



# UNIVERSITY OF MINNESOTA

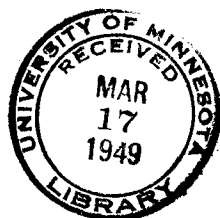
*March Commencement*

*1949*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, MARCH 17

AT EIGHT O'CLOCK





## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

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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*

*The University of Minnesota: "FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED BY UNDERSTANDING, DEDICATED TO THE ADVANCEMENT OF LEARNING AND THE SEARCH FOR TRUTH, DEVOTED TO THE INSTRUCTION OF YOUTH AND THE WELFARE OF THE STATE"—this is your University.*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota will soon celebrate its one hundredth birthday. While nearing this milestone, as from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to actively participate in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded 89,574 degrees to its students who have completed the rigorous training demanded by the complexities and specialization of modern society.

In addition to the enormous task of giving collegiate instruction to some twenty-seven 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, the Master Piano Series, the University Theatre, and of the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not because it is the second largest state university in the nation, but because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in their University is a dynamic, living thing and expresses itself in many ways. Contributions from them now make it possible for the great Mayo Memorial building and for the new Variety Club Heart Hospital to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made relatively small gifts to provide an endowed research professorship in heart diseases. Gifts to the Greater University Fund, each appropriately called "A Share in Greatness," now being made especially by alumni, are worthy of special mention.

The graduates at this March commencement, 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:** Guests will be seated as they arrive at 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:

Prairie Legend - - - - - **Siegmeister**

Bullwhackers Dance

Harvest Evening

County Fair

Rhapsody based on themes from the opera,

“The Legend of Tsar Saltan” - - - - - **Rimsky-Korsakov**

French Military March Song from “The Desert Song” - - - **Romberg**

Processional: Procession of the Nobles from “Mlada” - - **Rimsky-Korsakov**

**PROCESSIONAL:** As candidates for degrees enter the Auditorium at 8:00 p.m. the curtain will be drawn. Seated on the platform left to right, are: Dr. Tracy F. Tyler, Associate Professor of General Education, Acting Chief Marshal; Mr. Keith McFarland, Assistant to the Dean of the College of Agriculture, Forestry, and Home Economics, Acting Marshal; The Reverend Kenneth E. Wade, Member, Minnesota Councils of Religion and Adviser to Congregational Students, University of Minnesota; Dr. R. K. Gaumnitz, Assistant Dean of the School of Business Administration; Mr. True E. Pettengill, Recorder; Mr. Maynard E. Pirsig, Dean of the Law School; Dr. Athelstan F. Spilhaus, Dean of the Institute of Technology; Dr. Horace T. Morse, Dean of the General College; The Honorable E. E. Novak, Member of the Board of Regents; Dr. Malcolm M. Willey, Vice President of Academic Administration; Mr. Howard Pierce Davis; Dr. James Lewis Morrill, President of the University; The Honorable Fred B. Snyder, First Vice President and Chairman of the Board of Regents; Dr. Theodore C. Blegen, Dean of the Graduate School; Mr. W. T. Middlebrook, Vice President of Business Administration; Dr. Henry Schmitz, Dean of the College of Agriculture, Forestry, and Home Economics; Dr. Myron M. Weaver, Assistant Dean of the College of Medical Sciences; Dr. T. Raymond McConnell, Dean of the College of Science, Literature, and the Arts; Dr. Wesley E. Peik, Dean of the College of Education; Dr. Katharine J. Densford, Director of the School of Nursing; Mr. Roy A. Schuessler, Assistant Professor of Music; Dr. Ernst C. Abbe, Professor of Botany, Acting Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University ROTC and NROTC cadets, enters the Auditorium, the audience will rise and remain standing.

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

## Order of Events

INVOCATION: The Reverend Kenneth E. Wade, B.D., Member, Minnesota Councils of Religion and Adviser to Congregational Students, University of Minnesota.

COMMENCEMENT ADDRESS: "Tear-Marks of Progress," Mr. Howard Pierce Davis, Observer and Analyst of World Affairs.

CONFERRING OF DEGREES: Dr. Tracy F. Tyler, acting as Chief Marshal, will introduce the various deans or their representatives who will present the candidates for the degrees in their respective colleges. These, in order of their introduction, are: Dean Horace T. Morse, Ph.D., for the General College; Miss Katharine J. Densford, D.Sc., for the School of Nursing; Dean T. Raymond McConnell, Ph.D., for the College of Science, Literature, and the Arts; Dean Athelstan F. Spilhaus, D.Sc., for the Institute of Technology; Dean Henry Schmitz, Ph.D., for the College of Agriculture, Forestry, and Home Economics; Dean Maynard E. Pirsig, LL.B., for the Law School; Assistant Dean Myron M. Weaver, M.D., Ph.D., for the College of Medical Sciences; Dean Wesley E. Peik, Ph.D., for the College of Education, and for the College of Education and the College of Agriculture, Forestry, and Home Economics; Assistant Dean R. K. Gaumnitz, Ph.D., for the School of Business Administration, and for the School of Business Administration and the College of Agriculture, Forestry, and Home Economics; Dean T. Raymond McConnell, Ph.D., for the University College; Dean Theodore C. Blegen, Ph.D., for the Graduate School; Assistant Dean Myron M. Weaver, M.D., Ph.D., for the College of Medical Sciences. All degrees will be conferred by President James Lewis Morrill, LL.D. Immediately afterwards, certificates and diplomas will be presented by each dean to the graduates of his college.

The candidates for the doctor of philosophy degree, the highest degree offered by the University, will be presented individually by Dean Theodore C. Blegen to President James Lewis 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: The University Concert Band

"Marche Slave" - - - - - Tschaikowsky

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

## *Candidates for Graduation*

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

### GENERAL COLLEGE

#### Associate in Arts

Sherman Bruce Aplin, Minneapolis	Steven Earl Mackenstadt, Minneapolis
Eugene Clarence Applen, Cyrus	Mary Ruth Maertz, St. Paul
Herbert O. Berg, Minneapolis	John Louis Melland, St. Paul
John Allan Berg, Hanska	Arthur Frank Morrissey, Jr., Minneapolis
John Frederick Cafarelli, Minneapolis	Irving Moses, Minneapolis
Lyle Frederick Carpenter, Albert Lea	Tyler Belt Murphy, Minneapolis
Melvin Chase, St. Paul	Wayne Phillip Northfield, Minneapolis
Joseph Eugene Chesla, Minneapolis	William Peter Pauly, Minneapolis
Harvey Mack Christensen, St. Paul	Carol Virginia Pehrson, Minneapolis
Frances Patricia Clements, Mankato	Savino Edward Ranallo, Minneapolis
Walter Theodore Connett, St. Paul	Ronald Anthony Richard, Minneapolis
Don Arthur Desler, St. Paul	Howard Loren Ronning, Minneapolis
Rivian Toby Desnick, Minneapolis	William Albert Rouch, Jr., Minneapolis
Solly Jerome Fingerman, Minneapolis	Joy Harris Saeks, Duluth
Marvin Donald Fremming, St. Louis Park	Thomas Lawrence Sanborn, Minneapolis
Robert Edward Gabler, Robbinsdale	Harriet G. Shink, Minneapolis
Ralph Eugene Galchutt, Minneapolis	Dorothy Ann Sianko, St. Paul
Oliver Samuel Granner, Ortonville	Ethyl Simon, St. Paul
Betty Lee Gross, Minneapolis	Eileen Mae Simpson, St. Paul
William Edmund Haas, St. Paul	Lloyd Smith, East St. Louis, Ill.
Mary Antoinette Haberl, Minneapolis	Andrea Carroll Sorenson, Minneapolis
Fred Chatfield Hansen, St. Paul	Donald William Stevens, St. Paul
Boyd Reuben Hanson, Big Delta, Alaska	William Charles Stevens, Minneapolis
Robert James Holm, Minneapolis	Charles Henry Stevenson, Jr., St. Paul
Sydney Richard James, Excelsior	William James Stoneberg, Minneapolis
Donald Joseph Johnson, Jeffers	Louis Evert Voss, St. Paul
Robert Harvey Johnson, St. Louis Park	John Campbell Wiggins, Jr., Minneapolis
Robert Bruce Johnston, Minneapolis	Gordon Winger, Minneapolis
Kenneth Jones, St. Paul	Douglas Richard Witt, Minneapolis
James Edward Joyce, New Richmond, Wis.	Joseph Wolf, South St. Paul
Harold Elmer Kampff, St. Paul	
Vincent O. Law, Jr., St. Paul	
Howard E. Leppla, St. Paul	
William W. Lunde, Lake City	

## COLLEGE OF MEDICAL SCIENCES

### Graduate in Nursing\*

Marilyn Jay Arnett, Willmar	Mary Gale Molenaar, Carver
Nancy Ann Bryant, B.A., Maryville, Tenn.	Ruth Bernice Olney, B.S. magna cum laude, Montrose
Vivian Adele Harriman, B.Ed., M.A., Eau Claire, Wis.	Constance Marie Otten, Minneapolis
Doris Lorraine Johnson, St. Hilaire	Irmagene Sanford, B.A., St. Paul
Doris Mathilda Johnson, Pierz	Lois Caroline Tripp, New Richmond, Wis.
Joan Elizabeth Kuka, Delano	Ruth Angeline Weltzin, B.A., Minne- apolis
Rose Marie Elaine Kyper, Milwaukee, Wis.	

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Daryl Bruce Bolstad, Morris	Mary Jane Lash, Minneapolis
Ruth Elizabeth Erbstein, Des Moines, Ia.	Marilyn Elaine Mankoff, Minneapolis
Arthur MacKenzie Johnson, St. Paul	Lester Edward Peterson, Jr., Minne- apolis
Thomas Arthur Kalogerson, Jr., Min- neapolis	Harrington Calvin Powers, Jr., Louis- ville, Ky.
Mary Jane Kenney, Minneapolis	Herbert Waldo Tousley, Jr., Minne- apolis
Leland Erwin Kirkemo, Deer River	
Robert Allen Laffin, St. Paul	

### Bachelor of Arts

Jean Rockwell Anderson, Minneapolis	Robert Burton Brink, Minneapolis
Lawrence Carl Anderson, Minneapolis	Merle Broberg, Eagle Bend
June Ellen Austin, Minneapolis	Richard Maurice Bryan, Menomonie, Wis.
Robert Winston Battey, St. Paul	Barbara Aune Burke, Minneapolis
Betty Jane Bergquist, St. Paul	Jack Stanley Burnstein, Minneapolis
John Edward Bergstrom, Jr., Enderlin, N.D.	Joan Elizabeth Burt, Minneapolis
Alice Irene Bjella, McIntosh, MAGNA CUM LAUDE	Kenneth Eugene Burton, St. Paul
John Wendel Bjerke, Minneapolis	Jack Douglas Cahn, St. Paul
Marilyn Lois Blacker, Minneapolis, MAGNA CUM LAUDE	Hiel Stillman Campbell, Minneapolis
William Remington Bolen, Minne- apolis	Margaret Elizabeth Carey, Two Har- bors
John Henry Bouma, Edgerton	Beatrice Charlotte Casadont, Sterling, N.D., CUM LAUDE
John Paterson Brantner, Minneapolis, MAGNA CUM LAUDE	Raymond Paul Christensen, Minne- apolis, MAGNA CUM LAUDE
Theodore S. Breiner, Minneapolis	Nancy Louise Coffin, Milwaukee, Wis.
Dorothy Ruth Bremicker, Minne- apolis	

\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to June 11, 1949.

Clarence Joseph Corrigan, White Bear Lake  
 Shirley Lois Cotter, St. Paul, *SUMMA CUM LAUDE*  
 Martin Wesley Cox, Miltonvale, Kan.  
 Jean Elizabeth Cranston, B.A., Minneapolis  
 Helen Josephine Cushman, St. Paul  
 Eileen Willow Danelz, Minneapolis, *CUM LAUDE*  
 James Vernon Davis, Minneapolis  
 Gerald J. Dengler, Minneapolis  
 William Maclean Dickson, Staten Island, N.Y.  
 D. Carol Berge Disch, Minneapolis  
 Kathleen Florence Dornon, Minneapolis  
 Barbara Louise Drayna, Kelly Lake  
 Mason Benson Dumont, Clinton, Ia.  
 Paul Wentland Eaton, Minneapolis  
 Page Rossiter Edmondson, Mankato  
 Ward Emil Edwards, Minneapolis  
 Vernon Loren Edwardson, Albert Lea  
 Richard Thomas Eggert, St. Paul  
 Morton David Elevitch, Duluth, *SUMMA CUM LAUDE*  
 Howard Lyman Ellinwood, Davenport, Ia., *MAGNA CUM LAUDE*  
 Pearl Kathryn Englund, St. Paul  
 Merle-Anne Epstein, Minot, N.D., *CUM LAUDE*  
 Clifton Faust Erickson, Winthrop  
 Carl Ernest Ewert, Jr., Minneapolis  
 Charles Ray Ewy, Mankato  
 Margaret Buffington Fast, San Diego, Calif.  
 Herbert Joseph Feinberg, Fitchburg, Mass.  
 Stanley Evert Finsness, St. Paul  
 Robert Sigvart Follestad, Minneapolis  
 Virginia Anne Forslund, Minneapolis  
 Wynn Franklin Foster, Minneapolis  
 Alfred Edwin Marshall France, St. Paul  
 John Frederick Ganfield, Hastings  
 Fred Garetz, Minneapolis  
 John Lawrence Garske, Minneapolis  
 Charles Edward Gellerman, Minneapolis  
 David Joseph Gellman, Minneapolis  
 Elaine Kay Goldberg, Minneapolis, *MAGNA CUM LAUDE*  
 Charles Arthur Gorder, Minneapolis  
 Edna Frances Grossman, New York, N.Y., *CUM LAUDE*  
 Newman Guttman, Minneapolis  
 Elizabeth R. Z. Gyler, A.A., St. Paul  
 John Stockton Haertel, Minneapolis  
 Charles Anthony Haertzen, Minneapolis  
 Robert Milton Hagberg, Minneapolis  
 Suzanne Eugenia Hall, St. Louis Park  
 Norbert Anthony Halloran, Bird Island  
 Ann Renee Hansen, St. Louis Park  
 James C. Hansen, Jr., Sioux Falls, S.D.  
 William J. Hanvik, Minneapolis  
 James Robert Harkins, Minneapolis, *CUM LAUDE*  
 Walter Adolph Hartland, Minneapolis  
 Hermanda Clara Hasse, Tenney  
 Jack Arthur Hedlund, St. Paul  
 Orlando Jack Heinitz, Mountain Lake  
 Priscilla Jane Herbold, Anoka, *CUM LAUDE*  
 Jean Elodie Hermanson, Fargo, N.D.  
 LeRoy Higgins, Minneapolis  
 Evelyn E. Hogan, Minneapolis  
 John Marcus Holmes, Minneapolis  
 John Ervin Horner, Hopkins, *MAGNA CUM LAUDE*  
 Lionel Horwitz, Minneapolis  
 Dale Hostvet, Thief River Falls  
 Mary Colville House, Minneapolis  
 George Hovland, Duluth  
 James Francis Hughes, Red Wing  
 Marjorie Larson Ingebrigtsen, Minneapolis  
 Herman Sievert Jackson, Jr., Duluth  
 Glenn Allen Jacobson, Minneapolis  
 Marvin Petersen Jessen, Askov  
 Robert Bennett Johnson, Bemidji  
 Winton Jones, Wayzata  
 Charles Gerald Jordahl, Lake Park  
 Carol Mae Jorgensen, Balaton  
 Charlotte Elaine Kenis, Mankato  
 Leo Francis Kenneally, Elkader, Ia.  
 John Joseph Killen, Jr., Minneapolis  
 Dorothy Louise Kincaid, Minneapolis  
 William Ellsworth Kirkwood, Crookston



