the Heart and Lungs  
for Brief Periods. Major Advisers: Drs.  
Clarence Dennis and R. L. Varco.

# CAPS AND GOWNS

## AN EXPLANATION

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

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

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

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

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

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

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

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

(In the order of their appearance on the platform)

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



THE  
UNIVERSITY OF MINNESOTA

Announces Its

*June Commencement*

*1952*

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





## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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The Honorable Sheldon V. Wood, Minneapolis

## *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 first 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 107,000 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 nineteen thousand students on its Minneapolis, St. Paul, and Duluth campuses, the University offers, through its Schools of Agriculture, its General Extension Division, and its short courses, specialized training designed to assist those who wish to study on a part-time basis. Still in addition, its staff members who are county agents, home demonstration agents, and recreation and health consultants give effective aid and assistance to citizens of the state in their very homes.

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

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

The people of Minnesota are proud of their University, not only because it is one of the greatest 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 new Variety Club Heart Hospital to be dedicated and for the great Mayo Memorial building to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases.

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

## *Order of Events* \*

**THE ASSEMBLING OF THE AUDIENCE:** As guests reach the Minneapolis Campus of the University of Minnesota from 7:00 to 7:30 p.m., they will be interested in hearing the Flemish bells being played from Northrop Memorial Auditorium; Mr. Edward Berryman, Instructor in Music, at the console. No seats for the commencement exercises in Memorial Stadium are reserved. All open entrances to the Stadium may be used.

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

Panis Angelicus - - - - -	- Franck
Torch Dance, Fackeltanz in B Flat - - - - -	- Meyerbeer
First Movement, Symphony in B Minor - - - - -	- Schubert
Die Fledermaus, Overture - - - - -	- Strauss
Czardas from Suite de Ballet "Coppelia" - - - - -	- Delibes

**PROCESSIONALS:**

March from "Tannhäuser" - - - - -	- Wagner
Coronation March from "The Prophet" - - - - -	- Meyerbeer

**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 Air Science and Tactics; Department of Naval Science; General Extension Division; General College; College of Science, Literature, and the Arts; University College; Institute of Technology; College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; College of Education; School of Business Administration; College of Pharmacy; Law School; School of Dentistry; College of Medical Sciences; Graduate School. University faculty members, regents, and distinguished guests will be last in the line of march.

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

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

## *Order of Events*

**THE NATIONAL ANTHEM:** The entire audience, still standing, and Mr. Roy A. Schuessler, M.A., Associate Professor of Music, soloist.

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

**INVOCATION** (the audience still standing): The Reverend Wilbur Korfhage, Director, Wesley Foundation, and Adviser to Methodist students at the University.

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

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

**CONFERRING OF DEGREES:** Vice President Willey will introduce the deans of the several colleges who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Assistant Dean Huntington Miller, LL.B., University Extension; Dean H. T. Morse, Ph.D., General College; Dean E. W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Assistant Dean J. W. Buchta, Ph.D., Chairman of the Faculty, University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Henry Schmitz, Ph.D., College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Acting Dean Marcia Edwards, Ph.D., College of Education; Assistant Dean R. K. Gaumnitz, Ph.D., School of Business Administration; Dean C. H. Rogers, Sc.D., College of Pharmacy; Dean M. E. Pirsig, LL.B., Law School; Dean W. H. Crawford, D.D.S., School of Dentistry; Dean H. S. Diehl, M.D., College of Medical Sciences; Dean T. C. Blegen, Ph.D., Graduate School.

## *Order of Events*

**PRESENTATION OF DIPLOMAS:** With Vice President Malcolm M. Willey presiding, all members of the June graduating class will pass across the stage in columns of four and will receive their diplomas.

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

**“HAIL! MINNESOTA,”** the University’s Alma Mater song: The audience and Mr. Roy A. Schuessler, soloist.

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

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

**TAPS:** The University Concert Band.

## *Candidates for Commissions*

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

### DEPARTMENT OF MILITARY SCIENCE AND TACTICS

#### **First Lieutenant, Dental Corps**

James E. Cermak, Lester Prairie  
William G. Dimick, Faith, S.D.  
William J. Dresser, Arlington  
Clement N. Herred, Mobridge, S.D.  
Davey E. Lieb, Minneapolis

Edward C. Linden, Duluth  
James E. Lofstrand, Minneapolis  
Alan O. Stewart, St. Louis Park  
Harvey R. Wiebold, Good Thunder

#### **First Lieutenant, Medical Corps**

George L. Barnard, Bonnerville, Idaho  
William R. Glenny, Minneapolis  
Donald A. Jones, Minneapolis

Maurice L. Lindblom, Minneapolis  
Arthur J. Wyatt, Jr., Washington,  
D.C.

#### **Second Lieutenant, Coast Artillery Corps**

Charles A. Callahan, Jr., St. Paul  
Wayne R. Flynn, Porter  
David C. Forsberg, Minneapolis  
Ervin H. Geiger, Jr., Minneapolis  
Luther P. Gerlach, Robbinsdale  
Robert P. Goodmundson, Montevideo  
Patrick D. Griffin, St. Paul  
John W. Josse, Minneapolis  
Peter P. Kapusta, Max, N.D.  
Lynn D. Klinkenborg, Alexandria  
Robert J. Kunz, St. Paul

Theodore Miles, Minneapolis  
Richard J. Myshak, Rhineland, Wis.  
Leonard S. Partridge, Minneapolis  
Willard J. Patty, Jr., Minneapolis  
Harland H. Roepke, St. Paul  
Sidney J. Verlautz, Pine River  
Theodore H. Virnig II, Minneapolis  
Lester R. Voell, Minneapolis  
William L. Waldron, Minneapolis  
Richard R. Williams, St. Paul  
Roland C. Williams, St. Paul

#### **Second Lieutenant, Corps of Engineers**

Orlando B. Andersland, Emmons  
Robert E. Anderson, Minneapolis  
Darrell W. Crawford, Austin  
Edward W. Eardley, Elgin, Ill.  
Roy C. Engstrom, Minneapolis  
Richard T. Faricy, St. Paul  
Willard F. Frantz, Jr., St. Paul  
John L. Gable, St. Paul

William E. Jensen, Minneapolis  
Roger B. Lee, St. Paul  
Richard C. Lueben, Austin  
Thomas O. Moore, Rochester  
James R. Rush, Minot, N.D.  
George T. Semple, St. Paul  
Richard J. Vasatka, Mendota  
Richard B. Vosejpkka, Lonsdale

## Second Lieutenant, Medical Service Corps

William R. Belleau, Green Bay, Wis.	Bertram S. Leach, Minneapolis
Robert L. Beske, Hector	John L. Neveux, Minneapolis
Lee C. Boekenoogen, Moose Lake	Roy H. Olson, Minneapolis
Donald W. Carlson, Minneapolis	Norris E. Osterbauer, Wyoming
David K. Conger, Ogilvie	Richard R. Paulson, Fairmont
Lyle G. Fritze, LeSueur	Robert W. Tischler, St. Paul
Richard W. Greenman, St. Paul	John W. Trumm, Alexandria
Harry D. Hanson, St. Paul	Robert J. Volness, Perley
Robert O. Hanson, Lanesboro	Richard A. Wagner, Clark, S.D.
Richard T. Jeans, Minneapolis	Robert J. Zenk, New Ulm
Stephen A. Kachina, Minneapolis	

## Second Lieutenant, Ordnance Corps

Chesney O. Gottschalk, Brookings, S.D.	Willard R. Karkela, Sebeka
Hugh M. Greenwald, Minneapolis	Richard J. Kleis, Hastings
Jack L. Hanson, Ponsford	Wilmar F. Laskey, Fargo, N.D.
Richard L. Heath, Minneapolis	Floyd R. Livingston, Minneapolis
John K. Hillman, Minneapolis	James R. Pepper, Mankato
William B. Horn, Minneapolis	James R. Riley, Minneapolis
	Richard M. Wenneson, Minneapolis

## Second Lieutenant, Quartermaster Corps

Allan L. Arnason, St. Paul	Everett A. Kiester, Fairmont
Walter S. Bloomfield, Minneapolis	Douglas E. Larson, Minneapolis
Robert C. Burke, St. Paul	John H. McIntosh, Minneapolis
William L. Carpenter, Crookston	John W. Moon, Duluth
Robert T. Cassidy, Terre Haute, Ind.	Jerome B. Munday, Minneapolis
Dick R. Clark, Mankato	John A. Murray, St. Paul
Byron M. Crippin, Jr., Minneapolis	Leonard J. Nadasdy, Minneapolis
Kayo R. Dokken, Cokato	Robert J. Okinow, St. Paul
Torval J. Haugen, Milan	Arthur G. Olson, Minneapolis
Donald R. Herbert, Little Falls	Gerald J. Prigge, Minneapolis
Leslie R. Hovda, Minneapolis	Rupert G. Quinn, Minneapolis
James C. Hoyer, Monterey	Wesley J. Sabourin, Park River, N.D.
Norman J. Isaksen, St. Paul	Nicholas P. Santrizos, Minneapolis
Arland M. Iverson, Scranton, N.D.	Vaughn E. Tidemand, Robbinsdale
Edmund S. Jasinski, Minneapolis	Festus P. Tierney, Minneapolis
Gerald E. Kennedy, Minneapolis	

## Second Lieutenant, Signal Corps

Curtis A. Amlund, Minneapolis	John Lewis Brandt, Eveleth
William B. Bauman, Minneapolis	Jerold Brings, Forest Lake
Glenn E. Bergstrom, Minneapolis	George R. Crotty, Jr., Caledonia
Alfred John Blom, Baudette	Russell E. Davis, Minneapolis

William S. Deshler, Minneapolis  
John Porter King, Minneapolis  
John D. Luhman, Minneapolis  
John P. Pahl, Lidgerwood, N.D.

Donald O. Snyder, Ely  
Robert O. Sweeney, Shakopee  
Eugene R. Tavonatti, Iron Mountain, Mich.

## Second Lieutenant, Transportation Corps

Arnold A. Albrecht, St. Paul  
Donald S. Andersen, Minneapolis  
Floyd L. Anderson, Minneapolis  
Robert L. Bergfalk, Minneapolis  
Frank L. Brendemuehl, Minneapolis  
Wilmot A. Campbell, Savage  
Douglas G. Cartwright, Minneapolis  
Patrick A. Casey, St. Paul  
Walter T. Connett, St. Paul  
Robert E. Dybing, Minneapolis  
Ronald F. Dybing, Minneapolis  
Ford G. Elliott, Jr., Minneapolis  
Donald C. Hilligoss, Minneapolis  
David A. Himmelman, Minneapolis  
William E. Holmes, Minneapolis  
Clifford R. Jacobson, Duluth

Tom E. Kakonis, Brookings, S.D.  
Ernest E. Karlson, Duluth  
Allison R. Mercer, Minneapolis  
George E. Morrison II, St. Paul  
Robert J. Nelson, St. Paul  
David G. O'Donnell, Minneapolis  
George E. Rebholz, St. Paul  
Russell J. Reed, Minneapolis  
John Howard Roth, Minneapolis  
James H. Russell, Minneapolis  
Daniel C. Schmitz, Minneapolis  
Jerome Shulkin, Minot, N.D.  
Ronald M. Starr, Minneapolis  
Marvin C. Weegman, Minneapolis  
Charles W. Wright, Minneapolis

## DEPARTMENT OF NAVAL SCIENCE

### Ensign, USN

John Parker Bader, Jr., Minneapolis  
Byron Leighty Buley, Hollandale  
Halbert Nelson Cole, St. Paul  
Roger Edgar Ekman, Minneapolis  
William Maximillian Foley, Kelliher  
Donald Olaf Hanson, St. Paul  
Norman G. P. Helgeson, River Falls, Wis.  
Hilding Richard Hultkrans, Little Falls

Stanley Henry Hunkins, Minneapolis  
Harold William Michie, Minneapolis  
Richard Lima Norgaard, Minneapolis  
Marvin Anhilm Peterson, Orleans  
John Norton Shumway, Pine City  
Bob Lee Smith, Rochester  
Paul Edphil Strandjord, Minneapolis  
John Crawford Walker, Minneapolis  
John Anthony Youngquist, Minneapolis

### Ensign, USNR

Malcolm Hockert Greenberg, Eveleth  
Don Orlin Kost, Minneapolis

Marlo Wilfred Hanson, Minneapolis



## Ensign, SC, USN

Richard Van Allenstein, Fayette, Iowa	Austin Jule Stibbe, St. Paul
Carl John Bradshaw, Oelwein, Iowa	John Dewey Tomlinson, Minneapolis
Gerald Hubert Hanratty, Barry	Stephen Francis Varichak, Minneapolis
Richard Duane Peters, Slayton	
Douglas Charles Pratt, Minneapolis	

## Ensign, SC, USNR

Roger Douglas Larson, Cottonwood

## Second Lieutenant, USMC

John Vos Bancroft, Minneapolis	David Singleton Doty, Minneapolis
Arlan Jerome Buchman, Spooner, Wis.	Richard Craig Johnson, Minneapolis
Allan Rae Crosby, Minneapolis	

## DEPARTMENT OF AIR SCIENCE AND TACTICS

### Second Lieutenant, USAF Reserve

Charles Herbert Bloom, North Branch	Vernon Arnold Knutson, St. Peter
Dan William Brabeck, Winnetka, Ill.	Robert Norman Larson, Minneapolis
Joseph Timothy Burke, Winona	James Shoals Lincoln, Jr., Minneapolis
John Perry Carlson, Wheaton	LeRoy Albert Loder, Cooperstown, N.D.
Richard Wayne Clement, Minneapolis	David Robert McDonald, Minneapolis
Ted Harvey DeLancey, Chanhassen	Richard Keith Means, Sherman Oaks, Calif.
William P. Dreschel, Fergus Falls	Thomas Ryan Mulcahy, Minneapolis
Richard Farmer, Minneapolis	Rex Lee Nelson, Rochester
Robert Lewis Findorff, Minneapolis	Lester Jens Nypan, Minneapolis
Sheldon Jack Gitelman, Minneapolis	Dale Eugene Olson, Grove City
Gunval P. Gulbrandson, Bemidji	James H. Palacek, Owatonna
Lyle Vernon Hanson, Minneapolis	William Rinehart Pearce, Faribault
James Edward Havnes, Brainerd	Lee Ritchey Petillon, Minneapolis
Robert Edward Hayes, Duluth	Francis Joseph Pribyl, Elysian
Lowell Herbert Helgerson, Minneapolis	Dennis Arthur Rapp, St. Paul
James Arlington Herrick, Crookston	Palmer Lakin Rooch, St. Paul
Robert William Hutchings, Portage, Wis.	Wayne Emmet Sampson, Hector
Fred Arnold Johnson, Minneapolis	Gordon Joseph Slovut, Duluth
Miles Aga Johnson, Minneapolis	Ronald Leslie Teigen, Kenyon
Robert R. Johnson, Minneapolis	Bruce Isadore Waller, Minneapolis
Harold Bernard Kaiser, Minneapolis	Donald Howard West, Minneapolis
Howard Franklin Karon, Minneapolis	Gerald Raymond Wilson, Minneapolis
Mark Everett Kimball, Pullman, Wash.	James A. Winker, Minneapolis

# *Candidates for Graduation*

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

## GENERAL EXTENSION DIVISION

### Business Certificate

Richard G. Greer, St. Paul

Donald D. Loban, St. Paul

Axel E. Olseen, Jr., St. Paul

### Engineering Certificate

Charles A. Badavas, Minneapolis

Orlando B. Harder, Minneapolis

Stanley G. Erickson, Hopkins

Neil W. LaFavor, Minneapolis

## GENERAL COLLEGE

### Associate in Arts

Robert Alfred Anderson, Minneapolis

Allan Robert Cohen, St. Paul

Sherman Avery Anderson, Minneapolis

Sheila Lee Croll, St. Paul

Don Gordon Arnsdorf, Minneapolis

Thomas James Cummings, St. Paul

Richard Ray Aronson, St. Paul

Harry Donald Davis, Minneapolis

Dona Olga Mae Asp, St. Paul

William Briggs Edelsten, Minneapolis

Ronald Gordon Awsumb, St. Paul

Thomas Richard Egan, Minneapolis

Earle Virgil Bandow, St. Paul

Charles Thomas Ellefson, Minneapolis

Ronald George Beck, Minneapolis

Joanne Marie Elliott, Minneapolis

Kenneth Robert Berg, St. Paul

John Marion Ertel, St. Paul

John Radford Bergseng, Minneapolis

Charles Lee Fecht, Minneapolis

Jack Whitney Blien, Fairmont

James Douglas Gallup, Duluth

Walter San Bloomfield, Minneapolis

Harry Wallace Gehl, Minneapolis

Barry S. Bonoff, Minneapolis

Verner Einar Gren, Minneapolis

Thomas Ralph Boyer, Golden Valley

Jerome Michael Hanses, Minneapolis

Leonard Marshall Brazman, Mound

Barbara Ann Harris, Minneapolis

John Leroy Brenna, Minneapolis

Lowell Gary Herman, St. Paul

Arno Don Bridenbecker, North St.

Arthur Roy Hrbek, Willow River

Paul

LaVonne Jean Marie Hydal, St. Paul

Patricia Ann Callinan, Minneapolis

Howard John Jiran, Minneapolis

David Dale Carlson, Cotton

Joyce Carolyn Johnson, Wayzata

Joyce Arlene Carlson, Minneapolis

Kenneth Alfred Johnson, Minneapolis

Donald Burton Chase, Jr., Minneapolis

Robert Leslie Johnson, St. Paul

lis

Richard Jean Kleis, Hastings

Edward Hjalmer Knudson, Mound  
 John Martin Kocourek, Hopkins  
 Ralph Mathias Kroeten, Minneapolis  
 Janet Marian Leppa, St. Paul  
 Charles Richard Lesch, Minneapolis  
 Lenore Margarite Lillejord, Minneapolis  
 Alexander Rowland Mackay, St. Paul  
 Harold Terp Miller, St. Louis Park  
 Suzette LaFerte Miller, St. Paul  
 Joseph Charles Mills, Mound  
 Gerold Mondshane, Minneapolis  
 Leo Arthur Moore, Phoenix, Ariz.  
 John Kitridge Mulliken, St. Paul  
 Robert James Nelson, Minneapolis  
 Donald Benedict Olson, St. Paul  
 Joacim Hendrickson Olson, Minneapolis  
 Robert William Olson, Minneapolis  
 Robert Lee O'Ryan, Minneapolis  
 Robert Wesley Page, Minneapolis  
 Geraldine Ann Park, St. Paul  
 Lois Louise Parsons, St. Paul  
 Robert Leo Paul, Spring Valley  
 Glen Willard Peterson, St. Paul  
 Robert Preston Pettengill, Minneapolis  
 Richard John Pokornowski, Silver Lake  
 James William Racer, St. Paul  
 Martin Reznick, Minneapolis  
 Anne Karen Robinson, Long Prairie  
 Matilda Edith Ross, Charles City, Iowa  
 Thelma S. Rotman, Minneapolis  
 Carole Louise Sadoff, Minneapolis

Mary Adele Sandberg, St. Paul  
 Frank Robert Sattervall, Jr., Minneapolis  
 Fredrick George Severin, St. Paul  
 Marvin Jerome Silverman, Minneapolis  
 Robert Edwin Slama, St. Paul  
 Eugene Orene Snuggerud, Robbinsdale  
 Arthur Ingram Snustad, Winger  
 Carole Ruth Solle, St. Louis Park  
 T. Harris John Speroulcas, Minneapolis  
 Lloyd Kenneth Stenbeck, Minneapolis  
 John Paul Stopka, Columbia Heights  
 Donald Frank Strom, St. Paul  
 Gerald Francis Sullivan, St. Paul  
 Samuel Jack Taradash, Minneapolis  
 Milton Arthur Thompson, Minong, Wis.  
 Beverly Jean Thykeson, St. Paul  
 Preston Jay Tomlinson, Jr., St. Paul  
 Harold Louis Trestman, Minneapolis  
 James Robert Tschida, St. Paul  
 John William Turk, Jr., Minneapolis  
 Dennis Norman Weber, Minneapolis  
 Elizabeth Ann Widergren, Minneapolis  
 Daniel George Wilkinson, Minneapolis  
 Gary Byron Wollan, St. Paul  
 Patricia Mary Wood, St. Paul  
 Francis John Yeager, Minneapolis  
 James T. Yurecko, Minneapolis

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Donna Behrens, St. James  
 Janice Sharon Burk, Minneapolis  
 Margaret Anne Cargill, Minneapolis  
 Barbara Jean Carlson, St. Paul  
 Helen Justine Carlson, Minneapolis  
 Joanne Pearl Didier, Robbinsdale  
 Mary Katherine Drummond, St. Paul  
 Nancy Ruth Erickson, Minneapolis  
 Edythe Fishbein, Minneapolis

Milton Bruce Fuller, Grey Eagle  
 Marion Goldetsky, St. Paul  
 Lola Ardyce Hasselton, Minneapolis  
 Donald Walter Hassenstab, Redwood Falls  
 Dennis Larry Hogenson, Madison Lake  
 Marilyn Lois Johnson, Minneapolis  
 Ronald James Kloyda, Minneapolis

Carol Lee LaFavor, Rochester  
 Rita Spencer LaRue, Minneapolis  
 Morris Albin Lundin, Warren  
 Margaret Ann McAdams, St. Louis  
 Park  
 Charlotte LaVerne Miller, St. Paul  
 Janet Ellen Peterson, Minneapolis  
 Sarah Mae Peterson, Elm Grove, Wis.  
 Barbara Honor Quick, Chisholm  
 Phyllis Eileen Rivkin, St. Paul

Eva R. Rogers, St. Paul  
 Barbara Ruth Rosenblum, St. Paul  
 Erling Kenneth Rovick, Minneapolis  
 Mary Therese Sherry, Minneapolis  
 Bernard Singer, Minneapolis  
 Louise Janet Stenvaag, Minneapolis  
 Inez Mae Tastad, Gary  
 John James Wilmes, Minneapolis  
 Nancy Maurine Yale, Excelsior

## Bachelor of Arts

Albert Edwin Ackroyd, St. James,  
 MAGNA CUM LAUDE

Beverly Louise Adair, Minneapolis,  
 CUM LAUDE

Mary Theresa Adams, Minneapolis  
 Sally Louise Ainsworth, St. Paul

Curtis Arthur Amlund, Minneapolis,  
 MAGNA CUM LAUDE

Harry Loving Anderson, Minneapolis  
 Kenneth Gene Anderson, Minneapolis

Margaret Fern Anderson, Hopkins  
 Marshall Gary Anderson, Minneapolis

Kathleen B. Antonsen, Minneapolis  
 David Byron Arneson, Minneapolis

Mary Meinert Austin, Winona  
 Norman Hodgson Baker, Jr., Fergus  
 Falls, MAGNA CUM LAUDE

William Delbert Baker, Minneapolis  
 Henry M. Ballin, Minneapolis, MAGNA  
 CUM LAUDE

John Vos Bancroft, Minneapolis  
 Russell Raymond Barager, Spooner,  
 Wis.

Jacob John Barnett, Minneapolis, CUM  
 LAUDE

Beverly Jeanne Barrie, Minneapolis  
 Donald Frank Bartho, St. Paul

Mary Margaret Baskerville, St. Paul  
 Warren Darwin Bauer, St. Paul

Donna Jean Becker, Minneapolis,  
 MAGNA CUM LAUDE

William John Beiser, Minneapolis,  
 MAGNA CUM LAUDE

Carol Elizabeth Bennett, Minneapolis  
 Miriam Von Schrader Bennett, Min-  
 neapolis

David Howard Benson, Minneapolis,  
 MAGNA CUM LAUDE

Bruce Oscar Berg, St. Paul  
 Martin Richard Berkely, Duluth  
 Rosemary Elizabeth Betchwars, Min-  
 neapolis

Janet Mae Biesterfeldt, Chicago, Ill.,  
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James Frederick Otto, St. Paul  
Gustaf Adolph Peterson, Melrude  
Gerald Robert Schnobrich, New Ulm  
James Edward Seykora, Owatonna  
Myron Thomas Strecker, Annandale  
Frederick Charles Theiss II, Mahto-  
medi  
Wayne Leo Thompson, Little Falls  
Harry Alexander Thomson, Jr., Min-  
neapolis

*Charles Ferguson Tiffany, Aitkin,*  
WITH DISTINCTION  
*Donald Van Prodien, Pine City*

*Richard James Vasatka, Mendota,*  
WITH DISTINCTION  
*Edward John Zugschwert, St. Paul*

## Bachelor of Electrical Engineering

*Wesley Eldred Ahlberg, Worthington*  
*Robert Paul D'Evelyn, White Bear Lake*  
*Roger Philip Durkee, Minneapolis*  
*James Leigh Harrison, Mound*  
*Gordon Mahlon Kogl, South St. Paul*  
*Roy Daniel Larson, Duluth*  
*Robert Thomas Milton, Minneapolis*  
*Melvin Turner Northey, Minneapolis*  
*Richard Leo Paidosh, Minneapolis*  
*Andrew William Palm, Jr., Huron, S.D.*  
*Donald Carl Reiher, Minneapolis*

*George William Reilly, Jr., B.S., Minneapolis*  
*Donald Allan Reynick, Minneapolis*  
*Gordon William Sangster, Duluth,*  
WITH DISTINCTION  
*Don Paul Shabatura, Minneapolis*  
*Dayle Rigby Smith, Jackson, Wyo.*  
*John Robert Taylor, Ely*  
*Charles Albra Whitmore, Minneapolis*  
*Arthur William Zech, Minneapolis*  
*Larry Richard Zemlin, Minneapolis*

## Bachelor of Engineering Mathematics

*James Reede Gray, Redwood Falls*

*Ross Milford Olson, St. Paul*

## Bachelor of Geological Engineering

*John Axel Holmquist, Minneapolis*  
*William Crawford Kirkwood, St. Paul*

*Earl Duane Van Reenan, Albert Lea*

## Bachelor of Industrial Engineering

*Donald Allan Anderson, Duluth*  
*Thomas George Bruening, Mitchell, S.D.*  
*Douglas Cameron Crocker, Minneapolis, WITH DISTINCTION*  
*Willis Eben Dahlman, Grandy*  
*Dan Gish Haney, Minneapolis, WITH HIGH DISTINCTION*

*William James Jurchisin, Minneapolis*  
*Allen Mirsky, Minneapolis*  
*Rex Lee Nelson, Rochester*  
*E. William Oakland, Duluth*  
*Russell Arnold Oxendale, Minneapolis*

## Bachelor of Mechanical Engineering

*David Robert Alford, Minneapolis*  
*Ronald Wichman Anderson, Minneapolis*  
*Lloyd Richard Ashmead, Minneapolis*  
*John Thomas Berg, St. Paul*  
*William Edgar BeVier, Minneapolis, WITH DISTINCTION*

*John Robert Bjoin, Minneapolis*  
*Gerald LeRoy Bratsch, Mankato*  
*John Cleary Cress, Minneapolis*  
*Carl Howard Eckstrom, St. Paul*  
*David Jerome Ekberg, Minneapolis, WITH DISTINCTION*  
*Patrick Henry Estes, South St. Paul*

Clarence Edwin Finman, Duluth	Donald James McAnulty, Red Lake Falls
Leslie Ralph Flink, Cambridge, WITH HIGH DISTINCTION	John Patrick Murphy, Minneapolis
Hugh M. Greenwald, Minneapolis	Roy Lloyd Peterson, Red Wing
Eugene Sanford Hamlin, Minneapolis	James Joseph Ranft, Minneapolis
Alan R. Hanson, Montevideo	Jacob Andrean Ronning, Jr., Minneapolis, WITH DISTINCTION
David Ray Headla, Excelsior	Howard Emil Schumacher, Ottertail
Carl William Ingle, Minneapolis	Harley Harry Stover, Minneapolis
Toivo Atiel Kivikko, Duluth	John Crawford Walker, Minneapolis
Herman Martin Kurrelmeier, St. Paul	Donald Everett Ware, St. Cloud
Frank Anthony Kuzma, Ely	Donald Edward Waters, Minneapolis
Douglas Alan Lawler, St. Paul	Eugene Robert Worrell, South St. Paul
Donald Douglass Lenhart, Minneapolis, WITH DISTINCTION	Alan Brink Zimmerschied, St. Louis Park
Howard Walter Lindgren, St. Paul	
Robert Walter Lockwood, Faribault	

## Bachelor of Metallurgical Engineering

Jackson Radcliffe Carter, Jr., St. Paul	David Leif Schaffer, Stillwater
Fred Allan Hagen, Minneapolis	

## Bachelor of Mining Engineering

Thomas Champ Oliver, Virginia

## Bachelor of Physics

Robert Edward Field, Minneapolis, WITH DISTINCTION	James Harold Lindholm, Minneapolis
John L. Gergen, Minneapolis, WITH HIGH DISTINCTION	Donald Allen Peterson, St. Paul, WITH DISTINCTION

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

Richard Egbert Jones, Rochester, Minn., B.E.E., '31, University of Minnesota, thesis, "Designs and Reciprocity Telebration of a Hydrodynamic Piston Phone."

## Mechanical Engineer

Richard Frank Huettl, St. Paul, B.M.E. '42, University of Minnesota, thesis, "Engineering Problem in Unit Air Conditioner Development."

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

## Bachelor of Science

- Dorothy Gunderson Alford, Minneapolis, Home Economics  
Muriel Gustavson Andrews, Montevideo, Home Economics  
Orlin William Bakke, St. Paul, Veterinary Medicine  
Edward Martin Ballman, Minneapolis, Forestry  
Marshall Joseph Battig, St. Paul, Agriculture  
Harold Otto Batzer, Gillett, Wis., Forestry  
William Burdette Bauman, St. Paul, Forestry  
William Richard Beaufait, B.S., St. Paul, Forestry  
Axel Hjalmar Bendickson, Rush City, Veterinary Medicine  
George Elmer Benson, Jr., Superior, Wis., Forestry  
Walter Robert Brobeck, White Bear Lake, Agriculture  
Bruce Antone Brown, Adams, Wis., Forestry, WITH DISTINCTION  
Richard Edmund Burke, Jr., Minneapolis, Forestry  
Audrey Engstrand Cain, Minneapolis, Home Economics  
William Edward Carr, Minneapolis, Forestry  
Dean Leighton Chamberlain, Red Wing, Agriculture  
Edward Leighton Christopher, Perth, Australia, Agriculture  
Gordon Cooper Cross, Wichita, Kan., Forestry  
John Randolph Davis, Hayward, Wis., Forestry, WITH DISTINCTION  
Arlene Marie Elmburg, Minneapolis, Home Economics  
Lloyd E. Elton, Granite Falls, Agriculture  
Donald Willard Eng, Duluth, Forestry  
Diane Janet Engelbretson, Minneapolis, Home Economics  
Phillip Oliver Gagne, Minneapolis, Agriculture  
David Stephen Gates, Minneapolis, Agriculture  
AmiLou Betty Gerst, St. Paul, Home Economics  
Beverly Jean Gilbert, Minneapolis, Home Economics  
Kenneth Guy Gillette, Cloquet, Veterinary Medicine, WITH DISTINCTION  
Raymond L. Grefe, Truman, Veterinary Medicine  
Lois Marian Gust, Verdi, Home Economics  
Perry Reginald Hagenstein, St. Paul, Forestry  
William Werner Hamlin, Pine City, Forestry  
Hartvig A. Hansen, Clearbrook, Agriculture  
Gerhard William Harpestad, Westby, Wis., Agriculture  
David Dellmont Hart, Backus, A.A., Agriculture  
James Wallace Hauan, Minneapolis, Forestry  
Margaret Anne Heed, Duluth, Home Economics  
Robert George Hegy, Minneapolis, Forestry  
Arthur Algernon Henderson, St. Paul, Forestry  
Philip Arthur Heyn, Minneapolis, Forestry  
John Kenneth Hillman, Minneapolis, Forestry, WITH HIGH DISTINCTION  
Donn Dale Huot, Cloquet, Agriculture  
Carl Leslie Johnson, Eveleth, Veterinary Medicine  
Dennis Jacob Johnson, Porter, Forestry  
Donald David Johnson, Chisago City, Veterinary Medicine, WITH HIGH DISTINCTION



- Donna Lu Johnson, Worthington, Home Economics
- Geraldine Louise Johnson, Minneapolis, Home Economics
- Winfield James Johnson, Minneapolis, Agriculture
- Lyle Vincent Kansanback, Sauborn, Veterinary Medicine
- Richard Chapple Keller, St. Paul, A.A., Forestry
- Marjorie Joan Kirkwood, St. Paul, Home Economics
- Hartford Robert Kittel, St. Paul, Fishery and Wildlife Management
- John Louis Kolb, Green Bay, Wis., Agriculture
- Robert John Lambert, Faribault, Agriculture, WITH DISTINCTION
- Robert Norman Larson, Minneapolis, Agriculture
- Joan Marie Lawrence, Minneapolis, Home Economics
- James Shoals Lincoln, Minneapolis, Agriculture
- James Arthur Loosen, Long Lake, Agriculture
- Mary Jeanne Luikart, Lake City, Home Economics
- Paul Woolman Lukens, Jr., Hibbing, Fishery and Wildlife Management, WITH DISTINCTION
- Joseph Leo Mayou, Rochester, Agriculture
- Daniel Willard Merrill, St. Paul, Agriculture, WITH HIGH DISTINCTION
- Dorothy Jean Milbrath, Bertha, Home Economics, WITH DISTINCTION
- Edward Richard Miller, Owatonna, Agriculture
- Marcia Lou Miners, Minneapolis, Home Economics, WITH HIGH DISTINCTION
- JoAnn Helene Moes, Minneapolis, Home Economics
- Bennitt Eugene Monson, Pequot Lakes, Veterinary Medicine
- Douglas Phillip Mossberg, Willmar, Agriculture
- Margaret Hemmersbaugh Mossberg, St. Paul, Home Economics
- Richard D. Munding, St. Hilaire, Forestry
- Charlotte Joyce Nelson, Minneapolis, Home Economics
- Patricia Nichols, Minneapolis, Home Economics
- Patricia Norton, Minneapolis, Home Economics
- Dale Eugene Olson, Grove City, Agriculture
- Phyllis Genevieve Olson, Minneapolis, Home Economics
- James John Parks, Ely, Science Specialization
- Clifton Arnold Paulson, Aitkin, Veterinary Medicine
- Willard DeLene Peterson, Fulda, Agriculture
- Beverly Jane Podd, St. Paul, Home Economics
- Wilson Gideon Pond, Minneapolis, Agriculture
- Richard Lawrence Pycha, Jr., Virginia, Fishery and Wildlife Management, WITH DISTINCTION
- Jean Christine Rallis, Minneapolis, Home Economics
- Norman D. Ramey, Redwood Falls, Agriculture, WITH DISTINCTION
- Dennis Arthur Rapp, St. Paul, Forestry
- Ralcie Nan Rawn, Robbinsdale, Home Economics
- William Bradford Richardson, Fairmont, Science Specialization, WITH DISTINCTION
- Alvin Ernest Robinow, Sioux City, Iowa, Forestry
- Robert Graham Rollings, Minneapolis, Fishery and Wildlife Management
- Patricia Marilyn Ruble, Batavia, Ill., Science Specialization, WITH DISTINCTION
- John Carl Schlotthauer, Rochester, Veterinary Medicine
- John Lewis Schmidtke, Minneapolis, Fishery and Wildlife Management
- Donald Charles Schmiede, Bryant, Wis., Forestry

- James Lewis Schofield, Truman, Agriculture  
Francis Donald Schrom, Albany, Forestry  
Douglas William Shenkyr, Minneapolis, Forestry  
Joseph Nicholas Soboleski, International Falls, Forestry  
Elmer William Sprick, Lake City, Forestry  
Loren Luverne Stock, Kensington, Veterinary Medicine  
Daniel Edward Suther, Minneapolis, Veterinary Medicine  
I. Leland Thal, Bismarck, N.D., Veterinary Medicine  
Janis Irene Thieme, St. Paul, Home Economics  
Gilbert Thomas Thompson, Madison, Forestry  
Phyllis Mary Tweed, Minneapolis, Home Economics
- Emma Nadine Wahl, Lemmon, S.D., Home Economics  
James Joseph Waldock, Minneapolis, Agriculture  
Robert Fred Walser, Minnesota Lake, Veterinary Medicine  
Leighton Robert Walstrom, Minneapolis, Forestry  
Cletus John Wendinger, Klossner, Agriculture  
Donald Rex Wenger, Reading, Veterinary Medicine  
Daniel Alan West, St. Paul, Veterinary Medicine  
Clifford Robert White, Aurora, Science Specialization  
Robert Paul Widstrand, Hibbing, Agriculture  
Paul Edgar Wiegrefe, Caledonia, Agriculture  
James Raymond Zosel, Wadena, Veterinary Medicine

## Doctor of Veterinary Medicine

- Lawrence John Algiers, Hartford, Wis.  
Henry Louis Banal, B.S., Buhl  
Henry Jasper Blohm, B.S., St. Paul  
Leslie John Butman, B.S., Pipestone  
William John Cameron, B.S., Luverne  
Howard John Cook, B.S., Fort Atkinson, Wis.  
John Ben Eckstein, New Ulm  
Winton G. Evans, B.S., Willmar  
Merton Douglas Fetters, Moose Lake  
Eiler D. Frederiksen, B.S., Askov  
Verdie Merlin Gysland, B.S., Gary  
Heman Allen Hancock, B.S., Brook Park  
Lyle Jay Hanson, B.S., Storden  
Raymond LeRoy Hanson, B.S., M.S., Argyle, Wis.  
Elmer Rudolph Hokkanen, Annandale  
Derald Walton Johnson, St. Paul  
Dean Raymond Kingrey, B.S., Worthington
- Lyle Wayne Klein, Granada  
Edmund Joseph Kohler, B.S., Minneapolis  
Alphonse J. Kunkel, B.S., Kimball  
Harvard Ellsworth Larson, Boyd  
John Fredrick Larson, B.S., Breckenridge  
Donald Miller Mason, B.S., Mankato  
Wallace Edwin Mattson, Mahtomedi  
Charles Abel McDonald, B.S., Rapid City, S.D.  
Ralph George Molnau, Chaska  
Norman G. Mueller, B.S., Springfield  
Douglas Merwin Murray, B.S., Wadena  
Robert Joseph O'Hern, B.S., Minneapolis  
Maurice J. Palmer, B.S., Stillwater  
Ralph Robert Palmer, B.S., Gregory, S.D.  
Odell L. Reinertson, B.S., M.S., Hendricks  
Jo-Anne Schmidt, Tinley Park, Ill.  
Glen O. Schubert, B.S., Echo

Charles Roderick Shreffler, St. Paul	Edward Anthony Usenik, B.S., Eve-
Joseph Anton Sigfrid, B.V.S., Parkers Prairie	leth
Bertram Lee Smith, B.S., Ada	Robert Windschill, B.S., Comfrey
Ronald Marvin Sook, Ivanhoe	Charles Willard Winslow, LaMoure, N.D.
Harold Herman Templin, B.S., Glencoe	Griselda Frances Wolf, B.S., Anaconda, Mont.
Charles William Towne, B.S., St. Cloud	Delvin E. Zinter, Ellendale, N.D.