- Gerald W. Kloss, Hopkins, SUMMA  
CUM LAUDE
- Carol Corinne Kocher, South St. Paul
- Francis Anthony Kohout, St. Paul
- Roald Edgar Kolstad, B.S., St. Paul
- Gordon Christian Krantz, Red Wing
- Melvin Henry Laikola, A.S., Eveleth
- Edith Margaret Law, St. Paul
- Barbara Anne Lee, Austin, MAGNA  
CUM LAUDE
- Beverly Jensen Lee, Minneapolis
- Angela Mac Lilja, Ely
- Charles Richard Lindquist, Minne-  
apolis
- Nancy-Dell Lund, St. Paul
- John Alden Lundquist, Minneapolis
- Douglas Lyle, Minneapolis
- Neil Roderick MacKay, Robbinsdale
- Vera Makivirta, B.S. in Lib. Sci.,  
Minneapolis, CUM LAUDE
- Lawrence Charles Mantini, Chisholm
- Barbara Jo McDevitt, International  
Falls
- Charles Bartlett McGuire, St. Cloud,  
CUM LAUDE
- Ted Arthur McKibben, St. Cloud
- Geraldine Mary McMeekin, St. Paul
- David John Meckel, Wadena
- Judd Lewis Meester, Sioux Falls, S.D.
- Elsie Julia Metzler, St. Paul
- Bernard Raymond Meyers, Minne-  
apolis
- Louise Eleanor Miller, Minneapolis,  
CUM LAUDE
- Beverly Abbie Minkin, Omaha, Neb.
- William Robert Monat, Virginia,  
MAGNA CUM LAUDE
- Dale Bertram Monk, Minneapolis
- Joan Margaret Mooney, Minneapolis,  
CUM LAUDE
- Bertrand Francis Murphy, Minne-  
apolis
- Roger L. Neitzel, Minneapolis
- Jean Stoetzel Neuman, Litchfield
- Louise Harriet Nudelman, Chicago,  
Ill.
- Carroll Joseph O'Boyle, St. Paul Park
- Sheila S. Oliver, International Falls
- Kenneth George Olson, St. Paul
- Lorna Marie Orescanin, Wild Rose,  
Wis., CUM LAUDE
- Stanley Stewart Pearson, St. Paul
- Sidney Morris Peck, St. Paul
- Marydee Peik, Carrington, N.D.
- Eugene James Petersen, Harlan, Ia.
- Clell Thompson Peterson, Minne-  
apolis, CUM LAUDE
- Eva Jean Pettes, Minneapolis
- Robert John Picker, St. Paul
- Jean Ueland Pile, Minneapolis
- Calvin Parker Pond, Minneapolis
- John Richard Quirk, St. Paul
- Suzanne Alice Ramer, St. Paul
- Dorothy Overn Randolph, St. Paul
- William Earle Reed, Minneapolis
- Robert Alan Remole, Minneapolis,  
SUMMA CUM LAUDE
- Harold Lee Rosenthal, Sioux City, Ia.,  
CUM LAUDE
- George William Ryan, Minneapolis
- Margaret Colleen Ryan, Minneapolis
- James Arnold Ryberg, St. Paul
- Donald Edward Sailer, B.E.E.,  
Tacoma, Wash.
- Waiva Jean Salisbury, Fergus Falls,  
CUM LAUDE
- Dorothy Luise Schelhart, Heron Lake
- Alfred Reck Schendel, Olivia
- Frank Edward Schiel, Brainerd
- Kenneth Albert Schulz, St. Paul
- Richard Narum Schwab, Pelican  
Rapids, MAGNA CUM LAUDE
- Alan Shirey, Minneapolis
- Anne Bertha Shom, Minneapolis
- Norman Silverman, Minneapolis,  
MAGNA CUM LAUDE
- John Ronald Smight, Minneapolis
- Darrell Norman Smith, A.A., Milroy
- Leslie Otto Smith, A.A., Hutchinson
- Robert John Smith, Minneapolis,  
SUMMA CUM LAUDE
- Theodore Charles Snyder, St. Cloud
- Marjorie Ann Staack, Minneapolis,  
CUM LAUDE
- James Martin Stanton, St. Paul
- Dorothy Elaine Statham, St. Paul
- Stephen Sucich, Chisholm
- \*Edward Michael Sullivan, Minne-  
apolis

\* Degree conferred as of August 28, 1947.

†Ella Jean Taplin, Hancock  
Donna Marie Tauer, Rochester  
Sarah Louise Taylor, Wilmington,  
Calif., CUM LAUDE

Murray Arnold Thompson, Minne-  
apolis

John Joseph M. Tonrich, Minneapolis

John Townsend, Jr., Wilmette, Ill.

Jack Lee Tracy, Minneapolis

Joan Florence Way, Anoka

Robert Franklin Welsh, A.A., Min-  
neapolis

Alvin Charles Weseley, Brooklyn,  
N.Y.

Emerson Lee Wheeler, Minneapolis  
Nancy White, Minneapolis  
Mary Louise Whiteman, Austin  
John William Wiersma, Grundy  
Center, Ia.

Gene Bruce Wilson, Minneapolis

Wyman Elliott Wisti, Minneapolis

Fritz Paul Witt, Minneapolis

Robert Norman Wold, Minneapolis

Lauritz A. Wolden, Rochester

Kenneth Roy Young, Minneapolis

Virginia Amalia Young, Watertown,  
S.D.

## Bachelor of Science in Library Science

Beverly Jensen Lee, Minneapolis

Emma Elise Storsteen, B.A., North-  
field

## INSTITUTE OF TECHNOLOGY

### Bachelor of Aeronautical Engineering

William Frank Anderson, Ely

John Leonard Arnquist, Hoffman

Ronald Melvin Bang, Ada

Richard Truman Brundin, Minne-  
apolis

John Irvin Elliott, Rosemount

Alson Clifford Frazer, St. Paul

Carl Alvin Fredrickson, Minneapolis

Robert Edwin Harlin, Minneapolis

Didrik Christian Hveding, Oslo, Nor-  
way, WITH DISTINCTION

Jack Maurice Isenberg, Minneapolis

Bud Forest Johnson, Paris, Ark.

Ervin Theodore Kautt, Newport

Harold Wayne Klopfenstein, Aber-  
deen, S.D., WITH DISTINCTION

Hans Gerhard Stub Knudsen, Oslo,  
Norway

Arlin Frederick Laier, Cushing, Wis.,  
WITH DISTINCTION

John Charles Larson, Minneapolis,

WITH DISTINCTION

Ellwood Ray Lindholm, A.S., Ely

Leslie Elof Lundquist, Minneapolis,  
WITH DISTINCTION

Benjamin Phillip Martin, Ladysmith,  
Wis.

Stanley Russell Murnane, St. Paul

Kazuo Frederick Okano, Seattle,  
Wash.

Allen Kenneth Olson, Minneapolis

Richard Arvid Peterson, Minneapolis

Bjorn Ringstad, Aalesund, Norway

Richard Paul Schumann, Arlington

Melvin Cecil Shrader, Austin

James Edwin Turnquist, Duluth

Jack Edward Van Orden, St. Paul

Leonard Elmer Wesendorf, Austin

### Bachelor of Agricultural Engineering

Alton Wilhelm Almquist, St. Hilaire

Elmer Leroy Cloud, Withron, WITH  
DISTINCTION

Vernon Homer Fobes, Moorhead

John Widlof Gustafson, Minneapolis

David Wellington Hubbell, St. Paul

Edward Herman Schentzel, Balaton

Lawrence Joseph Thompson, Madison

† Degree conferred as of June 14, 1947.

## Bachelor of Architecture

Robert Arthur Bennighof, Minneapolis  
George Frederick Klein, Jr., Minneapolis

*Frank Mikutowski, South St. Paul,*  
WITH HIGH DISTINCTION  
John Dale Sandt, Minneapolis  
*Tetsuya Ted Sugano, Los Angeles,*  
*Calif., WITH DISTINCTION*

## Bachelor of Civil Engineering

Robert Charles Bradford, Alexandria  
James Leonard Breedlove, Brownsdale  
James Merle Cunningham, Marissa, Ill.  
Donald Owen Dencker, Minneapolis  
LaVearn Oscar Engquist, Minneapolis  
Alan Theodore Fleischbein, Mahtomedi  
Franklin Ross Hoeft, Princeton

Harvey Gaylon Lillemon, Greenbush  
Charles Edward Marzolf, St. Paul  
Harry John Nordahl, Virginia  
Donald Wayne Peterson, Wahpeton, N.D.  
Denis Michael Saeugling, Minneapolis  
Donald Armtzen Voves, Wahpeton, N.D.  
James Philip Wahl, St. Cloud

## Bachelor of Electrical Engineering

*Albert Eldon Anderson, Huntley,*  
WITH DISTINCTION  
Donald George Anderson, Minneapolis  
William Kenton Balding, St. Paul  
Richard Lain Berry, St. Paul  
Milton Bick, St. Paul  
John Dilkes Bland, St. Paul  
Norman Alvin Boldt, St. Paul  
Erling Oscar Brandon, Minneapolis  
Marvin Henry Bruce, St. Paul  
Richard Alan Carlson, Albert Lea  
Wilfred Aubry Cresap, Estherville, Ia.  
Clark Gilbert Davis, Sleepy Eye  
Duane Hewitt Davis, St. Paul  
Leslie Rudolph Deppe, St. Paul  
David H. DeSutter, Minneapolis  
Dwight Lemuel Howard Edwins, St. Paul  
Grant George Ericson, Duluth  
*George Edward Fessler, West Chicago, Ill.,*  
WITH DISTINCTION  
Thomas Richard Gibson, White Bear Lake  
Richard Robert Gilmore, Minneapolis  
Kenneth Thomas Grace, Minneapolis  
Howard Granquist, Duluth  
Walter Edward Griffin, St. Paul

Earl Arthur Grindheim, Minneapolis  
Carl Henry Haakana, Minneapolis  
David William Hammel, Owatonna  
Byron Olson Hansen, Minneapolis  
Allyn Glenn Hanson, Minneapolis  
Richard Phillip Hanson, Deer River  
David Ellis Hartig, Robbinsdale  
*Leonard Walter Helke, Grand Marais,*  
WITH HIGH DISTINCTION  
Robert Clifton Herrick, White Bear Lake  
Henry Horn, Jr., Sheboygan, Wis.  
Ralph Allan Jondahl, Minneapolis  
Orville Arthur Kalkoske, Minneapolis  
Charles Karjalainen, Duluth  
John Cowles Kerns, Gulfport, Miss.  
Robert Albert Kiscaden, Minneapolis  
Norman K. Knafla, Sauk Rapids  
Hugh William Larsen, Minneapolis  
Rawson Fremont Laythe, Renton, Wash.  
Frank Everett Locke, Providence, R.I.  
Kenneth John Mahoney, Minneapolis  
Edward Joseph Makowske, Minneapolis  
*Sidney Martin Martinson, Taylors Falls,*  
WITH HIGH DISTINCTION  
Thomas Wayne Moodie, Minneapolis

LaVern Joseph Nado, Minneapolis  
 Duane Everett Nibbelink, St. Paul  
 Millard John Nisja, Milwaukee, Wis.  
 Harold James Olson, Hudson, Wis.  
 Gordon Arthur Peterson, Minneapolis  
 Wesley Donavon Peterson, Wheaton  
 David Lloyd Plette, St. Paul  
 Patrick Guido Porfiri, Buhl  
 Leo Edward Rainville, Minneapolis  
 Lawrence Arthur Robert, Duluth  
 Clarence Robert Russell, South Sioux  
 City, Neb.  
 Donald Herbert Sandell, Minneapolis  
 Donald Laverne Skaar, Minneapolis

Willis Numbers Skiff, Minneapolis  
 Richard LeRoy Soderlind, Minne-  
 apolis  
 Frank Michael Sovis, Centerville,  
 S.D., WITH DISTINCTION  
 Richard Lee Thoen, Minneapolis,  
 WITH DISTINCTION  
 Allan Chester Thorpe, Hayward  
 Charles Harold Wexler, Minneapolis,  
 WITH HIGH DISTINCTION  
 Lloyd Erwin Winter, Long Prairie,  
 WITH DISTINCTION  
 Richard Dunlop Woodcock, Chicago,  
 Ill.

## Bachelor of Mechanical Engineering

Erland Stanley Anderson, Minne-  
 apolis  
 Jerome Roy Anderson, Minneapolis  
 Russell Alfred Anderson, Minneapolis  
 Richard Quinten Bachman, Minne-  
 apolis  
 Kenyon Belknap, Ceylon  
 John Worrall Berkman, Rochester  
 Philip Edward Boekhoff, St. Paul  
 Ralph Francis Books, Rochester  
 Norman William Bryant, Jr., Minne-  
 apolis  
 Donald Joseph Carlson, Minneapolis  
 Ernest John Cramolini, Minneapolis  
 William James Davies, Minneapolis  
 Jack Homer Doty, Minneapolis  
 Melvin Herbert Erickson, Robbins-  
 dale  
 Robert Peter Ericson, Duluth  
 Theodore Maurice Fredrick, Duluth  
 Richard Thomas Gadbois, Minne-  
 apolis  
 Robert Bruce Gangnath, Minneapolis  
 Edmund Gelfand, Kimball, S.D.  
 Harold Calvin Hanson, Gheen, WITH  
 HIGH DISTINCTION  
 Paul Waldo Haugland, Wheaton  
 Calvin Francis Henk, St. Paul  
 Lawrence Warren Hillman, Two  
 Harbors, WITH DISTINCTION  
 James Hunegs, Minneapolis  
 Andrew Philip Jensen, Minneapolis  
 Arthur Allan Johnson, St. Cloud  
 Edwin Robert Johnson, Minneapolis

Kenneth Verlan Johnson, Minne-  
 apolis  
 Earl Carlton Juhl, Minneapolis  
 John Leroy Kooiker, B.E.E. Boyden,  
 Ia., WITH DISTINCTION  
 Ted Clarence Kruchowski, Chisholm  
 Kenneth Thomas Kuefler, Sauk Cen-  
 tre, WITH DISTINCTION  
 William John Laughlin, Minneapolis  
 Arthur Martin Lohmann, Minne-  
 apolis, WITH HIGH DISTINCTION  
 Leonard George Miller, Robbinsdale  
 Leonard James Morgan, St. Paul  
 Harry Nadler, Minneapolis  
 Donald Earl Necker, Minneapolis  
 Robert William Nolting, Minneapolis  
 Clifford Herman Ott, Dubuque, Ia.,  
 WITH DISTINCTION  
 Warren Tompkins Peterson, St. Paul  
 Howard Francis Piette, Moose Lake  
 Rodger John Ryberg, St. Paul  
 Harry Ernest Schmidtke, Minneapo-  
 lis, WITH HIGH DISTINCTION  
 Richard Anthony Schnell, B.S. in  
 Naval Science, Stillwater  
 William August Schultz, Minneapolis  
 Donald William Seifert, Winona  
 George Theodore Sizoo, Los Angeles,  
 Calif.  
 A. Dale Slettedahl, St. Paul  
 Barnard Elliot Smith, Seattle, Wash.,  
 WITH DISTINCTION  
 Melvin Walter Ulrich, Le Sueur  
 Howard Earl Wallin, St. Paul

Orville Gordon Wickre, St. Paul  
Willis Carlyle Winther, Minneapolis  
Vernon Lester Woodard, Minneapolis

Donald John Woodhouse, Minne-  
apolis  
John Edward Youngberg, Lindstrom  
Neil Joseph Zachman, Minneapolis

## Bachelor of Chemical Engineering

Noel George Mattaini, St. Paul  
Donald Wallace Peterson, Minne-  
apolis  
Downie Stevens Richardson, Newport

Joseph R. Sexton, Minneapolis, WITH  
DISTINCTION  
Arlyn John Wells, Becker

## Bachelor of Chemistry

Neil Huddleston Fick, Minneapolis  
Paul Gilbert Johnson, St. Cloud  
Robert Henry Lindquist, Minneapolis,  
WITH DISTINCTION  
Harvey Arthur Mahlman, La Crosse,  
Wis.