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

### Bachelor of Science

Grace Josephine Bodlak, St. Paul, Home Economics Education	Robert Doyle Hjort, South St. Paul, Agricultural Education
Laura Ann Crolley, Glencoe, Home Economics Education	June Louise Hoium, Hopkins, Home Economics Education
Eunice Cunningham, Appleton, Home Economics Education	<i>Ariid Utoft Johansen, Tyler, Agricultural Education, WITH DISTINCTION</i>
Lenore May Cyphers, Blue Earth, Home Economics Education	Mary Louise Johnson, Redwood Falls, Home Economics Education
Lois Jean Dalbec, Grand Marais, Home Economics Education	Robert Peter Johnson, Eveleth, Agricultural Education
<i>BevaLee DeGriselles, Pipestone, Home Economics Education, WITH DISTINCTION</i>	Shirley Haapala Johnson, Dassel, Home Economics Education
William Peter Drechsel, Fergus Falls, Agricultural Education	Ruth Elizabeth Kangas, Gilbert, Home Economics Education
Gerald Vincent Eagan, Argyle, Agricultural Education	<i>Lola Lydia Kanne, Waseca, Home Economics Education, WITH DISTINCTION</i>
Glen M. Enos, A.A., Vassar, Mich., Agricultural Education	Verda Laura Keith, Duluth, Home Economics Education
Wayne Robert Flynn, Porter, Agricultural Education	Mary Joan Kippley, Minneapolis, Home Economics Education
Elaine Georgia Halsey, Spring Valley, Home Economics Education	<i>Joanne Marie Klobe, Glencoe, Home Economics Education, WITH DISTINCTION</i>
Edward Lewis Harms, Isle, Agricultural Education	<i>Elaine H. Krueger, Ceylon, Home Economics Education, WITH DISTINCTION</i>
<i>Dorothy Irene Hartwell, Wayzata, Home Economics Education, WITH DISTINCTION</i>	Carol Lynn Rene Moberg, Taylors Falls, Home Economics Education
Paul Rudolph Hasbargen, Tintah, Agricultural Education	Donis Arlene Moechnig, Lake City, Home Economics Education
Norman Victor Leonard Helbacka, Cook, Agricultural Education	<i>Mariann Munter, Hibbing, Home Economics Education, WITH DISTINCTION</i>
Caroline Ann Herman, Luverne, Home Economics Education	

Janice Elaine Olson, Montevideo,  
Home Economics Education  
Einar Wallace Palm, A.A., Baudette,  
Agricultural Education, WITH HIGH  
DISTINCTION  
Darlene Delores Peterson, Minneapo-  
lis, Home Economics Education  
Norbert Theodore Phillips, Good  
Thunder, Agricultural Education,  
WITH DISTINCTION  
Elizabeth Nellie Pierce, Verndale,  
Home Economics Education  
Margaret Vance Ranseen, Minneapo-  
lis, Home Economics Education  
Gloria Ann Salomonsen, Minneapo-  
lis, Home Economics Education,  
WITH DISTINCTION

Mary Huddleston Sargent, Little  
Falls, Home Economics Education  
Arnold James Schroeder, Lanesboro,  
Agricultural Education  
Merle Curtis Schwartau, Red Wing,  
Agricultural Education  
Wallace DeForest Shodean, Detroit  
Lakes, Agricultural Education  
Martha Ellen Thompson, Colo, Iowa,  
Home Economics Education  
Irene Maria Walkee, Minneapolis,  
Home Economics Education  
Patricia Helen Weller, Minneapolis,  
Home Economics Education, WITH  
DISTINCTION  
Marjorie Anne Wyland, St. Paul,  
Home Economics Education

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

### Bachelor of Agricultural Business Administration

John Perry Carlson, Wheaton

Lowell Herbert Helgerson, Rochester

## COLLEGE OF EDUCATION

### Bachelor of Science

Charlotte Lois Abrahamson, A.A.,  
Minneapolis  
Russell Blair Adams, B.B.A., Minne-  
apolis  
Beverly Ann Adamson, Minneapolis  
Paul Gerhardt Albrecht, Bowdle, S.D.  
Richard Van Allenstein, Fayette,  
Iowa, WITH DISTINCTION  
Barbara Ruth Anderson, Minneapolis,  
WITH DISTINCTION  
Betty Coral Christiansen Anderson,  
Ada  
Donna K. Anderson, Litchfield  
Eileen Gloria Anderson, Minneapolis  
James Carl Anderson, Minneapolis  
Lois Ann Anderson, Cloquet

Patricia Ann Auer, Minneapolis, WITH  
DISTINCTION  
William Peter Baer, New Ulm  
Donald Arthur Bailey, Minneapolis  
Delpha Halling Baken, Minneapolis\*  
Barbara Jayne Baker, Minneapolis  
Lionel Charles Barker, Minneapolis  
Carol Louise Barnes, Rockford  
Katherine E. Barnhill, Minneapolis  
John Warren Behonek, Minneapolis  
Norma Lee Bellows, Duluth  
Drusilla Marquis Bennett, Vancouver,  
Canada, WITH DISTINCTION\*  
Eunice Gail Bennett, Minneapolis  
Joan Louise Bennett, Red Wing  
Anne Elizabeth Bentzen, Minneapolis

\* Nursing Education Curriculum.

- Goldie M. Berg, Hallock  
 Lorraine Estelle Berger, Minneapolis  
 Thomas Richard Bergstedt, Minneapolis  
 Helen Berkman, Oronoco  
 Ruth Berkman, Oronoco  
 Paul Dee Berrisford, B.A., St. Paul  
 Charles Warren Bispala, Hibbing  
 Barbara Billings Black, Flint, Mich.\*  
 Garth Eugene Blais, Minneapolis  
 Myra Lou Blumenthal, Minneapolis  
 Shirley Eileen Bolton, Minneapolis  
 Ruth Leone Boomhower, R.N., Ash-  
 tabula, Ohio, WITH HIGH DISTINC-  
 TION\*  
 Robert John Boyce, Minneapolis  
 Audrey Elaine Boyum, Minneapolis,  
 WITH HIGH DISTINCTION  
 Ruth Sarah Braeman, Minneapolis  
 Mark Hugh Bremmer, Minneapolis  
 Florence Ann Bronczyk, Forest Lake,  
 WITH DISTINCTION  
 Sue Baker Bros, Minneapolis, WITH  
 DISTINCTION  
 Joyce G. Brown, Minneapolis  
 Jeanette Arneson Buck, Minneapolis  
 Mary Elizabeth Burns, Minneapolis  
 Dorothy Donna Cacharelis, Minne-  
 apolis  
 Galen Labbitt Cain, B.A., Minne-  
 apolis  
 Florence Elizabeth Calva, Minne-  
 apolis  
 Doris Schmidt Carlson, Minneapolis,  
 WITH DISTINCTION  
 Edward Robert Carlson, Minneapolis  
 Florence Fairbairn Carlson, Minne-  
 apolis  
 Norma Jean Carlson, Anoka  
 Richard Verner Carlson, Minneapolis  
 Phyllis Ruth Casselman, St. Paul  
 Donna Maureen Charlson, Minneapo-  
 lis  
 Richard Darrell Cheney, Pipestone  
 Maureen Elizabeth Chinski, Houston,  
 Texas  
 Allan Wesley Christensen, Clarkfield,  
 WITH DISTINCTION  
 Harvey Jonathan Christensen, New  
 London, WITH DISTINCTION
- Harley Duane Christiansen, Isle  
 Eleanor Jane Christianson, Owatonna  
 Charlotte Shaw Cleveland, Excelsior  
 Mahlon Jason Coles, Minneapolis  
 Rita Mae Conzemius, Cannon Falls,  
 WITH DISTINCTION  
 Nancy Louise Cook, R.N., Wausau,  
 Wis., WITH DISTINCTION\*  
 Marilyn Eloise Czaia, Minneapolis,  
 WITH DISTINCTION  
 Gloria Pearson Danielson, Minne-  
 apolis, WITH DISTINCTION  
 Diane Davies, Minneapolis, WITH HIGH  
 DISTINCTION  
 Byron Burnell Davis, Robbinsdale  
 Jean Carol Dawson, River Falls, Wis.  
 Joan Deines, Minneapolis  
 Ethel Koenig Demaree, Minneapolis\*  
 Eleanore Mae Dennstedt, Harmony  
 Joan Mary Dericks, St. Paul  
 Valerie Cline Determan, Lake Benton  
 Elizabeth Grace Dewes, Hopkins  
 Dorothy Carol Oline Dibbern, Lu-  
 verne  
 Duane Edward Dickey, Minneapolis  
 Leona Eleanor Dickey, Salt Lake City,  
 Utah, WITH HIGH DISTINCTION  
 Grace Elizabeth Dickson, Minneapo-  
 lis  
 Marjorie Elizabeth Doran, St. Paul  
 Joan Ann Dorenkemper, St. Cloud,  
 WITH DISTINCTION\*  
 Raymond James Duffina, St. Paul  
 Patrick Kenneth Eckert, A.A., Min-  
 neapolis, WITH DISTINCTION  
 Faustine Valrei Edkins, Minneapolis  
 Alice Clarissa Egan, St. Paul, WITH  
 DISTINCTION  
 Gerald Joseph Ehlers, St. Paul, WITH  
 DISTINCTION  
 Mary Jane Ehrnst, Foley  
 Elsie Mae Emanuelson, Virginia  
 Ruth Elizabeth Emanuelson, Virginia  
 Edward Henry Enger, Minneapolis  
 Elaine Sardeson Engelbart, Minne-  
 apolis  
 Arleen Ann Enquist, Minneapolis,  
 WITH DISTINCTION  
 Dorothy Wood Evans, Minneapolis\*  
 Helen Eulalie Fagerholt, Hoople,  
 N.D.\*

\* Nursing Education Curriculum.

Richard Farmer, Minneapolis  
Donna Marie Farrell, Minneapolis  
Douglas George Farrell, A.A., Minneapolis

Thomas Stern Fern, Minneapolis,  
WITH DISTINCTION

Cyrus Douglas Fish, Northome  
Phyllis Ann Flach, Minneapolis  
Mary Caroline Fleming, Minneapolis  
Richard Dean Flood, Minneapolis  
Keith William Forstrom, Fairmont  
Harriet Fox, Duluth  
Anna Marie Frankson, St. Paul  
Delores Neola Fransen, Jackson  
Geraldine Ruth Freeman, Minneapolis

Marilyn Margaret French, Rochester  
Margaret Johanna Friberg, R.N., B.A.,  
Minneapolis\*

June Hatsuyo Fujiwara, B.A., Honolulu,  
Hawaii

Clayton Gene Furch, St. Paul  
Eleanor Elaine Galchutt, Minneapolis  
Beverly Ann Gammon, St. Paul,

WITH HIGH DISTINCTION  
Marie Adele Geist, St. Paul, WITH  
HIGH DISTINCTION

Vivian Gelb, Minneapolis  
James Peter Gilbert, A.A., Minneapolis

Miriam Ruth Goldberg, Minneapolis  
James Magna Gonyea, A.A., Minneapolis

Orpha Cynthia Goodhue, St. Paul  
Fred Lee Gordin, Minneapolis  
Howard Allen Gordon, Virginia

Patricia Jean Gould, B.A., Minneapolis

Claire Joan Grady, East Grand Forks  
Lloyd Ochs Grandprey, Meriden

Joan Lee Greenhalgh, Minneapolis  
Barbara Lucille Grove, St. Paul

Harriet Anna Hadley, Ruthven, Iowa\*

Estelle Ethel Hagie, Minneapolis  
Denis Henry Haines, A.A., Minneapolis

Gerald Jerome Hanggi, St. Paul  
Janet Magdelene Hansen, Minneapolis

Lucille Caroline Hansen, St. Paul,  
WITH DISTINCTION

Douglas Ralph Harding, St. Paul  
Willie F. Harper, A.A., Tuskegee,  
Ala.

Jean Lorraine Harrison, B.A., St. Paul  
Mary Lou Miller Hartley, Minneapolis  
Katherine E. Hauser, Luverne, WITH  
DISTINCTION

Mary Ann Hauser, Luverne  
Ruth Marellyn Hedin, Maple Plain  
Mary Louise Heimer, A.A., Austin  
Ruby Lorraine Helland, Minneapolis  
Agnes Adelia Hendrickson, B.A., Duluth

Caroline Marie Henkel, Kenyon  
Ralph Clemons Henkes, Racine, Wis.  
Natalie Heron, Minneapolis

Betty Joanne Hesla, Oilmont, Mont.\*  
Lewis Stephen Hidem, Minneapolis  
Dean Everett Hinmon, Beloit, Wis.

Helen Elizabeth Hodgdon, B.A., Minneapolis

Robert Wesley Hoeschen, Minneapolis

Patricia Ann Hoffman, St. Paul,  
WITH DISTINCTION

Bobby Lee Horswell, St. Paul  
Joseph George Horvath, St. Paul  
Barbara Grace Hough, St. Paul

Richard Allan Hovelsrud, Minneapolis

Arlen Marshall Howe, A.A., Minneapolis

Ruth Ann Howe, Minneapolis  
Gretchen Joan Hoyer, Manitowoc,

Wis., WITH DISTINCTION  
Kathleen Mary Huelster, St. Paul

MaryAnn Hultgren, Minneapolis  
Mary Lou Hunting, Duluth

Donna Elaine Isaacson, Litchfield,  
WITH DISTINCTION

Lillian Dolores Jacobsen, Cloquet  
Junior Otto Jagusch, Mahtomedi

Loras Mae Jellum, Osage, Iowa  
Mervin Carlyle Jensen, Albert Lea

Carolyn Margaret Johnson, Minneapolis

Helen Rosamond Johnson, Dawson

\* Nursing Education Curriculum.

- Marilyn Ann Johnson, Hallock  
 Marlyce Mae Johnson, St. Paul, WITH  
 DISTINCTION
- Miles Aga Johnson, Minneapolis  
 Phyllis Claire Johnson, Alexandria  
 Wallace John Johnson, Becker  
 Patricia Louise Johnston, Minneapo-  
 lis
- Radonna Marie Jones, Mankato, WITH  
 HIGH DISTINCTION
- William Cecil Jones, Minneapolis  
 Patricia Ann Kelly, Minneapolis  
 Ramona Jane Kinnett, Minneapolis  
 Stanley Cramner Knox, Osage, Iowa  
 Marian Josephine Knudson, Minne-  
 apolis
- Helen Jean Kolbo, Minneapolis  
 Byron Earl Kopp, Minneapolis  
 Grace Dorothea Kornmann, Prince-  
 ton\*
- Joy Marie Kratzke, Waconia  
 Merle Anne Kremen, B.A., Minne-  
 apolis
- Hugh Elwell Kurtzman, Minneapo-  
 lis
- Clair Allen Kuss, Fairmont, WITH  
 DISTINCTION
- Audrey Anne LaFavor, St. Paul  
 LoAnn Lano, Long Prairie, WITH DIS-  
 TINATION\*
- Frank Andy Larson, St. Paul  
 Jeanette Rose Larson, Minneapolis  
 Nancy Mae Larson, Albert Lea  
 Betty June Lawler, A.A., St. Paul  
 Janet Elna Lawson, St. Paul  
 Janet Ann Lehman, St. Paul  
 Kathryn Vinje LeRoy, Alexandria  
 Herbert David Levy, St. Paul  
 James Albert Lewis, Minneapolis  
 Maren Hansord Lilja, Minneapolis  
 Joan Margaret Lindberg, Hallock  
 Myrna Carol Lindstrom, Litchville,  
 N.D.
- Otto Paul Link, St. Paul  
 Vera June Linscheid, Butterfield  
 Arlene Forsan Linton, Duluth  
 David Merle Litsey, Minneapolis,  
 WITH HIGH DISTINCTION
- Betty Jane Loge, Oslo, WITH DISTINC-  
 TION\*
- Janice Enger Love, B.A., Minneapolis  
 Peggy Ann Luck, St. Paul  
 Yvonne Carolyn Lueck, Minneapolis  
 Joan Marie Lundheim, Minneapolis  
 Norma Jane Lyslo, Redwood Falls\*  
 Ann Louise MacGibbon, Minneapolis  
 Donald Herman Machande, Minne-  
 apolis
- Marilyn Joan Mackenzie, Minneapo-  
 lis
- John Edmund Mackey, Minneapolis  
 Solveig Olson MacLean, Minneapolis  
 Marcia Mae Magnuson, Minneapolis  
 Jon Francis Malaney, Minneapolis  
 June Morin Manke, St. Paul, WITH  
 DISTINCTION
- Carol Jean Martin, St. Paul, WITH  
 DISTINCTION
- Barbara Anne Mattill, Oak Terrace  
 Ruth Lillian Mattson, Minneapolis\*  
 Barbara Helen Maywald, Hartland  
 Patricia Ann McConville, Minneapo-  
 lis
- Morton Emmet McGeary, Gladstone,  
 Mich.
- Kenneth Ralph McGonagle, Royalton  
 Jean Adair McMillan, St. Paul  
 Lois Louise Mc Nerney, Fairmont  
 Richard Keith Means, Sherman Oaks,  
 Calif., WITH DISTINCTION
- Winifred Heywood Megson, Glaston-  
 bury, Conn., WITH DISTINCTION\*
- Harold Raymond Menssen, Butter-  
 field, WITH DISTINCTION
- Dolores Marie Merrill, St. Paul, WITH  
 DISTINCTION
- Katherine Louise Meyer, Minneapo-  
 lis\*
- Barbara Jean Miller, Aberdeen, S.D.  
 Myrtle Alvina Mjelve, B.A., Minne-  
 apolis
- Phyllis Janet Mlinar, Spring Valley,  
 WITH DISTINCTION\*
- Audrey Mae Moberg, Cokato  
 Joan Mylrea Moore, Pipestone  
 Wilbur Dean Moore, Pipestone  
 Marilyn Ann Mork, St. Paul  
 George Edward Morrison III, A.A.,  
 St. Paul

\* Nursing Education Curriculum.

Joanne Alice Munson, St. Paul, WITH  
 DISTINCTION  
 Mary Willette Murphy, St. Paul  
 Nancy Lucretia Lawhon Murphy,  
 Minneapolis  
 Marjorie Jean Mutch, Minneapolis  
 Virginia Helena Nadeau, St. Paul\*  
 Patricia Ann Nadolski, Rochester  
 Carolyn Kristine Nelson, St. Paul  
 Charlotte Jean Nelson, Minneapolis\*  
 Dorothy Elaine Nelson, B.A., Spicer  
 Jayne Vera Nelson, Wayzata  
 Earle Arthur Nesse, Minneapolis  
 Mary Pearson Nevin, St. Paul\*  
 Gerald James Newman, Minnesota  
 City  
 Janet Mary Anne Newman, Fargo,  
 N.D., WITH DISTINCTION  
 Joan Mary Nickells, B.A., Minneapo-  
 lis  
 Elna Utoft Nielsen, Tyler, WITH DIS-  
 TINATION  
 Anita Carvel Noodelman, Minneapo-  
 lis  
 Warren Theodore Norman, St. Paul,  
 WITH DISTINCTION  
 Frances Ann Novak, Hazen, Ark.,  
 WITH DISTINCTION\*  
 Joseph Donald Novak, Minneapolis  
 Francis Carr Ohly, Excelsior  
 Opal Irene Oleson, Hutchinson, WITH  
 DISTINCTION  
 Ervina Syneva Olmem, R.N., Minne-  
 apolis\*  
 Doris Christine Olseen, A.A., St. Paul  
 Virginia Ann Olson, B.A., St. Paul  
 Nellie E. Osterlund, Des Moines,  
 Iowa, WITH DISTINCTION\*  
 George Leonard Patten, Minneapolis  
 Alyce Elvera Pearson, A.A., Lyle  
 Eugene Earl Pearson, A.A., Minne-  
 apolis  
 Norman Alfred Petersen, Tyler  
 Lois Evelyn Peterson, Minneapolis  
 Virginia Holt Peterson, Minneapolis\*  
 Anita Lee Phillips, Minneapolis\*  
 Jeanne Delwer Pieper, St. Paul  
 Marvin Roger Platten, Park Rapids  
 Doris Kuperman Pliskin, Minneapolis  
 Nanette Helen Pommer, Minneapo-  
 lis, WITH DISTINCTION  
 Mildred Jean Potocnik, Gilbert, WITH  
 DISTINCTION  
 Douglas Charles Pratt, Minneapolis,  
 WITH DISTINCTION  
 Stanley Jay Rappoport, Minneapolis  
 Louise Jane Gibson Rayner, Minne-  
 apolis, WITH DISTINCTION\*  
 Anne Bradley Rea, Wayzata  
 Elfriede Helene Regier, Newton,  
 Kan., WITH DISTINCTION\*  
 Berniece Barbara Reutiman, Excelsior,  
 WITH DISTINCTION\*  
 Laura Susan Richards, R.N., Maquo-  
 keta, Iowa\*  
 Beverly Helen Roberts, Minneapolis  
 Allan Richard Roby, St. Paul, WITH  
 DISTINCTION  
 Beatrice Reina Rolnick, St. Paul  
 Ruth Marcia Rosen, Minneapolis  
 LaDonna Gayle Rosland, Minneapolis  
 Bessie Fay Ross, Minneapolis  
 Myron Eugene Roswold, Virginia  
 David Githens Rude, B.A., Duluth  
 Eileen Margaret Russell, Minneapolis  
 Wesley James Sabourin, Bemidji  
 Eileen Marie Sather, B.A., St. Paul  
 Elvira Eleanor Satula, Waterbury,  
 Conn., WITH DISTINCTION\*  
 Marilyn Jean Schaefer, St. Paul, WITH  
 HIGH DISTINCTION  
 June Joslin Schafer, Wichita, Kans.  
 Antonia Anne Scheringer, Minneapo-  
 lis  
 Jeanette Leone Schley, Ceylon, WITH  
 DISTINCTION  
 Betty Ann Schneider, R.N., Elgin,  
 Iowa, WITH HIGH DISTINCTION\*  
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 Park  
 Floy Jeanne Schonberg, Ogilvie  
 Vernon Arthur Schultz, St. Paul  
 Judith Scott, Minneapolis  
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 James Joseph Shannon, A.A., Grand  
 Rapids  
 Nancy Carol Shelgren, White Bear  
 Lake

\* Nursing Education Curriculum.



Hazel Arlene Sherf, Minneapolis,  
WITH DISTINCTION  
Stella Mae Shirck, St. Paul  
Joetta Marie Shogren, North St. Paul  
Anna Shure, Minneapolis  
Irene Mae Silverstein, Minneapolis  
Joan Siverling, Minneapolis  
Gretchen Ann Skalbeck, Portland,  
Ore., WITH DISTINCTION  
Jean Elizabeth Skarnes, Minneapolis  
Ellen Janet Skibness, A.A., Minneapo-  
lis  
Betty Jean Skillingberg, Homestead,  
Mont.\*  
Joan Lee Smilow, Minneapolis  
Bob Lee Smith, Rochester  
Teresa Jane Smith, St. Paul,  
Wynnefred Russella Smith, Minne-  
apolis  
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Patricia Anne Snyder, Albert Lea  
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Elvira Spatafore, Waterbury, Conn.\*  
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Alice Margaret Stahnke, St. Paul,  
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Jeanette Ann Stenseth, Minneapolis  
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Charlotte Louise Stunkard, R.N.,  
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Frank James Svoboda, A.A., St. Paul  
William John Swanson, Minneapolis  
Harriet Avis Syreen, Crosby  
George Francis Tait, Benson  
Jesse Fishback Taylor, Ft. Benton  
Robert Lyle Temple, Hill City, WITH  
DISTINCTION  
Joanne Catherine Thayer, Minne-  
apolis  
Bernard Leroy Thompson, B.A., Daw-  
son  
Beverly Marie Thompson, A.A., Aus-  
tin

Eunice Martha Thompson, St. Paul,  
WITH DISTINCTION  
Lorraine Jean Thompson, Sunburg\*  
Marguerite Claire Thyberg, Mahwah,  
N.J., WITH DISTINCTION  
Nancy Sarff Toman, Duluth, WITH  
DISTINCTION\*  
Luke Martin Toner, Graceville  
Dawn Emmons Tornquist, A.S.,  
Virginia, WITH DISTINCTION  
James Willard Tracy, Minneapolis  
Betty Vonceil Tysk, Minneapolis  
Audrey Belle VanDeren, Minneapolis  
Lowell Thomas VanTassel, Minne-  
apolis  
Dale Masterson Vitalis, West St.  
Paul  
William Winfield Vokaty, Maple  
Lake  
Phyllis Mary VonEschen, Minneapo-  
lis, WITH DISTINCTION  
James Clifford Wakefield, Elk River  
Doris Eleanor Walsh, A.A., Chippewa  
Falls, Wis., WITH DISTINCTION  
Nancy Jean Walsh, St. Paul  
Dorothy Jean Wandrey, Owatonna  
Gordon Harvey Webb, Minneapolis  
Jeanette Frances Weiss, Minneapolis  
Audrey Helen Weldon, St. Paul  
Patricia Ann West, Minneapolis  
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Theron Wayne Whitfield, Minneapo-  
lis  
Elizabeth Ann Whitney, Minneapo-  
lis\*  
Elaine Ann Wichelman, Gibbon\*  
Eugene Jerome Wilhelmi, St. Paul  
Lora Louise Willems, Heron Lake,  
WITH DISTINCTION  
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wood, Mich., WITH DISTINCTION\*  
John Anthony Youngquist, Minne-  
apolis, WITH DISTINCTION  
Ruth Evelyn Zuelke, Minneapolis

\* Nursing Education Curriculum.

## Bachelor of Science in Library Science

Paul Dee Berrisford, B.A., St. Paul  
Lillian D. Johnson Holmes, B.S., Minneapolis  
Ellen Marie Jones, B.A., St. Cloud  
Ada Phyllis Olthoff, B.A., Emery, S.D.

Ruth Mary Payne, B.S., Grand Forks, N.D.

Evelyn A. Refing, B.A., Drake, N.D.  
Frances Marie Wiles, B.E., Duluth  
Beverly June Wilson, B.S., Willow River

## Master of Education

Mary Ellen Evans, B.S., Armada, Mich.  
Robert Lawrence Even, B.S., Cogswell, N.D.  
Mary Starke Harper, B.S., Tuskegee, Ala.  
Louis Emerson Hough, B.S., Salem, Ore.  
Earl James Isaacs, B.S., Stanley, Wis.

Sherman Donald LaBelle, A.A., B.S., Minneapolis

Gerald Halwood Manlove, B.S., St. Paul

Vern Harold Ranney, B.A., Granite Falls

Jane Ann Roberts, B.S., Lake Crystal  
Richard Byron Rosewall, B.S., Blue Earth

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

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Arnold Armin Albrecht, St. Paul  
David Robert Alford, Minneapolis  
Allen Frederick Andersen, St. Paul  
Clarence Allan Anderson, St. Paul  
David Warren Anderson, LaCrosse, Wis.  
Gerald Edwin Anderson, A.A., Worthington, WITH DISTINCTION  
Joan Marilyn Anderson, Minneapolis, WITH DISTINCTION  
Robert Davis Anderson, Duluth, WITH DISTINCTION  
Allan Lee Arnason, St. Paul  
John Parker Bader, Jr., Minneapolis  
George Henry Balcer, Olivia  
Frederick Stanley Barkman, Minneapolis  
Clarence James Baudhuin, Jr., Algoma, Wis.  
Oliver T. Bekken, Luck, Wis.  
Thomas LeRoy Berg, A.L.A., Faribault

Lester Herbert Bergeson, St. Paul  
Robert William Berglund, Clearbrook  
Herbert Jay Bernick, St. Paul  
William Edgar BeVier, Minneapolis  
George Burroughs Blake, Minneapolis

Harold James Bloom, Worthington  
Robert Sheldon Blumberg, Minneapolis

Donald J. Brenner, Minneapolis  
Donald Wayne Bricher, St. Paul  
Darrell Everett Brink, St. Paul  
Arlan Jerome Buchman, Spooner, Wis.

John Bernard Buettner, St. Cloud  
Fred Herman Burnstead, St. Paul  
Edwin Arnold Carlson, Soudan, WITH DISTINCTION

Luverne S. Carlson, Minneapolis  
Dick Roy Clark, Mankato  
Richard Wayne Clement, Minneapolis

David Richard Collis, Minneapolis  
 Douglas Cameron Crocker, Minneapolis  
 James Jude Cron, Minneapolis  
 Marilyn Louise Cuddy, Minneapolis,  
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 Joseph Frank Czvik, A.A., St. Paul  
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 Raymond Paschal Deeney, Minneapolis  
 Meyer Diamond, St. Paul  
 Helge Wendell Eastling, Minneapolis  
 David Jerome Ekberg, Minneapolis,  
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 Eugene Henry Ekwall, Kennedy  
 Robert Warren Elofson, Minneapolis  
 Hugh Joseph Enzler, Minneapolis  
 Harold Bertrum Finch, Jr., Minneapolis  
 Robert Lewis Findorff, Minneapolis,  
 WITH DISTINCTION  
 Leslie Ralph Flink, Cambridge, WITH  
 DISTINCTION  
 Roderick Alfred Forsgren, Crosby  
 Carl Hugo Fritze, Owatonna, WITH  
 DISTINCTION  
 Leonard Patrick Gill, Minneapolis  
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 John Joseph Graves, Detroit Lakes,  
 WITH DISTINCTION  
 John Frederick Gross, Minneapolis  
 Gunval Palmer Gulbrandson, Bemidji  
 Donald Oliver Hambleton, Minneapolis,  
 WITH DISTINCTION  
 Dan Gish Haney, Minneapolis, WITH  
 DISTINCTION  
 Lyle Vernon Hanson, Minneapolis  
 Robert Eugene Harris, Granite Falls  
 Frederick Greene Hayden, Marble  
 Edward Charles Hein, Minneapolis  
 Reinald Christian Heise, Emmetsburg,  
 Iowa  
 Osmond Joseph Hellen, Sargeant  
 Robert Alvin Helvig, B.Ch.E., St. Paul  
 Arlyn Calvin Henne, Luverne, WITH  
 DISTINCTION  
 Alfred Glenn Henjum, Worthington  
 Virgil Cyril Herrick, New Ulm  
 David Allen Himmelman, Minneapolis  
 Robert Vernon Hovelson, Minneapolis  
 Clyde Milton Illg, Detroit Lakes  
 Joyce Evangelyn Iverson, Thief River  
 Falls  
 Richard Pomeroy Jacobson, Minneapolis  
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 Joel Percy Johnson, Minneapolis  
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 Loren Ernest Lucke, Minneapolis  
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 Wis.  
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 Stanley Carl Mellin, Marcell  
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 Thomas Richard Michalski, North  
 St. Paul  
 Allen Mirsky, Minneapolis  
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 Jack E. Munson, Minneapolis  
 Dale Selmer Nelson, Minneapolis  
 James Wallace Neuwirth, Minneapolis

Leonard Newman, Minneapolis  
 Richard Nielsen, Minneapolis  
 Marilyn Noeske, Alexandria  
 Randolph Roger Nyquist, Duluth  
 Rodney Leonard Oberg, St. Paul  
 William John O'Brien, Jr., St. Paul  
 Howard Vincent O'Connell, Jr., St. Paul  
 Charles Julian Opheim, LL.B., Minneapolis  
 Robert Henry Palistrant, St. Paul  
 Harvey DeLancey Palmer, St. Paul,  
 WITH DISTINCTION  
 James Turnham Pearson, Little Falls  
 Richard Duane Peters, Slayton  
 Charles Earl Peterson, St. Paul  
 Evan Hugo Peterson, Jr., Minneapolis  
 Glen Douglas Peterson, Minneapolis  
 Kenneth Albert Peterson, St. Paul  
 Thomas Owen Phillips, St. Louis  
 Park  
 Charles William Pierson, St. Paul  
 Violet Portlas, Hibbing  
 Francis Joseph Pribyl, Elysian  
 Byron Dale Rasmussen, Lamberton  
 Robert James Roney, Minneapolis,  
 WITH DISTINCTION  
 Eugene Peter Ronning, Minneapolis  
 Palmer Lakin Rooch, St. Paul  
 Jerome Otto Rowe, St. Paul  
 Wayne Emmet Sampson, Hector  
 Gordon William Sangster, Duluth  
 Paul Santrach, Jr., Calumet  
 Sheldon Schnitzer, Minneapolis,  
 WITH DISTINCTION  
 Roger William Schnobrich, St. Cloud,  
 WITH DISTINCTION  
 Raymond Joseph Schuster, Minneapolis  
 Victor Carl Shoaff, Grand Rapids  
 James Lawrence Smith, A.A., Austin  
 James Harry Sova, Minneapolis  
 Robert George Spellman, Minneapolis  
 Frank Richard Stewart, Stillwater  
 Howard Thomas Stewart, Rochester  
 Austin Jule Stibbe, St. Paul  
 Geneva Stickelberger, St. Paul

Carl Alfred Streufert, Minneapolis  
 Lloyd Raymond Sundblad, Minneapolis  
 Norris George Swanburg, St. Paul  
 Nona Jean Swanson, Minneapolis  
 Lyle Gene Tabat, Sheffield, Iowa  
 Richard John Tanquist, Minneapolis  
 Ronald Leslie Teigen, Kenyon, WITH  
 HIGH DISTINCTION  
 David William Thayer, St. Paul,  
 WITH DISTINCTION  
 Douglas Walser Thomson, St. Paul  
 Walter Willis Thulin, Minneapolis,  
 WITH DISTINCTION  
 Philip Hubbell Thuma, B.M.E.,  
 St. Paul  
 Ralph R. Turner, B.S.L., Minneapolis  
 Donald Raymond Tweet, Newfolden,  
 WITH DISTINCTION  
 William Jacob Uhl, Minneapolis  
 Nello Rudolph Valentini, Chisholm  
 Harold E. Vickland, Minneapolis  
 Lester Robert Voell, Minneapolis  
 Bruce Isadore Waller, Minneapolis,  
 WITH DISTINCTION  
 Hillard Harry Ward, St. Paul, WITH  
 HIGH DISTINCTION  
 Douglas McMillan Warner, Jr.,  
 Minneapolis  
 Nancy Lou Warner, St. Louis Park  
 Paul Edmund Westling, Minneapolis  
 John William Westrum, Albert Lea  
 Orrin Alfred Wichelmann, Glencoe  
 Lois Elaine Wickberg, Minneapolis  
 Paul Arthur Wilken, Jr., Minneapolis  
 Duane E. Windmiller, Fergus Falls,  
 WITH DISTINCTION  
 Alice Katie Winkelbach, Minneapolis  
 Sherman Winthrop, Duluth, WITH  
 DISTINCTION  
 Stanton Lyle Wolkoff, St. Paul,  
 WITH DISTINCTION  
 John Alexander Woodhall, Jr., Glenwood

## Bachelor of Science in Economics

Robert Lowe Bergfalk, Minneapolis  
Roger Seymour Carlson, Minneapolis,  
WITH HIGH DISTINCTION  
Donald Jerome Clarkin, Minneapolis  
Ervine Henry Geiger, Jr., Minne-  
apolis

Levi Millner Peterson, Minneapolis  
Robert Edward Roseen, Minneapolis,  
WITH HIGH DISTINCTION  
Eugene Francis Schafer, Minneapolis  
John Ahugh Wedum, Minneapolis

## COLLEGE OF PHARMACY

### Bachelor of Science in Pharmacy

Vinston Edward Anderson, St. Paul  
William Royal Belleau, Green Bay,  
Wis.

Robert Lewis Beske, Hector  
Lee Clark Boekenoogen, Moose Lake  
Raymond Edward Braun, Melrose  
Darrell Eugene Breen, Westbrook  
Robert Harold Brix, Minneapolis  
Donald William Carlson, Minne-  
apolis

David Beck Clark, Park Rapids  
Leslie Willard Collins, Red Wing  
David Kerry Conger, Ogilvie  
Willard Erwin Crosby, Winnebago  
Robert Warren Dodds, Moorhead  
Edward Clayton Edsall, Minneapolis  
Lyle Gerald Fritze, LeSueur  
Joseph Geller, St. Paul  
Raymond P. Giovannini, Evelth  
Thomas Walter Giswold, Grantsburg,  
Wis.

John Darrol Goldner, Minneapolis  
Warren Gamaliel Gordon, Worth-  
ington

Richard William Greeman, St. Paul  
Robert Emanuel Guthe, A.A., Duluth  
Arthur James Hanson, Osakis  
Harry Donald Hanson, St. Paul  
Robert Owen Hanson, Lanesboro  
Arnold Albert Haugdahl, Duluth  
Eugene Carl Henke, Hutchinson  
Kenneth Charles Herzog, New Ulm  
Arthur Edwin Hoganson, Two Har-  
bors

Donovan M. Hopperstad, Albert Lea  
Carl J. Iverson, Pine City

Richard Thomas Jeans, Stillwater  
Peter George Jianopoulos, Walker  
Charles William Johnson, Morris  
Maynard Lawrence Johnson, Plain-  
view

Curtis Monroe Jordahl, St. Paul  
Richard Jorgen Juul, Hutchinson  
Stephen Anthony Kachina, Columbia  
Heights

Bernard Thomas Koenig, Winona  
Bertram George Leach, Minneapolis  
Thomas William Loonan, Easton  
Roland LeRoy Marshall, Crookston  
John Henry McNeely, Montrose  
Mervin Arthur Narum, Mabel  
John Louis Neveau, Minneapolis  
Kay Dorothy Newman, A.A., Duluth  
George Richard Oberg, Duluth  
Shelby John O'Brien, Jr., Minne-  
apolis

Roy Hugo Olson, Minneapolis  
Ben Joseph Osterbauer, Wyoming  
Morris Edward Osterbauer, Wyoming

Irvin Byron Pagels II, Morris  
Richard Roy Paulson, Fairmont  
Betty Ann Payne, Leonard  
Joan Ione Quam, Minneapolis  
Mario Frederick Rosatti, Hibbing  
Howard S. Rosen, Minneapolis  
George Frederick Setzer, St. Paul  
Robert James Setzer, St. Paul  
Robert William Spletstoesser,  
Waconia

Margery Ann Stafford, Minneapolis  
Richard Harrison Stafford, Minne-  
apolis

Elmer Francis Stemper, St. Paul  
 Edward Frank Stokes, Sandstone  
 Russell Erling Yngve Strom, Duluth  
 Carl Norman Swanson, Minneapolis  
 Warren Dale Tenhoff, Balaton  
 Robert Wendilen Tischler, St. Paul

John Whitney Trumm, Alexandria  
 Robert Jennings Volness, Perley  
 Richard Arnold Wagner, Clark, S.D.  
 Robert James Zenk, New Ulm  
 James Eugene Zwisler, Minneapolis

## LAW SCHOOL

### Bachelor of Science in Law

Richard Ellsworth Aaberg, Minneapolis  
 Richard Duane Allen, Byron  
 Robert Bakke, Minneapolis  
 Harold Keith Bradford, Jr., Minneapolis  
 Carl John Bradshaw, Oelwein, Iowa  
 William Ives Buhler, St. Paul  
 Robert James Coates, Perham  
 Jonathan Earl Cudd, Minneapolis  
 Willard Stanley Domich, Ely  
 Walter A. Egeland, Two Harbors  
 Norman Eugene Evidon, Minneapolis  
 William Charles Geimer, Minneapolis  
 Richard James Gunn, Minneapolis  
 John William Hedberg, Minneapolis  
 Robert Leslie Helland, Arthur, N.D.  
 John Robert Hetland, Minneapolis  
 Hollis Gerald Jay, A.L.A., Virginia  
 Richard John Kantorowicz, Minneapolis  
 Fred Richard Kraft, A.A., Austin  
 Robert Latz, Minneapolis  
 Ronald Hjalmer Linman, Minneapolis  
 Paul Wallace Lohmann, Minneapolis

Zelotus Lyddy, Kendall, Wis.  
 Gerald Clayton Magee, Minneapolis  
 Lloyd Thomas Merrigan, Minneapolis  
 William Wallace Merrill, Glencoe  
 William Novak, Minneapolis  
 James David Olson, B.A., Minneapolis  
 Raymond B. Ondov, Minneapolis  
 Lee Benjamin Reinfeld, Duluth  
 Noah Schanfield Rosenbloom, B.A., Minneapolis  
 Gerald Edward Rutman, St. Paul  
 Edward James Schwartzbauer, St. Paul  
 Robert George Sether, St. Paul  
 Warren Wesley Shafer, St. Paul  
 Norman Theodore Shaft, St. Paul  
 Julius Collier Smith, Shakopee  
 Stephen Francis Varichak, Minneapolis  
 Donald Patrick Waddick, Minneapolis  
 Charles Frederick Wallander, Minneapolis  
 Burton Gerald Weisberg, Minneapolis  
 Leonard Alfred Wilson, Jr., Mahanomen\*  
 Thomas Earl Wolf, B.A., Rochester

### Bachelor of Laws

Richard Ellsworth Aaberg, Minneapolis  
 Osmund Howard Aase, B.S.L., Kenyon  
 Donald Douglas Alsop, B.S.L., Duluth

Russell Meridan Bennett, B.S.L., Minneapolis  
 Robert Lowe Bergfalk, Minneapolis  
 Elliott O. Boe, B.A., Fergus Falls

\* Degree conferred as of March 20, 1952.

Raymond Alexander Bogucki, B.S.,  
 Minneapolis  
 Josiah E. Brill, Jr., B.A., Minneapolis  
 John Patrick Byron, B.S.L., Minne-  
 apolis  
 Douglas Wayne Cann, B.S.L.,  
 Blackduck  
 Donn Douglas Christensen, B.S.L.,  
 St. Paul  
 Robert James Coates, Perham  
 Willard Lester Converse, White Bear  
 Lake  
 Byron Miles Crippin, Jr., A.L.A.,  
 B.S.L., Minneapolis  
 Willard Stanley Domich, Ely  
 Dennis Francis Donovan, Jr., B.A.,  
 Duluth  
 Thomas Edward Dougherty, B.S.,  
 Minneapolis  
 Philip Harry Eastwood, B.A., Still-  
 water  
 Bobby B. Ebbesen, B.S.L., Revere  
 Walter A. Egeland, Two Harbors  
 Donald Edward Engle, B.A., B.S.L.,  
 St. Paul  
 Patricia E. Erckenbrack, B.S.L.,  
 Adams  
 Henry H. Feikema, B.A., Minne-  
 apolis  
 Lloyd Manly Ferdinandsen, Jr.,  
 Winona  
 Thomas Gerald Forsberg, B.S.L.,  
 Appleton  
 Donald Theodore Franke, A.A., B.A.,  
 Rochester  
 Sheldon Jack Gitelman, B.S.L.,  
 Minneapolis  
 Erwin Allen Goldstein, B.S.L.,  
 Minneapolis  
 Richard Jack Groseth, B.S.L., Duluth  
 Leslie Charles Gulbrandson, A.A.,  
 B.S.L., Albert Lea  
 Richard Joseph Haertzen, B.S.L.,  
 Minneapolis  
 Timothy Jerome Halloran, B.S.L.,  
 St. Paul  
 Gerald Hubert Hanratty, B.S.L.,  
 Barry  
 Hunter E. Helgeson, B.S.L., Bagley  
 Samuel Hubbard Hertogs, B.S.L.,  
 Excelsior  
 Kermit Ferdinand Hoversten, B.S.L.,  
 Marshall  
 Jeanne Florence Hubert, B.S.L.,  
 Duluth  
 Hollis Gerald Jay, A.A., B.S.L.,  
 Virginia  
 Roger Alden Johnsen, B.A., Milwau-  
 kee, Wis.  
 Hans Waldemar Johnson, B.S.L.,  
 Hawley  
 Lee Norman Johnson, B.B.A., Min-  
 neapolis  
 Richard Walter Johnson, B.S.L., Min-  
 neapolis  
 Thomas Ernest Kellett, B.A., B.S.L.,  
 Minneapolis  
 Roger George Kennedy, B.A., St.  
 Paul  
 Robert Stanley Kersch, B.S.L., Min-  
 neapolis  
 Robert Marvin Kommerstad, Minne-  
 apolis  
 Richard George Larcau, B.A., Bur-  
 lington, Vt.  
 Arnold William Larson, B.S.L.,  
 Albert Lea  
 Richard Suby Larson, B.S., Minne-  
 apolis  
 Elizabeth Jane Leathers, B.S.L., St.  
 Paul  
 John Hewett Lemme, B.S.L., Still-  
 water  
 Charles Claire Lewis, B.S.L., Windom  
 William Paul Lines, B.A., Cotton-  
 wood  
 LeRoy Albert Loder, B.S.L., Coop-  
 erstown, N.D.  
 Zelotus Lyddy, Kendall, Wis.  
 William Drewry Lyons, B.S.L.,  
 White Bear Lake  
 Richard Harris Magnuson, B.S.L.,  
 Minneapolis  
 Phillip J. Maguire, B.S.L., St. Paul  
 Raymond Joseph Marshall, B.S.L.,  
 Winona  
 George Constandine Mastor, B.S.L.,  
 Bemidji  
 Robert Edward McGinty, B.S.L.,  
 St. Louis Park  
 Michael Edward McGuire, B.A.,  
 Henderson

James Bruce McKenney, B.S.L.,  
Minneapolis  
Edward B. McMenemy, Rosemount  
Thomas Francis Meany, B.S.L.,  
Austin  
Neil Roderick Morem, B.B.A.,  
Harmony  
Maylon Garth Muir, B.S.L., Jackson  
Thomas Ryan Mulcahy, B.A., B.S.L.,  
Minneapolis  
Herman Edward Nelson, B.B.A.,  
Minneapolis  
Donald Sylvan Nolte, B.S., Waseca  
Dorothy Marie Oerting, B.A., St. Paul  
Alton Jerome Olson, B.S.L., Cam-  
bridge  
William Rinehart Pearce, B.S.L.,  
Faribault  
Bonnie Lorraine Perfetto, B.A.,  
St. Paul  
Raymond Charles Ploetz, B.S.L.,  
Minneapolis  
James Edward Preece, B.S.L., Inter-  
national Falls  
Arthur Korsmo Rholl, B.A., North-  
wood, N.D.  
William Sanders Rosen, B.S.L., St.  
Paul  
Noah Schanfield Rosenbloom, B.A.,  
Minneapolis

Joseph Edward Salland, B.A., B.S.L.,  
St. Paul  
Andrew Gorry Scott, B.S.L., St. Paul  
Robert George Sether, St. Paul  
Warren Wesley Shafer, St. Paul  
Jerome John Sicora, B.S.L., Minne-  
apolis  
Jerome Bernard Simon, B.S.L., Duluth  
Harold Jerome Soderberg, Jr., B.A.,  
Minneapolis  
Robert Edward Swift, B.S.L., Minne-  
apolis  
Chester David Taylor, Jr., B.S.L.,  
South St. Paul  
James VanValkenburg, B.S.L., Min-  
neapolis  
Arthur Carl Wangaard, Jr., B.S.L.,  
Minneapolis  
Frederick Robinson Weddel, St. Paul  
William Richard Weiss, B.S.L.,  
St. James  
David Keller Wendel, B.S.L., Minne-  
apolis  
Marian Frances Willems, B.S.L.,  
Wayzata  
Gerald Grant Williams, B.S.L., St.  
Paul  
Leonard Alfred Wilson, Jr., Mahno-  
men\*

## SCHOOL OF DENTISTRY

### Graduate Dental Hygienist

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Phyllis Anne Anderson, Minneapolis  
Lois Henriette Bowman, St. Paul  
Marilyn Segal Chiat, Minneapolis  
Carmen June Corey, Minneapolis  
Mary Ann Daly, Minneapolis  
Barbara Lynn Dykins, Nanticoke, Pa.  
Jean Marjorie Ellingwood, Minne-  
apolis  
Marie Therese Funke, Minneota  
Shirley Helen Habstritt, Raymond  
Beverly Jayne Harrison, Wadena

Mary Cecilia Heise, Minnesota Lake  
Phyllis Ann Hollander, Wausau, Wis.  
Marilyn Jean Johnson, Robbinsdale  
Jacqueline Joyce Koehn, Eagle Grove,  
Iowa  
LaVonne Arlys Lilja, Minneapolis  
Beverly Jean Lind, Belle Fourche,  
S.D.  
Faye Matilda Lunow, Minneapolis  
Marilyn Joy Matravers, Oconto, Wis.  
Marianne Miller, Glenville  
Lucille Romaine Miner, A.A., St.  
Cloud

\* Degree conferred as of March 20, 1952.



Eleanor Ruth Murray, Minneapolis  
Clara Ann Nelson, Billings, Mont.  
Marjory Ellen Peterson, Marinette,  
Wis.  
Jacqueline June Schelen, A.A., St.  
Paul  
Jane Sinclair, Owatonna

Audree Joseph Singer, Minneapolis  
Coletta Susan Talbot, North Branch  
Mary Jane Warpeha, A.A., Minne-  
apolis  
Mary Elizabeth Westby, Madison  
Dolores Mae Whitfield, Minneapolis

## Bachelor of Science

Herman Aeziman, B.A., St. Paul  
Jerold Francis Ahlfs, Minneapolis  
Ronald Lyle Albright, Lafayette  
Dale William Amundson, Duluth  
Richard Wellis Anderson, B.A.,  
St. Paul  
Robert Leo Anderson, St. Paul  
Mervin Allen Aus, Minneapolis  
Edwin J. Bard, Minneapolis  
Joan Kathryn Bardell, Glasgow, Mont.  
Robert Joseph Barlett, Minneapolis  
Robert Theodore Benson, St. Paul  
Pearl Quentin Beveridge, D.D.S.,  
Appleton  
Maurice Raymond Bjerken, Minne-  
apolis  
Edgar Detlev Bock, Truman  
Norris Lee Boe, Ogema  
Charles Allen Boline, Henning  
Irving Allen Borkon, B.A., Minne-  
apolis  
Wilbur Martin Bunker, Olivia  
Thomas Lynn Byfield, Fargo, N.D.  
James Edward Cermak, Lester Prairie  
Richard Thomas Chopp, Bovey  
George Christ Collis, B.A., Minne-  
apolis  
Elmer Thomas Curren, Jr., Crosby  
John Alfred Dahlquist, Minneapolis  
Eldon Jay Deadrick, Paynesville  
Rudolph Brodeen Delton, Minne-  
apolis  
Thomas James Deutsch, Duluth  
Norbert Theodore Dickman, Ogema  
Donald Charles Dietz, Pine Island  
George William Dimick, Faith, S.D.  
Joseph McGregor Dobie, Mapleton  
James Lewis Dobrin, B.A., Minne-  
apolis  
Dillon Bronson Donaldson, Windom

William John Dresser, Arlington  
Raymond Elliott Dunham, B.A.,  
St. Paul  
Eugene Francis Eiden, Cologne  
Thomas Jean Emond, Minneapolis  
Paul Milton Englund, Minneapolis  
Russell Fridolph Engstrom, Minne-  
apolis  
Dale Irwin Curtis Erickson, St. Paul  
Burrell Robert Ernst, Jr., B.N.S.,  
B.A., Colcraine  
James Frederick Feilzer, B.A., Minne-  
apolis  
Gerald Rinde Florence, Minot, N.D.  
William John Ford, Jr., Fargo, N.D.  
James Douglas Fossum, Crosby  
Melvin Leonard Frazee, Minneapolis  
Richard Joseph Fredlund, B.A.,  
Minneapolis  
Bernard Henry Gervais, Marshall  
Bryce Allen Gilbertson, Luverne  
Robert Clay Gilman, Owatonna  
Richard Harry Gordon, A.S., B.A.,  
Crane Lake  
William Francis Gorman, St. Paul  
Joseph Louis Gotta, Jr., Ironwood,  
Mich.  
Richard Walter Grabner, A.A.,  
Minneapolis  
Zane Harry Gray, Osakis  
Carroll Clayton Groth, Ogema  
Raymond Folke Gustafson, Minne-  
apolis  
Charles Warren Hallgren, Carver  
Richard Palmer Hansen, B.A., Minne-  
apolis  
Robert VanSant Harris, Roseau  
Harry Willard Haugan, B.A., Alvarado  
Joseph Robert Heck, Buhl

George Hallaway Henkel, B.A.,  
 White Bear Lake  
 Sylvester Stephan Hera, Jr., B.A.,  
 Minneapolis  
 Clement Norris Herred, Mobridge,  
 S.D.  
 Gerald Thomas Hesley, A.A., B.A.,  
 Rochester  
 James Sylvester Hiner, Grand Meadow  
 Arthur George Robert Hoaglund,  
 Minneapolis  
 Kenji Horita, A.A., B.A., Minne-  
 apolis  
 William Franklyn Hudelson, B.A.,  
 Hibbing  
 Melvin Christopher Humbert,  
 St. Cloud  
 Kay Herbert Matthews Ingebrigtsen,  
 B.M.E., Minneapolis  
 Leonard Robert Iverson, Jr., Glen-  
 wood  
 Walter Gerome Iverson, B.A., Minne-  
 apolis  
 Robert James Jacobsen, Minneapolis  
 Frank Douglas Jensen, Brainerd  
 Verland Eldred Johnson, Jasper  
 Wayne Douglas Johnson, B.A.,  
 Minneapolis  
 Ralph Ray Johnston, Minneapolis  
 Franklin Robert Jung, Wadena  
 Carl Walter Karja, A.S., Virginia  
 Leo Victor Kennedy, Minneapolis  
 Paul Frederick Kiecker, B.A.,  
 Rochester  
 Ben Thomas Kirkpatrick, Jr., St. Paul  
 Richard Wadsworth Knapp, B.B.A.,  
 Rochester  
 Thomas John Kotula, Jr., Browerville  
 Allen George Krebs, Albany  
 John Clayton Larsen, St. James  
 Richard Stanley Law, St. Paul  
 Delbert Wayne Leckband, B.A.,  
 Kinbrae  
 Walter David Lee, Caledonia  
 Robert Lawrence LeGault, Argyle  
 Gordon Armand Leroux, Marble  
 Davey Edmund Lieb, Minneapolis  
 Calvin Leroy Lien, Fargo, N.D.  
 Edward Charles Linden, Duluth  
 David Thomas Lingle, B.A., Cass  
 Lake  
 James Edison Lofstrand, Minneapolis  
 Harold Arthur Lorentzen, Minne-  
 apolis  
 Anton Laverne Lund, Rochester  
 Hobert Philip Lundblade, Sandstone  
 Harry Charles Lundeen, B.A.,  
 Amery, Wis.  
 John Edmund Maeurer, St. Paul  
 James Patrick Mallon, Little Falls  
 William Burgess McCallum, Hibbing  
 Loren James McCarty, St. Cloud  
 Wesley Joseph McIntire, Carlton  
 James Ivan Medof, B.A., Minneapolis  
 Maynard Albert Mellang, B.A., Albert  
 Lea  
 James Allen Mentzer, Minneapolis  
 Leonard Albert Moehrle, B.A., South  
 St. Paul  
 John Hall Moline, Austin  
 James Norman Murray, Duluth  
 Earl Dennis Nash, Winona  
 Donald Henry Nelson, Minneapolis  
 Robert Anton Nelson, Ada  
 Gordon John Neumann, LaCrosse,  
 Wis.  
 Eugene Thomas O'Brien, Belle Plaine  
 Harold Leroy Odden, Minneapolis  
 Robert Harry Olander, B.A., M.S.,  
 St. Paul  
 James Richard Olesberg, Moorhead  
 Richard Charles Oliver, Hastings  
 Leslie T. Olson, St. Paul  
 Roy Clarence Olson, Hendricks  
 Tak Osada, Minneapolis  
 David Jerome Osdoba, Albert Lea  
 Richard Julius Osmundson, East  
 Grand Forks  
 Charles Donald Ostergren, B.A.,  
 St. Paul  
 William Douglas Ostergren, B.A.,  
 St. Paul  
 John James Owens, Menahga  
 Clifford Archie Patterson, Remer  
 Richard Lee Patterson, Minneapolis  
 Vincent Joseph Paul, Spring Valley  
 William Douglas Penny, Rolla, N.D.  
 Raymond George Petersen, St. Paul  
 Ralph Charles Edward Peterson,  
 Minneapolis  
 Vernon Eric Peterson, B.A., Minne-  
 apolis

Wesley Carl Peterson, Virginia  
 Thomas Reuben Pirsch, Minneapolis  
 Dean Edgar Rasmussen, St. Paul  
 Harley Alvin Raykowski, Jr., St. Paul  
 Clifford Adam Robertson, Long  
 Prairie  
 Anthony David Romano, Jr., Duluth  
 Mario Romero, Edinburg, Tex.  
 William Dean Romers, Dillon, Mont.  
 Robert Fredrick Sande, Two Harbors  
 Donald Jesse Scattarella, A.A.,  
 Minneapolis  
 Harold Edward Schad, R.N., Plain-  
 view  
 Fred John Schletty, B.A., Minneapolis  
 Eugene Valentine Schoener, Minne-  
 apolis  
 Jerome Edward Schuldt, St. Paul  
 John Wesley Sheets, B.S., Brainerd  
 Myron Thorphin Shervheim, Ken-  
 sington  
 Kenneth Marvin Shipstead, Winona  
 Robert Emmett Silha, Minneapolis  
 John Riffe Simmons, Jr., B.S., Green-  
 ville, S.C.  
 Wallace Allen Simunds, Moorhead  
 Rogers Ardel Sjodin, Coleraine  
 Joseph Clay Smith, Minneapolis  
 Arthur James Snyder, Rosholt, S.D.  
 Dean Leslie Soderberg, Duluth  
 Douglas Nelson Sorenson, Minne-  
 apolis  
 Robert Upham Spear, B.A., St. Paul  
 Herbert Joseph Stemper, St. Paul  
 Stewart Douglas Stevens, Jr., A.A.,  
 St. Paul  
 Alan Orton Stewart, St. Louis Park  
 Henry Duerre Stokes, Jr., Sandstone  
 Roland Lloyd Stromsborg, B.A.,  
 St. Cloud  
 Gordon Reinhart Struck, A.L.A., B.A.,  
 St. Paul  
 Robert Weber Swanson, Washington,  
 D.C.  
 Richard John Swenson, Grove City  
 Ray Koichi Tachibana, Minneapolis  
 Iden Grant Takaichi, Minneapolis  
 Almon Orville Thompson, B.S.,  
 Spring Grove  
 Keith Richard Thompson, Mandan,  
 N.D.  
 Theodore Sevrin Thompson, B.A.,  
 Erskine  
 John Frederick Thorene, Duluth  
 Reuben Jay Tieszen, Marion, S.D.  
 Edgar George Timm, Wood Lake  
 Jack Elmer Tomhave, Cloquet  
 George Roger Tompkins, Redwood  
 Falls  
 Biruta Kalnare Treibergs, Minne-  
 apolis  
 William Marcus Trygstad, B.A.,  
 Minneapolis  
 Edward Gardelle Wagner, B.S.,  
 New Ulm  
 Dale Edward Waite, B.A., St. Paul  
 Donald Frederick Watson, Minne-  
 apolis  
 David Ernest Weiss, Eau Claire, Wis.  
 Donald Alphonse Welna, Minneapolis  
 Willis Arthur Welty, Big Sandy,  
 Mont.  
 Marion Richard White, Minneapolis  
 Harvey Ronald Wiebold, St. Paul  
 Paul Raymond Wild, St. Paul  
 George Richard Williams, A.L.A.,  
 Minneapolis  
 Kenneth Eugene Wilson, B.A.,  
 Minneapolis  
 Harold Joseph Woolfrey, Crosby,  
 N.D.  
 Thomas John Zbaracki, Duluth  
 Edgar Frederick Ziegler, Perham  
 George Curtis Ziegler, A.L.A., St. Paul  
 Albert Zitton, B.Aero.E., St. Paul

## Doctor of Dental Surgery

Herman Aeziman, B.A., St. Paul  
 Jerold Francis Ahlfs, Minneapolis  
 Edwin Jay Bard, Minneapolis  
 Robert Theodore Benson, St. Paul  
 Pearl Quentin Beveridge, Appleton  
 Edgar Detlev Bock, Truman  
 Thomas Lynn Byfield, Fargo, N.D.  
 James Edward Cernak, Lester Prairie

Richard Thomas Chopp, Bovey  
 George Christ Collis, B.A., Minneapolis  
 Elmer Thomas Curren, Jr., Crosby  
 Rudolph Brodeen Delton, Minneapolis  
 Norbert Theodore Diekman, Ogema  
 Donald Charles Dietz, Pine Island  
 George William Dimick, Faith, S.D.  
 Joseph McGregor Dobie, B.A., Mapleton  
 Dillon Bronson Donaldson, Windom  
 William John Dresser, Arlington  
 Paul Milton Englund, Minneapolis  
 Russell F. Engstrom, Minneapolis  
 Burrell Robert Ernst, Jr., B.N.S., B.A., Coleraine  
 Gerald Rinde Florence, Minot, N.D.  
 Bernard Henry Gervais, Marshall  
 Bryce Allen Gilbertson, Luverne  
 Joseph Louis Gotta, Jr., Ironwood, Mich.  
 Zane Harry Gray, Osakis  
 Carroll Clayton Groth, Ogema  
 Richard Palmer Hansen, B.A., Minneapolis  
 Robert VanSant Harris, Roseau  
 Clement Norris Herred, Mobridge, S.D.  
 James Sylvester Hiner, Grand Meadow  
 Kay Herbert Matthews Ingebrigtsen, B.M.E., Minneapolis  
 Robert James Jacobsen, Minneapolis  
 Ralph Ray Johnston, Minneapolis  
 Franklin Robert Jung, Wadena  
 Paul Frederick Kiecker, B.A., Rochester  
 Allen George Krebs, Albany  
 Walter David Lee, Caledonia  
 Gordon Armand Leroux, Marble  
 Davey Edmund Lieb, Minneapolis  
 Calvin Leroy Lien, Fargo, N.D.  
 Edward Charles Linden, Duluth  
 David Thomas Lingle, B.A., Cass Lake  
 James Edison Lofstrand, Minneapolis  
 Harold Arthur Lorentzen, Minneapolis

Harry Charles Lundeen, B.A., Amery, Wis.  
 Loren James McCarty, St. Cloud  
 Wesley Joseph McIntire, Carlton  
 James Ivan Medof, B.A., Minneapolis  
 James Allen Mentzer, Minneapolis  
 Leonard Albert Moehrle, B.A., South St. Paul  
 Donald Henry Nelson, Minneapolis  
 Robert Anton Nelson, Ada  
 Robert Harry Olander, B.A., M.S., St. Paul  
 James Richard Olesberg, Moorhead  
 Leslie T. Olson, St. Paul  
 Richard Julius Osmundson, East Grand Forks  
 Richard Lee Patterson, Minneapolis  
 Raymond George Petersen, St. Paul  
 Clifford Adam Robertson, Long Prairie  
 Mario Romero, Edinburg, Tex.  
 Stanley Earl Runke, B.S., Mapleton  
 Robert Fredrick Sande, Two Harbors  
 Harold Edward Schad, R.N., Plainview  
 Eugene Valentine Schoener, Minneapolis  
 John Wesley Sheets, B.S., Brainerd  
 John Riffe Simmons, Jr., B.S., Greenville, S.C.  
 Rogers Ardell Sjodin, Remer  
 Joseph Clay Smith, Minneapolis  
 Arthur James Snyder, Jr., Rosholt, S.D.  
 Dean Leslie Soderberg, Duluth  
 Herbert Joseph Stemper, St. Paul  
 Alan Orton Stewart, St. Louis Park  
 Henry Duerre Stokes, Jr., Sandstone  
 Robert Weber Swanson, Washington, D.C.  
 Iden Grant Takaichi, Minneapolis  
 Almon Orville Thompson, B.A., Spring Grove  
 Theodore Sevrin Thompson, B.A., Erskine  
 John Frederick Thorene, Duluth  
 Reuben Jay Tieszen, Marion, S.D.  
 William Marcus Trygstad, B.A., Minneapolis

Edward Gardelle Wagner, B.S.,  
New Ulm  
Harvey Ronald Wiebold, St. Paul

Harold Joseph Woolfrey, Crosby,  
N.D.  
Thomas John Zbaracki, Duluth

## COLLEGE OF MEDICAL SCIENCES

### Graduate in Nursing†

Eva Mae Lowell Anderson, St. Paul  
Ann Marie Backlund, Minneapolis  
Patricia DeVaney Barnes, Hibbing  
Jeanne Sturges Brandt, Minneapolis  
Joan Leslie Carter, Minneapolis  
Marilyn Jeanne Clark, Duluth  
Donna Moulton Dielentheis, Still-  
water  
Donalda Irene Dombeck, Minneapolis  
Dorothy Wood Evans, Minneapolis  
Marie Theresa Hill, Minneapolis  
Florence Marie Jackson, St. Paul  
Loann Lano, Long Prairie  
Norma Jane Lyslo, Redwood Falls

Goldie Anne Mix, Duluth  
Phyllis Janet Mlinar, Spring Valley  
Virginia Helena Nadeau, St. Paul  
Mary Jean O'Brien, Bayport  
Virginia Holt Peterson, Minneapolis  
Kathleen Peyton, Minneapolis  
Anita Lee Phillips, Minneapolis  
Janice Holmquist Sathra, St. Paul  
Park  
Lucy Schwartz Sontag, Sleepy Eye  
Helen Jeanine Stiepan, St. Paul  
Nancy Sarff Toman, Duluth  
Elaine Ann Wichelman, Gibbon

### Bachelor of Science in Professional Nursing†

Frances Fay Fiedler, Osseo, Wis.  
Phyllis Evangeline Nashund,  
Glen Lake

Marjorie Lysne Swanson, Mason City,  
Iowa  
Margaret Frances Whelpley, Spokane,  
Wash.

### Bachelor of Science

Barbara Singley Ackerman, Rochester,  
Occupational Therapy  
Helen Lyons Adrian, R.N., St. Paul,  
Public Health Nursing  
Delores Ann Anderson, Buffalo,  
Medical Technology\*  
Eva Mae Lowell Anderson, St. Paul,  
Public Health Nursing  
G. Eloise Anderson, St. Paul, Medical  
Technology, WITH DISTINCTION\*  
Ann Marie Backlund, Minneapolis,  
Public Health Nursing

Patricia DeVaney Barnes, Hibbing,  
Public Health Nursing, WITH DIS-  
TINCTION  
Ruby Grace Benjamin, Hutchinson,  
Occupational Therapy, WITH DIS-  
TINCTION  
Ragnhild B. Bjeldanes, R.N., Minne-  
apolis, Public Health Nursing  
Phyllis Mary Bock, LaCrosse, Wis.,  
Public Health Nursing  
Yvette Winifred Bornstein, Utica,  
N.Y., Public Health Nursing

\* These degrees are conferred subject to satisfactory completion of required practical work prior to December 18, 1952.

† These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 18, 1952.

- Jeanne Sturges Brandt, Minneapolis, Public Health Nursing, WITH DISTINCTION*
- Prudence Loretta Burns Burrell, Mounds, Ill., Public Health Nursing*
- Donald Stuart Campbell, Minneapolis, Physical Therapy*
- Donna Jean Carlson, Minneapolis, Occupational Therapy*
- Lois Hedvig Carlson, St. Paul, Medical Technology, WITH DISTINCTION\**
- Marilyn Lucille Carlson, Minneapolis, Occupational Therapy, WITH DISTINCTION*
- Joan Leslie Carter, Minneapolis, Public Health Nursing*
- Margaret Elizabeth Cavanaugh, LaGrande, Ore., Public Health Nursing*
- Marilyn Jeanne Clark, Duluth, Public Health Nursing*
- Cecelia Theresa Coveny, St. Paul, Public Health Nursing*
- Dean Robert Dahlgren, Hector, Physical Therapy*
- Judith M. Davidson, Bonesteel, S.D., Public Health Nursing, WITH DISTINCTION*
- Donna Moulton Dielentheis, Stillwater, Public Health Nursing*
- Marilyn Joan Dietl, Minneapolis, Occupational Therapy, WITH DISTINCTION*
- Phyllis Marie Dolden, A.A., Rochester, Medical Technology\**
- Donalda Irene Dombeck, Minneapolis, Public Health Nursing*
- Virginia Frances Dunn, St. Paul, Medical Technology\**
- Marilyn Ruth Fakler, Minneapolis, Occupational Therapy, WITH DISTINCTION*
- Patricia Ann Field, Minneapolis, Medical Technology, WITH DISTINCTION\**
- Glenn F. Gostick, Minneapolis, Physical Therapy*
- Mary Jeanne Grabner, Minneapolis, Physical Therapy*
- Dorothy Mae Graff, Duluth, Occupational Therapy*
- Nancy Jean Gregg, Minneapolis, Occupational Therapy*
- Dolores Maxine Guiles, Minneapolis, Occupational Therapy*
- Patricia Mary Hanauer, Albany, Medical Technology\**
- Alice Jean Hartman, Minneapolis, Medical Technology\**
- Joan Elaine Hayden, St. Paul, Medical Technology\**
- Lois Marie Heaney, Mankato, Medical Technology\**
- Marie Theresa Hill, Minneapolis, Public Health Nursing, WITH HIGH DISTINCTION*
- Ruth Elizabeth Hockstra, R.N., St. Anne, Ill., Public Health Nursing*
- Janet Elizabeth Hoskins, Sioux Falls, S.D., Occupational Therapy*
- Jacqueline Ann Irons, Minneapolis, Medical Technology\**
- Florence Marie Jackson, St. Paul, Public Health Nursing*
- Jeanne Marie Jensen, Minneapolis, Medical Technology, WITH DISTINCTION\**
- Donna Mae Johnson, Rochester, Occupational Therapy*
- William Kasinkus, Rockford, Ill., Physical Therapy, WITH DISTINCTION*
- Jane Kay King, Minneapolis, Occupational Therapy*
- Frank John Klein, B.A., White Bear Lake, Physical Therapy*
- Joan Kleinschmidt, Mankato, Physical Therapy*
- Robert Peter Koenig, B.A., St. Paul, Medicine*
- Joan Cannon Krause, Gladstone, Mich., Public Health Nursing*
- Wernette Betty Lindquist, St. Paul, Physical Therapy*

\* These degrees are conferred subject to satisfactory completion of required practical work prior to December 18, 1952.

- Carol Jane Lindstrom, Chisholm, Public Health Nursing, WITH HIGH DISTINCTION
- Patricia Marie Lynch, Cloquet
- Loretta Jane Mackey, A.S., Ely Medical Technology, WITH DISTINCTION\*
- Jean Miller Magney, Crookston, Occupational Therapy, WITH HIGH DISTINCTION
- Richard John McCauley, A.L.A., Minneapolis, Occupational Therapy
- Florence Hixson McConahey, B.A., Rochester, Occupational Therapy, WITH DISTINCTION
- Patricia Alice McQuillan, Mahtomedi, Physical Therapy, WITH DISTINCTION
- Helen Ardelle Mead, Minneapolis, Medical Technology\*
- Syrile Yetta Meyers, Minneapolis, Medical Technology\*
- Goldie Anne Mix, Duluth, Public Health Nursing
- Wilbur Lester Moen, B.A., Upham, N.D., Physical Therapy, WITH DISTINCTION
- Doris Jean Moore, Dallas, Tex., Public Health Nursing
- Martin Orlen Mundale, Northfield, Physical Therapy
- Doris Jeanne Nelson, Swea City, Iowa, Medical Technology\*
- Shirley Anne Nelson, Minneapolis, Medical Technology\*
- Ethelmae Nygard, Wenatchee, Wash., Occupational Therapy, WITH DISTINCTION\*
- Mary Jean O'Brien, Bayport, Public Health Nursing
- Charlotte Lee Page, St. Charles, Medical Technology\*
- Dolores Panning, Hamburg, Occupational Therapy, WITH DISTINCTION
- George Richard Pettersen, B.A., St. Paul, Medicine
- Kathleen Peyton, Minneapolis, Public Health Nursing
- Lillian Louise Pierce, A.S., Virginia, Medical Technology\*
- James Frederick Pohtilla, Hibbing, Physical Therapy
- Ladine Powell, Yakima, Wash., Physical Therapy
- Donna Margaret Price, Lambertton, Public Health Nursing
- Dorothy Ann Romer, Oaks, Okla., Public Health Nursing
- Ramona Hilia Rucker, Minneapolis, Medical Technology\*
- Clarice Angeline Rufsvold, Fort Ransom, N.D., Public Health Nursing
- Ethel Mae Rutherford, Burlington, Iowa, Medical Technology\*
- Janice Holmquist Sathra, St. Paul Park, Public Health Nursing
- Esther Irene Sehlin, Isle, Public Health Nursing
- Nancy Ann Sexton, Redwood Falls, Public Health Nursing
- Edith Marie Shumaker, Bovey, Medical Technology\*
- Stella Sobtzak, A.A., Coleraine, Medical Technology\*
- Lucy Schwartz Sontag, Sleepy Eye, Public Health Nursing, WITH DISTINCTION
- Gertrude Goodwin Stokes, Moose Lake, Medical Technology, WITH DISTINCTION
- Dee Alice Sundberg, Minneapolis Occupational Therapy
- Irene Marie Swankle, R.N., A.A., St. Paul, Public Health Nursing
- Geneva Matilda Theis, Vandalia, Ill., Public Health Nursing, WITH DISTINCTION
- Marie Louise Wales, Minneapolis, Occupational Therapy
- Marjorie Irene Warmie, Milwaukee, Wis., Public Health Nursing, WITH DISTINCTION
- Donna Lou Weeks, Rochester, Public Health Nursing, WITH DISTINCTION
- Geraldine G. Wessels, Raymond, Physical Therapy
- Douglas John Westrem, Minneapolis, Physical Therapy

\* These degrees are conferred subject to satisfactory completion of required practical work prior to December 18, 1952.

Shirley Johanna Wickland, A.A.,  
 Eveleth, Medical Technology\*  
 Leatrice Caroline Williams, Lehigh,  
 Iowa, Medical Technology\*  
 Beverly Mae Wood, R.N., Minne-  
 apolis, Public Health Nursing

Margaret Jean Wuollet, Minneapolis,  
 Physical Therapy  
 May Berniece Zimmerman, Bertha,  
 Public Health Nursing

## Bachelor of Medicine

Richard Robert Anderson, B.S., Hib-  
 bing  
 Roger Eugene Anderson, B.A., B.S.,  
 Minneapolis  
 George Linal Barnard, Jr., B.Met.E.,  
 B.S., Minneapolis  
 Richard Edward Barnes, B.S., B.A.,  
 Minneapolis  
 Herman Duane Bentz, B.A., B.S.,  
 Grand Rapids  
 John Lawrence Bonner, B.S., Virginia  
 John H. Bouma, B.A., B.S., Edgerton  
 Carl Otto Bretzke, B.A., B.S., Hutch-  
 inson  
 Roger Warren Brockway, B.A., B.S.,  
 Wayzata  
 Marshall Francis Brown, B.S., Vir-  
 ginia  
 Louis Arthur Buie, Jr., B.A., Roches-  
 ter  
 James Lee Canine, B.S., St. Paul  
 William Johnson Carr, B.A., B.S.,  
 Minneapolis  
 Frank Joe Carthey, B.A., B.S., Minne-  
 apolis  
 Sherman Bradford Child, B.A., B.S.,  
 Minneapolis  
 Paul Vernon Cummiskey, B.S., B.A.,  
 Mankato  
 Arthur Emerson Davis, Jr., B.S.,  
 St. Paul  
 Jerome Joseph DeCosse, Bozeman,  
 Mont.  
 James Henry DeGeest, B.A., B.S.,  
 Minneapolis  
 Richard Allison DeWall, B.A., B.S.,  
 Morris  
 Norman Jack Diamond, B.A., B.S.,  
 Minneapolis

Robert English Doan, B.A., B.S.,  
 Duluth  
 James Hetherington Dokken, B.A.,  
 B.S., Cokato  
 Gary Dudovitz, B.S., St. Paul  
 Robert Valentine Edwards, B.S.,  
 Minneapolis  
 Herman Harrison Eelkema, B.S.,  
 Duluth  
 Russell Jay Eilers, B.A., B.S., St. Paul  
 Robert Dell Erickson, B.S., Wykoff  
 Vernon Douglas Erickson, B.A., B.S.,  
 Minneapolis  
 Virgil Thomas Fallon, B.A., B.S.,  
 Darwin  
 Albert David Fetzek, B.A., B.S.,  
 Minneapolis  
 Paul Reagan Finley, B.S., St. Paul  
 Donald Peter Fox, B.A., B.S., Minne-  
 apolis  
 Elbert John Gamble, B.S., Albert Lea  
 Ada Sigrid Gilbertsen, B.S., St. Paul  
 Victor Adolph Gilbertsen, B.A., B.S.,  
 Winona  
 William Robb Glenney, Jr., B.A., B.S.,  
 Minneapolis  
 Marvin Eleazer Goldberg, B.A., B.S.,  
 Minneapolis  
 Roy Herbert Good, B.S., Minneapolis  
 Francis John Grimmell, B.A., B.S.,  
 Minneapolis  
 William Hunter Grohs, B.S., St. Paul  
 Paul Oscar Gustafson, B.A., B.S.,  
 Minneapolis  
 Jack Frederick Haas, B.A., B.S.,  
 St. Paul  
 Charles Lee Harris, B.A., B.S., Park  
 River, N.D.

\* These degrees are conferred subject to satisfactory completion of required practical work prior to December 18, 1952.



John Arnold Hartwig, B.A., Oconomowoc, Wis.  
 Samuel Bernard Haveson, B.A., B.S., Minneapolis  
 Paul Henry Hedenstrom, B.S., Cambridge  
 Duane Rodney Hedine, B.A., B.S., Alexandria  
 William Goddard Heegaard, B.S., Minneapolis  
 Dean Jacob Hempel, B.A., B.S., Minneapolis  
 Kenneth George Henry, B.A., B.S., Lewiston  
 John Alden Higgins, B.A., B.S., Rochester  
 Edward G. Huppler, B.A., B.S., Minneapolis  
 Edward Gerald Hustad, B.A., Starbuck  
 William Charles Jackson, B.S., St. Paul  
 Bruce William Jarvis, B.A., B.S., St. Paul  
 Carolyn Adair Johnson, B.A., B.S., St. Paul  
 David Arthur Johnson, B.S., Minneapolis  
 Marvin Waldemar Johnson, B.S., Stanchfield  
 Henry Wayne Johnston, B.S., Duluth  
 Donald A. Jones, B.A., B.S., Fort Snelling  
 Harold Baird Kadesky, B.A., B.S., St. Paul  
 Rudolf Werner Kallenbach, St. Paul  
 Donald William Klass, B.A., B.S., St. Paul  
 Robert Peter Koenig, B.A., St. Paul  
 Richard Conrad Kogl, B.A., B.S., St. Paul  
 Lyle Vernon Kragh, B.S., Hendricks  
 Gordon Eugene Lee, B.S., Worthington  
 Robert Joseph Leiferman, B.A., B.S., Rochester  
 Robert D. Letson, B.A., B.S., Minneapolis  
 Maurice L. Lindblom, B.A., B.S., Minneapolis  
 Mark Boyd Listerud, B.A., B.S., Wolf Point, Mont.  
 Arthur Gene Litman, B.A., B.S., Minneapolis  
 Jerome Gregory Lommel, B.A., B.S., St. Cloud  
 J. Anthony Malerich, Jr., B.A., Minneapolis  
 Ralph Henning Mallinger, B.A., B.S., Oslo  
 Kenneth K. Matsumoto, B.E.E., B.S., Minneapolis  
 Donald MacMillan Mayberg, B.A., Minneapolis  
 Gordon William McGregor, B.A., B.S., Minneapolis  
 Bryson Roy McHardy, B.A., B.S., Minneapolis  
 Clifford Douglas Molzahn, B.S., St. Paul  
 James Raymond Monnahan, B.S., St. Paul  
 Donald Robert Mueller, B.S., St. Croix Falls, Wis.  
 Roger Cawley Murray, B.A., B.S., St. Paul  
 Marvin Marshall Muske, B.S., Minneapolis  
 Floyd Forrest Myrick, B.S., D.D.S., Hamilton, Mont.  
 Raymond Arthur Narverud, B.A., B.S., Minneapolis  
 Robert Harry Nelson, B.A., B.S., Ortonville  
 Willhma Bowman Nelson, B.S., Mound  
 Richard Erling Payne, B.S., Leonard  
 Douglass Everal Perkins, B.A., B.S., Minneapolis  
 Isaac Michael Prlina, B.A., B.S., Hibbing  
 Sheldon Cooper Reed, B.A., B.S., Minneapolis  
 Donald Edson Roach, B.A., B.S., St. Paul  
 Robert Julius Rotenberg, B.A., B.S., Minneapolis  
 Paul Chadwick Royce, B.A., B.S., Brainerd

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Mildred Jane Schaffhausen, B.S.,  
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- Carl Johan Swendseen, B.S., Minne-  
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Donald Burton Swenson, B.A., B.S.,  
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Arthur Jacob Wyatt, Jr., B.A., B.S.,  
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## Master of Hospital Administration

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Vance Clyde DeMong, B.A., Minne-  
apolis  
Bright McLean Dornblaser, B.B.A.,  
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Oren Wheeler Govier, B.A., Vancou-  
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Charles Frederick Harrienger, B.S.,  
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James Douglas Harvey, B.A., Yank-  
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James Wisner Knight, B.A., Minne-  
apolis  
John William Norton, B.A., Hanover,  
N.H.  
Herluf Vagn Olsen, Jr., B.A., Han-  
over, N.H.
- Harold Winfield Peterson, B.S.,  
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Nick Rajacich, B.A., Eveleth  
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Kenneth A. Rindflesh, B.B.A., Minne-  
apolis  
Elmer Robert Salovich, B.B.A., Min-  
neapolis  
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Falls  
Martin Saren, New York, N.Y.  
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Eugene Leo Staples, B.A., St. Paul  
James Charles Talley, B.A., Colum-  
bus, Ind.  
Joel H. Walker, B.S., Binghamton,  
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couver, B.C., Canada  
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## Master of Public Health

- Aryadasa Amarasinghe, D.V.M.,  
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- Geraldine Amelia Busse, B.S., Oel-  
wein, Iowa

- Kung Pei Chen, M.D., Taipeh,  
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- Theofanis Christodoulou, Athens,  
Greece
- Luisa Pfau David, Santiago, Chile
- Sofia Pincheira de Shrenberg, B.N.,  
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- Mae Dodson Dorman, B.A.,  
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- Joanne Christine Dow, B.A., Duluth
- Adrienne James Ellison, B.S., Rey-  
nolds, Ga.
- Dacia Marie Kuske Fahler, B.S.,  
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- Luther Erick Fredrickson, D.V.M.,  
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- Rex Edgar Graber, B.S., M.D., Chip-  
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- Mary Kathryn Graupmann, B.S.,  
St. Paul
- John Francis Henry, Jr., B.S., D.V.M.,  
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- Leroy Sherman Houser, B.S., Colum-  
bus, Ohio
- Robert Ernest Hunt, B.S., Kearney,  
Neb.
- Gerard Charles Jospitre, B.C.E.,  
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- Helen Elizabeth Kater, B.S., Sullivan,  
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- William Kempa, B.S.A., Regina,  
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- Robert Leonard Kerns, D.V.M., Mil-  
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- John Mason, D.V.M., Worcester,  
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- John Hopper McCutchen, B.Ch.E.,  
Jefferson City, Mo.
- Samuel Osro Noles, B.S.A., Jackson-  
ville, Fla.
- Sybil Pitts, B.S., Boswell, Okla.
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- Susan Kathryn Shreve, B.S.N., Glens  
Falls, N.Y.
- Marlo Ernest Smith, B.C.E., Lincoln,  
Neb.
- Ruth Edna Stief, B.S., Winona
- Chom Tebyasuvan, M.D., M.P.H.,  
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- John Austin Van Susteren, M.D.,  
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- Marvin George Walters, B.A., Lin-  
coln, Neb.

### Doctor of Medicine\*

- Shirley Elaine Adler, B.S., M.B., Mar-  
shall
- Ernest Arthur Ager, B.S., M.B.,  
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- Kenneth Emil Ahola, B.A., B.S.,  
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- James Peter Akins, B.A., B.S., M.B.,  
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- John William Anderson, B.A., B.S.,  
M.B., Litchfield
- Roger Lewis Anderson, B.S., M.B.,  
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- Wallace Everett Anderson, B.S.,  
M.B., Minneapolis
- James S. Barr, B.S., M.B., Wells
- Robert Bedell Benjamin, B.A., M.B.,  
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- Kenneth George Berge, B.A., B.S.,  
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cum laude*, B.S., M.B., Kenyon
- Russell Stanfield Blanchard, B.A.  
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B.A. '44, Augsburg College. Field of Concentration: History.

Arthur Theodore Nelson, St. Louis Park

B.S. '40, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Edna Helen Nelson, Winona

B.A. *cum laude* '27, Hamline University. Major: History. Minor: Political Science. Thesis: Childhood Days in Territorial Winona.

Stanley Luverne Nelson, Minneapolis

B.S. '30, University of Minnesota. Field of Concentration: Curriculum and Instruction.

John Ford Ohles, Minneapolis

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

Gerald Elmer Ostrom, Winona

B.S. with honor '48, Winona State Teachers College. Field of Concentration: Curriculum and Instruction.

Ellery Olof Peterson, Isanti

B.S. *cum laude* '49, Gustavus Adolphus College. Field of Concentration: Business Administration.

Stanley Wheeler Rasmussen, Boulder, Colo.

B.A. *magna cum laude* '43, University of Colorado. Field of Concentration: Physics.