Richard Joseph Morath, St. Paul  
Vernon Walter Olson, Jr., Minne-  
apolis, WITH DISTINCTION  
Paul Noel Richardson, Minneapolis,  
WITH HIGH DISTINCTION  
Ray Earley Wheeler, Jr., Duluth

## Bachelor of Physics

George Andrew Bakalyar, Duluth  
Warren Thomas Borgeson, Park  
River, N.D., WITH DISTINCTION

John Earl Naugle, Belle Fourche,  
S.D., WITH DISTINCTION  
Everette Charles Olson, Millville

## Bachelor of Mining Engineering

Bruno Scipioni, A.S., Virginia

Harland John Stetson, Crosby

# COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

## Bachelor of Science

Leo William Ahsenmacher, Minne-  
apolis, Forestry  
Dudley A. Anderson, Wyndmere,  
N.D., Agriculture  
Edwin Byron Bauman, St. Paul, Agri-  
culture  
Eugene Francis Bossenmaier, St. Paul,  
*Fish and Wildlife Management*,  
WITH HIGH DISTINCTION  
Edwin George Braa, Minneapolis,  
Forestry

Wesley D. Bryant, Minneapolis, Food  
Technology  
Einar Rolf Burtness, Caledonia, Agri-  
culture  
James Campbell Carlson, Dundas,  
Agriculture  
Helen Estella Clement, Henning,  
Home Economics  
Irene Mae Coutts, Minneapolis, Home  
Economics  
Richard Leo Davis, St. Paul, Agricul-  
ture, WITH DISTINCTION

- Joseph Melvin Elliott, Minneapolis, Agriculture, WITH DISTINCTION
- Elizabeth Edna Dennis Fiero, Hutchinson, Home Economics
- Arthur Phillip Fischer, Minneapolis, Food Technology
- Lois Renee Fornell, Minneapolis, Home Economics
- Theodore Anthony Grahek, Ely, Science Specialization
- Dorothy Jane Hanke, Ph.B., Chicago, Ill., Science Specialization
- Glen Alvin Hemerick, Madelia, Science Specialization
- Ralph Warren Hendricks, Watertown, Agriculture
- Raymond James Higgin, Minneapolis, Agriculture
- Harold Edwin Hogle, Long Prairie, Agriculture
- Murray Jenness, Dover, N.H., Agriculture
- Edward Joseph Krigbaum, Minneapolis, Agriculture
- Anne Margaret Krueger, New Ulm, Home Economics
- Charles Victor Lamont, Elysian, Agriculture
- George Allan Larson, Jr., Atwater, Forestry
- Richard Carl Lee, Bayport, Forestry
- Harry Melvin Nordby, Appleton, Agriculture
- Earl Talbert Northouse, Mabel, Agriculture
- Lorraine Nathalia Omholt, Minneapolis, Home Economics
- Joseph Henry Patchin, Truman, Agriculture
- William Mark Pribyl, Jackson, Forestry, WITH DISTINCTION
- Russell Randall Reinarz, Mizpah, Agriculture
- Russell Richard Ruud, Minneapolis, Agriculture
- Emerson Lyman Sapp, Minneapolis, Agriculture
- Richard Ernest Schroeder, Minneapolis, Forestry
- Kenneth LeRoy Schulz, Battle Lake, Agriculture
- Erwin Ambrose Schwinghamer, St. Martin, Forestry
- Warren Joseph Scidmore, Minneapolis, Fish and Wildlife Management
- Thomas Akiyoshi Seto, Tacoma, Wash., Science Specialization
- Robert Frederic Straub, Jr., Minneapolis, Agriculture
- Wilmer Frank Strelow, Winona, Forestry, WITH DISTINCTION
- Helen Louise Thompson, St. Paul, Home Economics
- John Reuben Thompson, Underwood, Agriculture
- Stanley Elden Thorson, Gary, S.D., Agriculture
- Walter Raymond Tollefson, Fergus Falls, Agriculture
- Walter Oscar Twite, Cook, Agriculture, WITH DISTINCTION
- M. Jean White, St. Paul, Home Economics

## Master of Forestry

Arthur Elmer Lindholm, B.S., Milwaukee, Wis.

## LAW SCHOOL

### Bachelor of Science in Law

Leonard Tobias Juster, Minneapolis  
Donald Eugene Roberts, St. Paul

John Clark Rowland, St. Paul  
Donald Laverne Rudquist, Minneapolis

## Bachelor of Laws

- Donald Hayes Bruer, B.S.L., Minneapolis  
Harold William Brunn, B.A. cum laude, Minneapolis  
Donald Rodney Bundlie, B.S.L., Pipestone  
Earl Frank Cheit, B.S.L., Minneapolis  
Alden Winship Clausen, B.A., Minneapolis  
John Robert Coughlin, B.A., Minneapolis  
Keith C. Davison, B.S.L., Minneapolis  
Ralph John Erickstad, B.S.L., Starkweather, N.D.  
Harold Orlin Foreman, B.S.L., Redwood Falls  
David Roch Fortier, B.S., Little Falls  
George Hale Gould, B.S.L., Minneapolis  
Gervaise A. Hatfield, B.A., Minneapolis  
John Alfred Hautman, B.A., Minneapolis  
John Edward Haverly, B.S.L., Minneapolis  
Robert J. Johnson, B.A., M.B.A., Minneapolis  
James Theodore Knutson, B.S.L., Slayton  
John Arnold Larson, B.S.L., Minneapolis  
Wilbur Morse Lasley, B.S.L., Minneapolis  
Milton Learner, B.S.L., Chicago, Ill.  
Lawrence Casper Merthan, B.A., St. Paul  
Irving Nemerov, B.S.L., Minneapolis  
Stanley Charles Olson, B.S.L., Ada  
John Ray Parker, B.A. cum laude, Minneapolis  
Durward Lefeune Pederson, B.S.L., Hendricks  
Robert August Peterson, B.S.L., Minneapolis  
Aldo Dante Pieri, B.S.L., Minneapolis  
John Albert Pierro, B.S.L., Minneapolis  
Donald Eugene Roberts, St. Paul  
Roland Gene Schubert, B.S., Echo  
Ralph Clare Streater, Jr., B.S.L., Mankato  
Arthur Robert Swan, B.S.L., Rochester  
Bernard Charles Tierney, B.S.S., St. Paul  
Wallace Melrose Tripp, B.A., Spencer, Ia.

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science

- Lillie Christine Astrup, R.N., Grenora, N.D., Public Health Nursing  
Harriette Myrtle Broman, Atwater, *Medical Technology, WITH DISTINCTION\**  
Marion Annette Calph, St. Paul, Occupational Therapy  
Betty Virginia Carlson, St. Paul, *Medical Technology*  
Mary Jane Chellsen, G.N., Minneapolis, Public Health Nursing  
Marilyn Joy Dahl, Minneapolis, *Medical Technology\**  
Mary Louise Enger, Minneapolis, *Medical Technology, WITH DISTINCTION\**  
Dorothy Mary Faber, B.S., St. Paul, *Medical Technology\**  
Mary Willa George, Northfield, *Medical Technology\**  
Nora Muriel Hedegard, Detroit, Mich., Public Health Nursing

\* These degrees are conferred subject to satisfactory completion of required practical work prior to June 11, 1949.

Elsie Dorothea Hennig, Selby, S.D.,  
Occupational Therapy  
Ruth LuCretia Hodgkins, R.N., Wal-  
dorf, Public Health Nursing, WITH  
DISTINCTION  
Martha Ovedia Johnson, Maddock,  
N.D., Public Health Nursing  
Mary Nelson Lakie, R.N., Barnesville,  
Public Health Nursing, WITH DIS-  
TINCTION  
Frances Adele Miernicke, R.N.,  
Duluth, Public Health Nursing  
Ethel S. E. Osberg, Minneapolis,  
Public Health Nursing

Vivian Lorayne Poster, St. Cloud,  
Public Health Nursing  
Alice Kullhem Rice, R.N., Denver,  
Colo., Public Health Nursing  
Betty Louise Snyder, G.N., Grand  
Rapids, Public Health Nursing  
Ruth Mary Stenstrom, St. Paul, Medi-  
cal Technology\*  
Dorothy Maxine Tan, Esko, Medical  
Technology\*  
Jeanette R. Thibodo, Stephen, Public  
Health Nursing  
Gladys Trestrail Walker, Minneapolis,  
Public Health Nursing, WITH DIS-  
TINCTION

## COLLEGE OF EDUCATION

### Bachelor of Science

Kenneth Lee Austin, Roseau  
Lois Esther Ayer, Bradford, N.H.†  
Paul Gottlieb Baer, New Ulm  
Beatrice Ann Bang, Fertile  
Warren Lawson Beson, Minneapolis  
Alvin Bigelow, Browns Valley  
Victor Valasie Bitu, Winona  
Robert Dean Brown, Elbow Lake,  
WITH DISTINCTION  
Charles Hubert Buch, Fond du Lac,  
Wis., WITH DISTINCTION  
Leonard Joseph Celusnak, Minne-  
apolis  
Frederick C. Chipman, Duluth  
Kenneth Allen Clausen, A.A., Minne-  
apolis  
William Oliver Cook, Minneapolis  
John Dacko, Minneapolis  
Everett Eugene Dodge, Buffalo Lake  
Richard Alfred Dols, Minneapolis  
Mark H. Doyne, Minneapolis  
Peter John Dzubay, B.A., Minneapolis  
Richard Owen Egan, Adrian  
Melvin Glenn Engelbretson, A.A.,  
St. Paul  
James Willard Erickson, Minneapolis  
Beverly Eriksen, Madison, Wis.

Bernard George Farestad, Claremont,  
WITH DISTINCTION  
Richard Edwin Fehner, Minneapolis  
Patricia Ann Filben, B.A., St. Paul  
Doris M. Flemming, Minneapolis  
William Joseph Grassl, Minneapolis,  
WITH DISTINCTION  
Marjorie Louise Guernsey, Minne-  
apolis  
Maysie Alma Hansen, Minneapolis  
Theodore Quentin Hellie, Thief River  
Falls, WITH DISTINCTION  
Helen Anderson Hillman, Two Har-  
bors  
Donald Holmen, Upsala, WITH HIGH  
DISTINCTION  
Harold John Holmes, Floodwood  
Nancy Ann Holter, Chisholm  
Dean Fredrick Hyland, Minneapolis  
Bernard Janesky, Virginia  
Donald Eric Johnson, Minneapolis  
Doris Lorraine Johnson, St. Hilairt  
Edward Paul Johnson, St. Paul  
Robert Kenneth Jones, Eveleth  
Michael Kissell, Minneapolis  
Joseph Francis Kuzniar, Minneapolis  
Lois Frances Lackner, St. Paul

\* These degrees are conferred subject to satisfactory completion of required practical work prior to June 11, 1949.

† Nursing Education Curriculum.



John Howard Leslie, St. Paul  
 John Robert Lindquist, Minneapolis  
 Fred Lundquist, Minneapolis, WITH  
 HIGH DISTINCTION  
 Roy Warren Magnuson, Minneapolis  
 Donald Jerome Manning, Minneapolis  
 Cleo Frances Mattson, Beulah, N.D. †  
 James Francis McComas, Brainerd  
 Harold Lee Miles, St. Paul  
 Gardner Lester Miller, East Chain  
 Mary Gale Molenaar, Carver, † WITH  
 DISTINCTION  
 Glen LeRoy Morgan, St. James, WITH  
 DISTINCTION  
 Sylvia Morrill, A.A., Minneapolis  
 Ina Lien Nelson, Minneapolis  
 Lois Irene Nelson, Minneapolis  
 Eugene Howard Newstrom, Minne-  
 apolis  
 Mary Josephine Nilssen, B.A., Minne-  
 apolis

Kenneth Thomas Parent, Foley  
 Cyril Eugene Pepera, Lakeville  
 Barbara Jane Rollag, Garretson, S.D.  
 Charles Allan Ryan, Minneapolis  
 Ebba Vendella Sandberg, Kennedy  
 Emma Kathryn Schmider, Park  
 Rapids, WITH DISTINCTION  
 Mary Catharine Schreffler, R.N.,  
 Ashland, Pa. †  
 Verner Alvin Severson, St. Peter  
 Owen Winford Skreen, Minneapolis  
 Mary Jean Snyder, Minneapolis  
 George Charles Straka, Minneapolis  
 Alice Otilie Vana, Cleveland, Ohio,  
 WITH HIGH DISTINCTION †  
 Betty Jane Wendtland, G.N.,  
 St. James †  
 Ruth Elizabeth Wolkerstorfer, White  
 Bear Lake, WITH HIGH DISTINCTION

## Master of Education

Mildred Marie Page, B.S. in Ed.,  
 Milan, Mo.

Gordon Lindberg Starr, B.S., Minne-  
 apolis

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

### Bachelor of Science

Kenneth Bertrum Freeman, Atwater,  
 Agricultural Education, WITH DIS-  
 TINATION  
 John Robert Grenier, Red Lake Falls,  
 Agricultural Education  
 Lorraine Frances Hartman, Minne-  
 apolis, Home Economics Educa-  
 tion, WITH DISTINCTION

Gerald LeRoy Herbert, Foreston,  
 Agricultural Education  
 Joan Gertrude Pfllepsen, Montrose,  
 Home Economics Education, WITH  
 DISTINCTION

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

John Wesley Allison, Lakefield  
 Robert Sam Aluni, Virginia  
 Glenn Hildum Anderson, Eveleth  
 James McFarland Anderson, Man-  
 kato

George Sheldon Barquist, St. Paul  
 Douglass Steele Benham, Minneapolis  
 John Gustave Benjamin, Hutchinson  
 James Walker Bergford, Minneapolis,  
 WITH HIGH DISTINCTION

† Nursing Education Curriculum.