Mary Jo Reiter, St. Paul  
Ph.B. '47, University of North Dakota. Major: Physical Education. Minor: Educational Psychology. Thesis: The Health Knowledges of Women Physical Education Students at the University of Minnesota Based on a Selected Test.

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

Evelyn Lucille Rumer, St. Louis, Mo.  
B.A. '50, Washington University. Field of Concentration: Statistics.

Robert Joseph Savard, St. Paul  
B.A. *summa cum laude* '46, College of St. Thomas. Field of Concentration: Social Work.

Ona Maurita Scheidler, Cloquet  
B.S. '36, University of Minnesota. Field of Concentration: Curriculum and Instruction.

William John Schill, Hibbing  
B.S. '50, University of Minnesota. Field of Concentration: Industrial Education.

Roberta Gifford Selleck, Cambridge, Mass.  
B.A. *magna cum laude* '50, Oberlin College. Field of Concentration: Area Studies: Scandinavia.

Margaret Sihler, Decorah, Iowa  
B.A. '18, State University of Iowa. Field of Concentration: German.

Sister Mary Charles McGough,  
Duluth  
B.A. '50, College of St. Scholastica. Field of Concentration: Curriculum and Instruction.

Sister M. Lucretia Beth, Rochester  
B.A. '39, College of Saint Teresa. Field of Concentration: Curriculum and Instruction.

John William Snyder, Minneapolis  
B.A. *magna cum laude* '50, University of Minnesota. Field of Concentration: History.

Margaret Niven Space, Minneapolis  
B.S. '36, M.Ed. '49, University of Minnesota. Field of Concentration: Educational Psychology.

Marilyn Blacker Sussman, Minneapolis  
B.A. *magna cum laude* '49, University of Minnesota. Field of Concentration: Psychology.

Robert Ireton Tharp, Grand Marais  
B.A. '48, Augsburg College. Field of Concentration: Educational Administration.

Jeré Shanor Veilleux, Minneapolis  
B.S. '51, Northwestern University. Field of Concentration: Speech.

Arthur Lee Walters, Hibbing  
B.A. '48, B.S. '49, University of Minnesota. Field of Concentration: German.

Verne Everett Winquist, Deerwood  
B.A. '50, University of Minnesota. Field of Concentration: Geography.

## Master of Business Administration

Chong-Mo Chang, Shanghai, China  
B.S. '51, Miami University. Field of Concentration: Business Administration.

Charles Dennison McConnell, Minneapolis  
B.S. '51, Northwestern University. Field of Concentration: Economics.

## Master of Science

Oliver Matthew Arten, Minneapolis  
B.S. '51, University of Minnesota. Field of Concentration: Agronomy.

Patricia Joy Auble, Chisholm  
B.S. '48, Iowa State College. Field of Concentration: Home Economics Education.

Peter Hector Baez, Brooklyn, N.Y.  
B.A. '42, Drew University; B.S. '50, Cornell University. Field of Concentration: Soils.

Cesario Cayabyab Bandong, San Mateo, Rizal, Philippines  
B.A. '29, University of the Philippines; B.S. '46, M.A. '51, Arellano University. Field of Concentration: Agricultural Education.

- Lytle Houston Blankenship, Campbellton, Tex.  
B.S. '50, Texas Agricultural and Mechanical College. Major: Economic Zoology. Minor: Botany. Thesis: Use of Duckling Ages for Studies on Waterfowl Populations and Production on Prairie Stock Ponds in Western South Dakota.
- Leland Sheaff Bohl, Minneapolis  
B.S. '45, University of Kansas. Field of Concentration: Physics.
- Edward Mark Carr, St. Paul  
B.Ch. with high distinction '49, University of Minnesota. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Polymerization of Allyl Acetate in Aqueous Systems.
- Katherine Sheng-Wan Chiang, Shanghai, China  
B.S. '50, Florida Southern College. Field of Concentration: Mathematics.
- Weslie Combs, Bakersfield, Calif.  
B.S. '50, California State Polytechnic College. Field of Concentration: Dairy Husbandry.
- Herbert George Croom, Morris  
B.S. '42, University of Minnesota. Major: Animal Husbandry. Minor: Dairy Husbandry. Thesis: Methods of Preventing Death Loss in Lamb Feeding.
- Frederick William Dorman, San Diego, Calif.  
B.S. '32, University of California. Field of Concentration: Dairy Husbandry.
- Lewis John Downing, Winnipeg, Manitoba, Canada  
B.Sc. '37, University of Manitoba. Field of Concentration: Agricultural Economics.
- Ronald Chester Fraser, St. Paul  
B.S. '50, University of Minnesota. Field of Concentration: Zoology.
- Paul Russell Fridlund, Minneapolis  
B.A. '42, Augsburg College. Major: Plant Pathology. Minor: Entomology. Thesis: Physiologic Specialization and Adaptation in *Phytophthora infestans* (Mont.) de Bary.
- Celestino P. Habito, Cabuyao, Laguna, Philippines  
B.S. '44, University of the Philippines. Field of Concentration: Agricultural Education.
- Mary Kathryn Hartz, Merrill, Wis.  
B.S. '29, College of Saint Teresa. Major: Zoology. Minor: Botany. Thesis: A Study of the Inshore Plankton of Lake Michigan.
- George Preston Howard, Minneapolis  
B.M.E. '49, University of Minnesota. Field of Concentration: Geophysics.
- Edward Stewart Hughes, Bloomsbury, N.J.  
B.A. '50, College of Wooster. Field of Concentration: Geology.
- Sigmund James Jacobs, Silver Spring, Md.  
B.Ch.E. with distinction '33, University of Minnesota. Field of Concentration: Physical Chemistry.
- Robert Raymond Johnson, St. Paul  
B.M.E. '43, University of Minnesota. Field of Concentration: Mathematics and Mechanics.
- Simpey Kuramoto, St. Paul  
B.A. '50, University of Minnesota. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: Some Factors Affecting the Action of Benzoyl Peroxide in the Bleaching of Milk and Cream for Cheese Manufacture.
- Gilbert Arthur Leisman, Milwaukee, Wis.  
B.S. with honors '49, University of Wisconsin. Major: Botany. Minor: Soils. Thesis: The Rate of Organic Matter Accumulation on the Sedge Mat Zones of Bogs in the Itasca State Park Region of Minnesota.
- Hugh Gibson Livingston, Montrose, Angus, Scotland  
B.Sc. '50, University of Aberdeen (Scotland). Field of Concentration: Dairy Husbandry.
- Robert Douglas MacDougall, Missoula, Mont.  
B.A. '49, Montana State University. Field of Concentration: Geology.
- Wilbur Norton Moulton, Minneapolis  
B.S. *magna cum laude* '49, Sioux Falls College. Major: Organic Chemistry. Minor: Agricultural Biochemistry. Thesis: Studies in the Meerwein-Ponndorf-Verley Reduction.
- Marjorie Joyce Nelson, Cedar Falls, Iowa  
B.A. '47, Iowa State Teachers College. Major: Home Economics Education. Minor: Home Economics. Thesis: A Study of the Technical Vocabulary in Home Economics Texts and References at the Junior High School Level.
- Ralph Emil Nelson, Little Falls  
B.S. with distinction '49, University of Minnesota. Field of Concentration: Agricultural Economics.

Richard Robert Nelson, Austin  
B.A. '50, Augsburg College. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Factors Affecting Susceptibility of Potatoes to Bacterial Soft Rot.

Stephen Sparks Ober, St. Paul  
B.Ch. '48, University of Minnesota. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Determination of Sulfate as Strontium Sulfate.

Alfred Henry Oestreich, New York, N.Y.  
B.S. '51, City College of New York. Field of Concentration: Geology.

Kenneth Owen Rachie, Granite Falls  
B.S. '49, University of Minnesota. Field of Concentration: Agronomy.

Orrilla Belle Richardson, Rochester  
B.A. '39, University of Minnesota. Field of Concentration: Agricultural Economics.

Lee Daniel Sandager, Forest Lake  
B.S. '49, University of Minnesota. Field of Concentration: Agricultural Education.

Howard Henry Shear, St. Paul  
B.A. '49, University of Minnesota. Major: Bacteriology. Minor: Cancer Biology. Thesis: Accelerant Factors for Mouse Mammary Cancer.

David Leo Silver, Minneapolis  
B.A. '50, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Serological Interrelationships of Yeasts.

Dale Stallings, Lewisville, Idaho  
B.S. with high honors '50, University of Idaho. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of the Marketing and Merchandising of Consumer Packages of Dry Skim Milk in the Minneapolis Market.

Shin Tamura, Tokyo, Japan  
B.S. '41, Tokyo University. Field of Concentration: Agricultural Education.

Philip Seyfang Taylor, Minneapolis  
B.S. with distinction '48, University of Minnesota. Major: Entomology. Minor: Plant Pathology. Thesis: The Biology of the Black Onion Fly, *Tritoxa flexa* (Wied.), Ceroxydidae, Diptera, in Minnesota and Its Relation to Onion Rot.

Arthur Grenville Wilson, Oakville, Manitoba, Canada  
B.S. '49, University of Manitoba. Major: Agricultural Economics. Minor: Economics. Thesis: The Determination of By-Product Credits in the Marketing of Slaughter Hogs by Carcass Weight and Grade.

Kenneth Keith Wyckoff, Flint, Mich.  
B.S. '50, Michigan State College. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: The Reaction of Phenyl Allyl Ethers with Organometallic Compounds.

Margaret Rose Zalesky, St. Paul  
B.S. '37, University of Minnesota. Field of Concentration: Bacteriology.

## Master of Science in Aeronautical Engineering

Donald William Fenne, Beloit, Wis.  
B.Aero.E. with high distinction '49, University of Minnesota. Field of Concentration: Aeronautical Engineering.

## Master of Science in Agricultural Engineering

Robert Valentine Keppel, Mindoro, Wis.  
B.Ag.E. with distinction '48, University of Minnesota. Field of Concentration: Agricultural Engineering.

## Master of Science in Anesthesiology

Robert Carl Hunter, Frostburg, Md.  
B.S. '43, M.D. '47, University of Maryland.  
Major: Anesthesiology. Minor: Physiology.  
Thesis: A Study of Alveolar Ventilation and  
Acid-Base Balance in Patients Under Cyclo-  
propane Anesthesia During Surgery.

Donald Kenneth Kiersey, Dublin,  
Ireland  
B.A. '42, M.D. '43, Trinity College. Major:  
Anesthesiology. Minor: Physiology. Thesis: A  
Clinical Study of Automatic Electroencephalo-  
graphic Control of Thiopentone Anesthesia.

## Master of Science in Chemical Engineering

Robert Lee Shobert, Du Bois, Pa.  
B.S. with honors '50, Pennsylvania State Col-  
lege. Major: Chemical Engineering. Minor:  
Mathematics. Thesis: Temperature and Dif-  
fusional Effects in Adsorption.

## Master of Science in Civil Engineering

Brij Bans Behari, Allahabad, India  
B.Sc. '47, University of Allahabad. Major:  
Civil Engineering (Hydraulics). Minor: Civil  
Engineering (Structural Engineering). Thesis:  
An Experimental Study of a Cylindrical, Ver-  
tical-Flow Sedimentation Tank.

Kao-Ling Chen, Kiangsu, China  
B.S. '44, National Northwestern College of  
Agriculture (China). Major: Civil Engineer-  
ing. Minor: Mathematics and Mechanics.  
Thesis: Investigation of True Critical Depth  
for Curvilinear Flow.

Jacques Elias Benveniste, Athens,  
Greece  
Diploma in C.E. '51, Athens National Techni-  
cal University. Field of Concentration: Civil  
Engineering.

Alfredo Gedeon, Ghisays, Cartagena,  
Colombia, S.A.  
B.S. '50, North Dakota Agricultural College.  
Field of Concentration: Civil Engineering.

Clarence Willard Carpenter, Jr.,  
Sewell, N.J.  
B.S.'49, Oregon State College. Major: Civil  
Engineering (Hydraulics). Minor: Civil En-  
gineering (Sanitary Engineering). Thesis:  
Fluid Flow Through Porous Media Composed  
of Regular-shaped Particles.

Edward Alfred Koenig, Ridgewood,  
N.Y.  
B.S.C.E. '50, Indiana Technical College.  
Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

Arturo Herbert Koenig, Lima, Peru  
B.S. '49, D.D.S. '49, University of San Mar-  
cos. Major: Dentistry. Minor: Anatomy.  
Thesis: Serial Radiographic Study of the Head  
in Norma Lateralis During Childhood.

## Master of Science in Electrical Engineering

Luis Augusto Goes Calmon Barros  
Barreto, São Paulo, Brazil, S. A.  
Elect. and Mech. Eng. '49, University of São  
Paulo. Field of Concentration: Electrical En-  
gineering.

Stanley Raymond Brown, Minne-  
apolis  
B.E.E. with distinction '44, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: An Investiga-  
tion of the Production of an Unusual Cor-  
ona Phenomenon.

**Martin Wilbert Croze, Minneapolis**  
B.E.E. with distinction '47, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Influence of Cathode Lead Inductance on Noise Figure.

**John Truman Ludwig, Minneapolis**  
B.E.E. with distinction '48, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Multiple Operation of Reflex Klystrons in an Annular Cavity.

**Edward George Nielsen, St. Paul**  
B.E.E. with high distinction '50, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics and Mechanics. Thesis: Performance of Voltage Amplifier Pentodes at Unusually Low Currents and Voltages.

**James Russell Stahmann, St. Paul**  
B.E.E. with high distinction '44, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: On the Correlation Between Induced Grid Noise and Tube Noise.

**Robert Jean Youngquist, St. Paul**  
B.E.E. '48, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Problem of "Wow" in a Magnetic Tape Drive.

## Master of Science in Medicine

**Lloyd Gibson Bartholomew, Whitehall, N.Y.**

B.A. '41, Union College; M.D. '44, University of Vermont. Major: Medicine. Minor: Hematology. Thesis: The Effect of Protamine Sulfate in Neutralizing the Coagulation Defect Produced by a Polysulfuric Acid Ester of Polyanhydromannuronic Acid (Paritol).

**Thomas Claude Donald, Jr., Anniston, Ala.**

B.A. '42, University of Alabama; M.D. '45, Tulane Medical School. Major: Medicine. Minor: Hematology. Thesis: A Study of the Possible Therapeutic Effect of (1) Cortisone, (2) ACTH, (3) Thymus Extract and Combinations of These Drugs on Induced Lymphatic Leukemia in Rats.

**Ray Wallace Gifford, Jr., Rochester**  
B.S. magna cum laude '44, Otterbein College; M.D. summa cum laude '47, Ohio State University. Major: Medicine. Minor: Physiology. Thesis: A Study of the Movement of Cutaneous Interstitial Fluid in Humans Using a Fluorescent Tracer Substance.

**Carl Raymond Hines, Jr., Wichita, Kan.**

B.S. '46, M.D. '47, Northwestern University. Major: Medicine. Minor: Physiology. Thesis: A Study of Patients with Suspected Acute Renal Failure. An Evaluation of the Diagnostic and Prognostic Significance of Several Laboratory Criteria.

**William Joseph Martin, Rochester**

B.S. '40, Mt. St. Mary's College; M.D. '43, Georgetown University. Major: Medicine. Minor: Hematology. Thesis: Erythroleukemia: A Morphologic Study of Five Cases.

**James Ian McNeill, Rochester**

M.D.C.M. '44, Queens University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: The Pathologic Anatomy and Histopathology of the Adrenal Glands in Addison's Disease.

**Frederick Ellis Zimmer, Emporium, Pa.**

B.S. '42, Allegheny College; M.D. '45, University of Pennsylvania. Major: Medicine. Minor: Hematology. Thesis: The L. E. Cell and the Tart Cell Phenomena in Peripheral Blood.

## Master of Science in Neurosurgery

**Jackson Leonard Bostwick, Rochester**  
M.D. '39, Tulane University. Major: Neurosurgery. Minor: Neuropathology. Thesis: The Effect of X-ray and Radium Therapy on Meningiomas.

## Master of Science in Orthopedic Surgery

Ivan MacDonald Spear, Yarmouth,  
Maine

B.A. '42, Bowdoin College; M.D.C.M. '45,  
McGill University. Major: Orthopedic Sur-  
gery. Minor: Surgical Pathology. Thesis: Tro-  
chanteric Bursitis: Non-infectious Trochanteric  
Bursitis; Peritendinitis Calcarea; Tuberculous  
Trochanteric Bursitis.

## Master of Science in Pediatrics

John Lane Baskin, Cameron, Tex.  
B.A. '41, M.D. '44, University of Texas.  
Major: Pediatrics. Minor: Physiology. Thesis:  
Application of Cumulative Chloride Balance  
Technic in Pediatrics Patients.

David Bellar Post, Schenectady, N.Y.  
B.S. '45, M.D. '48, University of Michigan.  
Major: Pediatrics. Minor: Physiology. Thesis:  
The Significance of Urinary Chloride Excre-  
tion and Chloride Balance as a Guide to Salt  
Replacement in Infants and Children.

## Master of Science in Proctology

John David Rosin, Hyattsville, Md.  
B.A. '38, Johns Hopkins University. M.D. '42,  
University of Maryland. Major: Proctology.  
Minor: Surgical Pathology. Thesis: An In-vivo  
Study of the Distribution of the Lymphatics  
of the Anus and Rectum.

## Master of Science in Radiology

Richard Arthur Betts, Seattle, Wash.  
B.S. '39, University of Washington; M.D. '43,  
Harvard University. Major: Radiology. Minor:  
Pathology. Thesis: The Roentgen Diagnosis  
of Multiple Primary Intrapinal Tumors.

Malcolm Young Colby, Jr., Rochester  
B.A. '37, M.D. '43, University of Texas.  
Major: Radiology. Minor: Surgical Pathology.  
Thesis: The Effect of X-irradiation upon the  
Iodine Accumulating Function of the Nor-  
mal Human Thyroid Gland.

## Master of Science in Surgery

James John Berens, Cincinnati, Ohio  
B.S. '42, Xavier University; M.D. '45, Uni-  
versity of Cincinnati. Major: Surgery. Minor:  
Surgical Pathology. Thesis: Subphrenic Ab-  
scess.

Robert Reese Koefoot, Broken Bow,  
Neb.

B.A. '45, M.D. '47, University of Nebraska.  
Major: Surgery. Minor: Pathology. Thesis: A  
Critical Analysis of 459 Cases of Cancer of  
the Breast.

Stanley Robert Maxeiner, Jr., Minne-  
apolis

B.S. '45, M.D. '47, University of Minnesota.  
Major: Surgery. Minor: Surgical Pathology.  
Thesis: An Evaluation of Muscle Biopsy in  
the Diagnosis of Periarthritis Nodosa.

Eric Francis Routley, Toronto,  
Ontario, Canada

M.D. '43, University of Toronto. Major: Sur-  
gery. Minor: Surgical Pathology. Thesis: Stud-  
ies on External Pancreatic Secretion in Dogs  
with Chronic Pancreatic Fistulae, with Em-  
phasis on the Effects of Vagotomy.

Joseph Didjon Wilson, Carmel-by-  
the-Sea, Calif.

B.M.S. '41, M.D. '43, Stanford University.  
Major: Surgery. Minor: Surgical Pathology.  
Thesis: Incisional and Excisional Biopsy in  
Mammary Carcinoma.

## Master of Science in Urology

Vincent Joseph Longo, Leominster,  
Mass.

B.A. '43, Clark University; M.D. '46, Yale  
University. Major: Urology. Minor: Surgical  
Pathology. Thesis: Primary Neoplasms of the  
Epididymis.

## Master of Social Work

Elaine Audrey Aronson, Little Falls  
B.A. '50, University of Minnesota. Field of  
Concentration: Social Work.

Harriet Balzer, Mountain Lake  
B.A. '50, Grinnell College. Field of Con-  
centration: Social Work.

Richard William Bartsch, St. Paul  
B.A. '49, University of Minnesota. Field of  
Concentration: Social Work.

Edith Jackson Beatty, Indianapolis,  
Ind.  
B.A. '27, Indiana University. Field of Con-  
centration: Social Work.

Virgil Adlore Burns, Minneapolis  
B.A. '50, College of St. Thomas. Field of  
Concentration: Social Work.

Ruth Hunter Cotay, St. Paul  
B.S. '48, Lincoln University. Field of Con-  
centration: Social Work.

Theodore C. Dettweiler, Minneapolis  
B.A. '41, Antioch College. Field of Concen-  
tration: Social Work.

Nola Dale Hansen, Oakland, Calif.  
B.A. '47, University of California. Field of  
Concentration: Social Work.

John Michael Hayes, Minneapolis  
B.S. in Law '48, University of Minnesota.  
Field of Concentration: Social Work.

Judith Holaday Henderson, Minne-  
apolis  
B.A. '49, Oberlin College. Field of Concen-  
tration: Social Work.

Clarice Elizabeth Hoekstra, Twin  
Valley  
B.A. cum laude '50, University of Minnesota.  
Field of Concentration: Social Work.

Gerald Clifford Hoye, Virginia  
B.A. cum laude '50, University of Minnesota.  
Field of Concentration: Social Work.

Elizabeth Vincent Hunt, St. Paul  
B.A. '33, Macalester College. Field of Con-  
centration: Social Work.

Dagny Johnson, Minneapolis  
B.E. '38, Superior State Teachers College.  
Field of Concentration: Social Work.

Abraham Kastenbaum, Minneapolis  
B.S. '33, M.A. '36, New York University.  
Field of Concentration: Social Work.

Irving Kermish, Long Island City,  
N.Y.  
B.A. '49, Queens College. Field of Concen-  
tration: Social Work.

Eleanor Kinunen, Virginia  
B.S. '42, Duluth State Teachers College.  
Field of Concentration: Social Work.

Edward Louis Korenchen, Aurora  
B.A. '48, University of Minnesota. Field of  
Concentration: Social Work.

Jeanette Myrtle Larson, Minneapolis  
B.A. magna cum laude '49, University of  
Minnesota. Field of Concentration: Social  
Work.

Herman Sherman Markowitz, Minne-  
apolis  
B.A. '50, University of Minnesota. Field of  
Concentration: Social Work.

Inez Christine Mattson, St. Paul  
B.A. '34, University of Minnesota. Field of  
Concentration: Social Work.

Jack Leonard McCann, Hastings  
B.A. '49, Macalester College. Field of Con-  
centration: Social Work.

Mary Ellen Mogren, St. Paul  
B.A. '47, Hamline University. Field of Con-  
centration: Social Work.

Philip C. Norris, Minneapolis  
B.A. '50, University of Minnesota. Field of  
Concentration: Social Work.



Marjorie Beatrice Rady, Winnipeg,  
Manitoba, Canada  
B.A. '50, University of Manitoba. Field of  
Concentration: Social Work.

Wiljo A. Sarkela, Negaunee, Mich.  
B.A. '49, Northern Michigan College of Edu-  
cation. Field of Concentration: Social Work.

Rene Meyers Schwartz, Minneapolis  
B.A. '48, University of Minnesota. Field of  
Concentration: Social Work.

Rollie Helen Segal, Minneapolis  
B.A. *magna cum laude* '50, University of  
Minnesota. Field of Concentration: Social  
Work.

Lydia Charlotte Selmanoff, Minne-  
apolis  
B.A. '50, University of Minnesota. Field of  
Concentration: Social Work.

Marietta B. Spencer, St. Paul  
B.A. '48, Reed College. Field of **Concen-**  
tration: Social Work.

Margaret Ann Stoll, New Auburn,  
Wis.  
B.S. '50, Eau Claire State Teachers College.  
Field of Concentration: Social Work.

Calvin Yukio Takagi, Minneapolis  
B.A. *cum laude* '50, University of Minnesota.  
Field of Concentration: Social Work.

Max Wald, Minneapolis  
Graduate '25, The Real Gymnasium (Poland).  
Field of Concentration: Social Work.

Glyndon James Webb, Glyndon  
B.A. '48, University of Minnesota. Field of  
Concentration: Social Work.

## Doctor of Philosophy

Robert James Ames, Minneapolis  
B.A. '37, Park College; M.S. '41, Kansas  
State Teachers College. Major: English. Minor:  
Philosophy. Thesis: Walter Bagehot: A Study  
in Religious Compromise. Major Adviser:  
Prof. W. V. O'Connor.

Ralph Leo Anderson, Wayzata  
B.S. '47, M.S. '49, University of Minnesota.  
Major: Plant Pathology. Minor: Forestry.  
Thesis: Factors Influencing the Incidence of  
Hypoxylon Canker of Aspen. Major Adviser:  
Prof. C. M. Christensen.

Robert Emmett Atkinson, St. Paul  
B.S. '34, University of Minnesota; M.S. '38,  
Louisiana State University. Major: Plant Pa-  
thology. Minor: Botany. Thesis: Studies on  
Viruses of Cereal Grains. Major Adviser: Prof.  
E. C. Stakman.

Clarence Lyle Barber, Fort Garry,  
Manitoba, Canada  
B.A. with great distinction '39, University of  
Saskatchewan; M.A. '41, Clark University.  
Major: Economics. Minor: Mathematics.  
Thesis: Inventories and the Business Cycle  
with Special Reference to Canada. Major Ad-  
viser: Prof. A. R. Uppgren.

Herbert Wayne Bitting, Chevy  
Chase, Md.  
B.S. '33, University of Illinois; M.S. '37, Iowa  
State College. Major: Agricultural Economics.  
Minor: Economics. Thesis: Problems in Meas-  
uring and Analyzing Marketing Margins for  
Selected Fruits and Vegetables. Major Ad-  
viser: Prof. R. W. Cox.

James Cooke Brown, Minneapolis  
B.A. *cum laude* '46, University of Minnesota.  
Major: Sociology. Minors: Philosophy and  
Statistics. Thesis: Cooperative Group Forma-  
tion: A Problem in Social Engineering. Major  
Adviser: Prof. F. S. Chapin.

Joel Malcolm Cantor, St. Paul  
B.A. '46, Brooklyn College; M.A. '48, Uni-  
versity of Minnesota. Major: Psychology.  
Minor: Neuropsychiatry. Thesis: Syndromes  
Found in a Psychiatric Population Selected  
for Certain MMPI Code Endings. Major Ad-  
viser: Prof. P. E. Meehl.

Woo-Foung Chow, Shanghai, China  
B.S. in E.E. '45, La Universitato Utopia;  
M.S. in E.E. '49, University of Minnesota.  
Major: Electrical Engineering. Minor: Mathe-  
matics. Thesis: Noise Study on Electrical  
Power Systems with Special Reference to  
Superimposed Signalling. Major Adviser: Prof.  
H. E. Hartig.

J. Ritchie Cowan, Corvallis, Ore.

B.S.A. '39, Ontario Agricultural College; M.S. '42, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Some Plant Breeding Studies with Tall Fescue (*Festuca arundinacea* Schreb.). Major Adviser: Prof. H. L. Thomas.

Harland Dumond Embree, Pasadena, Calif.

B.S. with honors '48, University of California. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Condensations of 3-Acetylcoumarin with Ketones and Amine Salts. Major Adviser: Prof. C. F. Koelsch.

Robert Younger Fluno, Alliance, Ohio

B.A. '38, Rollins College. Major: Political Science. Minor: Economics. Thesis: Parliamentary Control of the British Nationalized Industries. Major Adviser: Prof. L. M. Short.

Ellen Bek Freeman, Grand Forks, N.D.

B.A. with honors '38, University of North Dakota; M.A. '40, Columbia University. Major: Home Economics. Minor: Agricultural Biochemistry. Thesis: Effect of Cooking Temperatures on the Quality and *in Vitro* Digestibility of Beef Stews and Pot Roasts. Major Adviser: Prof. Isabel Noble.

Ray Allan Goldberg, Fargo, N.D.

B.A. *cum laude* '48, Harvard University; M.B.A. '50, Harvard Graduate School of Business Administration. Major: Agricultural Economics. Minor: Economics. Thesis: The Competitive Position of the Minnesota Soybean Producer and Processor. Major Adviser: Prof. R. W. Cox.

Richard Emerson Halsted, Minneapolis

B.A. with high distinction '47, DePauw University; M.S. '50, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Isotopic Masses of Palladium, Cadmium, Indium, Tin, Tellurium, Iodine, and Xenon. Major Adviser: Prof. A. O. C. Nier.

James Stafford Holdhusen, Minneapolis

B.C.E. with high distinction '45, M.S. in C.E. '47, University of Minnesota. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: The Turbulent Boundary Layer in the Inlet Region of Smooth Pipes. Major Adviser: Prof. L. G. Straub.

John Lewis Holland, Omaha, Neb.

B.A. '42, University of Omaha; M.A. '47, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Study of Measured Personality Variables and Their Behavioral Correlates as Seen in Oil Paintings. Major Adviser: Prof. J. G. Darley.

Ismail Ali Ibrahim, Minia, Egypt

B.Sc. '43, University of Cairo; M.S. '49, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Studies on the Effect of Some Environmental Conditions and Chemicals on the Development of *Puccinia graminis avenae* Erikss. and Henn. Major Adviser: Prof. E. C. Stakman.

William Lorne Jenkins, Minneapolis

B.A. '46, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: The Minnesota Multiphasic Personality Inventory Applied to the Problem of Prognosis in Schizophrenia. Major Advisers: Profs. P. E. Meehl and William Schofield.

Max M. Kampelman, Minneapolis

B.A. '40, LL.B. '45, New York University; M.A. '46, University of Minnesota. Major: Political Science. Minor: Law. Thesis: The Communists and the C.I.O.: A Study in Political Power. Major Adviser: Prof. M. Q. Sibley.

William Lawrence Kohlhasse, St. Paul

B.S. *magna cum laude* '47, Hamline University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Cycloparaffins VIII—The Preparation of Two 1-Acyl-2-Nitro-2,3,3-Trimethylcyclopropanes and Their Reaction with Alkalis. Major Adviser: Prof. L. I. Smith.

Bjarne Emil Landa, Minneapolis

B.A. '28, M.A. '30, University of Southern California. Major: German. Minor: Scandinavian. Thesis: The American Scene in Friedrich Gerstächer's Works of Fiction. Major Adviser: Prof. F. H. Wood.

Theodore Rudolph Lindbom, Buhl

B.S. with distinction '48, M.A. '49, University of Minnesota. Major: Psychology. Minors: Statistics and Business Administration. Thesis: Supervisory Training and Employee Attitudes. Major Adviser: Prof. D. G. Paterson.

Paul Hallam Lober, Minneapolis

B.S. '42, M.D. '44, University of Minnesota. Major: Pathology. Minors: Bacteriology and Anatomy. Thesis: A Study of the Pathogenesis of Coronary Sclerosis—An Analysis of Its Development with Relation to Age, Sex, and Other Factors. Major Adviser: Dr. J. R. Dawson, Jr.

- Herbert Bernard Malos, Minneapolis  
B.A. magna cum laude '47, Lafayette College.  
Major: Psychology. Minor: Neuropsychiatry.  
Thesis: Some Psychometric Evaluations of  
Epilepsy. Major Adviser: Prof. P. E. Meehl.
- Milton Lloyd Manuel, Manhattan,  
Kan.  
B.S. '41, M.S. '48, Kansas State College.  
Major: Agricultural Economics. Minor: Eco-  
nomics. Thesis: The Historical Development  
and Evaluation of the Farm Management Ser-  
vice Associations in the United States. Major  
Adviser: Prof. G. A. Pond.
- Jerome John Marchetti, St. Louis,  
Mo.  
B.A. cum laude '40, M.A. '44, St. Louis Uni-  
versity. Major: Educational Administration.  
Minor: Educational Psychology. Thesis: Con-  
ditions of Faculty Service in Mid-west Jesuit  
Colleges and Universities. Major Adviser:  
Prof. M. G. Neale.
- Robert Valentine Mattern, Minne-  
apolis  
B.Ch.E. with distinction '44, University of  
Minnesota. Major: Chemical Engineering.  
Minor: Mathematics. Thesis: Continuous  
Flow Stirred Tank Reactors: Solid-Liquid Sys-  
tems. Major Adviser: Prof. E. L. Piret.
- Charles Williams Miller, Fond du  
Lac, Wis.  
B.S. '48, Marquette University; M.A. '50, Uni-  
versity of Minnesota. Major: Business Admin-  
istration. Minor: History. Thesis: Post-War  
Price Determination in the Wisconsin Canning  
Industry—Theory and Practice. Major Ad-  
viser: Prof. R. S. Vaile.
- Lewellyn Stanley Mix, Heuvelton,  
N.Y.  
B.S. '46, Cornell University. Major: Dairy  
Husbandry. Minors: Physiology and Physio-  
logical Chemistry. Thesis: A Survey of the  
Utilization of C<sup>14</sup> Carboxyl Labeled Acetate  
by the Perfused Bovine Mammary Gland.  
Major Adviser: Prof. W. E. Petersen.
- Howard Halfdan Olson, North Lake,  
Wis.  
B.S. '48, University of Wisconsin; M.S. '50,  
University of Minnesota. Major: Dairy Hus-  
bandry. Minor: Physiology. Thesis: Uniformity  
Trials and Effects of Varying Planes of Nu-  
trition on Performance of Monozygotic Bulls.  
Major Adviser: Prof. W. E. Petersen.
- Bjorn Peterson, Winnipeg, Manitoba,  
Canada  
B.S. '28, University of Manitoba; M.S. '29,  
University of Minnesota. Major: Plant Pa-  
thology. Minor: Botany. Thesis: Studies on  
Specialization and Pathogenicity in *Puccinia  
coronata* Corda. Major Adviser: Prof. C. J.  
Eide.
- William Ewert Rempel, Rosemount  
B.S. '44, M.Sc. '46, University of Manitoba.  
Major: Animal Husbandry. Minor: Plant  
Genetics. Thesis: A Study of Selection for  
Factors of Performance in Inbred Lines of  
Poland China Swine. Major Adviser: Prof.  
L. M. Winters.
- Paul Noel Richardson, Minneapolis  
B.Chem. with high distinction '49, Univer-  
sity of Minnesota. Major: Organic Chemistry.  
Minors: Physiological Chemistry and Pharma-  
cology. Thesis: The Deamination of the Ali-  
phatic Amines. Major Adviser: Prof. R. T.  
Arnold.
- Wilbert Ambrick Russell, Morden,  
Manitoba, Canada  
B.S. '42, University of Manitoba; M.S. '47,  
University of Minnesota. Major: Plant Ge-  
netics. Minor: Plant Pathology. Thesis: A  
Study of the Inter-relationships of Seed Yield,  
Oil Content and Other Agronomic Characters  
with Sunflower Inbred Lines and Their Top  
Crosses. Major Adviser: Prof. H. L. Thomas.
- Kenneth Edward Schnelle, Mankato  
B.A. '37, M.A. '41, Yale University; M.A. '50,  
University of Minnesota. Major: Economics.  
Minor: Psychology. Thesis: Manpower Re-  
sources in a Tight Labor Market. Major Ad-  
viser: Prof. Dale Yoder.
- Tapu Nath Shukla, Dhuswa (Basti),  
India  
B.S. '47, Agra University; M.S. '49, Kanpur  
State College of Agriculture. Major: Plant  
Pathology. Minor: Plant Genetics. Thesis:  
Variability in Resistance of Certain Wheat  
Varieties to *Puccinia graminis tritici* Race 15.  
Major Advisers: Profs. E. C. Stakman and  
Helen Hart.
- William Robert Stratton, River Falls,  
Wis.  
B.A. cum laude '47, M.S. '49, University of  
Minnesota. Major: Physics. Minor: Mathe-  
matics. Thesis: The Experimental Determina-  
tion of Cross Section per Unit Solid Angle  
for the Elastic Scattering of Deuterons by  
Tritons and the Elastic Scattering of Protons  
by Deuterons as a Function of Scattering  
Angle and Incident Deuteron Energy. Major  
Advisers: Profs. J. H. Williams and G. D.  
Freier.
- Norman Dale Sundberg, St. Paul  
B.A. with distinction '47, University of Neb-  
raska; M.A. '49, University of Minnesota.  
Major: Psychology. Minor: Neuropsychiatry.  
Thesis: The Relationship of Psychotherapeu-  
tic Skill and Experience to Knowledge of  
Other People. Major Adviser: Prof. William  
Schofield.

**John Patrick Towey, Rochester**  
 B.A. '36, University of Minnesota. Major: Physiological Chemistry. Minor: Physical Chemistry. Thesis: Influence of Some Nutritional Factors on the Ash Content, Breaking Stress, and Elasticity of Rat Bones. Major Adviser: Dr. W. D. Armstrong.

**Chang-Kaing Tsai, Nanking, China**  
 B.S. '41, National Central University; M.S. in M.E. '48, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics and Mechanics. Thesis: Investigation of the Effects of the Engine Mechanisms on the Torsional Vibrations of Crankshafts. Major Adviser: Prof. J. J. Ryan.

**Albert Eli Uecker, Cambridge**  
 B.A. '41, Minot State Teachers College; M.A. '46, Columbia University Teachers College. Major: Psychology. Minor: Psychiatry. Thesis: A Comparative Study of the Vocational Interests, Aspirations, and Achievements of Selected Groups of Veteran Psychiatric Patients. Major Adviser: Prof. William Schofield.

**Bansi Lal Wattal, Kashmir, India**  
 B.Sc. '44, Panjab University (India); M.Sc. '46, University of Lucknow (India). Major: Entomology. Minor: Plant Pathology. Thesis: The Influence of Different Numbers of Insects on Mortality Produced by Insecticides, as Shown with *Tribolium* Spp., and *Aedes aegypti* L. Major Adviser: Prof. L. K. Cutkomp.

## Doctor of Philosophy in Medicine

**Joseph Edward Rall, Bronxville, N.Y.**  
 B.A. '40, North Central College; M.S. '44, M.D. '45, Northwestern University. Major: Medicine. Minor: Physiology. Thesis: Iodine in the Blood and Urine of Man. Major Adviser: Dr. R. G. Sprague.

## Doctor of Philosophy in Physiology

**Peter B. Dews, Rochester**  
 M.D. '44, University of Leeds. Major: Physiology. Minor: Pharmacology. Thesis: Studies on the Effect of Adrenalectomy and of Cortisone on Anaphylaxis and Related Phenomena. Major Adviser: Dr. C. F. Code.

## Doctor of Philosophy in Surgery

**Robert Thurlow Hood, Jr., Rochester**  
 B.A. '40, M.A. '42, Amherst College; M.D. '44, University of Pittsburgh. Major: Surgery. Minor: Pathology. Thesis: Studies on the Gastric Secretory Depressant in Canine Gastric Juice. Major Adviser: Dr. C. F. Code.

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### SUMMARY OF DEGREES CONFERRED BY THE UNIVERSITY DURING THE ACADEMIC YEAR 1951-52

Degrees conferred July, August, and December, 1951; March, 1952.....	2,391*
Degrees conferred this June commencement, 1952 (subject to completion of requirements) .....	2,982†
<b>Total degrees conferred during 1951-52 .....</b>	<b>5,502</b>

\* Includes 129 conferred at Duluth.

† Includes 182 conferred at Duluth.

# CAPS AND GOWNS

## AN EXPLANATION

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

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

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

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

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

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

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

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

(In the order of 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, Home Economics, and Veterinary Medicine.....	maize
College of Education.....	light blue
School of Business Administration.....	drab
College of Pharmacy.....	olive
Law School.....	purple
School of Dentistry.....	lilac
College of Medical Sciences.....	green
Graduate School.....	black



THE  
UNIVERSITY OF MINNESOTA

Announces Its

*July Commencement*

*1952*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, JULY 24

AT EIGHT O'CLOCK



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable J. S. Jones, St. Paul

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

The Honorable Sheldon V. Wood, Minneapolis

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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 first birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 110,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

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

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

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

The people of Minnesota are proud of their University, not only because it is one of the greatest 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 new Variety Club Heart Hospital to be dedicated and for the great Mayo Memorial building to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart diseases.

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



## *Order of Events*

**THE ASSEMBLING OF THE AUDIENCE:** As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University of Minnesota from 7:00 to 7:30 p.m., they will hear the Flemish bells being played from Northrop Memorial Auditorium, J. Frederic Goossen, M.A. '50, carillonneur. Admission to the July commencement exercises in the Auditorium is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

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

Trumpet Tune - - - - -	Purcell
Adagio - - - - -	Vivaldi
Concerto No. 5 in F Major - - - - -	Handel
Larghetto	
Allegro	
Alla siciliano	
Presto	
Scherzo, from Symphony No. 4 - - - - -	Widor
Fugue à la Gigue - - - - -	Bach

**PROCESSIONAL:** Psalm 19 - - - - - Marcello

**PROCESSIONAL:** As candidates for degrees enter the Auditorium at 8:00 p.m. the curtain will be drawn. Seated on the platform, left to right, are: Dr. Edwin S. Cieslak, Associate Professor of Biological Science, Marshal; Dr. Donald Swanson, Assistant Professor of Classics and Linguistics, Marshal; Dr. John G. Darley, Assistant Dean of the Graduate School; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. Clyde H. Bailey, Dean of the Department of Agriculture; Dr. Roger B. Page, Assistant Dean of the College of Science, Literature, and the Arts; Commander Walter J. McGuire, USN, Associate Professor of Naval Science; The Honorable Lester A. Malkerson, Member, Board of Regents; Mr. True E. Pettengill, Recorder; Mr. Thomas A. H. Teeter, Dean of the Summer Session; Dr. James Lewis Morrill, President of the University of Minnesota; The Honorable Stuart Sinclair Garson, K.C., M.P., Minister of Justice and Attorney General of Canada; The Honorable George W. Lawson, Second Vice President, Board of Regents; The Reverend William Larsen, Director, Lutheran Student Association; Lt. Col. Helmer T. Aasheim, USAF, Assistant Professor of Air Science and Tactics; Dr. Alfred L. Vaughan, Assistant Dean of the General College; Mr. Elmer W. Johnson, Assistant Dean of the Institute of Technology; Dr. Marcia Edwards, Acting Dean of the College of Education; Dr. Howard L. Horns, Assistant Dean of the College of Medical Sciences; Mr. Roy A. Schuessler, Associate Professor of Music; Dr. Stewart C. Thomson, Associate Professor and Assistant Director of the School of Public Health, Marshal.

## *Order of Events*

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

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

**INVOCATION:** The Reverend William Larsen, Director, Lutheran Student Association, and Adviser to Lutheran students on the Minneapolis Campus of the University.

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

**COMMENCEMENT ADDRESS:** "A Blueprint for International Cooperation," The Honorable Stuart Sinclair Garson, LL.D., K.C., M.P., Minister of Justice and Attorney General of Canada.

**CONFERRING OF COMMISSIONS:** Dean Thomas A. H. Teeter, Dean of the Summer Session, will introduce Lt. Col. Helmer T. Aasheim, USAF, Assistant Professor of Air Science and Tactics, who will present the candidates for commissions in the United States Navy and the United States Air Force. The commissions will be presented by President Morrill; the oath of office will be administered by Commander Walter J. McGuire, USN, Associate Professor of Naval Science.

**CONFERRING OF DEGREES:** Dean Thomas A. H. Teeter, B.S., Summer Session, will introduce the several deans or their representatives who will present the candidates for degrees in their respective colleges. These, in order of their introduction, are: Assistant Dean Alfred L. Vaughan, Ph.D., General College; Assistant Dean Roger B. Page, Ph.D., College of Science, Literature, and the Arts, and University College; Assistant Dean Elmer W. Johnson, E.E., M.E., Institute of Technology; Dean Clyde H. Bailey, Department of Agriculture, for the College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Acting Dean Marcia Edwards, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Assistant Dean Howard L. Horns, M.D., College of Medical Sciences; Assistant Dean John G. Darley, Ph.D., Graduate School. All degrees will be conferred by President Morrill. Immediately afterwards, certificates and diplomas will be presented by each dean to the graduates of his college.

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

## *Order of Events*

"HAIL! MINNESOTA," the University's alma mater song: The audience and Mr. Roy A. Schuessler, soloist.

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

RECESSIONAL: Mr. Paul Manz, organist.

Rigaudon - - - - - Campra

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 NAVAL SCIENCE

#### Ensign, USNR

Donn Derek French, Minneapolis

### DEPARTMENT OF AIR SCIENCE AND TACTICS

#### Second Lieutenant, USAF Reserve

James David Kaercher, Ortonville

Dale Clarence Porter, Minneapolis

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## *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

Larry Howard Hainrick, Minneapolis

### COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

#### Associate in Liberal Arts

Corrine Joyce Galinson, Minneapolis  
Leo Conrad Meloche, Minneapolis

Wayne Marvin Wobschall, Minneapolis

## Bachelor of Arts

- Glenn Edward Bergstrom, Minneapolis  
Norma Jean Bergstrom, Worthington  
Russell Rudolph Boehlke, B.S., Buffalo Lake  
Michael Arthur Bosanko, Minneapolis  
John Brimhall Brainard, B.C.E., St. Paul  
David Eugene Bushman, Grand Marais  
Ronette Jane Christopherson, Minneapolis  
John Michael Connelly, A.A., Santa Monica, Calif.  
Douglas Albert Dahlquist, Minneapolis, MAGNA CUM LAUDE  
Melvin Lincoln Danielson, Farmington  
Thomas Jefferson Devine, Jr., Boulder, Colo.  
John Duncan Drummond, Eau Claire, Wis.  
John McCall Elliott, Butte, Mont.  
William Hugo Fischer, Minneapolis  
Patricia Kay Fredean, Minneapolis  
Donn Derek French, Minneapolis  
Howard Robert Gilbertson, Devils Lake, N.D.  
David Lee Goblirsch, Wabasso  
Stephenie Genevieve Grover, Grantsburg, Wis., CUM LAUDE  
Jean Ellen Hackett, Minneapolis  
Arthur L. Herman, Minneapolis  
Thomas Lester Huseby, Minneapolis  
James Boyd Ingler, Minneapolis  
Jerald Jacobs, Minneapolis  
Robert Joseph Richard Johnson, Deer River  
Paul Gowan Johnston, Minneapolis  
James Howard Kallestad, Minneapolis  
Clarence Myhren Larson, Jr., Minneapolis  
Robert Joseph Lehar, Minneapolis  
Ralph Eugene McCarthy, Faribault  
Reece Jerome McGee, St. Paul  
Floyd Bruce Millar, B.S., Minneapolis  
Marshall David Miller, Minneapolis  
Marlin Laurel Nelson, A.A., Danville, Iowa  
Scott Francis Nelson, Jr., Minneapolis  
Warren Lester Nilsen, Minneapolis  
Robert John Okinow, St. Paul  
Clarke Farup O'Reilly, Fargo, N.D.  
Edward Nohl Peterson, Virginia  
Dale Clarence Porter, Minneapolis  
Richard Keith Runquist, Cokato  
Arthur Raymond Schneider, St. Paul  
Thomas Arthur Schultz, Minneapolis  
Dale Allan Sederstrom, A.A., Nashwauk  
John Burton Shulze, Jr., Minneapolis  
Louise Agnes Smith, Bemidji  
Gretchen Flindt Snider, Minneapolis  
Roger Whitten Swanson, Minneapolis  
Roy Everett Swenson, Rush City  
George Donald Tacheny, St. Paul  
John Clare Ure, North Mankato  
Robert John Wigley, Mankato

## Bachelor of Science in Library Science

- Edna Honoria Akre, B.A., M.A., Glenwood  
Edwina Mildred Crosby, Ph.B., Stevens Point, Wis.  
Hester McLean Dornblaser, B.S., Minneapolis  
Anna Elizabeth Elliott, B.A., Minneapolis  
Gladys G. Mooney, B.A., Marshall

## UNIVERSITY COLLEGE

### Bachelor of Arts

Marilyn Holm Hunter, Minneapolis

# INSTITUTE OF TECHNOLOGY

## Bachelor of Science

*Robert Mills Bevenssee, Minneapolis, Selmer Alan Martinson, Duluth*  
WITH DISTINCTION

## Bachelor of Aeronautical Engineering

Vurnen Jerome Leonard, Minneapolis

## Bachelor of Agricultural Engineering

*Marvin Olaf Marmorine, Gonvick, James Mealey Nutter, St. Peter*  
WITH DISTINCTION

## Bachelor of Architecture

Frank Wilder Barnard, East Grand Forks

## Bachelor of Chemical Engineering

*Brice Edwin Fleck, Yonkers, N.Y. Rodney Alden Nelson, Montevideo,*  
*Raymond Mathew Gradishar, A.S., WITH HIGH DISTINCTION*  
*Ely Glenn Arthur Sather, Franklin, WITH*  
*Selmer Alan Martinson, Duluth DISTINCTION*

## Bachelor of Civil Engineering

*Orlando Baldwin Andersland, Henry John Cermak, Jr., St. Paul*  
*Emmons Lloyd Kenneth Landey, Minneapolis*

## Bachelor of Electrical Engineering

*John Haynes Bredberg, Minneapolis Robert George Rosen, Perham*  
*Thomas James Donlin, St. Paul*

## Bachelor of Industrial Engineering

Lyle Dennis Mohagen, Minneapolis

## Bachelor of Metallurgical Engineering

Robert Ray Burt, Minneapolis

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

## Bachelor of Science

Kathleen Theresa Bye, Minneapolis,  
Home Economics

*Dorothy Jeanette Chamberlain, Red  
Wing, Home Economics, WITH  
DISTINCTION*

Marco Aurelio Flores, Guatemala,  
Guatemala,\* Agriculture

Shirley Anne Riecke, Bismarck, N.D.,  
Home Economics, WITH DISTINC-  
TION

Aldin Roland Sampson, Hector,  
Agriculture

## COLLEGE OF EDUCATION

### Bachelor of Science

David Moore Balzer, B.A., Mountain  
Lake

Virginia Monica Beavin, Sioux Falls,  
S.D.

Marguerite Vivian Broderick, Tracy

Angela Meenahan Burke, St. Paul

Wesley Walfrid Carlson, Minneapolis

Russell Eugene Cochran, Minneapolis

Elizabeth Ruth Croal, Madison

*Edythe Serena Dahlgren, St. Paul,*

WITH DISTINCTION

Richard Alan DeGuise, Excelsior

Glen Warren Dolmar, Minneapolis

Ruth Rosenzweig Epstein, B.A.,

M.A., Minneapolis

Mary Louise Evans, A.A., Minneapolis

Irene Dorothy Faffler, St. Paul

Esther Marie Olson Foss, Franklin

Helen-Marie Glaas, Minneapolis

Phyllis Marie Gorder, Battle Lake

Ella Marie Gustavson, Minneapolis

Zareefa Yvonne Hanenberger, B.A.,  
Minneapolis

Lois Griep Holmberg, Santa Cruz,  
Calif.

Mary M. Holum, B.A., Minneapolis

Michael Thomas Hreha, Minneapolis

*Elizabeth Jean Hutchinson Hoster-  
man, Robbinsdale, WITH DISTINC-  
TION*

Bette Reid Johnson, B.S., Minneapolis

Janice Ann Klodt, Minneapolis

Albert Louis LaMere, Hamel

Ada Christine Larson, Preston

Belle LaVaque, Hibbing

Ingvald P. Levang, B.S., Minneapolis

*Flora Patterson Martinson, Minne-  
apolis, WITH DISTINCTION*

James P. McCoy, Savage

Ruth Elizabeth Meyer, Waltham

Myrtle Ruth Miller, Minneapolis

Margaret Evangeline Miller-Johnson,  
Willmar

Earle Arthur Nesse, Minneapolis

Edward John Nichols, Duluth

Mildred Virginia Nuessle, Springfield

*Howard Alfred Ojala, New York Mills,*

WITH DISTINCTION

Marguerite Spiroff Pierce, B.S.,

Houghton, Mich.

Darrel Joseph Rial, B.A., St. Paul

Paul Charles Riddle, Poland, Ohio

Hollyce Ann Russ, Blue Earth

Ebba Odencrans Sher, Chisholm

Ralph Eugene Thorp, Jr., Minne-  
apolis

Donald Macbeth Uhlin, Minneapolis

Luella Margaret Vandell, Eveleth

*Helen Frances Watters, Delmar, Iowa,*

WITH HIGH DISTINCTION

Patricia Millar Weimer, B.A.,

Minneapolis

Warren Seymour Wheaton, Eagle  
Bend

Margaret Sutton Willie, Kannapolis,

N.C.

Yuki Yano, Ogden, Utah, WITH

HIGH DISTINCTION

\* Degree conferred as of June 14, 1952.

## Bachelor of Science in Library Science

Joanna Wurga Barsness, B.A., Eau Claire, Wis.  
Helen Lucille Glau, B.S., Aberdeen, S.D.  
Marjorie Dean Hoag, B.S., Traverse City, Mich.

Hilia Josephine Lindroos, B.S., Menahga  
Alice Sophia Olesberg, B.S., Moorhead  
Eugene John Stanger, B.E., Waite Park  
M. Corrine Swanson, B.S., Glenwood City, Wis.

## Master of Education

Jack Wallace Baldwin, B.A., North Branch  
Lee Dean Garton, B.S., Topeka, Kan.  
Arthur Edward Johnson, B.S., St. Paul  
Bette Reid Johnson, B.S., Minneapolis  
Michael Matthew Finbarr Kiely, B.A., San Mateo, Calif.  
Joseph William Knoblauch, B.S., Hopkins  
Arnold William Leonard, B.S., St. Paul

Robert Harvey Luehrs, B.S., Minneapolis  
Nicholas Kenneth Rusinak, B.S., Minneapolis  
Youssef Mohamed Sida, Damietta, Egypt  
Barbara Singleton Vye, B.S., Minneapolis  
Wesley H. Windmiller, B.S., Stillwater

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

### Bachelor of Science

Ralph Fabian Zauhar, Floodwood

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

William Dean Birch, Minneapolis  
James Carl Bublitz, St. Paul  
Clyde P. Carlson, Sioux Falls, S.D.  
Donald Jackson Fraley, Minneapolis  
Howard Alfred Furlong, Manchester, N.H.  
Gene Elden Harnack, Rochester  
George Owen Holm, Minneapolis  
John Wilbert Holm, Minneapolis  
David Keith Irwin, Indian Head, Saskatchewan, Canada

Robert Arthur Johnson, Mound  
Marvin Olaf Marmorine, Gonvick,  
WITH DISTINCTION  
James Edward Nelson, Duluth  
Rodney Alden Nelson, Montevideo,  
WITH DISTINCTION  
Richard John Oldfield, Minneapolis  
Marvin Martin Olson, Fargo, N.D.  
Dale Roger Olseth, North Mankato  
Lee Ritchey Petillon, Minneapolis  
Cornelius Patrick Powell, St. Paul



Robert George Rosen, Perham  
Margaret Florence Rounds, Minneapolis, WITH DISTINCTION  
Howard Ralph Ruvelson, St. Paul  
James Robert Ryan, Minneapolis  
Glenn Arthur Sather, Franklin

David John Sullivan, St. Paul  
Francis Robert Ward, St. Paul,  
WITH DISTINCTION  
John O. Whelpley, New Bedford,  
Mass., WITH HIGH DISTINCTION

## Bachelor of Science in Economics

Gordon Randolph Antelman, Aberdeen, S.D., WITH HIGH DISTINCTION

Grover Cleveland Brown, Anoka

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science

James Thomas Adkins, B.A., St. Paul, Medicine  
Richard Eldon Anonsen, B.A., Minneapolis, Medicine  
Merle Charles Bah, B.A., Evansville, Medicine  
Melvin Palmer Baken, Jr., D.D.S., M.S.D., Minneapolis, Medicine  
Alvin Emmanuel Berglund, Jr., B.A., Cambridge, Medicine  
Loraine Lucille Bertolini, Chicago, Ill., Public Health Nursing  
Richard Edson Borreson, B.A., Thief River Falls, Medicine  
Kenneth Neubauer Bredesen, B.A., Edina, Medicine  
James Edward Brown, Jr., B.A., St. Paul, Medicine  
Gerald F. Burke, B.A., St. Paul, Medicine  
Kenneth W. Christianson, B.A., St. Paul, Medicine  
James Adrian Donaldson, B.A., Foley, Medicine  
George Charles Dorsey, Jr., Minneapolis, Medicine  
Stephen R. Dunphy, Minneapolis, Medicine  
William Lyle Ellingson, B.A., Detroit Lakes, Medicine  
Milton Gene Ettinger, B.A., St. Paul, Medicine

Robert Dale Fedor, Lakefield, Medicine  
Richard Clayton Finley, B.A., Mound, Medicine  
Edgar Ralph Gamm, B.A., Marshall, Medicine  
Robert Williams Geist, B.A., St. Paul, Medicine  
Paul Thomas Grimes, B.A., Grand Meadow, Medicine  
Warren Hartley Gullen, B.A., Minneapolis, Medicine  
Roger Verner Haglund, B.A., Duluth, Medicine  
Kent Oscar Hanson, B.A., Hallock, Medicine  
Bernard John Heetderks, Jr., B.A., Bozeman, Mont., Medicine  
Donald Bruce Hulteng, B.A., East Grand Forks, Medicine  
Joseph Robert Jannach, Minneapolis, Medicine  
John Edward Kanth, B.A., Minneapolis, Medicine  
Michael Kosiak, B.A., Chisholm, Medicine  
Richard James Krebsbach, B.A., St. Paul, Medicine  
Vernon George Kuhlmann, B.A., Hamburg, Medicine  
Martha Carlisle Larsen, B.A., Crookston, Medicine

Paul Roy Leon, B.A., Minneapolis,  
Medicine  
James Bushnell Lindahl, B.A., Crosby,  
Medicine  
James McNair Little, B.A., Mayville,  
N.D., Medicine  
Robert E. Lynner, B.A., Clarkfield,  
Medicine  
Fredric L. Mast, A.S., B.A., Brainerd,  
Medicine  
Robert Lynn McAllister, B.A., Min-  
neapolis, Medicine  
Charles Joseph McCarthy, St. Paul,  
Medicine  
Gene Edward Meger, Minneota,  
Medicine  
Giles Gene Merkel, New Ulm,  
Medicine  
Leo Joseph Moran, Slayton, Medicine  
John Douglas Nelson, Duluth,  
Medicine  
Sidney Nerenberg, B.A., St. Paul,  
Medicine  
Eugene C. Ott, Minneapolis,  
Medicine  
Thomas Myles Parker, B.A., Roches-  
ter, Medicine  
Burton Irwin Rein, B.A., Minneapolis,  
Medicine

Howard David Ross, B.A., Minne-  
apolis, Medicine  
Richard Keith Runquist, Cokato,  
Medicine  
Leonard Sadoff, B.A., Minneapolis,  
Medicine  
Lucille Mary Saloum, Duluth,  
Medicine  
Robert Eugene Schmitz, B.A., Min-  
neapolis, Medicine  
Doris Vivien Schoon, B.A., Luverne,  
Medicine  
Lawrence Serber, B.A., Minneapolis,  
Medicine  
Duane Samuel Smith, Minneapolis,  
Medicine  
Richard Edward Student, Minne-  
apolis, Medicine  
Maxine Mavis Swanson, Cayuga,  
N.D., Public Health Nursing,  
WITH HIGH DISTINCTION  
Russell Alden Thompson, Hutchin-  
son, Medicine  
Deloran Leigh Thurber, A.A., B.A.,  
Rochester, Medicine  
Robert George Wohlrabe, B.A.,  
Springfield, Medicine  
Dolores Elizabeth Young, Reedsburg,  
Wis., Public Health Nursing

## Master of Public Health

Marie Elizabeth Ford, B.S.,  
Minneapolis

Sheila MacDonald Ogilvie, B.A.,  
B.Sc., Vancouver, British Columbia,  
Canada  
Evodia Anderson Reinikka, Upsala

## Doctor of Medicine

Robert Edward Kohlhase, B.S., B.M., St. Paul

## GRADUATE SCHOOL

### Master of Arts

Arvin A. Ahlf, Sheboygan, Wis.  
B.S. '49, Stout Institute. Field of Concentra-  
tion: Industrial Education.

Irvamae Vincent Applegate, Princeton  
B.S. '41, North Dakota Agricultural College.  
Field of Concentration: Curriculum and In-  
struction.

John Hilford Bainiah, Gold Coast,  
West Africa  
B.S. '49, Wilberforce College of Education  
and Industrial Arts. Major: Anthropology.  
Minor: Geography. Thesis: The Fishing Com-  
plex of the West African Fante.

Dwight Ernest Baumgardner,  
McCallsburg, Iowa

B.A. '50, Luther College. Field of Concentration: Economics.

Gerald August Bolmeier,  
Absarokee, Mont.

B.S. '49, North Dakota Agricultural College. Field of Concentration: Educational Psychology.

Robert Dean Brown, Elbow Lake

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

Thomas Richard Buckman, Reno,  
Nev.

B.A. '47, College of the Pacific. Field of Concentration: Area Studies: Scandinavia.

James Luther Bueide, Minneapolis

B.A. '49, Augsburg College. Field of Concentration: Statistics.

Julius Chametzky, Brooklyn, N.Y.

B.A. *cum laude* '50, Brooklyn College. Field of Concentration: English.

Robert Burton Clay, Dawson

B.S. '44, Winona State Teachers College. Field of Concentration: Educational Administration.

Isabel Ann Cook, Hopkins

B.A. '47, University of California. Field of Concentration: Curriculum and Instruction.

Sarah Ruth Cook, San Diego, Calif.

B.M.E. '36, B.A. '40, University of Kansas. Field of Concentration: Psychology.

Joseph Arnold Doyle, Regina,  
Saskatchewan, Canada

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

Patricia Lorraine Ellis, Winnipeg,  
Manitoba, Canada

B.Sc. '46, University of Manitoba. Field of Concentration: Mathematics.

Richard Marc Emerson, Salt Lake  
City, Utah

B.S. '50, University of Utah. Major: Sociology. Minor: Psychology. Thesis: Deviation and Rejection: An Experimental Replication.

Merle Arnold Engeset, Minneapolis

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

George William England, Rapid City,  
S.D.

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

Orlando Fals-Borda, Barranquilla,  
Colombia, South America

B.A. '47, University of Dubuque. Major: Sociology. Minor: Anthropology. Thesis: Saucio—A Sociological Study of a Rural Community in Colombia.

Abe Lewis Fox, Minnesota Lake

B.A. '35, St. Olaf College. Field of Concentration: Educational Administration.

Sally Ann Furber, Minneapolis

B.A. '51, Grinnell College. Field of Concentration: Spanish.

William Charles Gemeinhardt,  
Milwaukee, Wis.

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

James R. Haake, Waukon, Iowa

B.A. '43, Knox College. Field of Concentration: English.

Rosemary Harding Hagen, Minneapolis

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

Ernest Adolf Hakel, Montevideo

B.S. '32, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Hazel Margaret Heggen, Rothsay

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

John August Hielsberg, Faribault

B.E. '35, Oshkosh State Teachers College. Field of Concentration: Industrial Education.

James Elmer Holmes, Long Beach,  
Calif.

B.S. '49, River Falls State Teachers College. Field of Concentration: Curriculum and Instruction.

Wayne Vincent Huebner, Glyndon

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

Clifford Ingwell, Rice Lake, Wis.

B.S. '48, Stout Institute. Field of Concentration: Industrial Education.

Wayne Thompson Jacob, Tunnel,  
N.Y.  
B.A. '49, George Washington University. Field  
of Concentration: Area Studies: Scandinavia.

Bernard Joseph James, Haugen, Wis.  
B.A. *cum laude* '48, University of Minnesota.  
Major: Sociology. Minor: Philosophy. Thesis:  
Some Theories of Bureaucracy and the Social-  
Psychology of Bureau Functionaries.

Donald Roland Keyworth, St. Paul  
B.A. *cum laude* '50, University of Minnesota.  
Major: Philosophy. Minor: History. Thesis:  
Logical Empiricism, and Theological Expres-  
sion.

Virgil John Kroeger, Elkton, S.D.  
B.S. '40, South Dakota State College of Agr-  
iculture and Mechanic Arts. Major: Sociology.  
Minor: Economics. Thesis: An Examination of  
the Principal Assumptions Which Underlie  
the Construction of Several Occupational  
Classification Scales.

Howard Stanley Levant, Eveleth  
B.A. '50, University of Minnesota. Field of  
Concentration: English.

Charles Leonard Lewis, St. Paul  
B.S.Ed. with honor '49, Ohio University.  
Field of Concentration: Educational Psy-  
chology.

John Thompson Little, Jr., St. Louis  
Park  
B.S. with distinction '49, University of Min-  
nesota. Field of Concentration: Education.

Donald Lynch, Sullivan, Ind.  
B.S. '49, Indiana State Teachers College.  
Field of Concentration: Industrial Education.

Yiew Min Ma, Canton, China  
LL.B. '45, National Sun Yat-Sen University.  
Field of Concentration: Political Science.

Anita Joan MacRavey, Toledo, Ohio  
B.A. '48, University of Toledo. Field of Con-  
centration: Scandinavian.

Richard Paul Maliszewski, Oshkosh,  
Wis.  
B.S. '49, Stout Institute. Field of Concen-  
tration: Industrial Education.

John Joseph Maloney, Minneapolis  
B.S. '41, St. Cloud State Teachers College.  
Field of Concentration: Educational Admin-  
istration.

Ralph Matthew McInerny, Minne-  
apolis  
B.A. '51, St. Paul Seminary. Major: Philosophy.  
Minor: Latin. Thesis: A Thomistic Evaluation  
of the Philosophy of Soren Kierkegaard.

Josef Mestenhauer, Prague,  
Czechoslovakia  
J.U.C. '46, Charles University (Prague); B.A.  
'50, Eastern Washington College of Education.  
Major: Political Science. Minor: History.  
Thesis: The Organization, Methods, and  
Significance of the Cominform, with Partic-  
ular Reference to Czechoslovakia.

Robert William Meyer, LaCrosse,  
Wis.  
B.S. '51, LaCrosse State Teachers College.  
Field of Concentration: American Studies.

John Gordon Moody, Minneapolis  
B.A. *magna cum laude* '49, University of Min-  
nesota. Field of Concentration: Speech.

Hermann Graf Muenster, Munich,  
Germany  
B.S. '50, Die Technische Hochschule (Ger-  
many). Major: Sociology. Minor: Agricultural  
Economics. Thesis: Outlook for the Hired  
Farm Labor Force in Western Germany.

Robert Joseph Nadon, Minneapolis  
B.A. '49, University of Minnesota. Field of  
Concentration: English.

Dorothy Evelyn Neumann, Fergus  
Falls  
B.S. '45, St. Cloud State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Hiroshi Noguchi, Tokyo, Japan  
B.A. '41, Tokyo University. Major: History of  
Education. Minors: Philosophy and English.  
Thesis: Teachers in Japan—an Appraisal of  
the Educational Reform in Post-War Japan.

Maxine Lilace Gloria Nordberg,  
Cambridge  
B.S. '48, University of Minnesota. Field of  
Concentration: Home Economics.

Walter Keith Nosek, Wanamingo  
B.E. '36, Duluth State Teachers College.  
Field of Concentration: Educational Admin-  
istration.

**Weston Jerome Olberg, Mankato**

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

**June Charlotte Peterson, Duluth**

B.S. '45, Duluth State Teachers College. Field of Concentration: Educational Psychology.

**Mary Margaret Pulleyn, Minneapolis**

B.A. '45, University of Minnesota. Field of Concentration: English.

**Karl Spangler Quisenberry, Jr., Minneapolis**

B.S. '49, University of Nebraska. Major: Physics. Minor: Mathematics. Thesis: The Thermal Diffusion Constant of Neon and Its Variation with Temperature.

**Merivan Doris Robinson, St. Paul**

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

**Paul Rupprecht, Minneapolis**

B.S. '51, North Dakota Agricultural College. Major: International Relations. Thesis: The Political and Legal Aspects of the International Recognition Relative to the Annexation of the Baltic States by Soviet Russia.

**Lotte Seidler, Gothenburg, Sweden**

B.A. '51, Gothenburg University (Sweden). Field of Concentration: Journalism.

**Donna Mae Sorenson, Minneapolis**

B.A. *cum laude* '49, Macalester College. Field of Concentration: English.

**James Rudolph Soukup, Detroit, Mich.**

B.A. with high distinction '50, Wayne University. Field of Concentration: Political Science.

**Jack Peter Stebe, Gilbert**

B.A. '39, Hamline University. Field of Concentration: Educational Administration.

**Helen Katherine Stephens, Minneapolis**

B.S. '48, University of Minnesota. Field of Concentration: Home Economics Education.

**Ada Amelia Stokes, Mankato**

B.A. '42, Valparaiso University. Field of Concentration: English.

**Paul Edphil Strandjord, Minneapolis**

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

**Jeraldine Naomi Swain, Crookston**

B.A. '43, University of North Dakota. Field of Concentration: Spanish.

**Raymond Joseph Tarleton, St. Paul**

B.A. '48, University of Minnesota. Field of Concentration: Journalism.

**Marvin Orville Thompson, Minneapolis**

B.A. *cum laude* '49, Macalester College. Major: Music. Minor: History. Thesis: A Study of the Rhythmic Elements as Found in the Temporal Organization of Music.

**Francis Charles Turmezei, Budapest, Hungary**

Ph.Licentiate '44, University of Budapest. Field of Concentration: Curriculum and Instruction.

**James Welch Vardaman, Dallas, Tex.**

B.A. '51, Baylor University. Field of Concentration: History.

## Master of Forestry

**Loyd M. LaMois, Akeley**

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

## Master of Social Work

**Joan Ann Eagen, Minneapolis**

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

**Clayton Harold Hagen, Webster, S.D.**

B.A. '47, Gustavus Adolphus College. Field of Concentration: Social Work.

**Ruth Gladys Isker, Minneapolis**

B.A. '21, Macalester College. Field of Concentration: Social Work.

**Eileen Verna Uttech, Fulda**

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

## Master of Science

**Albert Stanley Bacon, Ouitman, Ga.**  
B.S. '38, Georgia State College. Field of Concentration: Agricultural Economics.

**Norman Edward Boucher, Jr., Minneapolis**

B.S. '41, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Studies of Anaphylaxis in the Guinea Pig Employing a Radioactive Tracer Technic.

**Antonio Hernandez Corzo, Mexico City, Mexico**

Biologo '49, Escuela Nacional de Ciencias Biologicas (Mexico). Major: Plant Genetics. Minor: Plant Pathology. Thesis: Haploid Extraction Problems and Uniformity of Homozygous Diploids in *Zea mays*.

**Rollin Marshall Dennistoun, Rosemount**

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

**James Rollo DeVoe, Sterling, Ill.**

B.S. '50, University of Illinois. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Light Scattering Properties of Barium Sulfate.

**Daniel James Gainey, Owatonna**

B.A. '49, Carleton College. Field of Concentration: Geology.

**Dale Northey Goodell, Lihue, Kauai, T.H.**

B.S. '42, Iowa State College. Field of Concentration: Animal Husbandry.

**Dorothy Marie Grahame, Winnipeg, Manitoba, Canada**

B.Sc. '50, University of Manitoba. Field of Concentration: Home Economics.

**Richard Otto Huch, St. Paul**

B.Ch.E. with distinction '50, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: The Effect of Starches, Starch Products, pH and Inorganic Salts on the Cationic Flotation of Iron Ore.

**James Louis Johnson, Hopkins**

B.S. '51, University of Minnesota. Field of Concentration: Mathematics and Mechanics.

**John William Lawrow, Hornell, N.Y.**  
B.A. '48, University of Rochester. Major: Physiological Hygiene. Minor: Physiological Chemistry. Thesis: The Effect of Short, Severe Exercise on Serum Protein Composition.

**Oiva Herbert Lindquist, Cloquet**

B.S. '48, M.S. '49, Iowa State College. Field of Concentration: Biophysics.

**Francis Nawara, Krakow, Poland**

M.Agr.Sci. '36, University of Krakow (Poland). Field of Concentration: Animal Husbandry.

**Marjorie Campbell Norris, Winnipeg, Manitoba, Canada**

B.Sc. '33, University of Manitoba. Major: Bacteriology. Minor: Zoology. Thesis: An Investigation Relating to the Natural History of the Virus of Western Equine Encephalitis in Manitoba, Canada.

**Hans Pilhofer, Nuernberg, Germany**

Staatl. Geprüften Landwirt '50, Hoch. Ackerbauschule Triesdorf (Germany). Field of Concentration: Agricultural Economics.

**Edward Stewart Redgate, Minneapolis**

B.S. *summa cum laude* '49, Bethany College (West Virginia). Major: Physiology. Minor: Physiological Chemistry. Thesis: The Nature of the Adrenomedullary Secretion Elicited by Asphyxia and Hypothalamic Stimulation.

**John James William Rogers, Beverly Hills, Calif.**

B.S. '51, California Institute of Technology. Major: Geology. Minor: Physical Chemistry. Thesis: The Absorption of Uranium by Peat.

**Carl Emilio Smith, Detroit, Mich.**

B.S. '41, Tuskegee Institute; B.A. '50, Wayne University. Field of Concentration: Agricultural Economics.

**Henry Harlow Thompson, Climax**

B.Ag.B.A. '50, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Operations of Farmers' Cooperative Purchasing Associations in Minnesota, 1949-50.

Alexander M. Vasilevsky, St. Paul  
For.Eng. '46, Lwow Polytechnical Institute;  
For.Adm. '43, Lwow State School of For-  
estry (Poland). Major: Forestry. Minor: Political  
Science. Thesis: Growth as a Factor in  
the Silviculture of the Major Forest Types in  
Itasca State Park.

Kathleen Miriam Watson, Winnipeg,  
Manitoba, Canada  
B.Sc. '42, University of Manitoba. Field of  
Concentration: Home Economics Education.

Bertram Zaslow, Minneapolis  
B.A. '48, Cornell University. Major: Physical  
Chemistry. Minor: Mathematics and Me-  
chanics. Thesis: The Crystal Structure of  
Phosgene.

Carl Archie Ziebarth, Wrenshall  
B.S. with distinction '49, University of Min-  
nesota. Field of Concentration: Agricultural  
Education.

## Master of Science in Aeronautical Engineering

Richard Douglas Archer, Melbourne,  
Australia  
B.S. '45, University of Melbourne; B.Eng. '50,  
University of Sydney. Field of Concentration:  
Aeronautical Engineering.

Richard La Verne Evans, Perris, Calif.  
B.S. '41, U. S. Naval Academy; B.S. in Aero.E.  
'51, U. S. Naval Postgraduate School. Major:  
Aeronautical Engineering (Power Plants).  
Minor: Aeronautical Engineering (Structures).  
Thesis: The Mixing of a Hot Pulsating Air  
Jet in a Cold Secondary Air Flow.

Jack Stewart Laney, Kennewick,  
Wash.  
B.S. '43, U. S. Naval Academy; B.S. in Aero.E.  
'51, U. S. Naval Postgraduate School. Major:  
Aeronautical Engineering (Power Plants).  
Minor: Aeronautical Engineering (Structures).  
Thesis: Thermal Effects in Air Cooled Turbine  
Blades.

James Claxton Lieber, Wahpeton,  
N.D.  
B.S. '43, U. S. Naval Academy; B.S. in Aero.E.  
'51, U. S. Naval Postgraduate School. Major:  
Aeronautical Engineering (Structures). Minor:  
Aeronautical Engineering (Aerodynamics).  
Thesis: Stress Concentrations Around Rein-  
forced Circular Cutouts in Metalite Panels in  
Tension.

Robert Cullom Morris, Winnetka, Ill.  
B.S. '43, Duke University; B.S. in Aero.E. '51,  
U. S. Naval Postgraduate School. Major: Aero-  
nautical Engineering (Structures). Minor:  
Aeronautical Engineering (Aerodynamics).  
Thesis: Stress Distribution in a Pin-Loaded  
Metal Plate with Glued Reinforcement Plates.

Edgar Allen Robie, Collingswood, N.J.  
B.S. '42, U. S. Naval Academy; B.S. in Aero.E.  
'51, U. S. Naval Postgraduate School. Major:  
Aeronautical Engineering (Power Plants).  
Minor: Aeronautical Engineering (Structures).  
Thesis: An Experimental Analysis of the Mix-  
ing of a Pulsating Air Jet at Varying Fre-  
quencies in a Steady Air Flow.

Robert Richard Thoe, Lake Mills,  
Iowa  
B.S. '43, U. S. Naval Academy; B.S. in Aero.E.  
'51, U. S. Naval Postgraduate School. Major:  
Aeronautical Engineering (Power Plants).  
Minor: Aeronautical Engineering (Structures).  
Thesis: An Experimental Analysis of Environ-  
mental Effects on Pressure Sensing Systems for  
Oscillating Pressures.

Charles William Ullrich, Indianapolis,  
Ind.  
B.S. '43, U. S. Naval Academy; B.S. in Aero.E.  
'51, U. S. Naval Postgraduate School. Major:  
Aeronautical Engineering (Power Plants).  
Minor: Aeronautical Engineering (Structures).  
Thesis: An Investigation of the Effectiveness  
of Baffles in Promoting Mixing of a Hot Gas  
with Cold Air Under Steady Flow Conditions.

## Master of Science in Anesthesiology

Robert Charles Knutson, Blue Earth  
B.S. '44, M.D., '47, University of Minnesota.  
Major: Anesthesiology. Minor: Experimental  
Medicine. Thesis: Blood Volume Effects of  
Plasma Volume Expanders or Volemic Sub-  
stances.

## Master of Science in Civil Engineering

Johnnie Victor Holm, Klamath Falls,  
Ore.

B.S. '50, Oregon State College. Major: Civil Engineering (Structures). Minor: Civil Engineering (Hydraulics). Thesis: Square Plates Under Hydrostatic Loading.

## Master of Science in Dentistry

Dan Edward Brannin, Ramona, Okla.

B.S. with distinction '47, Oklahoma Agricultural and Mechanical College; D.D.S. '50, University of Kansas City. Major: Dentistry. Minor: Pathology. Thesis: Vitallium Mandibular Prostheses.

## Master of Science in Medicine

William Gregory Bannon, Terra  
Haute, Ind.

B.A. '43, M.D. '45, Indiana University. Major: Medicine. Minor: Anatomy (Hematology). Thesis: The Comparative Effects of Menadione Sodium Bisulfite and Vitamin K<sub>1</sub> on the Hypoprothrombinemia Induced by Dicumarol.

Arthur W. Robinson, Kansas City,  
Mo.

B.A. '42, M.D. '44, University of Kansas. Major: Medicine. Minor: Pathology. Thesis: Congenital Ventricular Septal Defect: a Clinico-Pathologic Correlation.

Donald August Scholz, Granger,  
Ohio

B.S. '42, M.D. '45, Western Reserve University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: A Study of the Cardiovascular-Renal Complications in Cushing's Syndrome.

Alvin Leroy Schultz, Minneapolis

B.A. '43, B.S. '44, M.D. '46, University of Minnesota. Major: Medicine. Minor: Pathology. Thesis: The Effect of Propylthiouracil on the Thyroid Uptake of I<sup>131</sup> and the Plasma Conversion Ratio in Hyperthyroidism.

## Master of Science in Mining Engineering

Emil William Felegy, Duluth

B.S. in M.E. '38, Lehigh University. Major: Mining Engineering. Minor: Business Administration. Thesis: Underground Radio Communication in Lake Superior District Mines.

## Master of Science in Neurosurgery

James Hugh Webb, Nelsonville, Ohio

B.A. '42, Ohio Wesleyan University; M.D. '45, University of Cincinnati. Major: Neurosurgery. Minor: Neuropathology. Thesis: Intraspinal Neoplasms in the Cervical Region.



## Master of Science in Obstetrics and Gynecology

Coy Lafayette Lay, Austin, Tex.

M.D. '46, University of Texas. Major: Obstetrics and Gynecology. Minor: Surgical Pathology. Thesis: An Evaluation of Fluorescent Staining for Detection of Cancer Cells in Vaginal Smears.

## Master of Science in Ophthalmology

Walter Hanford Benedict, Rochester  
M.D. '46, University of Michigan. Major: Ophthalmology. Minor: Pathology. Thesis: The Influence of Cortisone on the Trepine Wound in the Eye in Experimental Animals.

Paul Michael Brickley, Rochester  
B.A. '39, B.S. '40, University of Michigan; M.D. '44, University of Minnesota. Major: Ophthalmology. Minor: Pathology. Thesis: Residual Accommodation Under Homatropine Cocaine Cycloplegia.

John Alexander McNeill, St. Paul

B.A. '39, M.D. '44, University of Manitoba. Major: Ophthalmology. Minor: Anatomy. Thesis: Antibiotics in Chronic External Ocular Infections. Effect of Sensitivity Tests on Treatment.

## Master of Science in Pathology

Donald Leo Becker, Denver, Colo.  
B.A. '43, University of Denver; M.D. '46, University of Colorado. Major: Pathology. Minor: Clinical Pathology. Thesis: Parenchymal Calcification of the Kidneys in Patients with Duodenal Ulcer.

Ruth Alison Seale, Berkeley, Calif.  
B.A. '35, M.D. '47, University of California. Major: Pathology. Minor: Clinical Pathology. Thesis: Regeneration of the Epithelium of Renal Tubules Following Injury by Mercury and by Carbon Tetrachloride.

Samuel Theodore Nerenberg, Minneapolis

B.S. '45, M.D. '46, University of Minnesota. Major: Pathology. Minors: Neuropathology and Anatomy (Hematology). Thesis: A Modification of Gomori's Stain for the Demonstration of Beta Granules in the Islets of Langerhans.

Lorel A. Stapley, Phoenix, Ariz.

B.S. '43, M.D. '46, Northwestern University. Major: Pathology. Minor: Clinical Pathology. Thesis: Comedo Carcinoma of the Breast.

## Master of Science in Pediatrics

Arnold Severen Anderson, Minneapolis

B.A. '39, St. Olaf College; M.D. '44, University of Minnesota. Major: Pediatrics. Minor: Pathology. Thesis: Microscopic Findings in the Pancreases of Infants Born of Diabetic Mothers.

Joseph Bowman Seagle, Indianapolis, Ind.

B.A. '44, M.D. '47, Indiana University. Major: Pediatrics. Minor: Experimental Medicine. Thesis: Immunologic Studies of Certain Agents Against Experimental Tuberculosis.

## Master of Science in Plastic Surgery

Hugh Albert Johnson, Rochester

B.S. '39, M.D. '44, Northwestern University. Major: Plastic Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of the Mandibular Gingiva.

James Knowles Masson, Rochester

B.A. '40, Carleton College; M.D. '43, University of Rochester. Major: Plastic Surgery. Minor: Surgical Pathology. Thesis: Adamantinoma of the Jaws: A Clinicopathologic Study of 93 Histologically Proven Cases.

## Master of Science in Radiology

**Joseph Jorgens, Minneapolis**  
B.S. '41, M.D. '44, University of Minnesota.  
Major: Radiology. Minor: Physiological Hygiene. Thesis: The Relationship Between Physiological Variables and Certain Cardiac Measurements.

**Dale Bryan Parshall, South Bend, Ind.**  
M.D. '44, University of Michigan. Major: Radiology. Minor: Pathology. Thesis: Studies of the Growth of Transplanted Mouse Adenocarcinoma as Affected by Peripheral Irradiation of the Tumor Bed.