Norman Bernick, Minneapolis  
 Robert Oliver Blatti, Fairmont  
 John August Bodeman, Minneapolis  
 Arnold Bornhoft, Minneapolis  
 Harvey Leveroos Botten, St. Paul  
 Kenneth E. Broin, Minneapolis  
 Myron Joseph Broms, Minneapolis  
 John Edward Brown, Nashwauk  
 Donald Theodore Brude, Minneapolis  
 Curtis Carr Bullard, Montevideo  
 William August Bunde, Eau Claire,  
 Wis.  
 James Edward Burau, Jamestown,  
 N.D.  
 James John Burelbach, Perham  
 Boyd Kurtz Cadwell, Minneapolis  
 Clifford Woodrow Call, St. James  
 Malcolm Eugene Cammack, St. Paul  
 Warren Leonard Carlson, Deerwood  
 Albert William Cherne, Buhl  
 Donald Lawrence Clifford, Minne-  
 apolis  
 Thomas James Clinton, Minneapolis  
 Chester Charles Cox, Superior, Wis.  
 Charles Gerard Cunningham, Minne-  
 apolis  
 Joseph Cyril Dansereau, Jr., St. Paul  
 Gordon Eugene Dathe, Barnum  
 Kenneth Gray Dickson, Sioux City,  
 Ia.  
 Herbert Albert Eisenberg, Duluth  
 Carl Eknes, Scanlon  
 Charles Rex Eldred, St. Cloud  
 Helen Ruth Engen, St. Paul  
 Marshall H. Everson, Minneapolis  
 George Oliver Falkenberg, Minne-  
 apolis  
 James Emmitt Fitzgerald, St. Paul  
 Eugene Roy Frank Flug, St. Paul  
 William Norman Friede, Sheboygan,  
 Wis.  
 Raymond Sabastian Fries, St. Paul  
 Robert Louis Gabe, Gladstone, Mich.  
 Nestos O. B. Garnaas, Minneapolis  
 Richard Robert Gilmore, Minneapolis  
 James Russell Goetz, Dodge, N.D.  
 Thomas Allen Granfield, Omaha,  
 Neb.  
 Kenneth Francis Greene, Minneapolis  
 James Arthur Gunderson, Fergus Falls  
 John Henry Gustafson, Minneapolis

Gordon Earl Hackman, St. Paul  
 David William Hammel, Owatonna  
 Norman Junior Hammergren, Forest  
 Lake  
 Dale Wilbur Hathaway, Beach, N.D.  
 Robert Wayne Hayner, Bayport  
 William Eugene Heeger, Sioux City,  
 Ia.  
 Albert Andrew Heikkila, Florenton  
 Phyllis Mary Herrmann, A.A., St. Paul  
 Lawrence Warren Hillman, Two Har-  
 bors, WITH DISTINCTION  
 Clarence William Hogberg, Jr.,  
 St. Paul  
 Donald Ward Johnson, Minneapolis  
 Howard Charles Johnson, Minneapolis  
 Robert Louis Johnson, Minneapolis  
 Robert Warren Johnson, B.S.L., St.  
 Paul  
 Douglas Lee Johnston, Minneapolis  
 Donald Lambert Jones, West Concord  
 Friedrich Karl, Minneapolis  
 Clifford John Kent, Jamestown, N.Y.  
 Donald George King, Jackson  
 George Elmer Klouda, Hopkins  
 Charles Robert Krusell, Virginia  
 Reuben Edward Larkin, Jr., Mahto-  
 medi  
 George Albin Larson, St. Paul  
 Lloyd Edward Larson, Milaca  
 William Fred Lenker, Colome, S.D.  
 Thomas Norman Lenvik, Minneapolis  
 Craig Wyman Letch, St. Paul  
 Donald Lennart Lindbom, Buhl  
 Agnes Lorraine Luehmann, Lewiston,  
 WITH DISTINCTION  
 Melvin Francis Lundberg, Minne-  
 apolis  
 James Oliver Lundquist, Minneapolis  
 Harry Hunter MacLaughlin, Jr.,  
 Wahpeton, N.D., WITH DISTINC-  
 TION  
 George Anthony Magnus, Duluth  
 Harvey Arthur Mahlman, La Crosse,  
 Wis.  
 Luddy Roy Martinson, Milaca  
 John Patrick McGrand, Rochester  
 Norman G. Moen, Minneapolis  
 Gilbert Wilde Murphy, Mound  
 Levern Theodore Narveson,  
 Owatonna

Richard Andrew Nelson, Montevideo  
Ivar Stanley Noreen, Minneapolis  
Wayne Larry Norin, Minneapolis  
Wallace Carl Ogren, Red Wing  
Andrew Matthew Oleston, Jr., Minne-  
apolis

Dennis Hennis Olson, Minot, N.D.  
Michael John O'Malley, Austin  
Francis L. Pearthree, East Lake  
William John Peil, Duluth  
Warren Gerald Peterson, Minneapolis  
Walter William Petroski, Minneapolis  
Alvin Albert Rahn, Minneapolis  
Gordon Walton Robertson, Grand  
Rapids, N.D.

Robert Waldemar Rode, Minneapolis  
Charles Rogers, Duluth  
Eugene Arthur Rogstad, Minneapolis  
Frank William Roon, Fulda  
Thomas Alva Ryan, Windom  
Clair Lorraine Ryden, Minneapolis  
Robert Arthur Sasse, St. Charles  
Miles John Schatz, St. Paul  
Donald Edward Schmeling, Foley  
Stanley Grover Scott, A.A., Minne-  
apolis

Willard Ned Sears, Pottstown, Pa.  
*James Howard Shikany, Minneapolis,*  
WITH DISTINCTION

Robert Ellsworth Shirley, B.Aero.E.,  
Minneapolis

James Robert Shore, Winnipeg,  
Manitoba, Canada

John Samuel Siverts, Minneapolis  
Curtis Leroy Sjoberg, Hendrum  
Ray Hustad Smith, Austin  
Leslie Howard Starr, Spring Valley  
Everett Pascoe Stephens, Turtle Lake,  
N.D.

Francis Joseph Sues, Jr., St. Paul  
Stanley Joseph Sustercich, Ely  
George Masaharu Suzuki, St. Paul  
George Charles Swanbeck, Jr.,  
B.Aero.E., Minneapolis

*Julian Clifford Teigen, Kenyon, WITH*  
HIGH DISTINCTION

John Kenneth Teman, Duluth  
Herbert Waldo Tousley, Jr., Minne-  
apolis

Arne Ulvi, Farmington  
Clifford E. Warre, Minneapolis  
Reuben Eugene Watlov, Underwood  
George Benjamin Wattson, Minne-  
apolis

William B. Webber, Minneapolis  
John Theodore Westrom, Cambridge  
James Angus Whitney, Duluth  
Orville Gordon Wickre, St. Paul  
Roger Gerhardt Williams, B.M.E.,  
Minneapolis

Wayne Williamson, St. Paul  
Douglas Leonard Wood, Minneapolis  
Stephen Brown Woodrich, Minne-  
apolis

## Bachelor of Science in Economics

Donald Patrick Considine, St. Paul  
Leo Gordon Flaten, Atwater

Donald Walter Philipson, Cobden

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

### Bachelor of Agricultural Business Administration

Donald Alan Davies, Minneapolis

# UNIVERSITY COLLEGE

## Bachelor of Arts

Ardath Helen Bierlein, Renville  
Howard Delbert Brenner, Minneapolis  
William Ferguson Dingle, St. Paul  
Leo Joseph Lauterbach, Redwood  
Falls

Elwood Richard Moesle, Minneapolis  
Marlys Corinne Mohn, Northfield  
Mervin Bernard Tomsky, Minneapolis  
Gerald Francis Walsh, Minneapolis

## Bachelor of Science

James Sheldon Berman, Minneapolis  
John Owen Converse, Minneapolis,  
MAGNA CUM LAUDE

Frank Shear, St. Paul  
Robert Edmund Sielaff, Minneapolis

# GRADUATE SCHOOL

## Master of Arts

Peter C. Apostolakos, Duluth  
B.B.A. '40, B.S. '47, University of Minnesota.  
Field of Concentration: Educational Psychology.

Richmond Grenfell Banks, Bennett,  
Wis.

B.E. '42, Superior State Teachers College.  
Field of Concentration: Educational Administration.

Harry Martin Beukelman, Minneapolis  
B.A. '43, Augustana College. Field of Concentration: Social Work.

Wallace John Bonk, Two Rivers, Wis.  
B.A. *magna cum laude* '47, University of Minnesota. Field of Concentration: English.

Gerald Allen Busch, St. Paul  
B.Aero.E. with distinction '47, University of Minnesota. Field of Concentration: Economics.

Harry Lee Butler, Minneapolis  
B.A. *magna cum laude* '42, Hamline University. Major: French. Minor: Spanish. Thesis: The Realism of Champfleury: A Definition.

Hazel M. Calhoun, Chetek, Wis.  
B.E. '40, Superior State Teachers College.  
Field of Concentration: Curriculum and Instruction.

Arline Steiner Caplan, Minneapolis  
B.A. '46, University of Minnesota. Field of Concentration: Psychology.

Mollie Nix Curtright, Savannah, Ga.  
B.S. '35, Kansas State College. Field of Concentration: Education.

James W. Davis, Frankfort, S.D.  
B.A. '41, Valley City State Teachers College.  
Field of Concentration: Political Science.

Glen Robert Driscoll, Minneapolis  
B.A. '47, University of Louisville. Field of Concentration: History.

Jean Duncan, St. Paul  
B.A. '23, Vassar College. Major: Art. Minor: Architecture. Thesis: Twenty-five Paintings in Oil of Historical Sites of Northern Minnesota.

Donald Merrill Follingstad, Bird  
Island  
B.A. '47, St. Olaf College. Field of Concentration: American Studies.

Helen Catherine Griffin, Anaconda,  
Mont.  
B.A. '33, University of Montana; M.A. '36, University of Minnesota. Field of Concentration: Social Work.

Jan Harsem, Oslo, Norway  
B.B.A. '47, Stockholm University College of Commerce. Field of Concentration: Business Administration.

Fern Ostrom Hedenstrom, Minneapolis

B.S. '40, University of Minnesota. Major: Curriculum and Instruction. Minor: History of Education. Thesis: The Effects of Reading Selected Books on Children's Attitudes.

Casper Helge Hegdal, Minneapolis

B.S. '37, University of Minnesota. Field of Concentration: Educational Administration.

Helen Anne Hendricks, Minneapolis

B.A. '45, University of Minnesota. Major: Zoology. Minor: Entomology. Thesis: The Microscopic Fauna of the Sandy Beaches of Three Minnesota Lakes

John Philip Hendrickson, Valley City, N.D.

B.A. '47, State University of Iowa. Field of Concentration: International Relations.

Esther Marie Johnson, Marcus, Ia.

B.S. '42, Iowa State College. Major: Home Economics Education. Minor: Home Economics. Thesis: Study of Possibilities for Family Life Education at the Elementary School Level.

Bill Garton Knepper, South Sioux City, Neb.

B.A. '46, University of Minnesota. Major: English. Minor: American Literature. Thesis: The Problem of Topical Allegory in Godly Queen Hester.

Gladys Erna Koepke, Elmore

B.A. '30, Yankton College. Field of Concentration: Educational Psychology.

Harold Granville Kraft, Menomonie, Wis.

B.S. '39, The Stout Institute. Field of Concentration: Education.

Eugene David Larkin, Minneapolis

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

Maurice Carl Lawson, St. Paul

B.A. '46, Wheaton College. Field of Concentration: English.

Richard Burton McHugh, Minneapolis

B.A. *magna cum laude* '44, University of Minnesota. Field of Concentration: Statistics.

Dorothy Trandeff Michalson, St. Paul

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

James Joseph Mullen, Minneapolis

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

Sylvia Dolhinow Reisman, Los Angeles, Calif.

B.A. '38, University of California. Field of Concentration: Social Work.

Patrick Dominic Rocchio, St. Paul

B.A. '41, College of St. Thomas. Field of Concentration: Educational Psychology.

Harold Albert Ronnenberg, Mankato

B.S. with honor '37, Mankato State Teachers College. Field of Concentration: Journalism.

Evelyn Sue Roth, Milwaukee, Wis.

Ph.B. '44, Mount Mary College. Field of Concentration: Social Work.

Lester Clayton Sartorius, Welcome

B.B.A. with distinction '41, University of Minnesota. Field of Concentration: Economics.

Francis Seawall, Duluth

B.B.A. '43, University of Minnesota. Field of Concentration: Geography.

David Wakefield Shepard, Minneapolis

B.S. '47, University of Minnesota. Major: Speech. Minor: English. Thesis: Six Plays of the Social Theatre: The Method of Didactic Drama.

Sister Mary Emily (Dery), Duluth

B.A. '39, College of St. Scholastica. Major: French. Minor: English. Thesis: The Personality of Bossuet as Portrayed in the Works of His Biographers.

Aung Thein, Moulmein, Burma

B.A. '41, Rangoon University. Field of Concentration: Education.

George Joseph Vuke, Virginia

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

Albert Barnum Wade, St. Paul

B.A. '40, University of Minnesota. Field of Concentration: Social Work.

John Samuel Wannamaker, St. Paul

B.A. '35, Carleton College. Major: Music. Minor: English. Thesis: An Analysis of the Three Sonatas for Piano by Paul Hindemith.

Mary Ruth Wannamaker, St. Paul

B.M. '44, Colorado State College. Major: Music. Minor: English. Thesis: A Study of the Two Piano Concertos of Brahms with Emphasis on Expressive Content.

Laura Belle Wear, Wayne, Pa.

B.S. '46, Purdue University. Field of Concentration: Mathematics.

Orville Wesley Woestehoff, St. Cloud  
B.S. '41, St. Cloud State Teachers College.  
Field of Concentration: Educational Admin-  
istration.

Dorothy Mae Zakowski, Suamico,  
Wis.

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

## Master of Arts in Public Administration

Vincent Washburn Allin, Minne-  
apolis  
B.B.A. '40, University of Minnesota. Field  
of Concentration: Public Administration.

Frank Winston Fager, Oak Park, Ill.  
B.A. '42, Coe College. Major: Public Admin-  
istration. Thesis: A Study of the Informal Pro-  
cedures of the National Labor Relations Board.

Henry Horace Burry, Minneapolis  
LL.B. '32, LL.M. '34, Minneapolis—Minne-  
sota College of Law. Major: Public Administra-  
tion. Thesis: Village Clerks' Manual.

Pauline Maris Mayo, Evanston, Ill.  
B.A. '42, Oberlin College. Major: Public Ad-  
ministration. Thesis: The Taxing Power and  
the Financial Dilemma of Cities.

## Master of Business Administration

Robert William Jarvis, Minneapolis  
B.E.E. '48, University of Minnesota. Field of  
Concentration: Business Administration.

## Master of Science

Ralph William Adams, Waucoma, Ia.  
B.S. '39, Iowa State College. Field of Con-  
centration: Agricultural Economics.

James Ernest Fisher, Minneapolis  
B.Ch.E. '42, University of Minnesota. Field  
of Concentration: Mathematics and Mechanics.

Mir Hamed Ali, Hyderabad, India  
B.S. '42, LL.B. '45, Osmania University.  
Major: Entomology. Minor: Plant Pathology.  
Thesis: The Effect of Different Temperatures  
on the Development of Eleven-Spotted Cu-  
cumber Beetle, *Diabrotica undecimpunctata*  
Mannerheim howardi Barber under Laboratory  
Conditions.

Ruth Lillian Fritch, Moorhead  
B.A. '38, Northwest Nazarene College. Field  
of Concentration: Home Economics Educa-  
tion.

Paul Herman Anderson, Custer, S.D.  
B.S. '43, South Dakota School of Mines and  
Technology. Major: Metallurgy. Minor:  
Mechanical Engineering. Thesis: Hot Dip  
Tinning of Low Carbon Steels: A Considera-  
tion of the Effect of Cold Working upon the  
Tinning Properties of Steel.

Ruth Frances Hovde, Minneapolis  
B.S. '38, University of Minnesota. Major:  
Anatomy. Minor: Physiology. Thesis: The  
Bone Marrow in Infectious Mononucleosis.

Victor William Beck, St. Paul  
B.E.E. with distinction '45, University of  
Minnesota. Field of Concentration: Mathe-  
matics and Mechanics.

Sanaa El-Sayed Khalafallah, Cairo,  
Egypt  
B.Sc. '44, Fouad I University. Field of Con-  
centration: Physical Chemistry.

Viola Thomas Butler, Chicago, Ill.  
B.S. '32, Kansas State Teachers College. Field  
of Concentration: Home Economics Educa-  
tion.

Walter John Kleinschmidt, Evansville,  
Ind.  
B.S. '40, Indiana University. Major: Agricul-  
tural Biochemistry. Minor: Bacteriology. The-  
sis: Immuno Chemical Studies of Factors  
Modifying the Interaction of Egg Albumin  
and Anti-Egg Albumin.

Bertram Wilson Downs, Jr., Beverly  
Hills, Calif.  
B.S. '46, California Institute of Technology.  
Field of Concentration: Physics.

Jerome Henry Kuehn, Minneapolis  
B.S. '42, University of Minnesota. Major:  
Zoology. Minor: Entomology and Economic  
Zoology. Thesis: A Study of a Population of  
Longnose Dace (*Rhinichthys cataractae cata-*  
*ractae*).

Vincent Ellsworth Kurtz, Minneapolis  
B.A. '47, University of Minnesota. Major: Geology. Minor: Zoology. Thesis: Iron-ton and Lower Franconia of Southeast Minnesota.

Arnold Ludwig Lehmann, Minne-  
apolis

B.A. '40, University of Saskatchewan; M.D. '44, University of Manitoba. Major: Physiology. Minor: Pathology. Thesis: Studies on Circulation in the Tail of the Mouse.