**Harvey William Stone, Minneapolis**  
B.S. '43, M.D. '45, University of Minnesota.  
Major: Radiology. Minor: Pathology. Thesis: The Effect of Pre-Irradiation of the Tumor Bed on the Transplantation of Tumors in Mice.

## Master of Science in Surgery

**John Chesney Carlisle, Bucyrus, Ohio**  
B.A. '42, Oberlin College; M.D. '45, Harvard University. Major: Surgery. Minor: Surgical Pathology. Thesis: Squamous Cell Bronchogenic Carcinoma.

**Harold Robert Stowe, Council Bluffs, Iowa**  
M.D. '41, University of Nebraska. Major: Surgery. Minor: Surgical Pathology. Thesis: A Histo-Pathological Study of the Gastric Mucosa in Cases of Malignant Polyposis.

**John Joseph Muller, Hingham, Mont.**  
B.S. with honors '42, Montana State College; M.D. '46, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: A Study of Systematic Reoperation for Patients with Cancers of the Gastrointestinal Tract with Metastases After Operation for Cure.

**Edward Albert Swift, Syracuse, N.Y.**  
B.A. '40, M.D. '43, Syracuse University. Major: Surgery. Minor: Surgical Pathology. Thesis: A Study of Repair of Tracheal Defects.

## Master of Science in Urology

**Kenneth Owen Ghormley, Seattle, Wash.**  
B.A. '43, Whitman College; M.D. '46, Harvard University. Major: Urology. Minor: Surgical Pathology. Thesis: Etiologic Factors in Chronic Prostatitis.

**Edward Joseph O'Shaughnessy, St. Louis, Mo.**  
B.S. '42, College of Holy Cross; M.D. '45, University of St. Louis. Major: Urology. Minor: Surgical Pathology. Thesis: Clinical and Pathologic Study of Hypernephroma with Reference to Fever and Increased Sedimentation Rate.

**Jay Rhodes Longley, Corona Del Mar, Calif.**  
B.A. '42, Carleton College; M.D. '46, George Washington University. Major: Urology. Minor: Surgical Pathology. Thesis: Sarcoma of the Prostate and Urinary Bladder.

**Milton Paul Reiser, Newton, Mass.**  
B.S. cum laude '42, University of Vermont; M.D. '48, University of Michigan. Major: Urology. Minor: Pathology. Thesis: Wilms' Tumor.

**Richard Eugene Wineland, Findlay, Ohio**  
B.A. '43, M.D. '46, University of Michigan. Major: Urology. Minor: Surgical Pathology. Thesis: Primary Carcinoma of the Female Urethra.

## Doctor of Philosophy

Willard Ross Allen, Brandon,  
Manitoba, Canada

B.S.A. '36, M.Sc. '39, University of Manitoba. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: The Oxygen Uptake of Muscle Homogenates from Several Insects in the Presence of Added Succinate, Cytochrome C and Phosphate. Major Adviser: Prof. A. G. Richards.

Mary Roberdeau Anderson, Scarsdale,  
N.Y.

B.A. '41, The Saint Lawrence University; M.A. '42, Teachers College, Columbia University. Major: Educational Psychology. Minor: Education. Thesis: A Descriptive Study of Values and Interests of Four Groups of Graduate Women at the University of Minnesota. Major Adviser: Prof. C. G. Wrenn.

David S. Brody, Minneapolis

B.S. with distinction '32, M.A. '36, University of Minnesota. Major: Child Welfare. Minor: Educational Psychology. Thesis: Developmental Factors Affecting Sociality Traits and Work Habits Among College Women. Major Adviser: Prof. J. E. Anderson.

George Tyson Edds, Fort Dodge,  
Iowa

B.S. '36, D.V.M. '36, M.S. '38, Texas Agricultural and Mechanical College. Major: Pharmacology. Minor: Veterinary Medicine. Thesis: Effect of Certain Drugs Alone and in Combination on Micrococci Isolated from the Bovine Udder. Major Adviser: Dr. R. N. Bieter.

David Charles England, Bremerton,  
Wash.

B.S. with distinction '49, State College of Washington; M.S. '50, University of Minnesota. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: Crossbreeding in Swine. Major Adviser: Prof. L. M. Winters.

Lindsey Richard Harmon, Minne-  
apolis

B.A. *cum laude* '35, M.S. in Psychometrics '38, University of Minnesota. Major: Psychology. Minors: Educational Psychology and Biostatistics. Thesis: Inter-Relations of Patterns on the Kuder Preference Record and the Minnesota Multiphasic Personality Inventory. Major Advisers: Profs. D. G. Paterson and P. E. Meehl.

Jurgen Michael Honig, Minneapolis

B.A. '45, Amherst College. Major: Physical Chemistry. Minor: Physics. Thesis: The Adsorption of  $\text{NO}_2$ ,  $\text{N}_2\text{O}_4$  and of  $\text{N}_2$  on Rutile Surfaces. Major Adviser: Prof. L. H. Reyerson.

Chao-Pe Jen, Nanking, China

B.S. '41, National Central University (China); M.S. in C.E. '47, University of Pennsylvania; M.S. in C.E. '50, University of Minnesota. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: The Elastic and Structural Properties of Asbestos-Cement. Major Adviser: Prof. Paul Andersen.

Thorkil Jensen, Stillwater

B.A. *magna cum laude* '41, Gustavus Adolphus College; M.S. '49, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: The Life Cycle of the Fish *Acanthocephalan, Pomphorhynchus bulbocollis* (Linkins) Van Cleave 1919, with Some Observations on Larval Development *in vitro*. Major Adviser: Prof. F. G. Wallace.

William Alexander Johnson, Vidalia,  
La.

B.S. '43, M.S. '48, Louisiana State University. Major: Poultry Husbandry. Minor: Animal Husbandry. Thesis: A Study of the Performance of Inbred Line Crosses in the Domestic Fowl. Major Adviser: Prof. R. N. Shoffner.

Myron Leo Kennedy, St. Cloud

B.S. '46, St. Cloud State Teachers College; M.A. '48, University of Minnesota. Major: History. Minor: Greek. Thesis: The Reign of Emperor Probus, 276-282 A.D. Major Adviser: Prof. T. B. Jones.

Stanley Frederick Krause, Scott City,  
Kan.

B.A. '49, University of Denver; M.S. '50, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Marketing and Pricing of Minnesota Creamery Butter. Major Adviser: Prof. E. F. Koller.

Harold Eugene Mitzel, Wichita, Kan.

B.A. *magna cum laude* '43, University of Wichita; M.A. '50, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Interest Factors Predictive of Teachers' Rapport with Pupils. Major Adviser: Prof. W. W. Cook.

**Edwin Francis Morello, Joliet, Ill.**

B.S. '48, University of Illinois. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Reaction of  $\alpha$ -Haloketones with Amines. Major Adviser: Prof. W. E. Parham.

**Howard Arthur Morris, Logan, Utah**

B.S. '41, Utah State Agricultural College; M.S. '49, University of Minnesota. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: Some Characteristics of the Lipase System of *Penicillium roqueforti*. Major Adviser: Prof. J. J. Jezeski.

**James Algert Peterson, Maywood, Ill.**

B.S. *magna cum laude* '48, St. Louis University; M.S. '49, University of Minnesota. Major: Geology (Subsurface Stratigraphy). Minors: Geology (Petrography) and Biostatistics. Thesis: Stratigraphy and Micropaleontology of the Sundance Group, Eastern Wyoming. Major Adviser: Prof. F. M. Swain.

**Martin Quanbeck, Minneapolis**

B.A. '29, Augsburg College; M.A. '33, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of Teacher Education in the Lutheran Colleges of Minnesota, Based on a Follow-up of Graduates. Major Adviser: Prof. Ruth Eckert.

**Woodrow Wilson Simmons, Hammond, La.**

B.S. '39, M.S. '48, Louisiana State University. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: A Genealogical Analysis of the Holstein-Friesian Dairy Herd at Louisiana State University. Major Adviser: Prof. M. C. Hervey.

**Glenn Zebulon Stevens, State College, Pa.**

B.S. with honors '32, M.S. '35, Pennsylvania State College. Major: Education. Minor: Sociology. Thesis: Factors Involved in the Selection of Supervising Teachers of Vocational Agriculture in Minnesota. Major Adviser: Prof. M. J. Peterson.

**Carl Henry Stoltenberg, Paso Robles, Calif.**

B.S. '48, M.F. '49, University of California. Major: Agricultural Economics. Minor: Forestry. Thesis: Progress in Rural Zoning in Northeastern Minnesota. Major Adviser: Prof. O. B. Jesness.

## Doctor of Philosophy in Physiology

**Nicholas Carr Hightower, Jr.,  
Texarkana, Tex.**

B.S. '42, North Texas State Teachers College; M.D. '44, University of Texas; M.S. in Medicine '49, University of Minnesota. Major: Physiology. Minor: Medicine. Thesis: The Registration of Gastro-Intestinal Intraluminal Pressures in Man: The Comparison of a Balloon Method and a Direct-Pressure Measuring Method of Recording. Major Adviser: Dr. C. F. Code.

# CAPS AND GOWNS

## AN EXPLANATION

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

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

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

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

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

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

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

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

(In the order of 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, Home Economics, and Veterinary Medicine .....	maize
College of Education.....	light blue
School of Business Administration.....	drab
School of Dentistry.....	lilac
College of Medical Sciences.....	green
Graduate School.....	black



THE  
UNIVERSITY OF MINNESOTA

Announces Its

*August Commencement*

*1952*

ON THE MALL FACING  
NORTHROP MEMORIAL AUDITORIUM  
THURSDAY EVENING, AUGUST 28  
AT EIGHT O'CLOCK



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable J. S. Jones, St. Paul

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

The Honorable Sheldon V. Wood, Minneapolis

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#### SMOKING

As a courtesy to those attending functions and out of respect for the character of the event, it is requested that there be no smoking in the audience at this commencement.

## *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 first birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 110,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

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

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

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

The people of Minnesota are proud of their University, not only because it is one of the greatest 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 new Variety Club Heart Hospital to be dedicated and for the great Mayo Memorial building to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research fellowship 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, J. Frederic Goossen, M.A. '50, 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. Jack Fisher, S.M.M., Organist-Choirmaster of St. Clement's Episcopal Church, St. Paul, will play:

Concerto in G Major - - - - - Vivaldi-Bach  
 Allegro  
 Adagio  
 Vivace

Chorale-Prelude: "Now Thank We All Our God" - - - - - Bach  
 Scherzo, from Symphony No. 2 - - - - - Vierne  
 Fanfare - - - - - Sowerby

**PROCESSIONAL:** Rigaudon - - - - - Campra

**PROCESSIONAL:** Candidates for degrees will enter the Mall at 8:00 p.m. Seated on the platform, left to right, are: Dr. Raymond G. Price, Professor of Education, Marshal; Dr. Joseph C. Olson, Associate Professor of Dairy Bacteriology, Marshal; Dr. Howard L. Horns, Assistant Dean of the College of Medical Sciences; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. Clyde H. Bailey, Dean of the Department of Agriculture; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Commander Walter J. McGuire, USN, Associate Professor of Naval Science; The Reverend Wilbur Grose, Director, Wesley Foundation; Mr. Ellsworth Gerritz, Admissions Supervisor, Admissions and Records; Mr. Thomas A. H. Teeter, Dean of the Summer Session; Dr. Malcolm M. Willey, Vice President, Academic Administration; Mr. Joseph F. Smith, Chairman of the Department of Speech, University of Hawaii; The Honorable George W. Lawson, Second Vice President, Board of Regents; The Honorable A. J. Olson, Member, Board of Regents; the Honorable Lester A. Malkerson, Member, Board of Regents; Major Walter H. Grierson, USAF, Assistant Professor of Air Science and Tactics; Dr. Horace T. Morse, Dean of the General College; Mr. Elmer W. Johnson, Assistant Dean of the Institute of Technology; Dr. Walter W. Cook, Dean of the College of Education; Professor Leon M. Liddell, Associate Professor, Law School; Dr. William H. Crawford, Dean of the School of Dentistry; Dr. Theodore C. Blegen, Dean of the Graduate School; Mr. Roy A. Schuessler, Associate Professor of Music; Dr. Robert Beck, Professor of Education, 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 Mall, the audience will rise.

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

**INVOCATION:** The Reverend Wilbur Grose, Director, Wesley Foundation, and Adviser to Methodist Students on the St. Paul Campus of the University.

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

**COMMENCEMENT ADDRESS:** "Ours, the Truth to Tell," Professor Joseph F. Smith, Chairman of the Department of Speech, University of Hawaii.

**CONFERRING OF COMMISSIONS:** Dean Thomas A. H. Teeter, Dean of the Summer Session, will introduce Commander Walter J. McGuire, USN, Associate Professor of Naval Science, who will present the candidates for commissions in the United States Navy, and the United States Air Force. The commissions will be presented by Vice President Willey; the oath of office will be administered by Major Walter H. Grierson, Assistant Professor of Air Science and Tactics.

**CONFERRING OF DEGREES:** Dean Thomas A. H. Teeter, B.S., Summer Session, will introduce the several deans or their representatives, who will present the candidates for degrees in their respective colleges. These, in order of their introduction, are: Dean Horace T. Morse, Ph.D., General College; Dean Errett W. McDiarmid, College of Science, Literature, and the Arts; Assistant Dean Elmer W. Johnson, E.E., M.E., Institute of Technology; Dean Clyde H. Bailey, Department of Agriculture, for the College of Agriculture, Forestry, Home Economics, and Veterinary Medicine; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Professor Leon M. Liddell, Associate Professor, Law School; Dean William H. Crawford, D.D.S., School of Dentistry; Assistant Dean Howard L. Horns, M.D., College of Medical Sciences; Dean Theodore C. Blegen, Ph.D., Graduate School. All degrees will be conferred by Vice President Willey. Immediately afterwards, certificates and diplomas will be presented by each dean to the graduates of his college.

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

## *Order of Events*

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

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

RECESSIONAL: Mr. Jack Fisher, organist.

Trumpet Voluntary - - - - - Purcell

## *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 AIR SCIENCE AND TACTICS

#### Second Lieutenant, USAFR

Howard A. Fischbein, Minneapolis	James D. Kaercher, Ortonville
Raymond R. Galarneault, St. Cloud	Harold B. Kaiser, Minneapolis
Robert E. Hayes, Duluth	Lester Jens Nypan, Minneapolis

### DEPARTMENT OF NAVAL SCIENCE

#### Ensign, USN

Emery Jay Rinzel, Milwaukee, Wis.

#### Ensign, SC, USN

Raymond George Maier, Minneapolis	William Bryan Torp, Minneapolis
Allyn Edward Rowley, Rockford, Ill.	

#### Ensign, SCS, USNR

Clarence George Hagman, Minneapolis	Mark Zera Jones II, Minneapolis
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#### Second Lieutenant, USMC

Richard Eugene Johnson, Jr., Cleveland, Ohio

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## *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

Allen Lawrence Freeman, St. Paul	Walter S. Warfield, Minneapolis
John Allen Scott, Minneapolis	

# COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

## Associate in Liberal Arts

Simajcan Berman, Minneapolis  
John Edward Davis, Minneapolis  
Richard Bruce Hancock, Minneapolis

Beverly Wexler Himmelman, Minneapolis  
Mary Ellen Horning, Minneapolis  
James Emil Klima, Cedar Rapids, Iowa

## Bachelor of Arts

Curtis James Anderson, Minneapolis  
Karen Bane, A.S., Virginia, MAGNA  
CUM LAUDE  
Frederick Arthur Bromley, Northfield  
Bancroft Morgan Brooks, St. Paul  
Dean Curtis Carpenter, A.A.,  
Windom  
Melvin Wallace Charles, Minneapolis  
Constance L. Chivers, Minneapolis  
Bert William Clark, A.A., Minne-  
apolis  
Neita Countryman, St. Paul  
John Edward Creighton, Minneapolis  
Ruth Ina Doyne, Minneapolis  
Robert Lloyd Erickson, Minneapolis,  
MAGNA CUM LAUDE  
Keith Gabriel Felcyn, Fairmont  
Gerald Howard Fink, Minneapolis  
Bruce August Flatin, A.L.A., St. Louis  
Park, MAGNA CUM LAUDE  
Raymond Kyle Frelsen, Minneapolis  
Douglas Emerson Fruen, A.A.,  
Minneapolis  
Raymond Roger Galarneault,  
St. Cloud  
Stuart Bruce Gordon, Minneapolis  
Lars Magnus Gullhagen, Gjøvik,  
Norway  
Dorothy Kristine Hagen, St. Paul,  
CUM LAUDE  
Carl Edward Adolph Hallberg,  
Minneapolis  
Joan Schlieper Hamilton, A.L.A.,  
St. Paul  
Benjamin Harold Handleman, Minne-  
apolis, CUM LAUDE  
Robert Edward Hayes, Duluth  
King Eugene Jobson, St. Paul  
Mark Zera Jones II, Minneapolis

James David Kaercher, Ortonville  
Nancy Marie Kendall, A.A., Rochester  
Jay A. Land, Minneapolis  
Everett Raymond Lensink, Rushford,  
CUM LAUDE  
Wallace Otto Lilja, Minneapolis  
Gordon Blaikie MacKay, A.A.,  
St. Paul  
Carl Phillip Malmquist, St. Paul,  
SUMMA CUM LAUDE  
Marcia Lou Mangney, Minneapolis  
Eva Rosemary Mannie, Minneapolis  
Eugene Victor Martz, Brainerd  
Richard Paul Mathison, Eau Claire,  
Wis., CUM LAUDE  
Phillip Henry Meyers, Minneapolis  
Darwin Harold Mueller, Hazen, N.D.  
Burt William Nelson, Minneapolis,  
MAGNA CUM LAUDE  
Eugene Robert Nielson, Minneapolis  
Allan Donald Orman, Minneapolis  
Edward James Parker, Minneapolis,  
CUM LAUDE  
Ralph Arnold Paulson, Minneapolis  
William Dean Petersen, Minneapolis  
Paul Arthur Radde, Minneapolis  
George Robert Rapp, Jr., Duluth  
Carlton William Ray, Sioux Falls,  
S.D.  
Gordon Olfert Rholl, Northwood,  
N.D.  
Mary Louise Sauer, Royalton  
Milton Dwayne Schantzen, Minne-  
apolis  
Mildred Diane Sovil, Hibbing  
Arthur Bruce Sundberg, Jr., Minne-  
apolis, CUM LAUDE  
Dorothy Anne Thomayer, Minne-  
apolis

James Richard Tonsager, Minneapolis, CUM LAUDE  
Jesus U. Torres, Santa Rita, Guam  
Harry James Tschohl, Jr., B.S.L., Minneapolis  
Forrest Leslie Vance, Chicago, Ill., CUM LAUDE  
Irma Jane Wahlberg, Minneapolis

Peter Warburton McLean, Virginia, CUM LAUDE  
Patrick Allen Winkler, Bowls  
Rita Zumwalt Wright, A.A., St. Paul  
John Robert Young, Minneapolis  
Robert Orville Young, Jr., Minneapolis

## Bachelor of Science

Jocelyn Dawn Ronning, Kenyon

## Bachelor of Science in Library Science

Ellen Louise Adams, B.A., M.A., Corvuso

Cho Hsin Chin, B.A., Peiking, China  
Edward Power Thatcher, B.A., M.A., Swarthmore, Pa.

## INSTITUTE OF TECHNOLOGY

### Bachelor of Science

Robert Dean Jensvold, Minneapolis, WITH HIGH DISTINCTION  
Eldon Nerheim, Minneapolis, WITH DISTINCTION

James Christian Ray, St. Paul, WITH DISTINCTION  
Robert Nelson Remund, Minneapolis, WITH DISTINCTION

### Bachelor of Civil Engineering

Blaine Byers Barker, Jr., Cambridge  
Theodore Wickliffe Litchfield, Cherry Grove, Oregon  
Thomas Lee Meagher, Minneapolis

James Christian Ray, St. Paul, WITH DISTINCTION  
Earl Lyman Sack, Minneapolis  
Allen William Town, St. Cloud

### Bachelor of Electrical Engineering

Robert Dean Jensvold, Minneapolis, WITH HIGH DISTINCTION  
Eldon Nerheim, Minneapolis, WITH DISTINCTION

Ordell Jay Sundry, St. Paul  
Arthur Russel Tonn, Minneapolis

### Bachelor of Mechanical Engineering

James E. Marquardt, Rochester

Stewart L. Segerstrom, Minneapolis

### Bachelor of Metallurgical Engineering

William Vernon Wenger, St. Paul

## Bachelor of Physics

Robert William Deming, Plainview

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

### Bachelor of Science

Dayton Nathaniel Barker, Robbinsdale, Forestry	James Francis Groebner, Waseca, Fishery and Wildlife Management
Doris Evelyn Constenius, Cokato, Home Economics, WITH DISTINCTION	Ray L. Johnson, Roseau, Agriculture
Ann C. Green, Minneapolis, Home Economics	Arlene Johnson Schulz, Minneapolis, Home Economics
	Lauretta Adamek Wallin, Staples, Home Economics

## COLLEGE OF EDUCATION

### Bachelor of Science

Louise Anderson, Minneapolis	Genevieve Johnson, Clinton, Iowa, WITH DISTINCTION
Elizabeth Jean Barnett, B.A., White Hall, Ill.	Patricia Ann Kelly, Minneapolis
Bernice E. Bjuge, Minneapolis	Gerald Mitchell Kenyon, A.A., Minneapolis
Donald John Bodin, Duluth	Amy Kathryne Lang, Aurora
Barbara Jean Carrier, Minneapolis	Lyle Leslie Lehner, Minneapolis, WITH DISTINCTION
Arnold LaVerne Christianson, Carlos	Susan Hedback Lindberg, Minneapolis
Robert Marc Cleworth, Aberdeen, S.D.	Raymond George Maier, Minneapolis
Mabel Alice David, Red Wing	Alice Marsden, Fall River, Mass., WITH DISTINCTION*
Rosamond Dorothy Dols, Carver, WITH DISTINCTION	Elwood George Marvin, St. Cloud
Virginia Dorothy Erickson, St. Paul, WITH DISTINCTION	Ruth Anfinson Mieske, Minneapolis, WITH DISTINCTION
Rene Adell Fenne, Kenyon	Martha Carolyn Murphy, Fairhope, Ala., WITH DISTINCTION
Margaret Monica Fink, Minneapolis*	Jeanne Wieriman Neittamo, St. Paul
Mabel Helen Fowlds, Palisade	Ella May Boyd Nelson, St. Paul
Frances Ada Gible, Astoria, Ill., WITH DISTINCTION*	Jean Niles Newstrom, B.A., Minneapolis
Mary Lou Grant, Stillwater	Jack Ellsworth Newton, Minneapolis, WITH DISTINCTION
Leo J. Griffin, Jr., Marlette, Mich.	Eleanor Elizabeth Nordley, Minneapolis, WITH DISTINCTION
Maude Amberg Hardy, Minneapolis, WITH DISTINCTION	Aune Raiskio, Aurora
William Eugene Hauser, Minneapolis, WITH DISTINCTION	
Frank Ellis Johnson, St. Cloud, WITH DISTINCTION	

\* Nursing Education Curriculum.

Leland Stanford Renz, Minneapolis  
 Adeline Nora Schmidt, B.F.A.,  
 Hawley  
 Walter LeRoy Scott, St. Paul, WITH  
 DISTINCTION  
 Rosella Mae Skalicky, Mahnomen\*  
 Edward Stanley Soltys, Minneapolis,  
 WITH DISTINCTION  
 Robert Owen Sweeney, Shakopee,  
 WITH HIGH DISTINCTION

William Bryan Torp, Minneapolis,  
 WITH HIGH DISTINCTION  
 Frances Allen Upson, B.A., Minne-  
 apolis  
 Jantine Barrie Vanderwal, Muskegon,  
 Mich., WITH DISTINCTION\*  
 Norman William Welch, St. Paul  
 Helen Ann Wilson, A.A., St. Paul  
 Betty Mae Wright, Sebeka\*

## Bachelor of Science in Library Science

Richard Christian Bauer, B.S., St. Paul  
 Ramona Janet Durbin, B.S., North  
 St. Paul

## Master of Education

Gordon William Addington, B.S.,  
 Winona  
 William George Boyce, B.S., Worth-  
 ington  
 Robert Theodore Close, B.S.,  
 St. Louis Park  
 Douglas Fairbanks Evans, B.S., Sioux  
 Falls, S.D.  
 Donna Mae Kaplan, A.A., B.F.A.,  
 B.S., Minneapolis  
 Melhior Francis Kumsha, B.S.,  
 Virginia  
 Donald Dean Lindley, B.A.,  
 Topeka, Kan.  
 Morris Gordene Ness, B.A.,  
 New Ulm  
 Kenneth LeRoy Pinckney, B.E.,  
 Little Falls  
 Allen Sidney Ronning, B.S.,  
 Hendricks  
 William Harold Wappes, B.S., Wil-  
 liston, N.D.

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

### Bachelor of Science

Eleanor Joan Helmstadter, St. Paul

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Stuart Albert Anderson, Minneapolis,  
 WITH HIGH DISTINCTION  
 Lyle Willis Baker, St. Paul  
 Robert William Beaupre, Faribault,  
 WITH HIGH DISTINCTION  
 Irving Orlester Berg, Rochester  
 Howard Alan Fischbein, Minneapolis  
 Donald Jackson Fraley, Minneapolis  
 Russell Leif Gilstad, Minneapolis  
 William Arthur Hagg, Minneapolis  
 Roger Eugene Jensen, Albert Lea  
 Edward Joe Kocourek, Martin, S.D.

\* Nursing Education Curriculum.



David T. Long, B.A., Roxboro, N.C.  
Deane Douglas Nelson, B.S.L., Min-  
neapolis  
Floyd Lavern Nelson, Minneapolis  
Marvin Martin Olson, Fargo, N.D.  
Gale Webster Rablin, Minneapolis  
Emery Jay Rinzel, Milwaukee, Wis.

Allyn Edward Rowley, Rockford, Ill.  
Edwin Charles Sanford, Minneapolis  
Warren Bernard Thompson, Min-  
neapolis  
Quentin F. Wessman, Minneapolis,  
WITH DISTINCTION  
Warren Milton West, Winnebago

## LAW SCHOOL

### Bachelor of Science in Law

†Harold Keith Bradford, Jr., Minne-  
apolis

Robert Lloyd Erickson, Minneapolis  
George Edmund Wilson, Wayzata

### Bachelor of Laws

Harris Banks Halverson, B.S.L.,  
Minneapolis  
Adrian Blake MacDonald, B.S.L.,  
Duluth  
John Alan Muirhead, B.B.A., Minne-  
apolis  
Deane Douglas Nelson, B.S.L.,  
Minneapolis

Victor Everett Selvig, B.S.L., Min-  
neapolis  
James David Simpson, B.S.L., Minne-  
apolis  
Willis Franklin Street, B.S.L., St. Paul  
Wayne Alan Wentworth, B.S.L.,  
Minneapolis

## SCHOOL OF DENTISTRY

### Bachelor of Science

†Gordon Reinhart Struck, A.L.A., B.A., St. Paul

## COLLEGE OF MEDICAL SCIENCES

### Graduate in Nursing\*

Marian Elaine Jarvey, Eveleth

### Bachelor of Science in Professional Nursing\*

Alice Josephine Arnold, West Lafay-  
ette, Ind.  
Verona Margaret Keith, Duluth  
Nancy Annette Lathe, Lyndon, Ill.  
Janice Lyle McGladrey, Cloquet  
Pearl Olson Nachtigal, Academy, S.D.  
Marguerite Ann Pertl, Minneapolis

Gloria Tow Ruschmeyer, A.L.A.,  
St. Paul  
Beverly Ann Schmitt, Sioux City,  
Iowa  
Eunice Albright Stewart, B.A., St. Paul  
Frances Mary Sullivan, St. Paul  
Dotty Ann Wiechman, Brewster

\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 18, 1952.

† Degree conferred as of June 14, 1952.

## Bachelor of Science

Alice Myrtle Dempsey, Jamaica Plain, Mass., Public Health Nursing, WITH DISTINCTION

Valois Jean Field, Joice, Iowa, Public Health Nursing, WITH HIGH DISTINCTION

Marian Elaine Jarvey, Eveleth, Public Health Nursing

Morris Ralph Katkov, B.A., St. Paul, Medicine

Marcia Anne Kepler, Rochester, Occupational Therapy, WITH HIGH DISTINCTION

Gay Kohlhoff, Beaverton, Ore., Public Health Nursing

Maybelle Josephine Lee, St. Paul, Public Health Nursing

Myrtle Alice Olson, Galesville, Wis., Public Health Nursing, WITH DISTINCTION

Florence Isabelle Telfer, Morris, Ill., Public Health Nursing

Catherine Nicholson Zellmer, Minneapolis, Public Health Nursing, WITH DISTINCTION

## Master of Nursing Administration

Helen Stone Gould, B.S., Excelsior  
Marie Laura Guenther, B.S., Minneapolis

Grace Geraldine Peterson, B.S., Cleveland, Ohio

Camilla Rebecca Schloemer, B.S., West Bend, Wis.

## Master of Public Health

Addie Lucille Coleman, B.S., Hazlehurst, Miss.

Edward John Dvorak, B.S., M.Ed., St. Paul

Helen Rose Holmes, B.S., Oak Park, Ill.

## GRADUATE SCHOOL

### Master of Arts

LeRoy William Abramson, Benson  
B.S. '46, Superior State Teachers College. Field of Concentration: Educational Administration.

Arls Leone Anderson, Albert City, Iowa

B.S. '48, Drake University. Field of Concentration: Curriculum and Instruction.

Donald Paul Anderson, Raymond  
B.S. '51, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

Dorothy Louise Anderson, Minneapolis

B.S. '37, Aberdeen Northern Normal and Industrial School. Field of Concentration: Curriculum and Instruction.

Gene J. Anderson, Willmar  
B.S. '51, St. Cloud State Teachers College. Field of Concentration: Industrial Education.

Myrtle Caroline Anderson, Carlos  
B.S. '42, St. Cloud State Teachers College. Field of Concentration: History.

Richard Parker Ashley, Winona  
B.S. '48, University of Minnesota. Field of Concentration: Educational Psychology.

Orville John Austin, Moorhead  
B.S. '48, Moorhead State Teachers College. Field of Concentration: Education.

Glen Earl Baxter, Minneapolis

B.A. *magna cum laude* '51, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Examples in the Theory of Hilbert Space.

Robert Clayton Becker, Welcome

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

Viola Frieda Bergquist, Minneapolis

B.S. '46, University of Minnesota. Field of Concentration: Curriculum and Instruction.

William Robert Bergstrom, Minneapolis

B.A. *magna cum laude* '50, University of Minnesota. Field of Concentration: English.

Vivian Lucille Bernard, Coeur d'Alene, Idaho

B.A. '43, Eastern Washington College of Education. Major: Physical Education. Minor: Child Welfare. Thesis: An Evaluation of the Curriculum for Physical Education Women Majors at the University of Minnesota.

Harriet R. Bestul, Minneapolis

B.A. '31, Concordia College. Field of Concentration: Curriculum and Instruction.

Donald Francis Birdsell, Postville, Iowa

B.A. '49, Luther College. Field of Concentration: Educational Administration.

Frederick Louis Brown, Black River Falls, Wis.

B.S. '48, Eau Claire State Teachers College. Field of Concentration: Curriculum and Instruction.

Olaph Arnold Brunsvold, Mason City, Iowa

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

Ruth E. Buehler, Red Oak, Iowa

B.A. '41, Iowa State Teachers College. Field of Concentration: Curriculum and Instruction.

John Warner Carlson, Farmington

B.S. '47, Winona State Teachers College. Field of Concentration: Industrial Education.

Mildred Arlene Carlson, Minneapolis

B.S. '47, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Stanford Thomas Carlson, Willmar

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

Al Joseph Ciernia, Longville

B.S. '39, University of Minnesota. Field of Concentration: Educational Administration.

Bernard P. Cohen, Huntington, N.Y.

B.A. *magna cum laude* '51, Harvard College. Major: Psychology. Minor: Sociology. Thesis: The Use of Factual Arguments as a Means of Exerting Influence in Small Groups.

Gerald Wilbur Cox, Minneapolis

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

Marion Cronin Crowley, Gettysburg, S.D.

B.S. '25, University of Nebraska. Field of Concentration: Curriculum and Instruction.

Lawrence G. Cuba, Chattanooga, Tenn.

B.E. '38, Western Illinois State Teachers College. Field of Concentration: Industrial Education.

William Maynard Curran, Minneapolis

B.E. '34, Mankato State Teachers College. Field of Concentration: Industrial Education.

Lorin Orlando Dahlager, Belgrade

B.A. '39, Augsburg College. Field of Concentration: Educational Administration.

Marvin Sheldon Dahlman, Winnebago

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

Harold Karelius Dainsberg, Delano

B.A. '46, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Glenn Carlyle Dawes, Winona

B.A. '46, University of Kansas. Field of Concentration: Educational Administration.

Arthur Nobuo Doi, Minneapolis

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

Cecelia Margaret Eischens, New

Prague  
B.S. '41, Mankato State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Earl Ruben Engan, Fergus Falls

B.A. '37, Augsburg College. Field of Con-  
centration: Curriculum and Instruction.

Marjorie Jean Engelbrecht, South  
Sioux City, Neb.

B.A. '39, Midland College. Field of Concen-  
tration: Educational Psychology.

William Lerton Erickson, Great Falls,  
Mont.

B.S. '48, Montana State College. Field of  
Concentration: Educational Psychology.

May A. Fagerland, Waukesha, Wis.

B.E. '31, Eau Claire State Teachers College.  
Field of Concentration: Educational Psy-  
chology.

Cyril Maurice Franks, London, Eng-  
land

B.S. '43, University of Wales; Graduate '51,  
University of London. Major: Child Welfare.  
Minor: Psychology. Thesis: A Statistical An-  
alysis of the Influences of Age, Sex, and In-  
telligence upon the Way Children Complete  
Sentences.

Agnes Margaret Gallagher, Duluth

B.S. '40, Duluth State Teachers College. Field  
of Concentration: Curriculum and Instruction.

Olive Irene Gjermundboe, Minne-  
apolis

B.S. '43, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Donald Martin Gugisberg, St. Paul

B.A. '49, Hamline University. Field of Con-  
centration: Educational Administration.

Donald George Gurnoe, Vallejo,  
Calif.

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

Roy William Haglund, Superior, Wis.

B.S. '48, Superior State Teachers College.  
Field of Concentration: Educational Admin-  
istration.

Robert Chester Hall, Grand Rapids

B.S. with distinction '47, University of Min-  
nesota. Field of Concentration: Educational  
Administration.

Gordon H. Harmeyer, St. Peter

B.A. '47, Gustavus Adolphus College. Field  
of Concentration: Curriculum and Instruction.

Lois Ardelle Harper, Carleton

B.S. cum laude '49, University of Minnesota.  
Major: Physical Education. Minor: Educational  
Psychology. Thesis: The Class and School  
Physical Activity Program for Crippled Chil-  
dren in Minnesota.

Frances Bernice Heberlee, Deerwood

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

John Charles Hogan, St. Paul

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

Bertha Marie Hohle, Grygla

B.S. '49, Vanderbilt University. Field of Con-  
centration: Journalism.

Donald Roger Holmen, Upsala

B.S. with high distinction '49, University of  
Minnesota. Field of Concentration: Educa-  
tional Psychology.

Harold Hughesdon, St. Paul

B.S. cum laude '48, College of St. Thomas.  
Major: Library Science. Minor: Education.  
Thesis: A Survey of the Acquisitions Proceed-  
ures in Minnesota College Libraries.

Raymond Charles Hultner, Beloit,  
Wis.

B.E. '36, Superior State Teachers College.  
Field of Concentration: Industrial Education.

Vernon Earle Indehar, St. Paul

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

Elmer Roy John, St. Paul

B.A. cum laude '45, University of Minnesota.  
Field of Concentration: Psychology.

Earl Samuel Johnson, St. Paul

B.A. '49, Hamline University. Field of Con-  
centration: Physical Education.

Walter Heinrich Johnson, Minne-  
apolis

B.A. magna cum laude '50, University of Min-  
nesota. Major: Physics. Minor: Mathematics  
and Mechanics. Thesis: The Masses of the  
Triple Isobars at Mass 40 and Mass 50.

Adelaide Deason Johnston, Minneapolis

B.A. '24, B.S. '25, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Norma Louise Jones, Poplar, Wis.

B.E. '38, Superior State Teachers College. Major: Library Science. Minor: English. Thesis: A Survey and Analysis of the Extent to Which Junior and Senior High School Pupils Read the Same Material.

Michael Stanley Karbo, Minneapolis

B.S. '49, College of St. Thomas. Field of Concentration: Physical Education.

William Bruce Kingkade, Minneapolis

B.A. '48, State University of Iowa. Major: Economics. Minor: Psychology. Thesis: An Evaluation of Recruitment Sources for White Collar Workers.

Donna Alexandra Kistler, St. Paul

B.A. '45, College of St. Catherine. Major: French. Minor: English. Thesis: Satire in the Fables of La Fontaine.

Marvin Klotz, New York, N.Y.

B.S. '51, Columbia University. Major: English. Minor: Philosophy. Thesis: The Concept of Unity in Ralph Waldo Emerson.

Gordon William Knaak, Owatonna

B.A. '49, St. Olaf College. Field of Concentration: Educational Administration.

Walter Alfred Kokesch, Willmar

B.S. '47, Mankato State Teachers College. Field of Concentration: Industrial Education.

Paul James Krystosek, Buhl

B.S. '35, College of St. Thomas. Field of Concentration: Educational Psychology.

John Romain Lake, Alexandria

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

Philip Arvid Langehough, Chicago, Ill.

B.A. '48, St. Olaf College. Field of Concentration: Political Science.

Geraldine Elizabeth LaRocque,

St. Cloud

B.S. with high distinction '47, University of Minnesota. Field of Concentration: Curriculum and Instruction.

George Axel Larson, St. Cloud

B.S. '51, St. Cloud State Teachers College. Field of Concentration: Industrial Education.

Harvey Albert Larson, Barrett

B.S. '48, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Sylvia Benlick Lewis, Minneapolis

B.S. '45, Northwestern University. Field of Concentration: Child Welfare.

Bernard Lenne Lindelof, Brule

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

Violet Ruth Littlefield, Sheboygan Falls, Wis.

B.S. '47, Oshkosh State Teachers College. Field of Concentration: Curriculum and Instruction.

Gordon Robert Lonning, Austin

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

Peter Louricas, White Bear Lake

B.S. '48, Gustavus Adolphus College. Field of Concentration: Physical Education.

Pauline Lucille Lyon, New London, Iowa

B.A. '41, Iowa State Teachers College. Field of Concentration: Curriculum and Instruction.

Vernon Robert Maack, Alexandria

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

Paul William Maloney, Chisholm

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

Clarence Earl Martin, Sheldon, Iowa

B.S. '41, Buena Vista College. Field of Concentration: Mathematics.

Donald Archer Martin, St. Louis Park

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

Pierre Servais Renaud Francois

Mathijssen, Leyde, The Netherlands

Master of Law '51, University of Leyden. Major: Economics. Minor: Statistics. Thesis: The Schuman Plan and the Problem of European Integration.

Donald John Mathison, Eau Claire,  
Wis.  
B.S. '49, Eau Claire State Teachers College.  
Field of Concentration: Educational Administration.

Kenneth Harlow McDonald, Cumberland, Wis.  
B.E. '36, River Falls State Teachers College.  
Field of Concentration: Educational Administration.

Roy Francis Meyer, Waconia  
B.A. '39, Hamline University. Field of Concentration: Educational Administration.

Charles Edward Meyerding, St. Paul  
B.B.A. '49, University of Minnesota. Field of Concentration: Economics.

James Patrick Murphy, Spring Valley, Wis.  
B.S. '50, River Falls State Teachers College.  
Field of Concentration: Curriculum and Instruction.

Clara Violet Nelms, Atlanta, Ga.  
B.S. '40, Georgia State College for Women;  
M.A. '48, University of Colorado. Field of Concentration: Educational Psychology.

Esther Noriega del Valle, Lima, Peru, S.A.  
Graduate '50, University of Peru. Field of Concentration: Curriculum and Instruction.

Norris Orlando Olson, Harmony  
B.S. '42, Winona State Teachers College.  
Field of Concentration: Educational Administration.

Theodore Oscar Olson, Minneapolis  
B.S. '40, University of Minnesota. Field of Concentration: Educational Psychology.

Ingval Melvin Ostreim, Minneapolis  
B.A. '46, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Madge Fent Paro, Faribault  
B.S. with highest honors '50, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.

Paul Wayne Partridge, Rocky River, Ohio  
B.S. '49, Stout Institute. Field of Concentration: Industrial Education.

Ernest Harold Pederson, Cokato  
B.A. '39, Concordia College. Field of Concentration: Educational Administration.

Mildred Evelyn Pepin, Swanville  
B.S. '40, St. Cloud State Teachers College.  
Field of Concentration: Curriculum and Instruction.

Lawrence Virden Perry, Jr., Duluth  
B.A. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Melba Grace Proske, St. Louis, Mo.  
B.A. '42, Harris Teachers College. Field of Concentration: Curriculum and Instruction.

Harold Arthur Rasmussen, Mound  
B.S. '37, Hamline University. Field of Concentration: Educational Administration.

Mary Rice, Great Falls, Mont.  
B.A. '49, Great Falls College of Education.  
Field of Concentration: English.

Father Gunther Robert Rolfson,  
O.S.B., Collegeville  
B.S. cum laude '39, St. John's University.  
Field of Concentration: Educational Psychology.

Mildred Lee Rosenberg, Brooklyn, N.Y.  
B.A. cum laude '50, Brooklyn College. Field of Concentration: French.

Theodore Robert Rottunda, Granite Falls  
B.S. '51, St. Cloud State Teachers College.  
Field of Concentration: Industrial Education.

Mabel Mary Rounseville, Maplewood, Mo.  
B.A. '20, Gustavus Adolphus College. Field of Concentration: Educational Psychology.

Margaret Olsen Rusch, Marshfield, Wis.  
B.S. '29, University of Minnesota. Field of Concentration: English.

Richard Gill Santella, Minneapolis  
B.A. '48, Macalester College. Field of Concentration: Educational Psychology.

Verlie Melicent Sather, Houston  
B.S. '42, Winona State Teachers College.  
Field of Concentration: Curriculum and Instruction.

Robert William Sawyer, Minneapolis  
B.A. '49, Wheaton College; B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Richard Thomas Scanlan, St. Paul  
B.S. with distinction '51, University of Minnesota. Field of Concentration: English.

Rodney Alden Schmidt, Minneapolis  
B.A. '47, Macalester College. Field of Concentration: Educational Administration.

John Louis Schneider, Minneapolis  
B.S. with high distinction '51, University of Minnesota. Field of Concentration: Educational Psychology.

Arnold Frederick Sexe, Worthington  
B.S. with special honors '48, Mankato State Teachers College. Field of Concentration: Educational Administration.

Richard Edward Shannon, Minneapolis  
B.A. '49, University of Minnesota. Field of Concentration: Psychology.

Sister Mary Daniel O'Neill, Duluth  
B.A. *cum laude* '43, College of St. Scholastica. Major: History. Minor: English. Thesis: A Survey and Interpretation of Slovenian Folk Culture on the Minnesota Iron Range.

Sister Mary Patrice Devaney, Minneapolis  
B.A. '42, College of St. Catherine. Field of Concentration: Curriculum and Instruction.

Lois Nyborg Smith, Brainerd  
B.A. *cum laude* '50, University of Minnesota. Field of Concentration: Psychology.

Newton Dean Smith, Jr., Rochester  
B.A. '50, Yale University. Field of Concentration: American Studies.

Doris Snodgrass, Marysville, Ohio  
B.A. '35, Oberlin College; M.S. '36, Wellesley College. Field of Concentration: Educational Psychology.

Stanley Clifford Sorensen, Mankato  
B.S. '48, University of Minnesota. Field of Concentration: Industrial Education.

Charles Fredrick Struck, Minneapolis  
B.S. '47, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Carl Leonard Swanson, Minneapolis  
B.A. *cum laude* '49, University of Minnesota. Field of Concentration: Psychology.

Marvin J. Taves, St. Paul  
B.A. *summa cum laude* '45, Hamline University. Major: Sociology. Minor: Psychology. Thesis: A Study in the Dynamics of Small Town Social Attitudes.

George Edward Vaidich, South St. Paul  
B.A. '51, College of St. Thomas. Field of Concentration: Business Administration.

Eva A. Creighton Vinton, Minneapolis  
B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Roman Francis Warmke, Easton  
B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

John Paul Weber, Elbow Lake  
B.S. '47, Minot State Teachers College. Field of Concentration: Educational Administration.

Glen Marlo Wiese, Magnolia  
B.A. *summa cum laude* '51, Macalester College. Field of Concentration: Business Administration.

Roger Edward Wilk, Clearwater, Kan.  
B.S. '50, Kansas State College. Field of Concentration: Educational Psychology.

Darle Dwight Wilson, Bremerton, Wash.  
B.S. '48, Winona State Teachers College. Field of Concentration: Music.

Lloyd Alton Wilson, Santa Barbara, Calif.  
B.S. '34, Stout Institute. Field of Concentration: Educational Psychology.

Mary Elinore Wiseman, Kendall, Wis.  
B.E. '48, Whitewater State Teachers College. Field of Concentration: Curriculum and Instruction.

Eugene Henry Wojtowicz, Minneapolis  
B.A. *cum laude* '51, College of St. Thomas. Field of Concentration: Psychology.

Robert Zack, St. Paul  
B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

## Master of Arts in Public Administration

Jay Junior Davenport, Sioux City,  
Iowa  
B.S. in Ch.E. '49, Iowa State College. Field  
of Concentration: Public Administration.

Robert John Hohman, Walker  
B.A. '48, University of Minnesota. Field of  
Concentration: Public Administration.

Janet Campbell Thomas, Minneapolis  
B.A. *cum laude* '51, Hamline University. Field  
of Concentration: Public Administration.

## Master of Fine Arts

Robert Austin Barber, Minneapolis  
B.A. '50, University of Minnesota. Major:  
Art. Minor: Anthropology. Thesis: Four Con-  
temporary Paintings.

## Master of Forestry

Donald Otto Prielipp, Rothschild,  
Wis.  
B.S. with distinction '51, University of Min-  
nesota. Field of Concentration: Forestry.

## Master of Social Work

Elwyn Kenneth Boe, Remer  
B.A. '50, Concordia College (Moorhead).  
Field of Concentration: Social Work.

Gracie L. Richey, Roscoe, Tex.  
B.A. '45, Texas State College for Women.  
Field of Concentration: Social Work.

Geraldine Ryan, Minneapolis  
B.A. '42, State University of Iowa. Field of  
Concentration: Social Work.

## Master of Science

Barbara Jordan Bache-Wiig, Wauke-  
sha, Wis.  
B.S. with distinction '47, University of Min-  
nesota. Major: Speech Pathology. Minor: Edu-  
cation. Thesis: A Comparison of the Evalua-  
tions of Reading Defects and Speech Defects.

Rodney L. Bleifuss, Lindstrom  
B.Geol.E. '51, University of Minnesota. Major:  
Geology. Minor: Mining. Thesis: Correlation  
of Magnetite Content with Magnetic Sus-  
ceptibility Measurements of Minnesota Pre-  
Cambrian Rocks.

William L. Boyd, Deepwater, N.J.  
B.A. '50, University of Tennessee. Major: Bac-  
teriology. Minor: Agricultural Biochemistry.  
Thesis: The Effect of Glucose and Other  
Carbohydrates on Certain Amino Acid Deam-  
inases.

Ricardo Cardenosa-Barriga, Palmira,  
Colombia, S.A.  
Ingeniero Agronomo '46, Universidad Na-  
cional de Colombia. Major: Plant Pathology.  
Minor: Agricultural Botany. Thesis: Patho-  
genicity of *Helminthosporium* on Corn.



Aleck Fine, Oxnard, Calif.  
B.A. '39, University of Minnesota. Field of Concentration: Physical Chemistry.

Tyrone Colbert Greene, Pine Bluff, Ark.

B.S. '48, Pine Bluff Agricultural, Mechanical and Normal College. Field of Concentration: Agricultural Education.

Walter Burnham Gross, Toledo, Ohio  
D.V.M. '46, Ohio State University. Major: Veterinary Medicine. Minor: Pathology. Thesis: Studies of Infectious Sinusitis and Chronic Respiratory Disease.

Graham Denton Gutsche, La Grange Park, Ill.

B.S. '50, University of Colorado. Field of Concentration: Physics.

Stanley Tariho Hirozawa, Honolulu, Hawaii

B.A. '48, University of Hawaii. Major: Inorganic Chemistry. Minor: Analytical Chemistry. Thesis: Amperometric Titration of Sulfamates with the Dropping Mercury Cathode.

Grenaviere Robinson Kucera, Minneapolis

B.A. '48, University of Minnesota. Major: Pharmacology. Minor: Bacteriology. Thesis: A Study of Various Drugs and Drug Combinations in Anaphylactic Shock in Guinea Pigs.

Kenneth Irving Kvien, St. Paul

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

Allan Norman Myhr, Preeceville, Saskatchewan, Canada

B.S.A. with distinction '49, University of Saskatchewan. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: A Study of the Thermal Resistance of Micrococci in Milk.

Glen Ervin Peterson, South St. Paul  
B.A. '49, Luther College. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: The Effects of Aureomycin on the Growth and Intestinal Flora of the Rat.

Verna Louise Rausch, Minneapolis  
B.S. with distinction '45, University of Minnesota. Major: Physiological Chemistry. Minor: Pathology. Thesis: Chromatographic Studies on Urinary Amino Acids in Normal Human Subjects.

Jean Elizabeth Rieke, Barrington, Ill.  
B.S. '50, Iowa State College. Major: Home Economics. Minor: Statistics. Thesis: The Resistance to Abrasion of Certain Linen Fabrics Before and After Laundering.

Harlund G. Routhe, Redwood Falls  
B.S. with distinction '51, University of Minnesota. Field of Concentration: Agricultural Economics.

Deane A. Turner, Red Wing

B.S. '41, University of Minnesota. Field of Concentration: Agricultural Education.

## Master of Science in Chemical Engineering

James Frederick Walz, Minneapolis  
B.Ch.E. with distinction '50, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Rate Studies in the Tungstic Acid Catalyzed, Liquid Phase Esterification of N-Propyl Alcohol with Acetic Acid.

## Master of Science in Civil Engineering

Madhav Manohar, Ernakulam, India  
B.E. '46, University of Madras. Major: Civil Engineering (Hydraulics). Minor: Civil Engineering (Structures). Thesis: Entrance Effects of Part-full Flow in a Model Culvert Pipe.

## Master of Science in Dental Surgery

William Victor Kaplan, Los Angeles,  
Calif.

B.S. '42, Central YMCA College; D.D.S. '45,  
Loyola University. Major: Dental Surgery.  
Minor: Anatomy. Thesis: The Effects of Vari-  
able Doses of X-ray Irradiation on the De-  
veloping Dentition of the Ten-day-old Syrian  
Hamster.

## Master of Science in Electrical Engineering

Richard Louis Anderson, Minne-  
apolis

B.E.E. with distinction '50, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: Measurement of  
Noise in P-N Junctions.

Vernon D. Gebert, Minneapolis

B.E.E. with distinction '48, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: A Study of a  
Dispenser Type Cathode Employing Pow-  
dered Nickel.

Josyula Venkata Sastry, Rajahmundry,  
India

B.E.E. '50, Andhra University. Major: Elec-  
trical Engineering. Minor: Mathematics.  
Thesis: The Development of an Electronic  
Device to Measure the Symmetrical Compon-  
ents of Three-phase Systems.

## Master of Science in Mechanical Engineering

Lester Jens Nypan, Minneapolis

B.S. with distinction '51, University of Min-  
nesota. Field of Concentration: Mechanical  
Engineering.

Warren M. Wiese, Rochester

B.S. with high distinction '50, University of  
Minnesota. Major: Mechanical Engineering.  
Minor: Mathematics. Thesis: An Investigation  
of the Factors Effecting the Air Flow Through  
Reed Valves at High Speeds.

## Master of Science in Medicine

William Wellington Winchester,  
Topsfield, Mass.

B.A. '39, Dartmouth College; M.D. '42, Rush  
Medical College. Major: Medicine. Minor:  
Hematology. Thesis: The Effect of Urethane  
and Several Urethane Derivatives on Trans-  
planted Myelogenous Leukemia in the Mouse.

## Master of Science in Ophthalmology

Thomas Pryor Kearns, Rochester

B.A. '43, M.D. '46, University of Louisville.  
Major: Ophthalmology. Minor: Pathology.  
Thesis: Clinical Orbitometry in Graves' Dis-  
ease.

## Master of Science in Pediatrics

Howard Malcolm Purcell, Phoenix,  
Ariz.

M.D. '46, University of Tennessee. Major:  
Pediatrics. Minor: Pathology. Thesis: Con-  
genital Atresia of the Mitral and Aortic Ori-  
fices.

## Doctor of Philosophy

Morton Alpert, Brooklyn, N.Y.

B.S. '47, Louisiana State University; M.S. '48, Ohio State University. Major: Anatomy. Minor: Physiological Chemistry. Thesis: Observations on Some Factors in the Deposition of Ceroid Pigment in the Mouse. Major Adviser: Prof. W. L. Williams.

David E. Bartlett, St. Paul

D.V.M. '40, Colorado State College of Agriculture and Mechanic Arts. Major: Veterinary Medicine. Minor: Pathology. Thesis: Bovine Venereal Trichomoniasis: Diagnosis, Incidence, and Treatment of the Infected Bull. Major Adviser: Prof. M. H. Roepke.

William Allen Cowan, Pittsfield, Mass.

B.S. '42, Massachusetts State College; M.S. '48, University of Minnesota. Major: Animal Husbandry. Minor: Dairy Husbandry. Thesis: Studies of the Effects of Pregnant Mare Serum on the Breeding Phenomena of the Ewe. Major Adviser: Prof. L. M. Winters.

Abdel Aziz Fathy, Cairo, Egypt

B.S. '40, Fouad I University; M.S. '48, University of California. Major: Agricultural Biochemistry. Minor: Entomology. Thesis: The Chemistry and Toxicity of Fluoroketones. Major Advisers: Profs. Fred Smith and L. K. Cutkomp.

Ramon Paul Heimerl, Minneapolis

B.E. with honors '38, B.S. '46, St. Cloud State Teachers College; M.A. '49, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Status of Business Education in the Public Secondary Schools of Minnesota. Major Adviser: Prof. R. G. Price.

James Hellie, Whitewater, Wis.

B.S. '26, M.A. '45, University of Minnesota. Major: Economics. Minor: History. Thesis: Securities Price Support, Interest Rates and Price Inflation. Major Advisers: Profs. A. R. Upgren and J. W. Stehman.

Tinsley Helton, Kirksville, Ky.

B.A. '35, Berea College; M.A. '37, State University of Iowa. Major: English. Minor: Speech. Thesis: The Concept of Woman's Honour in Jacobean Drama. Major Adviser: Prof. Huntington Brown.

William Edwin Howell, Colborne, Ontario, Canada

B.S.A. '49, Ontario Agricultural College; M.S. '50, University of Minnesota. Major: Animal Husbandry. Minors: Zoology and Plant Genetics. Thesis: A Study of the Effect of Swine

Influenza Virus Infection of the Dam on Prenatal and Early Postnatal Survival of the Offspring. Major Advisers: Profs. L. M. Winters and G. A. Young.

Ruth Vivian Johnston, Minneapolis

B.A. '30, State University of Iowa; M.A. '40, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Trends in Secondary Education School Curriculum Concepts, Their Implications for the Teaching Function and Teacher Preparation. Major Adviser: Prof. N. L. Bossing.

Carl George Krespan, Erie, Pa.

B.S. with high distinction '48, University of Rochester. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Study of the Reimer-Tiemann Reaction on 1-Substituted-2-Naphthols. Major Adviser: Prof. C. F. Koelsch.

Norman Eiler Krog, Lake Benton

B.S. '47, University of Minnesota. Major: Agricultural Botany. Minor: Agricultural Biochemistry. Thesis: The Effects of Uranium Salts on Higher Plants. Major Adviser: Prof. E. C. Stakman.

Lester Christensen Krogh, Ruskin, Neb.

B.S. in Ch.E. '45, M.S. '48, University of Nebraska. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Studies in the Internal Michael Reaction. Major Adviser: Prof. C. F. Koelsch.

William Wei Lee, San Francisco, Calif.

B.S. '47, University of California. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Studies in Allylic Systems: 1-(Chloromethyl)-Cyclohexene—Its Preparation and Reactions. Major Adviser: Prof. R. T. Arnold.

Kenneth Lawson Lindsay, Springfield, Ill.

B.S. with highest honors '48, University of Illinois. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Mechanism of the Reaction of Bromine with 2,2-Diphenylpenten-4-oic Acid and Its Esters. Major Adviser: Prof. R. T. Arnold.

John Linsley, Minneapolis

B.Phys. with high distinction '46, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Influence of Nuclear Size on Meson Production at Very Great Energies. Major Adviser: Prof. E. P. Ney.

Shih-I Lu, Peiping, China

B.S. '43, National University of Yunnan; M.S. '50, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: A Study of Variation in Black Pigment Production in *Ustilago zae* (Beckm.) Unger. Major Adviser: Prof. E. C. Stakman.

Perry Morgan, Minneapolis

B.Ch. '44, M.S. '49, University of Minnesota. Major: Bacteriology. Minor: Organic Chemistry. Thesis: The Antigenicity in Rabbits and Mice of Soluble Specific Substances Derived from Pneumococci Grown in Vivo or in Vitro. Major Adviser: Prof. D. W. Watson.

Kenneth Glenn Nelson, East Lansing, Mich.

B.S. '39, Iowa State College of Agriculture and Mechanic Arts; M.A. '47, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Interests of Teachers of Vocational Agriculture as Related to Vocational Satisfaction. Major Adviser: Prof. W. W. Cook.

Sherman Eddie Nelson, Minneapolis

B.A. *magna cum laude* '47, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: The Development of an Indirect, Objective Measure of Social Status, and Its Relationship to Certain Psychiatric Syndromes. Major Adviser: Prof. William Schofield.

James Sol Perlman

B.S. '35, Illinois Institute of Technology; Graduate '38, Chicago Teachers College. Major: Education. Minor: Physical Science. Thesis: Historical Versus Contemporary Problem-Solving Use of the College Physical Science Laboratory Period for General Education. Major Adviser: Prof. P. O. Johnson.

Donald Robert Peterson, Pillager

B.A. *summa cum laude* '48, M.A. '50, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Predicting Hospitalization of Psychiatric Outpatients. Major Adviser: Prof. P. E. Meehl.

Guy Anthony Renzaglia, Virginia

B.S. '39, George Washington University; M.Ed. '41, M.A. '48, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Some Correlates of the Self-Structures as Measured by an Index of Adjustment and Values. Major Adviser: Prof. C. G. Wrenn.

Thomas Michael Roder, Joliet, Ill.

B.S. '48, University of Illinois. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Benzo-1,4-Dithiadiene. Major Adviser: Prof. W. E. Parham.

Albert Rosen, Minneapolis

B.A. '39, University of Pittsburgh; M.A. '48, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Development of Some New Minnesota Multiphasic Personality Inventory Scales for Differentiation of Psychiatric Syndromes within an Abnormal Population. Major Adviser: Prof. P. E. Meehl.

Donald H. Sherwood, Hermiston, Ore.

B.S. '33, Oregon State College; M.S. '50, State College of Washington. Major: Poultry Husbandry. Minor: Animal Husbandry. Thesis: Studies with Corn-Soy Type Rations for Starting Turkey Poult. Major Adviser: Prof. H. J. Sloan.

Mary Lyon Sutton, Huntington, West Va.

B.A. '47, Randolph-Macon Woman's College; M.A. '48, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Profile Patterning and Descriptive Correlates of Patients Having Low Scores on Scale 9 of the MMPI. Major Adviser: Prof. S. R. Hathaway.

Howard Stanley Teague, Minneapolis

B.S. '48, M.S. '49, University of Nebraska. Major: Animal Husbandry. Minor: Veterinary Medicine. Thesis: The Effect of Vitamin A and Other Nutritional Factors upon the Breeding Performance of Gilts and the Prenatal Development of Their Litters. Major Advisers: Profs. L. N. Winters and L. E. Carpenter.

Sanford Arthur Weil, New York, N.Y.

B.A. *cum laude* '48, Brooklyn College. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: Studies of the Fluorescence of Solutions of Chlorophyll and Related Substances. Major Adviser: Prof. R. S. Livingston.

# CAPS AND GOWNS

## AN EXPLANATION

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

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

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

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

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

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

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

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

(In the order of march)

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

THE  
UNIVERSITY OF MINNESOTA

Announces Its

*December Commencement*

*1952*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, DECEMBER 18

AT EIGHT O'CLOCK



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable J. S. Jones, St. Paul

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable E. E. Novak, New Prague

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

The Honorable Sheldon V. Wood, Minneapolis

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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 first birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 110,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

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

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

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

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

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





**INVOCATION:** The Reverend John Saunders Bone, Director of Roger Williams Fellowship and Adviser to Baptist Students at the University.

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

**COMMENCEMENT ADDRESS:** "Our Obligations as Americans," Dr. Raymond Walters, LL.D., Litt.D., D.H.L., President, University of Cincinnati, Cincinnati, Ohio.

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

**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: Dean Julius M. Nolte, LL.B., University Extension; Dean Horace T. Morse, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts and representing University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dr. Austin A. Dowell, Ph.D., Assistant Dean, College of Agriculture, Forestry, and Home Economics; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Assistant Dean Howard L. Horns, M.D., College of Medical Sciences; Assistant Dean John G. Darley, Ph.D., Graduate School. All degrees will be conferred by President Morrill. Immediately afterwards, certificates and diplomas will be presented by each dean to the graduates of his college.

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

"HAIL! MINNESOTA," the University's alma mater song: The audience and Mr. Roy A. Schuessler, soloist.

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

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

**RECESSIONAL:** Mr. Arthur B. Jennings, University Organist  
Chorale Prelude "In Thee Is Joy" - - - - - Bach

**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, Corps of Engineers, USAR**

James Robert Hill, Minneapolis

Walter Lee Spannaus, Hutchinson

### DEPARTMENT OF NAVAL SCIENCE

#### **Ensign, Line, USN**

Kenneth Harlan Johnson, Minneapolis

#### **Ensign, Line, USNR**

Richard George Plihal, Minneapolis

#### **Ensign, SC, USNR**

Richard Duane Herring, Minneapolis

Norman Floyd Lunderberg, Minneapolis

#### **Second Lieutenant, USMC**

John Clarke Rowett, Minneapolis

### DEPARTMENT OF AIR SCIENCE AND TACTICS

#### **Second Lieutenant, USAF Reserve**

Forrest W. Bovee, Duluth

Louis F. Gieseke, Janesville

Robert J. Hudalla, St. Paul

Robert W. Hutchings, Portage, Wis.

Robert M. Lauck, Amery, Wis.

Wallace W. O'Brien, Minneapolis

Anthony E. Omernik, Minneapolis

John F. Perry, Staples

Robert R. Randleman, Appleton

Si V. Reedy, Minneapolis

Ronald E. Wallgren, St. Paul

Richard Y. Will, Hilo, Hawaii

## *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

Royal Courtland Anderson, St. Paul

#### Engineering Certificate

William H. Gardas, St. Paul

Merle Eskil Johnson, Minneapolis

### GENERAL COLLEGE

#### Associate in Arts

Ludwig Micholas Asfeld, Kimball

James Stoker Bain, Minneapolis

Joan Patsy Binman, St. Paul

Dwayne Hunter Dahl, Minneapolis

Charles Henry Dart, Crystal Bay

Ivan Ray Eaton, Minneapolis

Ronnie Philips Erhardt, Minneapolis

C. Edward Fleury, Hopkins

Gerald D. Gulbrandson, Albert Lea

Barbara Ann Harris, Minneapolis

LaVonne Jean Marie Hydal, St. Paul

John Charles Kroll, Minneapolis

Andreas Lambert, Tartv, Estonia

Georgia Cyral Lewis, St. Paul

Virginia Alice Malicki, Minneapolis

Edgar L. Mattson, Minneapolis

Kingsley John Nelson, Minneapolis

Edward Carl Oliver, St. Paul

Lyle Gordon Rowe, Minneapolis

Gerald Leonard Shear, St. Paul

James Stewart Stubbs, St. Paul

Milton Arthur Thompson, Minong,  
Wis.

Joanne Elaine Walter, Minneapolis

### COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

#### Associate in Liberal Arts

Dean Elmer Franson, Minneapolis

August William Haugan, Jr., St. Paul

Mary Frances Jakob, St. Paul

Colleen Ann Kroona, St. Paul

Lois Marie LaBissoniere, St. Paul

Wayne Frank Schmidt, Minneapolis

Harlan E. Smith, Minneapolis

Maureen Claire Walter, Minneapolis

#### Bachelor of Arts

Joyce Irene Anderson, Deephaven

Park, CUM LAUDE

Helen Star Bagby, Huron, S.D.

Bryan Leslie Ball, St. Paul

Forrest Wanewright Bovee, Duluth

David Roger Brandt, St. Paul

Mary Ann Brownell, Hibbing  
 JoAnne Earlene Cutshall, A.L.A.,  
 Rochester  
 Frances Claire DeLaurier, Minot,  
 N.D.  
 Robert Clark DeVeau, Wayzata  
 Virginia J. Doherty, Minneapolis  
 Robert E. Dybing, Minneapolis  
 Mary Helen Durey, Des Moines, Iowa,  
 MAGNA CUM LAUDE  
 Edward Walter Eardley, Elgin, Ill.  
 Earl Albert Ehrenberg, Waconia  
 Paul Louis Engel, St. Paul  
 Doris Mae Erickson, A.A., Virginia,  
 CUM LAUDE  
 Roderick Ernest Ewart, Evanston,  
 Wyo.  
 John Joseph Fallon, A.A., Rochester  
 Charles Strand Fehr, Minneapolis  
 Norman Philip Friberg, St. Paul  
 William Rufus Gamble, A.A., Minne-  
 apolis  
 Roger Joseph Gores, Rochester  
 Eugene William Hanson, Minne-  
 apolis  
 Robert Allen Harvey, St. Louis Park  
 Louis Betz Hauser, A.A., St. Paul  
 Barbara Irene Hill, Minneapolis, CUM  
 LAUDE  
 Donald Julius Hinz, A.L.A., Elk River  
 Dale Harper Husemoller, Austin  
 Robert William Hutchings, Portage,  
 Wis.  
 Charles Gifford Johnson, Minneapolis  
 Curtis Lee Johnson, Milaca  
 Martha Joanne Johnson, St. Paul  
 Thirza Helen Jones, Minneapolis  
 Tom E. Kakonis, Brookings, S.D.  
 Arthur Lennart Kalleberg, Minneapo-  
 lis, CUM LAUDE  
 Elizabeth Brownlee Kane, Minneapo-  
 lis  
 Robert Elliot Kangas, Minneapolis  
 Glenn Waldemar Kask, Mort. Sci.,  
 Minneapolis  
 Kenneth Albert Kistler, Minneapolis  
 Owen John Kvale, Salem, Ore.  
 Mona Elaine Langguth, Minneapolis,  
 MAGNA CUM LAUDE  
 Douglas Eugene Larson, Minneapolis  
 Thomas Neil LeFebvre, St. Paul  
 Marvin Stanley Lieberman, Minne-  
 apolis  
 Eileen Marguerite Lindblad, Stanch-  
 field  
 James Timothy Lym, South St. Paul  
 Jere Benjamin Maertz, Willmar  
 Waltraud Margot Marggraff, Berlin,  
 Germany, CUM LAUDE  
 Arden Norma McKenney, Minne-  
 apolis  
 Joan Cecelia McLaughlin, Wayzata  
 Allison Robert Mercer, Minneapolis  
 Milton Bertrand Monicken, River  
 Falls, Wis.  
 Audrey Sayre Mott, Excelsior  
 Mary Virginia Myers, Minneapolis  
 Gaylord Harold Nelson, Minneapolis  
 David Martin Noetzel, Waseca  
 Wallace Weston O'Brien, Minne-  
 apolis  
 Frederick Stanley Olson, New Ulm  
 Gloria Jean Palmer, Minneapolis  
 Dorothy Inez Patterson, Minneapolis  
 George Edward Peterson, St. Paul  
 John Podany, Jr., Minneapolis  
 Carol Elinor Power, Rochester  
 James Thomas Prince, Minneapolis  
 Russell James Reed, A.L.A., Marshall  
 Rowena Miller Robinow, Chisholm,  
 CUM LAUDE  
 John Clarke Rowett, Minneapolis  
 William Edwin Sloggy, Minneapolis  
 Gardner Clifton Sorum, Crookston  
 Margaret Ida Spencer, A.A., Belding,  
 Mich., MAGNA CUM LAUDE  
 Richard Spence Taylor, Minneapolis,  
 SUMMA CUM LAUDE  
 Robert Sidney Voigt, Minneapolis  
 William Bruce Wallace, Minneapolis  
 Walter Samuel Warfield, Pittsburgh,  
 Pa.  
 Warren James Wedan, A.A., Minne-  
 apolis  
 Norman John Werner, Long Prairie  
 Zoe Leighton Wilkerson, St. Paul,  
 SUMMA CUM LAUDE  
 Richard Yoshio Will, Hilo, Hawaii  
 Frank B. Zdrubek, Minneapolis

## **Bachelor of Science in Library Science**

John Woodrow Borden, A.L.A., B.A., St. Paul  
Ruth Mary Hagarty, B.A., St. Paul

## **UNIVERSITY COLLEGE**

### **Bachelor of Arts**

Eugene Gerald Gordon, Albert Lea  
Robert Louis Peterson, Owatonna

### **Bachelor of Science**

Lorna Jean Bruning, G.D.H., Minneapolis

## **INSTITUTE OF TECHNOLOGY**

### **Bachelor of Science**

Orville Arthur Elseth, Newfolden  
Paul Bernard Hasselquist, Center City, WITH HIGH DISTINCTION  
Raymond Edward Meyer, Minneapolis, WITH HIGH DISTINCTION  
Zanti David Squillace, Kinney  
Arthur Michael Isaacson, Jr., Fanwood, N.J., WITH DISTINCTION

### **Bachelor of Aeronautical Engineering**

John Henry Pracht, St. Paul

### **Bachelor of Agricultural Engineering**

Louis Frederick Gieseke, Janesville  
Kenneth Dewayne Grosse, Red Wing

### **Bachelor of Architecture**

Vernon Loren Edwardson, B.A., Albert Lea  
Lyle James House, St. Paul  
Clark Dolan Wold, B.A., Hibbing

### **Bachelor of Chemical Engineering**

Donald Adolph Erdmann, Neenah, Wis.

### **Bachelor of Civil Engineering**

James Joseph Anderson, St. Paul  
Ralph Heinz Geier, Hutchinson  
Paul Bernard Hasselquist, Center City, WITH HIGH DISTINCTION  
Wilbur Roy Robinson, Minneapolis  
Roman P. Wengler, Albany, WITH HIGH DISTINCTION

### **Bachelor of Electrical Engineering**

Richard Alan Carlson, Albert Lea  
Thomas James Donlin, St. Paul

## **Bachelor of Geological Engineering**

Jerome Severin Nelson, Albert Lea

## **Bachelor of Geophysics**

Gene M. Olson, Minneapolis

## **Bachelor of Industrial Engineering**

Si Vincent Reedy, Minneapolis

## **Bachelor of Mechanical Engineering**

James Russell Argall, LaCrosse, Wis.

William Harvey Brown, St. Paul

Neil Henry Hanson, B.B.A., Virginia

Robert Joseph Hudalla, St. Paul

Paul Louis Jirele, A.A., Blooming  
Prairie

Gale Harding Lyle, St. Paul

Edwin Franklin McKee, St. Paul

Raymond Edward Meyer, Minne-  
apolis, WITH HIGH DISTINCTION

Richard George Plihal, Minneapolis,  
WITH DISTINCTION

Zanti David Squillace, Kinney, WITH  
DISTINCTION

Harley Merwin Sutton, Hoffman

Richard Allan Westrum, Albert Lea

## **Bachelor of Mining Engineering**

Marius Stenfeldt Petersen, Tower

Cecil Hubert Suter, Clara City

## **Bachelor of Petroleum Engineering**

Edward Gardner Chilton, Detroit Lakes

Robert James Slaby, St. Paul

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

### **Bachelor of Science**

Janet Rae Alstrup, Minneapolis,  
Home Economics

Dorothy Elaine Barr, B.A., Minne-  
apolis, Home Economics

Harold Ralph Batesole, Alexandria,  
Agriculture

John Nelson Campbell, Jr., St. Paul,  
Agriculture

Darlene Irene Christensen, North-  
field, Home Economics

Donald Edward Crust, Brainerd,  
Agriculture

Carol Lee Davis, Minneapolis, Home  
Economics

Elaine Mae Engfer, St. Paul, Home  
Economics

Mary Jean Eyler, St. Paul, Home  
Economics

Donald Ralph Gehlhar, Westport,  
Agriculture

Myrtle Elizabeth Halverson, New  
Ulm, Home Economics, WITH  
HIGH DISTINCTION

Robert William Horstman, Princeton,  
Agriculture  
Hugo Isaac Isaacson, Kettle River,  
Agriculture  
Kenneth Juno Johnson, St. Paul, For-  
estry  
Lynn Douglas Klinkenborg, Alexan-  
dria, Agriculture  
Donna Marie LaBonte, Minneapolis,  
Home Economics, WITH DISTINC-  
TION  
Robert Morgan Lauck, Amery, Wis.,  
Food Technology, WITH DISTINC-  
TION

Nancy Alice Morton, Montevideo,  
Home Economics  
John Fairfield Perry, Staples, Forestry  
Leonard George Ryman, Agenda,  
Kan., Agriculture  
Catherine Jane Teet, Two Harbors,  
Home Economics  
Joan Caroline Tema, Columbia  
Heights, Home Economics  
Alvin Joseph Wensman, Chokio,  
Agriculture  
Nan R. Zosel, Minneapolis, Home  
Economics

## COLLEGE OF EDUCATION

### Bachelor of Science

Floyd Leslie Anderson, Minneapolis  
Bruce Edward Balow, Wabasha  
Frances Marie Buckley, R.N., Me-  
nomonic, Wis., WITH DISTINCTION\*  
Roger Warren Challberg, A.A., New-  
port  
Ann Sylvia Desich, R.N., Duluth\*  
Mildred Ann Dopke, Winona, WITH  
DISTINCTION  
Ruth Forbes Engh, Minneapolis\*  
Alice Estervog, Minneapolis, WITH  
DISTINCTION  
Hortense Sophia Groh, Stirling, N.J.,  
WITH DISTINCTION\*  
Irene Mactavish Hewitt, B. A., Min-  
neapolis  
James Gregory Hoye, Monterey  
Philip Jacobs, Minneapolis  
George Herbert Johnson, Jr., St. Paul  
Sreen Ulrich Kane, Minneapolis,  
WITH DISTINCTION  
Harriet Mae Katz, A.A., Mankato  
Laura Augusta Koenig, Blair, Neb.\*  
Barbara Lee Krocak, Minneapolis  
William Luverne Land, Minneapolis  
Lily Larson, New Ulm, WITH DISTINC-  
TION\*  
Florabelle Link, Minneapolis  
Lloyd Andrew Lundeen, Minneapolis  
Dorothy Ann Lym, South St. Paul\*

Marjorie Alice Manuel, South Bend,  
Ind.\*  
Delbert James Marcus, Minneapolis  
John Harlow McIntosh, Minneapolis  
James Allen Morris, A.A., Minne-  
apolis  
Neil Ardel Ofsthun, Robbinsdale  
Arthur Glenn Olson, Minneapolis  
Mildred Paulsen Parsons, San Jose,  
Calif., WITH DISTINCTION\*  
James Burchard Preus, Minneapolis  
Robert Charles Purcell, St. Paul  
Robert Ronald Randleman, Appleton,  
WITH DISTINCTION  
Helen Joanne Rennell, International  
Falls\*  
Betty J. Scherling, Minneapolis, WITH  
DISTINCTION\*  
Dorothy Jean Scholl, Fairmont  
Ruth Catherine Stevens, Hartington,  
Neb., WITH DISTINCTION\*  
Elizabeth Anne Swanson, Glenview,  
Ill., WITH DISTINCTION\*  
Lloyd Robert Thompson, Columbia  
Heights  
Viola Swanhilde Thompson, Glen  
Lake, WITH DISTINCTION  
Wilma Nelson Tinkham, Owatonna  
Suzanne Marie Trauffer, B.A., Min-  
neapolis  
Shirley Estelle Witebsky, Minneapolis

\*Nursing Education Curriculum.



## Master of Education

Frances Edna Dunning, B.S., Jackson Heights, N.Y.

Mary Lucile Hanscom, B.S., Minneapolis

Kenneth L. Thompson, B.S., Minneapolis

Gladys Trestrail Walker, B.S., Minneapolis

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

### Bachelor of Science

Phyllis Marie Carlson, Cokato, Home Economics Education, WITH DISTINCTION

Raymond W. Collen, Wyoming, Agricultural Education

Bess-Gene Gillespie, Pine City, Home Economics Education, WITH DISTINCTION

Alice Mae Ginther, Franklin, Home Economics Education

Earl Baudette Ogren, Taylors Falls, Agricultural Education

Edgar Ernest Siver, Paynesville, Agricultural Education

Genevieve Beatrice Skarsten, Benson, Home Economics Education

Richard Meade Wenneson, Minneapolis, Agricultural Education

Joan Elise Wolle, Minnesota Lake, Home Economics Education

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Yuki Akaki, St. Paul

Glenn Leonard Bauer, Durand, Wis.

Ronald F. Dybing, Minneapolis

Maynard Gelfand, Kimball, S.D.

Weldon Irvin Gensmer, Minneapolis

Harriet Maxine Goldblatt, Minneapolis

George Washington Haley, Minneapolis

Richard Duane Herring, Minneapolis

Kenneth Harlan Johnson, Minneapolis

Ralph Arvid Johnson, St. Paul

Isao Kawamoto, Minneapolis, WITH DISTINCTION

Roger Craig Kittelson, Brooten

Norman Floyd Lunderberg, Minneapolis

Roger Ransom Mann, Winona

John Jerome McGinnis, St. Paul

William Lester Meck, St. Paul

Nathan Newman, Minneapolis

Dorothy Marie Nissen, A.A., Park Rapids

Everett Palmer Nygaard, Beresford, S.D.

Allan Robert Olson, Minneapolis

George Edward Pieterek, Royalton

Marian Elizabeth Porger, Two Harbors

James Bye Prentice, Moorhead

Bernard Ratner, A.L.A., Phoenix, Ariz.

Theodore Hugh Reid, Winona

Harvey Robert Rochlin, Minneapolis

John Howard Roth, Minneapolis

Thomas Joseph Ryan, Jr., Minneapolis

John Henry Vollmer, Minneapolis  
LaVerne Veronica Vorachek, Lankin,  
N.D.

Roman P. Wengler, Albany, WITH  
DISTINCTION  
Roland Charles Williams, St. Paul

## Bachelor of Science in Economics

Ross Norman Boreson, A.L.A.,  
Kalispell, Mont., WITH DISTINCTION

Eugene Dwayne Holen, Watertown,  
S.D.  
James Schwinden, Wolf Point, Mont.

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

### Bachelor of Agricultural Business Administration

Donald C. Bakke, St. Paul

## LAW SCHOOL

### Bachelor of Science in Law

\*Robert Bakke, Minneapolis  
Willard DeWayne Dover, Springfield,  
Mo.

\*\*Vincent Andrew Doyle, St. Paul  
George Louis Mitchell, A.A., B.B.A.,  
St. Paul

## SCHOOL OF DENTISTRY

### Bachelor of Science

\*Charles Raymond Baron, Minneapolis \*Clair J. Scrobeck, Rochester  
\*Wesley Carl Peterson, Virginia

### Doctor of Dental Surgery

Russell F. Engstrom, Minneapolis

## COLLEGE OF MEDICAL SCIENCES

### Graduate in Nursing†

Ruth Forbes Engh, Minneapolis

Helen Joanne Rennell, International  
Falls

\* Degree conferred as of June 14, 1952.

\*\* Degree conferred as of August 28, 1952.

† These degrees are conferred subject to the satisfactory completion of nursing practice prior to March 19, 1953.

## Bachelor of Science in Professional Nursing†

Mary McIver Lensink, Great Falls,  
Mont.  
Elizabeth Longley Lines, Little Falls

Betty Fay Sorensen, B.A., Minneapolis  
Marion J. Trowbridge, Comstock  
Ruth Amanda Wohlin, New London

## Bachelor of Science

Norene Carmen Blair, Minneapolis,  
Medical Technology‡  
Jean Effal Carlin, B.A., Minneapolis,  
Medicine  
William Frank Feller, B.A. *magna  
cum laude*, St. Paul, Medicine  
Ben Earl Hallaway, B.S., Minneapolis,  
Medical Technology, WITH HIGH  
DISTINCTION‡  
Lorlie Ruth Halverson, Cloquet,  
Medical Technology‡  
Virginia May Herrala, A.S., Ely,  
Medical Technology‡  
Vernetta Hidde, B.S., Mohall, N.D.,  
Medical Technology, WITH HIGH  
DISTINCTION‡  
Joan Eleanor Hull, R.N., Minneapo-  
lis, Public Health Nursing, WITH  
DISTINCTION

Kenneth Irving Jernberg, B.A., Min-  
neapolis, Medicine  
Marilyn Ruth Postier, Rochester,  
Medical Technology‡  
Barbara Ann Ringstrom, Minneapolis,  
Occupational Therapy  
Patricia Tender Rygg, Minneapolis,  
Medical Technology‡  
Nancy Joan Sanzenbach, Minneapolis,  
Occupational Therapy, WITH DIS-  
TINCTION  
Irene Beck Schulz, Jamestown, N.Y.,  
Public Health Nursing  
Virginia Moore Womack, Kansas  
City, Mo., Public Health Nursing  
Miriam Lucile Young, R.N., Gering,  
Neb., Public Health Nursing  
Elizabeth Constance Ziaskas, Minne-  
apolis, Medical Technology‡

## Master of Nursing Administration

Florence June Julian, B.S., Minneapolis

## Master of Public Health

Edward John Dvorak, B.S., M.Ed.,  
St. Paul

Garnett Ethel Pierce, B.S., Denver,  
Colo.

## Doctor of Medicine

Wallace Russell Holter, B.A., B.S., M.B., Minneapolis

† These degrees are conferred subject to the satisfactory completion of nursing practice prior to March 19, 1953.

‡ These degrees are conferred subject to satisfactory completion of required practical work prior to March 19, 1953.

# GRADUATE SCHOOL

## Master of Arts

Virginia Ann Adams, Ontario, Calif.  
B.A. '45, Stanford University. Field of Concentration: Psychology.

Lucy June Balian, St. Paul  
B.A. '51, University of Minnesota. Field of Concentration: Psychology.