John Edward Maloney, St. Paul

B.S. '43, St. Cloud State Teachers College. Major: Zoology. Minor: Botany. Thesis: A Study of the Relationship of Food Consumption of the Bluegill, *Lepomis macrochirus* Rafinesque to Temperature.

Robert Leroy Manly, Jr., Houston,  
Tex.

B.S. '47, Texas Agricultural and Mechanical College. Major: Geology. Minor: Inorganic Chemistry. Thesis: The Differential Thermal Analysis of Certain Phosphates.

Gerald Raymond McKay, St. Paul

B.S. '39, University of Minnesota. Field of Concentration: Agricultural Education.

Perry Morgan, Minneapolis

B.Ch. with distinction '44, University of Minnesota. Major: Organic Chemistry. Minor: Bacteriology. Thesis: The Mechanism of the Hunsdiecker Reaction.

Ontario Horia Nestor, Youngstown,  
Ohio

B.A. *magna cum laude* '43, Marietta College. Field of Concentration: Physics.

Norman Jacob Ordal, River Falls,  
Wis.

B.S. '42, University of Minnesota. Major: Economic Zoology. Minor: Botany. Thesis: A Study of the Effect of Certain Seed Treating Compounds on Upland Game Birds.

Gerald William Probst, Morris

B.S. *cum laude* '43, St. Thomas College. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Some Reducing Substances in the Urine of the Rat and the Effect of Diet Thereon.

Donald Charles Spindler, Middle-  
town, Ohio

B.S. with honors '43, Capital University. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Equilibria in Aqueous Solutions of Ferric Ion and 8-Hydroxyquinoline.

John Dixon E. Sterling, Nappam,  
Nova Scotia, Canada

B.S.A. '45, Ontario Agricultural College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: The Inheritance of Flesh Colour and Clubroot (*Plasmodiophora brassicae*) Reaction in Swedes (*Brassica campestris* var. *napobrassica*).

Ileen Eleanor Stewart, Winnipeg,  
Manitoba, Canada

B.Sc. '43, University of Manitoba. Major: Zoology. Minor: Entomology. Thesis: Gametogenesis in *Leptorhynchoides thecatus* and *Pomphorhynchus bulbocolli*.

Theodore Martin Swanson, Minne-  
apolis

B.S. '47, University of Minnesota. Major: Metallurgy. Minor: Mechanical Engineering. Thesis: Stress Corrosion Cracking in Wrought High Strength Aluminum Alloys.

Betty Siao-Yun Tsai, Kwangsi, China

B.S. '42, National Kwangsi University. Major: Horticulture. Minor: Entomology. Thesis: A Study of the Effects of Sprout-Inhibiting and Sprout-Inducing Chemicals on the Growth and Yields of the Potato.

Hortense Selena Williams, Hemp-  
stead, Tex.

B.S. '46, Prairie View University. Field of Concentration: Home Economics.

## Master of Science in Electrical Engineering

Cheng Ling, Hengchow Chekiang,  
China

B.S. in E.E. '43, La Universitato Utopia.  
Field of Concentration: Electrical Engineer-  
ing.

## Master of Science in Mechanical Engineering

Liang-yi Chu, Peiping, China  
B.S. '44, Yenching University. Field of Concentration: Mechanical Engineering.

Warren Edward Snyder, Minneapolis  
B.S. in M.E. '43, University of Kansas. Field of Concentration: Mechanical Engineering.

Ralph Griffith Nevins, Jr., Dodge City, Kan.

B.S. in N.T. '45, B.M.E. '47, University of Minnesota. Major: Mechanical Engineering. Minor: Metallography. Thesis: Comparison of the Film Coefficient of Heat Transfer of Air and Flue Gas.

## Master of Science in Dermatology and Syphilology

William George McCreight, Oklahoma City, Okla.

B.S. '32, University of Southern California; B.A. '36, Oklahoma City University; B.S. '40, M.D. '40, University of Oklahoma. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: Histopathology of Cutaneous Changes in Lupus Erythematosus with Special Reference to Vascular Changes.

## Master of Science in Medicine

Neil Kenneth White, Dinuba, Calif.

B.S. '38, M.D. '41, University of Minnesota. Major: Medicine. Minor: Pathologic Anatomy. Thesis: A Correlation of the Degree of Coronary Atherosclerosis with Age in the Male.

## Master of Science in Otolaryngology and Rhinology

James Oliver Gooch, Dallas, Tex.

M.D. '39, Tulane University. Major: Otolaryngology and Rhinology. Minor: Surgical Pathology. Thesis: A Clinical and Pathological Study of Tonsil Tags.

## Master of Science in Surgery

George Cornell Henegar, Harvey, Ill.  
B.S. '42, M.D. '42, University of Illinois. Major: Surgery. Minor: Pathology. Thesis: The Cytology of the Pituitary Gland of Rats with Experimental Goiter.

Raymond Kenneth Minge, Fergus Falls

B.A. '34, St. Olaf College; M.D. '39, University of Minnesota. Major: Surgery. Minor: Anatomy. Thesis: Intra-abdominal Adhesions: An Experimental Study on Use of Short Wave Diathermy and Dicumerol.



# COLLEGE OF MEDICAL SCIENCES

## Doctor of Medicine\*

- William Ward Bock, B.S., M.B.,  
Rochester
- David William Feigal, B.S., M.B.,  
Minneapolis
- Leonard William Melander, Jr., B.S.,  
M.B., St. Paul
- Benjamin Peter Micheal Owens, Jr.,  
B.S., M.B., Hibbing
- Robert Grangaard Rossing, B.S., M.B.,  
Detroit, Mich.
- John Joseph Stransky, B.S., Owatonna
- John Richard Ylvisaker, B.A., B.S.,  
M.B., Mankato

## GRADUATE SCHOOL

### Doctor of Philosophy

- Kenneth Eugene Anderson, Lawrence,  
Kan.  
B.S. '32, M.A. '34, University of Minnesota.  
Major: Education. Minor: Educational Psychology. Thesis: The Relative Achievements of the Objectives of Secondary School Science in a Representative Sampling of Fifty-six Minnesota Schools. Major Adviser: Prof. P. O. Johnson.
- Raymond Lee Arnett, Minneapolis  
B.S. '36, Kent State University. Major: Physical Chemistry. Minor: Mathematics. Thesis: Energy of the Deformed Ethylene Molecule. Major Adviser: Prof. B. L. Crawford.
- John Wilmer Axelson, Crookston  
B.S. Ch.E. '38, University of North Dakota. Major: Chemical Engineering. Minor: Metallurgy. Thesis: Energy-New Surface Relationship in the Crushing of Solids. IV. Application of Slow Compression to an Investigation of the Crushing of Crystalline Quartz. Major Adviser: Prof. E. L. Piret.
- Henry John Boettcher, Minneapolis  
B.A. '32, M.A. '38, University of Alberta. Major: Education. Minor: Philosophy. Thesis: Activities in Religious Education: An Experimental Study to Determine the Relative Effectiveness of Two Types of Teaching-Learning Processes in Religious Education. Major Advisers: Profs. L. J. Brueckner and G. L. Bond.
- Robert Alwyn Bottomley, Melbourne,  
Australia  
B.Sc. '34, M.Sc. '41, Melbourne University. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: The Relationship between Mold Growth and Deterioration in Stored Yellow Corn at Various Temperatures, Humidities and Oxygen Concentrations. Major Adviser: Prof. W. F. Geddes.
- Ernest Benton Brown, Jr., Minneapolis  
B.S. with distinction '37, M.S. '42, University of Kentucky. Major: Physiology. Minor: Physiological Chemistry. Thesis: Studies of the Effects of Prolonged Hyperventilation in Man. Major Advisers: Dr. M. B. Visscher and Prof. Allan Hemingway.
- Howard Leon Carnahan, Altamont,  
Kan.  
B.S. '42, Kansas State College; M.S. '47, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: The Inheritance of Oil Content and Other Characters in Flax, and the Associations between Characters in the Cross of Dakota X Minerva. Major Adviser: Prof. J. O. Culbertson.
- Nicholas Marbury Efimenco, Ann Arbor, Mich.  
B.A. *magna cum laude* '37, M.A. '40, University of Minnesota. Major: Political Science. Minor: History. Thesis: Imperialism and the League Experiment with the Mandates System. Major Adviser: Prof. H. S. Quigley.

\* These degrees are conferred subject to the satisfactory completion of hospital internship within one month.

John William Eldridge, Brewer, Me.  
B.S. in Ch.E. '42, University of Maine; M.S. '45, Syracuse University. Major: Chemical Engineering. Minor: Business Administration. Thesis: Design of Continuous Stirred-Tank Reactors for Liquid-Phase Reactions. Major Adviser: Prof. E. L. Piret.

Gerald Engelman, Minneapolis  
B.S. '37, Iowa State College. Major: Agricultural Economics. Minor: Economics. Thesis: Some Economic and Physical Problems in the Marketing of Slaughter Hogs on the Basis of Carcass Weights and Grades in the United States. Major Adviser: Prof. A. A. Dowell.

Marthella Jane Frantz, Toledo, Ohio  
B.S. '45, University of Toledo. Major: Anatomy. Minor: Pathology. Thesis: Adrenal Cortical Adenomas of Inbred Mice. Major Adviser: Prof. Arthur Kirschbaum.

Harrison Gould Gough, Minneapolis  
B.A. *summa cum laude* '42, M.A. '47, University of Minnesota. Major: Psychology. Minor: Sociology. Thesis: Personality Correlates of Social and Ethnic Attitudes among High School Students. Major Adviser: Prof. P. E. Mechl.

Alfred Rubin Halvorson, Milan  
B.S. with distinction '44, University of Minnesota. Major: Soils. Minor: Geology. Thesis: Factors Affecting the Nitrate Producing Power of Some Minnesota Soils. Major Adviser: Prof. A. C. Caldwell.

Ralph Alton Johnson, Yates Center,  
Kan.

B.A. '40, Hastings College; M.S. '42, University of Colorado. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Use of Organic Reagents in Amperometric Titrations. Major Adviser: Prof. I. M. Kolthoff.

Murray Vernon King, Salt Lake City,  
Utah

B.S. in Ch.E. '42, University of Utah. Major: Physical Chemistry. Minor: Mathematics. Thesis: X-ray Diffraction Studies of the n-Propylammonium Halides. Major Adviser: Prof. W. N. Lipscomb.

Thomas Seymour Lee, San Francisco,  
Calif.

B.S. '43, California Institute of Technology. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Applications of Reaction Kinetics to Problems in Analytical Chemistry. Major Adviser: Prof. I. M. Kolthoff.

George Wayne Lones, Pine City  
B.Ch. '35, M.S. '36, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Investigation of the Isoantagonism of *Saccharomyces cerevisiae*. Major Adviser: Prof. H. O. Halvorson.

Frank Miller, Lincoln, Neb.  
B.A. '21, Park College; M.A. '37, University of Nebraska. Major: Agricultural Economics. Minor: Economics. Thesis: Agricultural Credit in Southeastern Nebraska. Major Adviser: Prof. O. B. Jesness.

John Francis Moore, Puyallup, Wash.  
B.Sc. '37, M.Sc. '41, University of Alberta. Major: Horticulture. Minor: Plant Genetics. Thesis: Combining Ability in Tomatoes. Major Adviser: Prof. T. M. Currence.

Robert Rokuro Omata, Hanford,  
Calif.  
B.A. '44, University of California; M.S. '46, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Studies on the Metabolism of B Vitamins by Lactic Acid Bacteria. Major Adviser: Prof. H. O. Halvorson.

Ewing Lakin Phillips, Higginsville,  
Mo.

B.S. '37, Central Missouri State Teachers College; M.A. '40, University of Missouri. Major: Child Welfare. Minor: Educational Psychology. Thesis: Intellectual and Personality Factors Associated with Social Class Attitudes among Junior High School Students. Major Adviser: Prof. D. B. Harris.

Don Clarence Quimby, Bozeman,  
Mont.

B.S. '37, M.S. '38, North Texas State Teachers College. Major: Economic Zoology. Minor: Botany. Thesis: The Life History and Ecology of the Jumping Mouse, *Zapus hudsonius*. Major Adviser: Prof. W. H. Marshall.

Hermann Ernst Rothfuss, Kalamazoo,  
Mich.

B.S. with distinction '39, M.A. '40, University of Minnesota. Major: German (Literature). Minor: German (Philology). Thesis: The German Theater in Minnesota. Major Adviser: Prof. O. C. Burkhard.

Dharampal Singh, Meerut (U. P.),  
India

B.S. '41, Agra University; M.S. '45, Benares Hindu University; M.S.A. '47, Ontario Agricultural College. Major: Horticulture. Minor: Botany. Thesis: Inheritance of Certain Economic Characters in *Cucurbita maxima* Duch. Major Adviser: Prof. A. E. Hutchins.

James Samuel Smart, New Bloom-  
field, Mo.

B.A. '39, Westminster College; M.S. '41, Louisiana State University. Major: Physics. Minor: Mathematics. Thesis: On the Formation and Relative Abundances of the Chemical Elements. Major Adviser: Prof. C. L. Critchfield.

Edward John Specht, Berrien Springs,  
Mich.

B.S. '39, Walla Walla College; M.S. '41, University of Colorado. Major: Mathematics. Minor: Physics. Thesis: Estimates on the Mapping Function and Its Derivatives in Conformal Mapping of Nearly Circular Regions. Major Adviser: Prof. S. E. Warschawski.

Clarence Wesley Tow, Kansas City,  
Mo.

B.A. '28, M.A. '29, State University of Iowa. Major: Economics. Minor: Political Science. Thesis: Factors Affecting the Yields of United States Government Securities, 1934-48. Major Adviser: Prof. A. R. Upgren.

# 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, 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 Accountancy by drab.

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

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

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

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

(In the order of their appearance on the platform)

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



# UNIVERSITY OF MINNESOTA

*June Commencement*

*1949*

MEMORIAL STADIUM  
SATURDAY EVENING, JUNE 11  
AT EIGHT O'CLOCK





## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Julius A. Schmahl, Treasurer

The Honorable Fred B. Snyder, Minneapolis  
First Vice President and Chairman

The Honorable Ray J. Quinlivan, St. Cloud  
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 George W. Lawson, St. Paul

The Honorable Albert J. Lobb, 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 commencements in the Memorial Stadium, and with due regard to the solemnity of these occasions, be it resolved by the Board of Regents that **there be printed in the programs of all commencements held in the Memorial Stadium a request that smoking be confined to the streets and to the outer perimeter of the commencement area and not in the Stadium proper.**

## *This Is Your University*

**The University of Minnesota: "FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED BY UNDERSTANDING, DEDICATED TO THE ADVANCEMENT OF LEARNING AND THE SEARCH FOR TRUTH, DEVOTED TO THE INSTRUCTION OF YOUTH AND THE WELFARE OF THE STATE"—this is your University.**

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota will soon celebrate its one hundredth birthday. While nearing this milestone, as from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to actively participate in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded 90,508 degrees to its students who have completed the rigorous training demanded by the complexities and specialization of modern society.

In addition to the enormous task of giving collegiate instruction to some twenty-seven 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, the Master Piano Series, the University Theatre, and of the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not because it is the second largest state university in the nation, but because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in their University is a dynamic, living thing and expresses itself in many ways. Contributions from them now make it possible for the great Mayo Memorial building and for the new Variety Club Heart Hospital to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made relatively small gifts to provide an endowed research professorship in heart diseases. Gifts to the Greater University Fund, each appropriately called "A Share in Greatness," now being made especially by alumni, are worthy of special mention.

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

## *Order of Events*

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

**PRELUDE CONCERT:** From 7:30 to 8:00 p.m., the University of Minnesota Concert Band, Mr. Gerald Prescott, M.A., Bandmaster and Associate Professor of Music, conducting.

Farandole from "L'Arlesienne Suite" - - - - -	Bizet
Slavonic Rhapsody - - - - -	Friedmann
Landsighting - - - - -	Grieg
The Three Trumpeters, Divertissement - - - - -	Agostini
Soloists—Dale Danielson, Fred Webster, Robert Tilden	
Blue Danube Waltzes - - - - -	Strauss

**PROCESSIONAL:** Marche Militaire Francaise  
from "Algerian Suite" - - - - - Saint-Saëns

**PROCESSIONAL:** The processional, made up of all candidates for degrees, faculty members and regents will march from the field house 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 and Tactics; General Extension Division; General College; College of Science, Literature, and the Arts; University College; Institute of Technology; College of Agriculture, Forestry, and Home Economics; 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 ROTC and NROTC cadets, enters the stadium, the audience will rise.

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

**INVOCATION** (the audience still standing): The Reverend George R. Metcalf, S.T.B., Member, Minnesota Council of Religion and Chaplain to Episcopal Students, University of Minnesota.

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



## Order of Events

**CONFERRING OF COMMISSIONS:** Mr. Errett W. McDiarmid, Ph.D., University Librarian, acting as Chief Marshal, will introduce Col. R. A. Ericson, USA, Professor of Military Science and Tactics; Col. Walter J. Gerzin, USAF, Professor of Air Science and Tactics; and Capt. W. C. Holt, USN, Professor of Naval Science and Tactics, who will present their candidates for the commissions in their respective branches of the Armed Services. The oath of office will be given by Capt. Holt; the commissions by staff members in the respective branches.

**CONFERRING OF DEGREES:** Dr. McDiarmid 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 Professor Huntington Miller, LL.B., for Dean Julius M. Nolte, LL.B., University Extension; Dean H. T. Morse, Ph.D., General College; Dean T. R. McConnell, Ph.D., College of Science, Literature, and the Arts; Dean J. W. Buchta, Ph.D., University College; Dean Athelstan Spilhaus, D.Sc., Institute of Technology; Dean Clyde H. Bailey, Ph.D., College of Agriculture, Forestry, and Home Economics; Dean W. E. Peik, Ph.D., College of Education; Dean R. L. Kozelka, Ph.D., School of Business Administration; Professor Charles V. Netz, Ph.D., for 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.

**PRESENTATION OF DIPLOMAS:** With Mr. Malcolm M. Willey, Ph.D., Vice President, Academic Administration, 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.

**CONFERRING OF HONORARY DEGREES:** Dean Emeritus Everett Fraser, LL.B., Law School, will present Judge Edward Foote Waite of Minnesota to President Morrill for the degree, Doctor of Laws.

### EDWARD FOOTE WAITE

Adopted son of Minnesota and distinguished citizen; one-time investigator of frauds, prosecutor, and police superintendent; then judge and mold of new laws and new methods of correction relating to children; scholar, humanitarian, and friend of youth, who, in our State of Minnesota, has pioneered in methods which have been followed by others—because of your deep and penetrating insight into human and social relationships, and especially because of your leadership and understanding in dealing with problems which develop at points of social tension, the Regents of the University of Minnesota, upon recommendation of the faculties, this eleventh day of June, nineteen hundred and forty-nine, confer upon you, Edward Foote Waite, the degree of Doctor of Laws, *honoris causa*, with all the rights and privileges pertaining to that degree.

## Order of Events

President Emeritus Walter C. Coffey, D.Sc., will present Dean Thomas Poe Cooper of Kentucky for the degree, Doctor of Science.

### THOMAS POE COOPER

Graduate of the University of Minnesota, and a former member of its staff; pioneer in agricultural education; Dean and Director of the College of Agriculture of the University of Kentucky; wise counsellor to thousands of farmers; one-time chief of the Bureau of Agricultural Economics of the United States Department of Agriculture; long-time leader and a past president of the Association of Land-Grant Colleges and Universities; elder statesman in the advancement of rural welfare—because of what you stand for in the progress of our national economy, and because of the invaluable services you have rendered to agencies of government created by the people you have inspired and guided, the Regents of the University of Minnesota, upon recommendation of the faculties, this eleventh day of June, nineteen hundred and forty-nine, confer upon you, Thomas Poe Cooper, the degree of Doctor of Science, *honoris causa*, with all the rights and privileges pertaining to that degree.

Dean Blegen will present President Gregg Manners Sinclair of Hawaii for the degree, Doctor of Laws.

### GREGG MANNERS SINCLAIR

Born in the Dominion of Canada; graduate and loyal alumnus of the University of Minnesota; long-time teacher in Japan and faithful interpreter of Japan and America, each to the other; professor and president of the University of Hawaii; director and guiding genius of the Oriental Institute, now the School of Pacific and Asiatic Studies; builder of bridges of understanding between East and West—because of your insight into what makes a university great, and because of your untiring devotion to education as a basis for the communion of all men, the Regents of the University of Minnesota, upon recommendation of the faculties, this eleventh day of June, nineteen hundred and forty-nine, confer upon you, Gregg Manners Sinclair, the degree of Doctor of Laws, *honoris causa*, with all the rights and privileges pertaining to that degree.

“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.

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The University wishes to express its regret over the fact that long overdue repairs on the Stadium seats, presently under way, will inconvenience a small proportion of our guests this evening who must be seated on the concrete steps rather than on the regular wooden seats.

# *Candidates for Graduation*

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

## DEPARTMENT OF MILITARY SCIENCE AND TACTICS

### Second Lieutenant, Chemical Corps, ORC

William A. Horne, Chippewa Falls, Wis.

### Second Lieutenant, Coast Artillery Corps, ORC

Kenneth W. Blackmer, Minneapolis  
James M. Ferry, Minneapolis  
John F. Frojen, Minneapolis  
John J. Gobel, Minneapolis

Stuart L. Greenberg, Minneapolis  
Ralph J. Kurka, Breckenridge  
John V. Mickman, St. Paul

### Second Lieutenant, Engineer Corps, ORC

Roger A. Berg, Willmar  
James W. Button, St. Paul  
Robert L. Fricke, Minneapolis  
Harold E. Jenson, Minneapolis

Harold B. Webster, Le Center  
Dwight E. Wilson, Minneapolis  
Frederick M. Zimmermann, Minneapolis

### Second Lieutenant, Ordnance Department, ORC

Howard J. Costello, St. Paul  
Herbert G. Fischer, Minneapolis  
John J. Kettner, St. Paul

Dale J. Schmitz, West St. Paul  
John P. Simpson, Minneapolis

### Second Lieutenant, Quartermaster Corps, ORC

Leo J. Carlton, Rapid City, S.D.  
Charles Caruson, St. Paul  
Harold O. Danielson, Minneapolis  
Donald H. Erickson, Minneapolis  
Charles E. Giles, Minneapolis  
Jerome L. Goldberg, Minneapolis  
Donald V. Hastings, Minneapolis  
Samuel H. Hertogs, Excelsior  
Willis W. Johnson, St. Paul  
John R. Kujawa, St. Paul  
Lawrence S. LaBelle, Minneapolis  
Robert J. Larson, Minneapolis

John P. Leer, Minneapolis  
Thomas R. Mullaney, Minneapolis  
James R. Pechin, Minneapolis  
Lynn O. Rohde, Mason City, Iowa  
Roger T. Sahr, Minneapolis  
Isadore Schmitzer, Minneapolis  
Jean P. Schrankler, St. Paul  
Albert W. Schuneman III, St. Paul  
Harvey L. Sperry, Minneapolis  
Leon O. Voldahl, Frost  
Richard G. Zelenak, St. Paul

## Second Lieutenant, Signal Corps, ORC

John R. Aura, Minneapolis  
David B. Braum, Minneapolis  
George E. Case, Minneapolis  
Omund R. Dahle, Aitkin  
Harold A. Davis, St. Paul  
Albert N. De Sautels, Minneapolis  
John A. Holmquist, Ortonville

Harold H. Johnson, Pine City  
Gordon W. Kindberg, Minneapolis  
Kevin Leenay, Minneapolis  
Ellis W. Olson, Minneapolis  
Robert B. Tillitt, St. Cloud  
William C. Wegner, St. Paul

## Second Lieutenant, Transportation Corps, ORC

Wayne M. Aamoth, St. Paul  
James H. Aarestad, Minneapolis  
Donn A. Beidelman, Hopkins  
John W. Campbell, Cloquet  
Paul L. Husting, Hastings  
Lionel K. Hvolboll, Albert Lea  
Robert V. Hyser, Minneapolis  
Howard E. Kennedy, Minneapolis  
Richard T. Lindgren, Orr  
Robert D. McDowell, Duluth  
William G. McMackin, Minneapolis

Daniel H. McNitt, Bovey  
Clarence E. Mueller, Le Sueur  
Floyd E. Mueller, Le Sueur  
Raymond B. Murphy, Minneapolis  
Richard J. Nowicki, St. Paul  
Bernard Ratner, Minneapolis  
Russell J. Rogers, Minneapolis  
John D. Scanlan, Thief River Falls  
Gerald B. Sinykin, Minneapolis  
William H. Thorson, Minneapolis  
Leonard C. Walsh, Farmington

## DEPARTMENT OF AIR SCIENCE AND TACTICS

### Second Lieutenant, USAF Reserve

Monte Laverne Balfour, Faribault  
Alfred Gilbert Becker, Chicago, Ill.  
John Bott Bjostad, Cambridge  
Charles Stuart Broad, Minneapolis  
Douglas Oliver Christgau, St. Paul  
Robert Francis Courtney, Minneapolis  
Joseph George Cullen, Minneapolis  
David George Decker, Minneapolis  
William Curtis Decker, Minneapolis  
Robert Joseph Denn, Janesville  
Lawrence Oscar Doyle, Jr., Minneapolis  
Harold Orville Ekern, Minneapolis  
William Hugo Elafros, Minneapolis  
Wallace Allen Erickson, Plummer  
Richard Emil Haack, Minneapolis  
Marlon Oscar Haugen, St. Clair  
Thomas L. Hill, Minneapolis  
Robert Eugene Huffman, St. Paul  
Leroy Kenneth Johnson, Osakis

Peter Charles Johnson, Stevens Point, Wis.  
John Elmer Keefe, Minneapolis  
Douglas Bruce Kern, St. Paul  
Robert Walter Kirkconnell, Minneapolis  
John Korosec, Jr., Ely  
Ronald Thomas Lambert, Minneapolis  
Kenneth Holden Liem, Windom  
Richard Charles Lilygren, St. Paul  
Irving J. Linden, St. Paul  
Baylon Francis Loosbrock, Lismore  
Lewis Kingsley Lundblad, Minneapolis  
Lawrence David Lundholm, St. Paul  
Robert Britt McCarthy, Minneapolis  
Richard Irwin Matthews, Ortonville  
Donald Molenaar, Renville  
Calvin Thorsten Morken, Crookston  
Robert Henry Mrugala, Minneapolis

Lennart Earl Osterman, St. Paul  
Charles Martin Overby, Scobey,  
Mont.  
Melvin John Peterson, Milaca  
Robert Jesse Riddell, Nye, Wis.  
Thomas Dean Soapes, Triumph

Dale William Stuart, Minneapolis  
Conrad Henry Topp, St. Paul  
Donald Richard Torstad, Minneapolis  
Richard Donald Wood, Minneapolis  
Herbert Starr Woodward, Jr., Minne-  
apolis

## DEPARTMENT OF NAVAL SCIENCE AND TACTICS

### Ensign, USNR

Owen William Daly, Crosby  
Irvin John Jacobson, Terrace

James Francis Wolter, Sauk Rapids

### Ensign, CECR, USNR

John Llewellyn Medbery, Browns  
Valley

Eino Rufus Rantala, Nashwauk

### Ensign, SCS, USNR

Wendell Leroy Frelander, St. Paul

John Keator Yarger, Mankato

## GENERAL EXTENSION DIVISION

### Business Certificate

Harvey Carl Johnson, Minneapolis  
Simon Lasch, St. Paul

Donald A. Lindgren, St. Paul  
Herbert Schultz, St. Paul

### Engineering Certificate

William Gray, Minneapolis  
John C. Orthel, Minneapolis

Alan C. Sanford, Stillwater

## GENERAL COLLEGE

### Associate in Arts

Ronald LeRoy Abbe, Minneapolis  
Stanley Earl Aldrich, Minneapolis  
Amity Joy Alexander, St. Paul  
John Murray Alexander, Owatonna  
Richard Earl Allen, St. Paul  
Glenn Hurst Almon, Luthersville, Ga.  
Deloyd O. Anderson, Minneapolis  
Richard Harold Andresen, St. Paul  
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Monte Laverne Balfour, Faribault  
Robert Clifford Becker, Washington,  
D.C.  
Virgil Duane Bendix, Echo  
Wallace Craig Bennett, Ames, Iowa  
Gordon Berg, Minneapolis  
Robert Evans Bierbaum, Minneapolis

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 Edward Henry Bodine, St. Paul  
 Gordon Thoren Brandsness, St. Paul  
 Charles Eugene Brown, Minneapolis  
 Gloria Faith Brudelic, Hanska  
 Daniel Allan Burrill, Minneapolis  
 Jack Giles Cain, Minneapolis  
 William Thomas Carey, Minneapolis  
 Ronald Emanuel Carlson, Dassel  
 Frank Nye Carter, Jr., Minneapolis  
 Paul Arthur Casey, St. Paul  
 Melvin Chase, St. Paul  
 Frances Patricia Clements, Mankato  
 Walter Theodore Connett, St. Paul  
 Clyde Sherwood Cooperman, Minneapolis  
 George Emile Corazzo, St. Paul  
 Ernest Milton Cunningham, Minneapolis  
 Joseph Frank Czvik, St. Paul  
 Betty Lou Davis, Minneapolis  
 Donald James Davis, Minneapolis  
 Joan Dorothy Davis, West St. Paul  
 Albert Richard DeCosse, Minneapolis  
 Shirley Edythe Desnick, Minneapolis  
 Donald Joseph DeVilliers, Rochester  
 Edward Bruce Devitt, St. Paul  
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 Richard Dean Elliott, St. Paul  
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 Philip Alden Elwell, Anoka  
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 Sharlene Engelson, St. Paul  
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 John Erick Falldin, Minneapolis  
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 James Julius Favilla, St. Paul  
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 Arnold Gardner, St. Paul  
 Monica Jean Gebhardt, St. Paul

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 Roy Edward Gobie, Minneapolis  
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 William Bernard Groth, Hopkins  
 William Harold Haight, Minneapolis  
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 Joyce Lorraine Ellen Horton, St. Paul  
 Frederick Paul Iverson, Minneapolis  
 Donald Lee Jobe, St. Paul  
 William Roger Johnson, Minneapolis  
 Willis Warren Johnson, St. Paul  
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 Shirley Christine Lau, St. Paul  
 Richard James Leaf, St. Paul  
 Leon John Lebuda, Sauk Rapids  
 Arnold William Leonard, St. Paul  
 James Edward Lieder, Minneapolis  
 Hubert Frans Lindblad, Willmar  
 Gerald Arnold Lund, Minneapolis  
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 Laura Mary O'Neill, St. Paul  
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 Lenore Paper, St. Paul  
 Harlan Wilber Peterson, St. Paul  
 Marvin Gene Pfaffe, Minneapolis  
 Patrick Laverne Pierce, Mound  
 Chester Matthew Pikus, Minneapolis  
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 Allan Floyd Radin, Minneapolis  
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 Sidney Robin, Minneapolis  
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 Edmund Michael Rusak, Minneapolis

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 Mary Ellen Schiefelbein, Minneapolis  
 David Michael Schmit, St. Cloud  
 Donald Waldemar Schneider, Arlington  
 Kenneth Stanley Schulberg, Minneapolis  
 Carol Joy Schwanenberg, Minneapolis  
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 Verna Mae Lois Sheveland, Hanley Falls  
 Bert William Sigal, St. Paul  
 Edward Sidney Silver, Minneapolis  
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 Kermit Mark Stake, Minneapolis  
 Oscar William Stempson, Jr., Montevideo  
 Donald William Stevens, St. Paul  
 Jerry Walter Stevens, St. Cloud  
 William Charles Stevens, Minneapolis  
 William James Stoneberg, Minneapolis  
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 Harriet Jane Thomson, Minneapolis  
 Morris Toretzky, Minneapolis  
 Herbert James Venta, Minneapolis  
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 Virginia Jean Weis, Minneapolis  
 John Stanley Werness, Minneapolis  
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 Erle Foster Willson, Minneapolis  
 Helen Ann Wilson, St. Paul  
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 David Raymond Zaiser, St. Paul