Virginia Arne Black, Dayton, Ohio  
B.A. *magna cum laude* '48, University of Minnesota. Major: Philosophy. Minor: Psychology. Thesis: Art as Experience and Value.

Mary Virginia Blair, Minneapolis  
B.S. '39, University of Minnesota. Field of Concentration: Library Science.

Robert Clarence Bredeson, Minneapolis  
B.A. '51, Grinnell College. Field of Concentration: English.

Anna Elizabeth Burr, Minneapolis  
B.A. '28, St. Olaf College. Field of Concentration: Home Economics Education.

Hector Neri Castañeda, Guatemala, Central America  
B.A. '50, University of Minnesota. Major: Philosophy. Minor: Mathematics. Thesis: An Essay in the Logic of Commands and Norms.

Ella Dickmann Christensen, Maple Plain  
B.S. '42, University of Minnesota. Field of Concentration: Curriculum and Instruction.

James Bernard Christoph, Waukesha, Wis.  
B.A. '50, University of Wisconsin. Major: Political Science. Minor: History. Thesis: Alexander Berkman and American Anarchism.

Dorothy Madsen Clay, St. Paul  
B.A. *cum laude* '50, Macalester College. Field of Concentration: Greek.

William Lawrence Cofell, Melrose  
B.A. '49, St. John's University. Field of Concentration: Sociology.

James Guthrie Coke, Minneapolis  
B.A. *cum laude* '48, Harvard College. Major: Political Science. Minor: History. Thesis: Public Utilities Commissions in Minnesota Villages.

Eldon Lorraine Coyle, Wells  
B.S. '42, Winona State Teachers College. Field of Concentration: Educational Psychology.

Violet Hamesh Dass, Delhi, India  
B.A. '42, Punjab University; B.T. '43, M.A. '47, Agra University. Field of Concentration: Educational Psychology.

Roger Harold DeClercq, St. Louis Park  
B.S. '48, University of Minnesota. Field of Concentration: Education.

John Scott Donaldson, Minneapolis  
B.A. '51, Yale University. Field of Concentration: English.

Richard Freeman Dunlap, Lamoni, Iowa  
B.A. '45, University of Washington. Field of Concentration: History.

Bernard Elevelitch, Duluth  
B.A. *magna cum laude* '48, University of Minnesota. Major: Philosophy. Minor: French. Thesis: Lalande's Theory of Norms.

Theora Cooper England, Orange City, Iowa  
B.A. '25, Simpson College. Field of Concentration: Speech.

Philip Lee Friest, Northfield  
B.A. '49, St. Olaf College. Field of Concentration: Business Administration.

Stanley O. Gabrielsen, Winter, Wis.  
B.S. '47, Eau Claire State Teachers College. Field of Concentration: Educational Administration.

Martin Galstad, Mankato  
Graduate '31, Bethany Lutheran College. Field of Concentration: Curriculum and Instruction.

Joanne Kathryn Gatz, Omaha, Neb.  
B.S. '49, Iowa State College. Field of Concentration: Mathematics.

John Franklin Giblette, St. Cloud  
B.A. '47, George Washington University. Field of Concentration: Educational Psychology.

Frank Everett Gibson, Omaha, Neb.  
B.A. '48, Drake University; B.S. in L.S. '49,  
University of Minnesota. Major: Library  
Science. Minor: Political Science. Thesis:  
The Effects of the Activities of the Unions in  
the Minneapolis Public Library on Library  
Functions and Administrative Processes, and  
upon Union Members.

Olaf Arnold Hammersness, Calmar,  
Iowa

B.A. '51, Luther College. Field of Concen-  
tration: Educational Psychology.

Gene Kermit Hanson, Granada

B.A. '51, Gustavus Adolphus College. Field  
of Concentration: History.

Winston Russell Hewitt, Crookston

B.A. '48, University of Minnesota. Field of  
Concentration: Area Studies: Scandinavia.

Hale Cecil Hickman, Fulda

B.A. '38, Valley City State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Roice Vernon Horning, Minneapolis

B.A. '51, Hamline University. Field of Con-  
centration: Education.

Dean F. Hyland, Minneapolis

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

Clarence Dale Johnson, Alexandria

B.A. *cum laude* '50, University of Minnesota.  
Major: Sociology. Minor: Statistics. Thesis: An  
Inquiry into the Applicability of Sequential  
Analysis to Problems in Sociological Research.

Shirley Jean Johnson, White Bear  
Lake

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

William James Kaczrowski, Mound

B.S. '40, Winona State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Eleanor Reed Kambour, Boston, Mass.

B.A. '26, Smith College. Field of Concen-  
tration: Education.

William Wallace Keenan, Clark, S.D.

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

Jeanne Jung Klingman, St. Paul

B.A. '45, University of Minnesota. Field of  
Concentration: Art.

Elsie Elizabeth Kurzweg, Winona  
B.S. '41, Winona State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Robert Edwin Larsen, Janesville, Wis.  
B.A. '44, Luther College. Major: Philosophy.  
Minor: English. Thesis: Morris Cohen's Con-  
ception of the Nature of Logic.

Donn Edward Leussler, Cloquet

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

Boyd Leroy McCaslin, Bremerton,  
Wash.

B.S. '49, University of Michigan. Field of  
Concentration: Physical Education.

Richard A. McWaters, Lake City

B.S. '48, University of Minnesota. Field of  
Concentration: Physical Education.

Betty Ann Medley, Robbinsdale

B.S. '46, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Helen Phyllis Miller, St. Paul

B.A. '48, College of St. Catherine. Field of  
Concentration: Psychology.

Ruth Moshier, Marion, Ind.

B.A. '27, Marion College; B.S. '45, Kansas  
State Teachers College. Field of Concen-  
tration: English.

Marie Murphy, Watertown

B.S. '33, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Dale Gilbert Nelson, Mound

B.E. '38, St. Cloud State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Weston Jerome Olberg, Mankato

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

Robert Charles Parker, St. Paul

B.A. '48, University of Minnesota. Field of  
Concentration: English.

Francis Ford Pyne, Saskatoon, Sas-  
katchewan, Canada

B.P.H.E. '48, University of Toronto. Field  
of Concentration: Physical Education.

Bhaibulya Ratanamungala, Bangkok,  
Thailand

B.A. '38, Chulalongkorn University (Thailand).  
Field of Concentration: Curriculum and In-  
struction.

Neola Sackreiter Reed, St. Louis Park  
B.S. '39, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Edgar Verne Roberts, Minneapolis  
B.A. *summa cum laude* '51, University of  
Minnesota. Field of Concentration: English.

Pearl Marea Schenk, Anoka  
B.S. '44, St. Cloud State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Harlan Albert Schmidt, Ceylon  
B.S. '48, Mankato State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Muang Na-Ayuthya Seniwongse,  
Bangkok, Thailand  
B.Com. '43, Chulalankarana University (Thai-  
land). Field of Concentration: Economics.

Sister M. Chiara Gilleran, Rochester  
B.A. '42, College of Saint Teresa. Field of  
Concentration: French.

Edwin E. Stuart, North St. Paul  
B.A. *cum laude* '49, Macalester College. Field  
of Concentration: Educational Psychology.

Lloyd Wesley Telschow, St. Paul  
B.S. '50, University of Minnesota. Field of  
Concentration: Educational Administration.

Kari Marie Torjesen, Oslo, Norway  
B.A. '49, Wheaton College. Field of Concen-  
tration: English.

James Sturman Weir, Los Angeles,  
Calif.  
B.A. '51, Montana State University. Field of  
Concentration: Economics.

Harry Merton Wenner, Villard  
B.S. '49, Gustavus Adolphus College. Field  
of Concentration: Educational Administration.

Bruce Douglas Westling, Milaca  
B.S. '50, University of Minnesota. Field of  
Concentration: Educational Psychology.

Edgar Benjamin Williams, St. Paul  
B.S. '40, St. Cloud State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Mary L. Williamson, South St. Paul  
B.S. '36, University of Minnesota. Field of  
Concentration: Educational Administration.

Dora Eiger Zajdenweber, Minneapolis  
Graduate '50, University of Tübingen (Ger-  
many). Major: Economics. Minor: Political  
Science. Thesis: The Labor Movement in Post-  
war Germany.

Eileen Tressler Zetterberg, Chicago,  
Ill.  
B.A. '49, University of Illinois. Field of Con-  
centration: Educational Psychology.

## Master of Arts in Public Administration

Warren Lee Dahlstrom, White Bear  
Lake  
B.S. '47, University of Minnesota. Field of  
Concentration: Public Administration.

Robert Leroy Rosholt, Cyrus  
B.A. *magna cum laude* '51, Luther College.  
Field of Concentration: Public Administration.

## Master of Business Administration

Richard Arvid Johnson, Garden City,  
S.D.  
B.B.A. '48, University of Minnesota. Major:  
Business Administration. Minor: Education.  
Thesis: The Application of Management Tech-  
niques and Principles in the Small Business  
Unit.

Robert Thomas Sprouse, San Diego,  
Calif.  
B.A. '51, San Diego State College. Field of  
Concentration: Business Administration.

## Master of Science

Talib Mahmood Astarabadi, Baghdad, Iraq

M.B., Ch.B., '45, Baghdad Royal College of Medicine. Major: Experimental Medicine. Minor: Physiology. Thesis: The Effect of Hypophysectomy on the Remaining Kidney After Unilateral Nephrectomy.

Ingalf Gilbert Bue, St. Paul

B.S. '38, North Dakota Agricultural College; B.S. '47, University of Minnesota. Major: Economic Zoology. Minor: Botany. Thesis: The Dynamics of a Waterfowl Breeding Population.

Charles Frederic Comte, Kirkwood, Mo.

B.S. with honors '50, Northwestern University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Attempts to Synthesize 1,2:4,5-Dibenzopentalene.

Asa Briggs Graham, Afton

B.A. '50, Macalester College. Major: Bacteriology. Minor: Physiological Chemistry. Thesis: The Effects of Cortisone and Roentgen Radiation upon the Resistance of Adult Mice to a Cocksackie Virus.

Khalil Abdel Ghani Hamouda, Hafiz Rabat, Zagazig, Egypt

B.Sc. '46, Farouk I University. Field of Concentration: Agricultural Economics.

Glen Alvin Hemerick, Madelia

B.S. '49, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: The Relation of *Ascochyta imperfecta* to Alfalfa Seed Production in Minnesota.

Marvin Walter Kottke, St. Paul

B.S. '51, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: A Study of Farm Leasing Practices in the Various Economic Areas of Minnesota.

John Christian Kraft, Schwenksville, Pa.

B.S. '51, Pennsylvania State College. Major: Geology. Minor: Geophysics. Thesis: A Petrographic Study of the Oneota-Jordan Contact Zone.

Carrell John Kucera, Minneapolis

B.A. '48, University of Minnesota. Field of Concentration: Bacteriology.

Gordon Paul Lindblom, Minneapolis

B.A. cum laude '50, University of Minnesota. Major: Bacteriology. Minor: Zoology. Thesis: Serological Studies on a Cocksackie Virus.

Harold Alan Lindgren, Minneapolis

B.A. '50, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: The Variation of Total Vertical Cosmic Ray Intensities at High Altitudes.

Gabriel Murillo-Peralta, Matamoros, Coah, Mexico

Ing.-Agr. '50, La Escuela Superior de Agricultura (Mexico). Major: Plant Pathology. Minor: Entomology. Thesis: Studies on Root Rot of Wheat in Mexico.

Louis Simon Nidus, New York, N.Y.

B.S. '50, The City College of New York. Field of Concentration: Physics.

Joseph P. Nigon, Los Alamos, N.M.

B.S. '39, College of St. Thomas. Major: Inorganic Chemistry. Minor: Business Administration. Thesis: The Detection of Vanadium.

Myrtle Athalie Norquist, Brainerd

B.A. '50, Carleton College. Major: Plant Pathology. Minor: Botany. Thesis: Mutation in *Penicillium roqueforti* Thom.

Harold Clarion Pederson, Minneapolis

B.S. '27, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Some Economic Aspects of Artificial Grain Drying at Country Elevators in Minnesota.

Rosendo Postigo-Mendivil, Cotahuasi, Peru

Ing. Agr. '48, Escuela Nacional Agricultura (Peru). Major: Plant Pathology. Minor: Agricultural Engineering. Thesis: Biotypes within Race 15B of *Puccinia graminis tritici*.

George William Roche, St. Paul

B.A. '42, University of California. Major: Pharmacology. Minor: Home Economics. Thesis: An Investigation of Spectrophotometric Methods and a Scheme for the Isolation, Identification, and Quantitative Determination of Certain Non-Volatile Organic Poisons.

Donald Albert Shumrick, Newark, N.J.

B.S. '49, Seton Hall College. Major: Physiological Hygiene. Minor: Psychology. Thesis: Some Responses of Hypertensives and Normotensives to the Thematic Apperception Test.

Robert Carl Skarnes, Minneapolis  
B.A. '48, University of Minnesota. Major: Bacteriology. Minor: Physiological Chemistry. Thesis: Studies upon the Persistence of Animal Viruses in Soil and Their Uptake by Higher Plants.

Roy Tuvey Sorensen, Jr., St. Paul  
B.Min.E. '49, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: The Relation of Particle Size to Floatability at Various Collector Concentrations.

David Richard Spriestersbach, St. Paul  
B.S. '43, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on Djenkolic Acid.

Henning William Swanson, Adams  
B.S. '39, University of Minnesota. Field of Concentration: Agricultural Economics.

Alfred William Terry, Jr., Pine Bluff, Ark.

B.S. '50, Pine Bluff Agricultural, Mechanical and Normal College. Field of Concentration: Agricultural Education.

Richard William Wilson, St. Paul  
B.Met.E. with distinction '48, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: The Effect of Manganese on Desulfurization of Pig Iron by a Blast Furnace Slag.

## Master of Science in Anesthesiology

Robert T. Patrick, Rochester  
M.D. '44, University of Louisville. Major: Anesthesiology. Minor: Physiology. Thesis: The Application of a Mass Spectrometric Method for the Quantitative Determination of Carbon Dioxide and Oxygen in Blood to the Study of Certain Aspects of Ventilation and Acid-Base Equilibrium in Patients Undergoing Anesthesia with Ether and with Pentothal Sodium.

Donald Emanuel Soltero, Seattle, Wash.

M.D. '44, Marquette University. Major: Anesthesiology. Minor: Physiology. Thesis: A Clinical Evaluation of Automatic Anesthesia.

Frederick Hall Van Bergen, St. Paul  
B.S. '40, M.D. '42, University of Minnesota. Major: Anesthesiology. Minor: Pharmacology. Thesis: Surgical Hemorrhage: An Evaluation of Its Control by Hexamethonium-Induced Hypotension and Postural Ischemia.

## Master of Science in Chemical Engineering

Jack Harry Venarde, St. Louis, Mo.  
B.S. '51, Missouri School of Mines. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Effect of Intraparticle Diffusion and Particle Geometry on the Adsorption of Acetic Acid.

## Master of Science in Civil Engineering

Moshe Boaz Besubov, Givataim, Israel  
B.S. with highest honors '51, University of California. Major: Civil Engineering. Minor: Mathematics. Thesis: A Glass-Model Study of the Seepage Through a Previous Dam with Vertical Faces.

William Arthur Boe, Minneapolis  
B.C.E. with distinction '51, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Wind Stresses by the K-Percentage Method.

Ian Charles Everist, Geelong, Australia

B.C.E. '51, University of Melbourne. Major: Civil Engineering (Hydromechanics). Minor: Civil Engineering (Soil Mechanics). Thesis: Fluid Flow Through Sieved Sand Fractions of Similar Shape.

Peter Chi-Te Feng, Canton, China  
B.S. in C.E. '47, Chiao Tung University. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: Experimental Studies of Viscous Flow in a Triangular Open Channel with Varied Central Vertex Angle.

George Nicolas Nomicos, Pireaus, Greece

Diploma in C.E. '45, National Metsovion Polytechnic University (Greece). Major: Civil Engineering (Hydraulics). Minor: Civil Engineering (Soil Mechanics). Thesis: Flow in Diverging Transitions of Rectangular Open Channels with Supercritical Velocities.



## Master of Science in Dermatology and Syphilology

Otto Charles Stegmaier, Jr., Davenport, Iowa  
B.S. '40, University of Notre Dame; M.D. '44, University of St. Louis. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: Histopathologic Studies of Pigmented Nevi in Children.

## Master of Science in Electrical Engineering

Roy Henry Mattson, Chisholm  
B.E.E. with distinction '51, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Germanium Filaments.

## Master of Science in Mechanical Engineering

Thomas Russell Beck, Owatonna  
B.S. '50, University of Minnesota. Field of Concentration: Mechanical Engineering.

Frank Austin Raley, Eagle Harbor, Mich.  
B.S.E.E. with honor '38, B.S.M.E. with honor '39, Michigan College of Mining and Technology. Field of Concentration: Mechanical Engineering.

## Master of Science in Medicine

Richard Squier Benua, Columbus, Ohio  
B.S. '43, Western Reserve University; M.D. '46, Johns Hopkins University. Major: Medicine. Minor: Physiology. Thesis: The Metabolism of Thyroxine in Exophthalmic Goiter.

James Walker Butin, Wichita, Kan.  
B.A. '44, M.D. '47, University of Kansas. Major: Medicine. Minor: Physiology. Thesis: A Study of Esophageal Pressures in Normal Persons and Patients with Cardiospasm.

Edgar Lee Crumpacker, Rochester  
B.A. '38, Bridgewater College; M.D. '42, University of Virginia. Major: Medicine. Minor: Surgical Pathology. Thesis: The Histopathology of the Liver in Extrahepatic Biliary Obstruction. A Study of Surgical Biopsy Specimens.

Warren Powers Laird Myers, Rye, N.Y.  
B.S. '42, Yale University; M.D. '45, Columbia University. Major: Medicine. Minor: Physiology. Thesis: A Study of Sodium and Chloride Balances in Electrolyte and Acid-Base Disturbances.

Walter Shoemaker Phares, Pomona, Calif.  
B.S. '42, M.D. '45, Northwestern University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Cardiac Aneurysms Resulting from Transmural Myocardial Infarction—A Clinico-Pathologic Study.

Norman Shrifter, Ontario, Calif.  
B.S. '44, M.D. '45, University of Illinois. Major: Medicine. Minor: Pathology. Thesis: I. A Study of the Blood Malic Acid in Diabetes Mellitus and in Liver Disease; II. The Blood Malic Acid Response During the Intravenous Glucose Tolerance Test and the Insulin Tolerance Test; III. The Blood Malic Acid in Deep Insulin Shock.

## Master of Science in Neurology

Robert M. Peet, Dublin, Ireland  
B.Ch. '47, M.D. '49, Trinity College. Major:  
Neurology and Psychiatry. Minor: Physiology.  
Thesis: A Study of Evoked Cortical Potentials  
During Prolonged Repetitive Peripheral Sensory  
Stimulation.

## Master of Science in Neurosurgery

Ross Hays Miller, Ada, Okla.  
B.S. '43, East Central State College; M.D.  
'46, University of Oklahoma. Major: Neuro-  
surgery. Minor: Neuropathology. Thesis: Supra-  
tentorial Tumors in Children.

## Master of Science in Ophthalmology

Robert Eric Rocknem, Minneapolis  
B.S. '44, M.D. '46, University of Minnesota.  
Major: Ophthalmology. Minor: Anatomy.  
Thesis: A Study of the Effectivity of Hydro-  
sulfosol in the Treatment of Corneal Wounds.

## Master of Science in Pathology

Edward J. Benz, Pittsburgh, Pa.  
B.S. *cum laude* '44, M.D. '46, University of  
Pittsburgh. Major: Pathology. Minor: Clinical  
Pathology. Thesis: Atrophy of the Left Lobe of  
the Human Liver.

## Master of Science in Pediatrics

Johan Wijnbladh Eliot, Andover,  
Mass.  
B.A. '43, Swarthmore College; M.D. '46, Har-  
vard University. Major: Pediatrics. Minor:  
Pathology. Thesis: Cytomegalic Inclusion Dis-  
ease.

## Master of Science in Physical Medicine and Rehabilitation

Leonard Franklin Bender, Philadel-  
phia, Pa.  
M.D. '48, Jefferson Medical College. Major:  
Physical Medicine and Rehabilitation. Minor:  
Physiology. Thesis: An Experimental Study of  
the Temperatures Produced in Bone by Vari-  
ous Methods Used in Ultrasonic Therapy.

Walter John Treanor, Dublin, Ireland  
M.B., B.Ch. '46, Dublin University College.  
Major: Physical Medicine and Rehabilitation.  
Minor: Physiology. Thesis: Effects of Direct  
Heating and of Ultrasonic Irradiation on Con-  
duction in Bullfrog Sciatic Nerve.

## Master of Science in Radiology

Paul William Scanlon, Rochester  
B.A. magna cum laude '43, M.D. '46, Syracuse University. Major: Radiology. Minor: Surgical Pathology. Thesis: A Study of Osteomalacia—With Review of Cases Encountered at the Mayo Clinic During the Years 1940 to 1952 Inclusive.

## Master of Science in Surgery

Hiram H. Belding, III, Riverside,  
Calif.

B.A. '40, Dartmouth College; M.D. '43, Northwestern University. Major: Surgery. Minor: Surgical Pathology. Thesis: Anatomic and Pathologic Study of the Myenteric Plexus of the Pylorus with Special Reference to the Changes in Hypertrophic Pyloric Stenosis.

John Merwin Carey, Newington,  
Conn.

B.S. cum laude '42, Trinity College; M.D. '45, Harvard Medical School. Major: Surgery. Minor: Surgical Pathology. Thesis: Tuberculous Bronchitis: Its Relationship to Bronchial Stump Healing and Complications Following Resection for Pulmonary Tuberculosis.

Harry Blaine Durham, Jr., Casper,  
Wyo.

B.A. '41, University of Denver; M.D. '44, Northwestern University. Major: Surgery. Minor: Surgical Pathology. Thesis: Submaxillary Salivary Gland Tumors: A Clinico-Pathologic Study.

Dean Paul Epperson, Oconomowoc,  
Wis.

B.A. '42, M.D. '45, Harvard University. Major: Surgery. Minor: Surgical Pathology. Thesis: Diphosphopyridine Nucleotide Pyrophosphate of Snake Venom.

Allan Lowell Ferrin, St. Paul

B.A. cum laude '41, Willamette University; M.D. '44, University of Oregon. Major: Surgery. Minor: Pathology. Thesis: Experimental Mitral Stenosis.

George Grimsley Graham, Newport,  
Ark.

B.S. '46, M.D. '47, University of Arkansas. Major: Surgery. Minor: Surgical Pathology. Thesis: Cytological Examination of Pleural Fluid.

Calvin Reynolds Openshaw, Salt Lake  
City, Utah

B.S. '42, M.D. '44, University of Utah. Major: Surgery. Minor: Surgical Pathology. Thesis: Cavitory Malignancy of the Lung.

William Hervey ReMine, Richmond,  
Va.

M.D. '43, Medical College of Virginia. Major: Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of the Stomach with Nodal Metastasis: A Comparative Clinico-Pathologic Study According to Length of Survival after Gastric Resection.

Jorge Solis, Mexico City, Mexico

B.S. '39, M.D. '45, Universidad Nacional de Mexico. Major: Surgery. Minor: Physiology. Thesis: The Action of Protamine Sulphate and Certain Other Drugs on the Vascular System of the Rabbit.

## Master of Science in Urology

Ronald William Krumbach, Detroit,  
Mich.

M.D. '48, Syracuse University. Major: Urology. Minor: Pathology. Thesis: An Evaluation of Aortography as an Aid to Diagnosis in Urology.

## Master of Social Work

Sara Dorothy Nordlie, Moorhead  
B.A. '40, Concordia College. Field of Concentration: Social Work.

Dorothy Bishop Waller, Topeka,  
Kan.

B.A. '37, University of Kansas. Field of Concentration: Social Work.

## Doctor of Philosophy

Li Tang Au, Kwangtung, China  
B.S. in C.E. '36, National Sun Yat-Sen University; M.S. in C.E. '46, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: The Effects of Knee Braces on the Economy of Rigid Steel Frames. Major Adviser: Prof. Paul Andersen.

Douglas Barnes, Bindloss, Alberta,  
Canada

B.Sc. with distinction '46, University of Alberta; M.S. '50, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: Biology, Ecology, and Distribution of the Leafhoppers *Dalbulus elimatus* (Ball) and *Dalbulus maidis* (DeL. & W.) Two Known Vectors of the Virus Causing Corn Stunt in Mexico. Major Adviser: Prof. A. C. Hodson.

David William Bierhorst, New  
Orleans, La.

B.S. '47, M.S. '49, Tulane University. Major: Botany. Minor: Plant Genetics. Thesis: On the Morphology, Anatomy, and Phylogeny of the Psilotaceae. Major Adviser: Prof. E. C. Abbe.

Wilbur Theodore Billington, Lafayette,  
Colo.

B.S. '45, M.A. '47, University of Colorado. Major: Economics. Minor: Agricultural Economics. Thesis: Income in the Tenth Federal Reserve District—A Study in Economic Development. Major Adviser: Prof. A. R. Upgren.

Walter Thomas Bjoraker, Owatonna  
B.S. '42, M.S. '48, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of Upper Classmen in Vocational Agriculture to Identify Certain Factors Associated with the Level of Desire to Remain on the Farm. Major Adviser: Prof. M. J. Peterson.

John Richard Boulger, St. Paul  
B.B.A. '42, M.A. '50, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Discriminant Function and Differential Aptitude Testing. Major Advisers: Profs. D. G. Paterson and P. O. Johnson.

Robert Arthur Brand, Chicago, Ill.  
B.S. '47, University of Chicago. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Calorimetric Determination of the Adsorption Energy of Gases on Solid Surfaces. Major Adviser: Prof. L. H. Reyerson.

Arnold Brekke, St. James  
B.S. '42, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Development of Agricultural Policy. Major Adviser: Prof. O. B. Jesness.

Alexander Miller Buchwald, Minneapolis

B.S. '48, Columbia University. Major: Psychology. Minor: Neuropsychiatry. Thesis: Studies in Motivation and Conflict in the Rat. Major Adviser: Prof. P. E. Meehl.

Janice Evelyn Christensen, Austin,  
Tex.

B.A. *summa cum laude* '44, M.A. '46, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Constitutional Problems of National Control of the Suffrage in the United States. Major Adviser: Prof. William Anderson.

Theodore William Clymer, River  
Falls, Wis.

B.S. '49, River Falls State Teachers College; M.A. '51, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Influence of Reading Ability on the Validity of Group Intelligence Tests. Major Adviser: Prof. G. L. Bond.

William David Cohen, Queens Village,  
N.Y.

B.S. '47, State University of Iowa; M.S. '50, University of Minnesota. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Hormonal Influences on the Carbohydrate Metabolism of Isolated Muscle. Major Advisers: Prof. E. G. Frame and Dr. W. D. Armstrong.

William Ramsden Crooks, Corvallis, Ore.

B.A. '37, University of California; M.A. '39, University of Connecticut. Major: Educational Psychology. Minor: Psychology. Thesis: The Value of Personality Adjustment Questionnaire Items in the Prediction of Outcomes in College Engineering Training. Major Advisers: Profs. W. W. Cook and C. G. Wrenn.

Joseph Michael Daly, Newport, R.I. B.S. '44, Rhode Island State College; M.S. '47, University of Minnesota. Major: Botany. Minor: Agricultural Biochemistry. Thesis: Respiratory Studies on Leaves of Higher Plants. Major Adviser: Prof. A. H. Brown.

Glen R. Driscoll, Vermillion, S.D. B.A. '47, University of Louisville; M.A. '49, University of Minnesota. Major: History. Minors: English and Political Science. Thesis: Seventeenth Century Science as a Product of European Universities. Major Adviser: Prof. J. B. Wolf.

James Noble Farr, Minneapolis B.A. cum laude '48, M.A. '49, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Job Analysis by the Method of Critical Incidents of Psychiatric Aides in Mental Hospitals. Major Adviser: Prof. D. C. Paterson.

Harold Gilbertstadt, Minneapolis B.A. '48, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: An Exploratory Investigation of the Hathaway-Meehl Method of Minnesota Multiphasic Personality Inventory Profile Analysis with Psychiatric Clinical Data. Major Adviser: Prof. S. R. Hathaway.

Kenneth Albert Gilles, Minneapolis B.S. '44, University of Minnesota. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Studies on the Gums Derived from Barley Flour, Wheat Flour and Fresh and Stale Bread. Major Advisers: Profs. Fred Smith and W. F. Geddes.

Henry Goodman, Los Angeles, Calif. B.A. cum laude '41, M.A. '47, University of Minnesota. Major: Speech. Minor: English. Thesis: The Plays of William Butler Yeats as Myth and Ritual. Major Adviser: Prof. D. W. Thompson.

Arthur Leonard Gordon, St. Paul B.S. with high distinction '48, University of Minnesota. Major: Agricultural Biochemistry. Minor: Botany. Thesis: The Biochemical Behavior of Wheat Flour Doughs Supplemented with Milk Solids. Major Advisers: Profs. W. F. Geddes and Robert Jenness.

Roger Winks Gray, Minneapolis B.A. '42, M.A. '47, University of Colorado. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Impact of the Price Support Program upon the Development of the Potato Industry in the United States. Major Adviser: Prof. W. W. Cochrane.

John Kelvin Hamilton, Vancouver, British Columbia, Canada B.A. '45, M.A. '47, University of British Columbia. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Constitution of Starch. Major Adviser: Prof. Fred Smith.

Glenn Herbert Hamor, Missoula, Mont. B.S. '41, M.S. '47, Montana State University. Major: Pharmaceutical Chemistry. Minors: Organic Chemistry and Pharmacology. Thesis: The Synthesis of Some Derivatives of Saccharin. Major Adviser: Prof. T. O. Soine.

Alvin Edmund Hannah, Winnipeg, 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 Bunt in Crosses Involving Redman Wheat and Some of Its Ancestors. Major Adviser: Prof. E. R. Ausemus.

Mahmoud Adl-Eldin Ibrahim, Tanta, Egypt B.Sc. '42, Fouad I University; M.S. '50, University of Minnesota. Major: Plant Genetics. Minor: Botany. Thesis: Association Tests Between Chromosomal Interchanges in Maize and Resistance to the European Corn Borer. Major Adviser: Prof. C. R. Burnham.

Charles Ellicott Johnson, Eugene, Ore. B.B.A. with distinction '42, M.B.A. '48, University of Minnesota. Major: Business Administration. Minor: Law. Thesis: The Concept and Measurement of Business Income for Corporate Reporting. Major Adviser: Prof. E. A. Heilman.

Guy Langston Jones, Kinston, N.C. B.S. '47, M.S. '50, North Carolina State College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance of the Mode of Reaction to Stem Rust, Particularly Race 15B, and Leaf Rust in Two Crosses of Vulgare Wheats. Major Adviser: Prof. E. R. Ausemus.

John Frederick Kachmar, Akron,  
Ohio

B.S. '36, University of Akron; M.S. '47, University of Minnesota. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: A Study of the Mechanism of Potassium Activation of Pyruvic Phosphoferase. Major Adviser: Prof. P. D. Boyer.

Arthur Philip Kautz, Fayetteville,  
Ark.

B.A. '47, M.A. '48, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Jacobean Episcopate and Its Legacy: A Study of the Episcopacy in Canterbury and York During the Reign of King James I. Major Adviser: Prof. D. H. Willson.

Sping Lin, Canton, China

B.S. '40, National Sun Yat-Sen University; M.S. '50, University of Minnesota. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: Temperature Threshold of Development of Certain Insect Eggs under Constant and Variable Conditions. Major Adviser: Prof. A. G. Richards.

Joseph Tso-Ti Ling, Shanghai, China

B.C.E. '44, Hangchow Christian College; M.S. in C.E. '50, University of Minnesota. Major: Civil Engineering. Minors: Mathematics and Public Health. Thesis: Filtration of Water Through Uniform Sand Filters. Major Adviser: Prof. G. J. Schroeffer.

Richard Stanley Melton, Minneapolis

B.A. *summa cum laude* '48, Gustavus Adolphus College; M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Comparison of Clinical and Actuarial Methods of Prediction with an Assessment of the Relative Accuracy of Different Clinicians. Major Adviser: Prof. R. F. Berdie.

William Jeane Moonan, Austin

B.S. '48, M.A. '50, University of Minnesota. Major: Statistics. Minor: Educational Psychology. Thesis: The Generalization of the Principles of Some Modern Experimental Designs for Educational and Psychological Research. Major Adviser: Prof. P. O. Johnson.

Harvard Glen Nelson, Logan, Utah

B.S. '41, Utah State Agricultural College; M.S. '43, Ohio State University. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: A Study of the Lipolytic Enzymes of Raw Skim Milk and Separator Slime. Major Adviser: Prof. J. J. Jezeski.

Leonard Nicholas Norcia, Mountain  
Iron

B.Chem. '46, University of Minnesota. Major: Physiological Chemistry. Minor: Physiology. Thesis: The Use of Synthetic, Simple, Pure Triglycerides in a Study Relating to Fat Metabolism. Major Adviser: Prof. W. O. Lundberg.

Stanley F. Paulson, Minneapolis

B.A. '44, M.A. '49, University of Minnesota. Major: Speech. Minor: Psychology. Thesis: Experimental Study of Spoken Communications: The Effects of Prestige of the Speaker and Acknowledgment of Opposing Arguments on Audience Retention and Shift of Opinion. Major Adviser: Prof. Howard Gilkinson.

Blake Fuqua Putney, Farmville, Va.

B.S. '47, Medical College of Virginia. Major: Pharmaceutical Chemistry. Minors: Organic Chemistry and Pharmacology. Thesis: A Synthesis of Pseudopelletierine. Major Adviser: Prof. T. O. Soime.

Thomas Binnington Reed, Glencoe,  
Ill.

B.S. '47, Northwestern University. Major: Physical Chemistry. Minor: Mathematics. Thesis: The Crystal and Molecular Structure of 1,2-Dichloroethane at  $-140^{\circ}\text{C}$ , the Crystallography of Solid Dinitrogen Trioxide at  $-115^{\circ}\text{C}$  and the Crystallography of Cycloheptatriene. Major Adviser: Prof. W. N. Lipscomb.

Reginald Arthur Henry Robson,  
London, England

B.Sc. '49, University of London; M.A. '51, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: An Experimental Study of the Effects of Different Types of Communication on Morale in Small Groups. Major Adviser: Prof. F. S. Chapin.

William Joseph Rost, South St. Paul

B.S. '48, University of Minnesota. Major: Pharmaceutical Chemistry. Minors: Organic Chemistry and Pharmacology. Thesis: The Synthesis of Some Esters of Some N-Alkyl p-Carboxybenzamidines. Major Adviser: Prof. Ole Gisvold.

Francis Gordon Schoff, Fargo, N.D.

B.A. '27, M.A. '32, University of Minnesota. Major: English. Minor: French. Thesis: Aspects of Shakespearean Criticism, 1914-1950—A Commentary Centered on British and American Criticism of Hamlet. Major Adviser: Prof. Huntington Brown.

Harold L. Segal, Minneapolis

B.S. '47, Carnegie Institute of Technology; M.S. '51, University of Minnesota. Major: Agricultural Biochemistry. Minor: Physical Chemistry. Thesis: Kinetic Studies of Enzyme Reactions—I. Extension of Kinetic Analysis; II. Mechanism of Action of 3-Phosphoglyceraldehyde Dehydrogenase. Major Adviser: Prof. P. D. Boyer.

James Allan Shute, McDonald, Pa.

B.S. '42, M.S. '47, Pennsylvania State College. Major: Agricultural Economics. Minor: Economics. Thesis: A Comparison of Dairy Cattle Labor Requirements for Stall and Loose Housing Barns. Major Adviser: Prof. S. A. Engene.

Robert Lawrence Skiles, Denver, Colo.

B.S. '47, M.S. '50, Colorado State College. Major: Plant Pathology. Minor: Plant Genetics. Thesis: The Strawberry Viruses in Minnesota. Major Advisers: Profs. T. H. King and E. C. Stakman.

Robert Stephen Soar, Miami, Fla.

B.A. with high honors '48, University of Florida; M.A. '49, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Height-Width Proportion and Stroke-Width in Numeral Visibility. Major Advisers: Profs. D. G. Paterson and M. A. Tinker.

Paul Oswald Stratton, Laramie, Wyo.

B.S. '47, M.S. '50, University of Wyoming. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: The Comparative Effectiveness of Selection in Swine Before and After Testing Their Progeny. Major Adviser: Prof. L. M. Winters.

Michael Stusiak, Vancouver, British Columbia, Canada

B.A.Sc. '43, M.A.Sc. '44, University of British Columbia. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Studies in Vapor-Phase Esterification. Major Adviser: Prof. N. R. Amundson.

John Harold Thompson, Jr., Rochester

B.A. '43, Heidelberg College; M.S. '48, Ohio State University. Major: Zoology (Parasitology). Minor: Bacteriology. Thesis: An Investigation of the Host-Parasite Relationship of *Schistosoma mansoni*. Major Advisers: Dr. T. B. Magath and Prof. F. G. Wallace.

Arnold Jackson Tingley, Amherst, Nova Scotia, Canada

B.A. *summa cum laude* '49, Mount Allison University; M.A. '50, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: A Generalization of the Poisson Formula for the Solution of the Heat Flow Equation. Major Adviser: Prof. R. H. Cameron.

Robert Alan Tinkham, Minneapolis

B.E. '39, Mankato State Teachers College; M.A. '49, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: Design in Industrial Arts—A Study of Creative Modern Design as It Relates to the Teaching of Industrial Arts. Major Adviser: Prof. W. J. Micheels.

Robert George Turnbull, Iowa City, Iowa

B.A. '39, University of Minnesota; B.D. '43, Oberlin College. Major: Philosophy. Minor: Sociology. Thesis: An Examination of C. D. Broad's Moral Philosophy. Major Adviser: Prof. W. S. Sellars.

Sana Ullah, Punjab, Pakistan

B.Sc. '42, M.Sc. '49, University of Punjab; M.S. '51, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: Factors Affecting Persistence of Milk Production in Dairy Cattle. Major Adviser: Prof. M. C. Hervey.

Jacob Wilner, Indian Head, Saskatchewan, Canada

B.S.A. '36, University of Saskatchewan; M.S. '47, University of Minnesota. Major: Horticulture. Minor: Plant Physiology. Thesis: A Study of the Effects of Desiccation and Low Temperatures on the Extent of Winter Injury to Certain Woody Plants. Major Adviser: Prof. W. G. Brierley.

John Leonard Yarnell, Topeka, Kan.

B.A. '47, M.A. '49, University of Kansas. Major: Physics. Minor: Mathematics. Thesis: Determination of the Cross Section for the Production of Protons by the Deuteron Bombardment of He<sup>3</sup> as a Function of Proton Angle and Deuteron Energy. Major Advisers: Profs. J. H. Williams and J. M. Blair.

George Henry Zimny, Chicago, Ill.

Ph.B. '46, M.A. '49, Loyola University. Major: Psychology. Minor: Educational Psychology. Thesis: The Effects of Certain Techniques of Inducing Motivation upon a Learning and a Performance Task. Major Advisers: Profs. M. A. Tinker and W. A. Russell.

## Doctor of Philosophy in Dermatology and Syphilology

Thomas Bernard Fitzpatrick, Portland, Ore.

B.A. '41, University of Wisconsin; M.D. '45, Harvard Medical School. Major: Dermatology and Syphilology. Minor: Pathology. Thesis: Studies on Human Melanogenesis. I. Biochemical Studies in Normal Pigment Cells and Pigment-Cell Neoplasms. II. Biochemical Factors Regulating Melanogenesis. III. Biochemical Basis of Pigmentary Disorders. Major Adviser: Dr. Hamilton Montgomery.

## Doctor of Philosophy in Medicine

Leslie Zieve, Minneapolis

B.A. magna cum laude '37, M.A. '39, M.D. '43, University of Minnesota. Major: Medicine. Minor: Biostatistics. Thesis: Part I. The Incidence of Residuals of Viral Hepatitis. Part II. An Evaluation of Factors Influencing the Discriminative Effectiveness of a Group of Liver Function Tests. Major Adviser: Dr. C. J. Watson.

## Doctor of Philosophy in Neurosurgery

Donald A. Johnson, Memphis, Tenn.

M.D. '45, George Washington University; M.S. '49, University of Minnesota. Major: Neurosurgery. Minor: Physiology. Thesis: Factors Affecting Cortical and Subcortical Responses to Photic Stimulation in the Cat. Major Adviser: Dr. W. McK. Craig.

## Doctor of Philosophy in Physiology

Henry Mead Cavert, Minneapolis

B.S. '42, M.D. '51, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: Metabolism of Carbon 13-Labeled Substrates and Kinetics of Deuterium Oxide Exchange in the Isolated Heart. Major Adviser: Dr. Nathan Lifson.

## Doctor of Philosophy in Surgery

Ward N. Van Patter, Aylmer, Ontario, Canada

M.D. '44, University of Western Ontario. Major: Surgery. Minor: Pathology. Thesis: Sarcoid-like Lesions of the Small and Large Bowel. Major Adviser: Dr. M. B. Dockerty.



# CAPS AND GOWNS

## AN EXPLANATION

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

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

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

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

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

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

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

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

(In the order of 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, Home Economics, and Veterinary Medicine .....	maize
College of Education.....	light blue
School of Business Administration.....	drab
Law School .....	purple
School of Dentistry.....	lilac
College of Medical Sciences.....	green
Graduate School.....	black



# UNIVERSITY OF MINNESOTA

## *Senior Reception*

*December 1952*

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