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

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 Anthony Francis Bauer, St. Paul  
 Eugene Bell, Minneapolis  
 Lorraine Edith Bender, St. Paul  
 Gerald William Benson, St. Paul  
 Ceril Ruth Berkus, St. Paul

Mayo Kenneth Beske, Minneapolis  
 Rita Barbara Beugen, Minneapolis  
 Rita Miriam Blaine, St. Paul  
 Frederick D. Blanch, Jr., Minneapolis  
 Earl Swan Blewett, Park Rapids  
 Zola Bernard Blicker, Minneapolis

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 Serene Yvette Braufman, St. Paul  
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 Walter Albert Carlock, Minneapolis  
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 Harold Joseph Cummings, St. Paul  
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 Lennart John Ferm, Minneapolis  
 John Leroy Fletcher, Minneapolis  
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 Elliott Sheldon Gensler, Minneapolis  
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 Joyce Lois Hurvitch, St. Paul  
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 JoAnn Carol Kleinstauber, Minneapolis  
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 Lois Elaine Landy, Minneapolis  
 Duane Roger Larson, Minneapolis  
 Richard William Laverty, St. Paul  
 Carol Line, St. Paul  
 Marian Louise Lofgren, Minneapolis  
 Jack Huntington Long, Minneapolis  
 Harvey Lorberbaum, Minneapolis  
 Mary Helen McBrien, Minneapolis  
 Marion Caroline Middlestaedt, Minneapolis  
 Carl Reamer Moser, Minneapolis  
 Daniel Arden Nelson, Center City  
 Richard Hewitt Norris, Minneapolis  
 Constance Adele Ravich, St. Paul  
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 Pearl Esther Riebe, Minneapolis  
 Phyllis Rubenstein, Minneapolis  
 Gretta Lois Rudick, Minneapolis  
 Joan Marie Schlieper, St. Paul  
 Lumir Charles Severson, Minneapolis  
 Leonard Ralph Share, Minneapolis  
 Arlene B. Specktor, St. Paul  
 Patricia Ann Tierney, Faribault  
 Leonard Edward Toth, Minneapolis  
 Mary Louise Trettel, Little Falls  
 Arne Ulvi, B.B.A., Farmington  
 Audrey June Sobelle Wagner, St. Paul  
 Margaret Jean Wiecking, Minneapolis  
 Patricia Ann Wood, Minneapolis

## Bachelor of Arts

James Harrison Aarestad, Minneapolis  
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 Coleen Lou Allbert, Ames, Iowa  
 Nancy Lou Allison, Minneapolis  
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 Arden Oris Anderson, Hendrum  
 Curtis Ivan Anderson, Anoka  
 Douglas Robert Anderson, St. Paul  
 Gordon Chester Anderson, Minneapolis  
 Marilyn Mae Anderson, Stevens Point, Wis.  
 Marjorie Mae Anderson, Willmar  
 Martha Grace Anderson, Rochester, CUM LAUDE  
 Merrill Leonard Anderson, Minneapolis  
 Neil Herman Anderson, Minneapolis  
 Stuart Jay Anderson, Buhl  
 Warren Sanford Anderson, St. Paul  
 Lee Christian Antonsen, A.A., St. Paul  
 Richard Aronsohn, Minneapolis  
 Marilyn Elizabeth Asplin, Minneapolis  
 Roland Victor Baier, Aberdeen, S.D.  
 Robert Burns Baker, Minneapolis  
 Shirley Ann Lund Baker, Minneapolis  
 Jean Adelaide Balch, Minneapolis  
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 Alfred John Barron, St. Paul, MAGNA CUM LAUDE  
 Richard William Bartsch, St. Paul  
 Charles Richard Bastien, St. Paul  
 Barbara Ann Bauer, St. Paul  
 Barbara Jean Bawden, St. Paul  
 Jeanne Goldoff Bearmon, Brooklyn, N.Y., CUM LAUDE  
 Robert Charles Becklund, Forest Lake  
 Doris Mae Beckman, Nashwauk  
 Margaret Ann Beddall, St. Paul  
 Virginia Rae Beinhorn, St. Paul



Elizabeth Ann Belan, Kansas City,  
Mo.  
Janet Nye Bell, Minneapolis  
Patricia Mae Benn, Minneapolis  
Earl Hartwick Benson, Minneapolis  
Roger Loren Benson, Windom  
Ellen Mathilda Berg, Minneapolis  
Ralph DeLisle Berg, St. Paul  
Florence Elizabeth Bergan, Minne-  
apolis  
*Lois Annette Berger, St. Paul, MAGNA  
CUM LAUDE*  
Orvis Raymond Berger, Minneapolis  
Roy John Berggren, Minneapolis  
David Saul Bernstein, Minneapolis  
Sheldon Joseph Bernstein, A.A.,  
Minneapolis  
Joan Claire Betzenderfer, St. Paul  
Robert Dale Biddick, Thief River  
Falls  
Barbara Helen Biesterfeldt, Minne-  
apolis  
Gloria Opal Bing, Minneapolis  
Barbara Louise Blaine, St. Paul  
Elliott O. Boe, Fergus Falls  
Roland Luther Boettcher, Minne-  
apolis  
Sue Harting Bohn, Minneapolis  
Ann Bolen, Minneapolis  
JoAnne Pauline Boller, Minneapolis  
Frederick James Bollum, Pepin, Wis.  
Harry Boranian, St. Paul  
Irving Allen Borkon, Turtle Lake,  
Wis.  
Ortrude Borowski, Almena, Wis.  
Elmer Marcus Bothun, Duluth  
Lloyd Edgar Boyd, Duluth  
Kenneth Mundahl Boyum, Minne-  
apolis  
Barbara Jo-Ann Brandser, Superior,  
Wis.  
Patricia Ruth Bray, Duluth  
Jeanne Brecke, Minneapolis  
James Coltman Bredemus, Minne-  
apolis  
*Ernest Philip Bremmer, Minneapolis,  
MAGNA CUM LAUDE*  
James Orlynn Bremseth, Minneapolis  
John S. Brennon, St. Paul  
*Edward Reese Brentzel, Fargo, N.D.,  
CUM LAUDE*

*Carl Otto Bretzke, Hutchinson,  
MAGNA CUM LAUDE*  
Betty Vi Brewer, Kasson  
*William Rhodes Brice, Minneapolis,  
CUM LAUDE*  
Lila Fay Brimeyer, Minneapolis  
James John Brinda, Minneapolis  
Roger Warren Brockway, Wayzata  
Beverly Jean Brown, St. Paul  
Robert Haas Brown, Minneapolis  
Bonnie M. Brunner, Nora Springs,  
Iowa  
*Shirley Mae Brustman, St. Paul, CUM  
LAUDE*  
Donald Grath Bryan, Minneapolis  
John Charles Buchta, St. Paul  
Joseph Harold Buckhouse,  
St. Ignatius, Mont.  
Theodore Gustav Buchring, St. Paul  
Virginia Conger Buffington, Duluth  
*Colleen Jane Bujold, Duluth, MAGNA  
CUM LAUDE*  
Joyce Aevon Burgum, Moorhead  
Robert Malin Burnham, Minneapolis  
Katherine M. Burville, Minneapolis  
*Bartlett Russell Butler, St. Paul,  
MAGNA CUM LAUDE*  
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John Stevens Buzzell, Waseca  
Galen Labbitt Cain, Minneapolis  
Vernon Kinney Cammack, Stevens  
Point, Wis.  
Robert Clayton Campbell, Minne-  
apolis  
Lawrence Woodard Carleton, Minne-  
apolis  
*Curtis Harvey Carlson, Minneapolis,  
MAGNA CUM LAUDE*  
David Lyle Carlson, Devils Lake,  
N.D.  
George William Carlson, St. Paul  
John Arthur Carlson, Canby  
Kenneth Donald Carlson, Willmar  
Robert Willard Carlson, Excelsior  
*Elizabeth Jean Carnes, St. Paul,  
CUM LAUDE*  
William Johnson Carr, Minneapolis  
William Caruson, St. Paul  
John Joseph Casey, Iona  
*Vera Chaffee, Menomonie, Wis.,  
CUM LAUDE*

James LuVerne Chandler, Minneapolis  
 Lillian Evelyn Hope Chapman, Minneapolis  
 Robert Alfred Chapman, Minneapolis  
 Babette Charney, Shorewood, Wis.  
 Alan Louis Christensen, Fort Scott, Kan.  
 Alice Kathleen Christgau, Minneapolis, MAGNA CUM LAUDE  
 Kenneth Wm. Christianson, St. Paul  
 Sallie Rosalie Churchill, Plainfield, N.J.  
 Marilyn Marshall Cilaciyan, Minneapolis, MAGNA CUM LAUDE  
 Frances Rosalia Clarfield, Duluth  
 James Voelker Clark, St. Paul  
 Quentin Hamilton Coffman, A.A., St. Paul  
 Francine Cohen, Des Moines, Iowa  
 Janice May Cohn, Duluth  
 Thomas Carl Coleman, Minneapolis  
 Clarence C. Coles, Jr., Albert Lea  
 Thomas Edward Coller, St. Paul  
 Mary Barbara Collins, Minneapolis  
 Barbara Virginia Collis, St. Paul  
 Julian Herbert Conkey, Sauk Centre  
 Lew Melvin Conley, St. Paul  
 James Bunn Conroy, Minneapolis  
 Eugene Herbert Cook, Minneapolis  
 John Munson Cook, Austin, MAGNA CUM LAUDE  
 Marianne Louise Cook, Washington, D.C., CUM LAUDE  
 Beverly Zucker Cooperman, St. Paul, CUM LAUDE  
 Howard Joseph Costello, St. Paul  
 Daniel Emmet Coughlin, Bovey  
 Janet Louise Craun, Eveleth  
 George Luverne Cronquist, Minneapolis  
 Anita Ruth Croucher, International Falls  
 Wilson Earl Cunningham, Minneapolis, CUM LAUDE  
 Clarence Wilhelm Dahl, Minneapolis, CUM LAUDE  
 Shirley Marion Dahl, Buffalo  
 Mary Margaret Dahlberg, Marshall  
 Paul Harding Dahlberg, Duluth  
 Owen William Daly, Crosby  
 Pearl Daniels, St. Paul, MAGNA CUM LAUDE  
 Robert Wayne Daugherty, Minneapolis  
 Robert George Davidson, Minneapolis  
 James Harrison Davis, White Bear Lake  
 Harold Lloyd Dawson, Hopkins  
 George Jones Day, Minneapolis  
 Raymond Peter deBoer, Hamilton, Ont., Canada  
 Marye Helen Decker, Stacyville, Iowa  
 William Curtis Decker, St. Louis Park  
 James Henry DeGeest, Minneapolis, MAGNA CUM LAUDE  
 Luther Lenker Dehnel, Minneapolis  
 Marian MacNeil Deininger, Minneapolis, MAGNA CUM LAUDE  
 Donald Hubert DeMeules, Minneapolis  
 Richard Allison DeWall, Morris  
 Marilyn Joanne Dewars, St. Paul  
 Norman Jack Diamond, Minneapolis  
 Fred William Dickens, Jr., Buenos Aires, Argentina, CUM LAUDE  
 Thaddeus Edward Diedrich, Minneapolis  
 Loris Ernestine Dille, Minneapolis, CUM LAUDE  
 Roland Paul Dille, Dassel, SUMMA CUM LAUDE  
 Laurel Joan Dobbs, Minneapolis  
 Tuanette Jewel Dobrick, St. Paul  
 James Lewis Dobrin, Minneapolis  
 Robert Webster Dock, Two Harbors  
 Dorothy Rae Dodge, Minneapolis, SUMMA CUM LAUDE  
 Phillip Dolinger, Minneapolis  
 Jeanne Alice Doseff, Minneapolis  
 Donald Smith Doty, St. Paul  
 Jeanne Douglass, Plainview  
 Kathryn June Drenning, Bedford, Pa., MAGNA CUM LAUDE  
 Dona Mae Drumm, Pipestone, CUM LAUDE  
 Arthur John DuCharme, Minneapolis  
 Doris June Dudding, Minneapolis  
 Jack Lauritz Dyste, Minneapolis  
 Joan Eagen, Minneapolis, CUM LAUDE  
 Russell Albert Eckhoff, Red Wing

Lorraine Marcella Edwardson, Albert  
Lea  
Hilary Orlin Egan, Minneapolis  
Edward Winston Ehlmann, St. Paul  
Lyle Munro Ehrenberg, Minneapolis  
Margaret Benton Eichhorn, Minne-  
apolis, CUM LAUDE  
Russell Jay Eilers, St. Paul  
Norris Clifford Ellertson, Gully,  
MAGNA CUM LAUDE  
William Donald Eng, A.L.A., St. Paul  
Janice Marion Enger, Minneapolis  
Merle Anne Epstein, Minot, N.D.  
Donna Marie Erickson, Fargo, N.D.  
Emory John Erickson, Owatonna  
Vernon Douglas Erickson, Minne-  
apolis, MAGNA CUM LAUDE  
John Arnold Eriksen, Minneapolis  
John Esslinger, Jr., St. Paul  
Barbara Jean Evans, Minneapolis  
Evelyn Lucille Evans, Marshall,  
MAGNA CUM LAUDE  
James Charles Everds, Minneapolis  
Virgil Thomas Fallon, Darwin,  
MAGNA CUM LAUDE  
George David Farkell, Minneapolis  
Everette George Faunce, Fergus Falls  
Henry Herman Feikema, Minneapolis  
Warren Carl Feist, St. Paul  
Elizabeth Jane Ferguson, Canby  
Albert David Fetzek, Minneapolis  
Marilyn Finch, Minneapolis  
Joan Barbara Fitzgerald, Minneapolis  
Eleanor Joan Flynn, St. Paul  
Robert William Fogarty, Rochester  
Dolores Elaine Forsberg, St. Paul  
Maryalice Levy Forster, A.A.,  
San Francisco, Calif., MAGNA CUM  
LAUDE  
John Foss, Minneapolis  
Robert Ponsonby Foster, Minneapolis  
Donald Peter Fox, Minneapolis  
Hilmer Aaron Frank, St. Paul  
Sylvia Frankel, Latrobe, Pa.  
Leonard Clarence Franson, Minne-  
apolis  
Gerald Edward Fraser, Minneapolis  
George Carl Fritzsche, Primghar,  
Iowa  
Barbara Ann Fulton, Minneapolis,  
CUM LAUDE

George Henry Gale, St. Paul  
Emmet Edward Gallagher, Houston  
Joanne Marie Gallogly, St. Paul  
Russell Warren Gangestad, Minne-  
apolis, MAGNA CUM LAUDE  
Charles Garetz, St. Paul  
Floyd Kenneth Garetz, Minneapolis,  
CUM LAUDE  
George Wilbur Garlid, Prescott, Wis.  
Kenneth DeWitt Garlock, Bemidji,  
CUM LAUDE  
David Stanley Gebhard, Minneapolis,  
CUM LAUDE  
Charles Anthony Paul Gendreau,  
Minneapolis  
Norma Geretz, Minneapolis, CUM  
LAUDE  
Dolores Grace Gerner, Eau Claire,  
Wis.  
Robert Frederick Giese, Milwaukee,  
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Calif., WITH HIGH DISTINCTION  
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Wis.  
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apolis  
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Wis., WITH DISTINCTION  
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Valley  
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Lake, WITH DISTINCTION  
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Heights  
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DISTINCTION  
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WITH DISTINCTION  
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Wis.  
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apolis  
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Emil Steve Osojnicky, Keewatin  
William Matthew Overn, Minne-  
apolis  
Leon Douglas Overom, Proctor  
Noble Carl Overom, Duluth  
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## Bachelor of Mechanical Engineering

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 Roy Richard Anderson, Minneapolis  
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 Burton Leonard Carlson, Minneapolis  
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 Thomas Goldsmith Chapin, White Bear Lake  
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Burton James Cleland, St. Paul  
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- Theodore William Helweg, Chicago,  
Ill.
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Paul
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Mich.
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Lake
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- Gorden Felix Johnson, Duluth
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- Lowell Ellsworth Johnson, A.A., Har-  
ris, WITH DISTINCTION
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WITH DISTINCTION
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apolis
- Larry Rudolph Lenarz, St. Cloud
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Tech., Wenatchee, Wash.
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- Morris Leland Mullin, Minneapolis
- Latier Overton Nelson, St. Paul
- Rolf Wilton Nelson, Minneapolis
- Ordell Thomas Nordseth, Inwood,  
Iowa
- James Reed O'Ryan, Minneapolis
- Virgil Luverne Ostrem, Rochester
- Harold Albert Otto, Hutchinson
- James Ivar Parson, Gheen
- Victor William Parsons, St. Paul
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- William George Peter, St. Paul
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apolis
- Kenneth Lund Prothero, St. Paul,  
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 Richard Louis Signorelli, Duluth  
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 Arthur LeRoy Sorenson, A.A., Albert  
 Lea  
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 Ludwig Lewis Stern, Minneapolis  
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 Billings, Mont.  
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 HIGH DISTINCTION  
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 Calif.  
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 Los Angeles, Calif.  
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 Robert Thomas Picha, Minneapolis  
 Guy Roesler Pitmon, St. Paul  
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 Jack Albert Sartell, St. Cloud, WITH  
 DISTINCTION  
 Francis Lawrence Shubert, Union-  
 town, Pa.  
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 Orin Russell Bell, Marble  
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 Lowell Weston Gibbs, Minneapolis  
 Joseph Raymond Gross, St. James  
 John Lamprecht, Chisholm

Elwood Forrest Rafn, Two Harbors  
 Eino Rufus Rantala, Nashwauk  
 Donald John Sinclair, Bald Eagle  
 Roy Tuvey Sorensen, Jr., St. Paul  
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 James Arthur Whelan, Owatonna,  
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## Bachelor of Petroleum Engineering

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Stanley Allen Grapp, Minneapolis  
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HIGH DISTINCTION*  
Arthur Barnhardt Olson, Minneapolis,  
WITH HIGH DISTINCTION

Benjamin Franklin Peery, Jr., Minne-  
apolis  
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apolis, Forestry  
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Agriculture  
Stanton Harold Anderson, St. Paul,  
Forestry  
Wesley Dean Anderson, Aneta, N.D.,  
Veterinary Medicine  
Donald Gardner Baker, St. Paul,  
Agriculture  
Neil Risser Bassett, Minneapolis,  
Fish and Wildlife Management  
Donald Montgomery Benson, Glen-  
wood, Forestry  
John Daniel Berends, North St. Paul,  
Forestry  
Curtis Leonard Berg, Red Wing,  
Agriculture  
Joseph Paul Biniek, Avon, Agriculture  
Louis Henry Boudreau, Worthington,  
Forestry  
Rueben Myrum Boxrud, Louisburg,  
Agriculture  
*Richard William Brand, Owatonna,  
Agriculture, WITH DISTINCTION*  
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Home Economics  
Elizabeth Jean Bruer, Minneapolis,  
Home Economics  
Gerald Thomas Bue, Clinton, Wis.,  
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 Ruth Marie Tufte, B.A., Northfield  
 Mae Isabel Upton, B.S., Sauk Centre

## Master of Education

Anthony Caponi, B.S., Akron, Ohio  
 Frederick Morey Chapman, B.S., Mahtomedi  
 Richard Edison Cooper, B.S., Minneapolis  
 Clifton Emery French, B.S., Minneapolis  
 Frances Emery French, B.A., Minneapolis  
 Frederick Werner Hart, B.S., Duluth  
 Thomas Christopher Hendrickson, B.A., B.S., Duluth  
 Louise Stark Howarth, B.A., Pittston, Pa.

Shirley A. Jenkins, B.Mus.Ed., Omaha, Neb.  
 Betty Virginia Johnson, B.S., Minneapolis  
 Willard Edgar Kottke, B.E., North St. Paul  
 Marguerite Odendahl Krusemark, B.S., St. Paul  
 Barbara Moody, B.S., Excelsior  
 Gareth Raymond Olson, B.S., Windom  
 Samuel Stephen Pecchia, B.S., Nashwauk  
 Eldon Edward Pederson, B.A., Centerville, S.D.

\* Nursing Education Curriculum.

Ronald Albert Rochat, B.S., Osseo  
Dennis Eugene Rolle, A.Sc., B.S.,  
Eveleth

Gale LaVerne Sperry, B.S., Minne-  
apolis  
Alan David Sweet, B.S., Marble

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

### Bachelor of Science

- David Otterness Anderson, Grand Rapids, Agricultural Education  
Dorothy Joyce Barr, Wells, Home Economics Education  
Dymer Mercein Benzie, Onamia, Home Economics Education, WITH DISTINCTION  
Gunnar Theodore Berquist, Gilbert, Agricultural Education  
Betty Lou Burtness, Cook, Home Economics Education  
Irene Gertrude Diersen, Caledonia, Home Economics Education, WITH DISTINCTION  
Joe William Duncomb, Luverne, Agricultural Education, WITH DISTINCTION  
Marillyn Eloise Evans, Minneapolis, Home Economics Education  
Marian Janet Falkenhagen, Kasson, Home Economics Education  
William Clyde Fortman, Two Harbors, Agricultural Education  
Marjorie Claire Golie, Granite Falls, Home Economics Education, WITH DISTINCTION  
Eilene Doris Grinde, Thief River Falls, Home Economics Education  
Muriel June Hansen, St. Paul, Home Economics Education  
Priscilla Ann Jenkins, Minneapolis, Home Economics Education  
Ormond Edwin Johnson, St. Paul, Agricultural Education  
Leni A. Johnstone, Staples, Home Economics Education  
Coula Karahalios, Kelly Lake, Home Economics Education  
Marilyn Lou Klassy, Minneapolis, Home Economics Education, WITH DISTINCTION  
Douglas Donald Knabe, Jackson, Agricultural Education  
Mary Margaret Knowles, Morris, Home Economics Education  
Mary Ann Kosiak, Chisholm, Home Economics Education  
Doris Ione Kotval, Vesta, Home Economics Education, WITH HIGH DISTINCTION  
Dorothy Maxine Larson, Duluth, Home Economics Education  
Leslie Vernon Lewis, Lewisville, Agricultural Education, WITH DISTINCTION  
Quentin J. Marsh, Blooming Prairie, Agricultural Education, WITH HIGH DISTINCTION  
Margaret Helen Ann Muske, Little Falls, Home Economics Education, WITH DISTINCTION  
Virginia Ann Ortlip, Waconia, Home Economics Education  
Marguerite Jeanne Paal, Currie, Home Economics Education  
Roy Hjalmer Petrell, Embarrass, Agricultural Education  
Eleanor Joanne Reed, Minneapolis, Home Economics Education  
Lina June Rogalla, White Bear Lake, Home Economics Education  
Lowell Lester Ross, Winthrop, Agricultural Education  
Carlyle Perry Schenk, Anoka, Agricultural Education, WITH DISTINCTION  
Mary Barbara Seckinger, Duluth, Home Economics Education, WITH DISTINCTION  
John Herbert Soderlund, Cotton, Agricultural Education

Russell Vernon Stansfield, Ortonville,  
Agricultural Education  
Betty-Jane Phyllis Sweet, Minneapolis,  
Home Economics Education  
Patricia Ann Thurston, Faribault,  
Home Economics Education, WITH  
DISTINCTION

Mary Ellen Tuberty, Glenville, Home  
Economics Education  
William Joseph Virant, Aurora, Agri-  
cultural Education  
Carl Archie Ziebarth, Wrenshall,  
Agricultural Education, WITH  
DISTINCTION

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Eldon Curtis Aanenson, Luverne  
Glen Everett Abrahamson, Enfield  
Russell Blair Adams, Minneapolis  
James Vincent Aldridge, St. Paul  
Russell Ovid Allen, Kasota  
Marlow Orin Alsager, Minneapolis  
Harvey David Amdur, Aberdeen, S.D.  
Arnold Frederick Anderson, St. Paul  
Charles Edward Anderson, Robbins-  
dale  
Robert Gabriel Anderson, St. Paul  
Roy Edwin Anderson, Minneapolis  
Grace Sophia Aschenbach, St. Paul  
Kenneth Wesley Austad, Hawley  
James Richard Bandelin, Red Wing,  
WITH DISTINCTION  
Howard Arnold Barron, Minneapolis  
Donald Wheelock Barrus, Minne-  
apolis  
Paul Pierre Basquin, St. Paul  
Marcel George Beaubien, Minne-  
apolis  
William Matthew Belan, Minneapolis  
Wilbur Elondis Bennington, Minne-  
apolis  
Norman B. Bergeson, St. Paul  
Wallace Alfred Berglund, Grand  
Marais  
Jean Marie Bickley, Grand Rapids  
Roy Arvid Bjork, Eureka, S.D.  
Edward Lars Blegen, Minneapolis,  
WITH DISTINCTION  
John August Bodeman, St. Louis, Mo.  
Stanton Monroe Bohmbach, Minne-  
apolis, WITH DISTINCTION  
Mario Joseph Bonello, Minneapolis  
Robert Harry Bonne, St. Paul  
Arthur Carl Borchard, Minneapolis  
Thomas Emmett Brady, Virginia

Louis Angelo Braga, Eveleth  
Leo Breitman, Minneapolis  
Jens Einar Broin, Kenyon  
Stephen Joseph Broms, St. Paul  
Dennis A. Brooks, Wayzata  
Wallace Henry Bruning, Minneapolis  
Donald Lionel Buck, Minneapolis  
Karl Robert Buckman, New Salem,  
N.D., WITH DISTINCTION  
Virlyn S. Bue, St. Paul  
Merrill Curtis Burgstahler, Glencoe  
Vernon Henry Burling, Duluth  
Reid Truman Burns, Hopkins  
Jerome Parker Bylund, Minneapolis  
Robert Carl Cahill, Waseca  
Donald Edward Capelle, Rochester  
Patricia Elizabeth Carlson, Saratoga  
Springs, N.Y.  
Leo J. Carlton, Rapid City, S.D.  
William Roy Carroll, LaCrosse, Wis.  
William James Carter, Lake City  
William Joseph Chapman, Morris  
Merton Charney, Minneapolis  
Norman Chazin, Minneapolis  
Howard Leon Chelberg, Braham  
John Loucks Christenson, Kasson  
Herbert Harvey Clements, Minne-  
apolis  
Melvin Forsyth Clemons, Waterville  
Walter Tanner Cleveland, Excelsior  
Thomas Allen Cone, Excelsior  
William Thomas Cowell, Minneapolis  
Russell William Cox, Waseca  
Glen A. Crouch, Granada  
Joan R. Cumming, Mankato  
Edward Spaulding Decker, Jr., Minne-  
apolis  
Sherman Devitt, St. Paul  
Leo Thomas Digiammatteo, St. Paul

Forrest Wayne Donaldson, Minneapolis  
 Henry Arnold Dorff, Jr., Minneapolis  
 Bright McLean Dornblaser, Minneapolis, WITH DISTINCTION  
 Henry William Dornseif, Stillwater  
 Donald L. Doyon, St. Paul, WITH DISTINCTION  
 Harold Herman Drews, Fergus Falls  
 James Lawrence Duffy, St. Paul  
 John Mitchell Duntley, Minneapolis, WITH DISTINCTION  
 Dale Thomas Easthouse, Minneapolis  
 Rodney Sylva Ebersviller, Fergus Falls  
 Bruce Gilmore Edwards, Minneapolis  
 Jerome Harold Efron, Minneapolis  
 Herbert Albert Eisenberg, Minneapolis  
 Wallace Elfstrom, Frederic, Wis.  
 Richard Erling Embertson, Eau Claire, Wis.  
 Robert Gene Embretson, Minneapolis  
 Burton Wallace Erdahl, Frost, WITH DISTINCTION  
 Donald Harry Erickson, Minneapolis  
 Robert Clarence Erickson, Minneapolis  
 Henry Edward Evarts, Pine Island  
 Paul Joseph Feldman, Minneapolis  
 John Lampert Fesler, St. Paul  
 Sidney Alexander Finden, Jr., Brooten  
 Robert James Fitzgerald, A.A., Duluth  
 Robert William Fleming, Winnipeg, Man., Canada  
 Paul Gerald Ford, Jr., Minneapolis, WITH DISTINCTION  
 Richard George Fowler, Minneapolis  
 John Gerald Fraley, St. Paul  
 Donald Alder Freeberg, B.E.E., Duluth  
 Harry Bigelow French, Jr., Minneapolis  
 Edward Daniel Garin, Jr., Minneapolis  
 Richard Mansfield Geddes, St. Paul  
 Gerhardt Herbert Gieseke, Northrop  
 Owen Paul Gjerdingen, Winger  
 Manley Melvin Goldfine, Duluth  
 Roger Warren Goodson, St. Paul  
 Robert George Gorman, Minneapolis  
 William John Graves, Jr., Minneapolis  
 Donald Albion Gross, Sr., A.A., Rochester  
 Russell Edward Gustafson, Minneapolis  
 George Arthur Haakenson, Albert Lea  
 Carl Richard Hage, Madelia  
 Howard John Hagedorn, Hardwick  
 Orvin Dale Hanke, B.E.E., Madison, S.D.  
 David William Hansen, Jackson  
 Richard George Hansen, Minneapolis  
 Richard Hall Hanson, Minneapolis  
 Thomas Galbraith Harrison, Jr., Minneapolis  
 Lloyd Oliver Haskins, Duluth  
 Robert Hawes, Crookston  
 Glenn Eugene Heathcote, St. Paul  
 James Herbert Hedberg, St. Louis Park  
 George Leonard Heilman, Anoka  
 Gerald Francis Hennessy, Wayzata  
 Cyril Joseph Herzog, Shakopee  
 Gordon Wilbur Heusinkveld, Spring Valley  
 Robert John Hill, Ashland, Wis.  
 Clarence Raymond Hillestad, Esmond, N.D.  
 Kenneth Orlene Hillestad, Amery, Wis.  
 Richard Lawrence Hines, Spooner, Wis.  
 Donald Warren Hocks, Janesville, Wis.  
 Howard Isadore Hoganson, Perley  
 Helen Elizabeth Holmes, Minneapolis  
 Richard Paul Hoppenrath, St. Paul  
 Mae Quee Huie, Minneapolis  
 William Joseph Hunt, Jr., St. Paul  
 Orlaf Bernard Hylle, Kenyon, WITH DISTINCTION  
 Herbert William Jacobsen, St. Paul  
 John Irvin Jacobson, Glenwood  
 Lois Katherine Jacobson, Minneapolis  
 Paul Frank Jaffe, Minneapolis  
 Marjory Corinne Jelmeland, Minneapolis  
 William Sinclair Jenkins, Minneapolis  
 Robert Arnold Johannsen, Robbinsdale  
 Arthur Edwin Johnson, Minneapolis



Carlton Wilford Johnson, Cambridge  
Conrad Odegard Johnson, Monticello  
Donald Erick Johnson, Minneapolis  
Harold Herbert Johnson, Minneapolis  
Lois Mae Johnson, Minneapolis  
Paul Andrew Johnson, Chisago City,

WITH DISTINCTION

Ralph Christian Johnson, Payne,

WITH DISTINCTION

Randolph Ray A. Johnson, Blomkost

Raymond Joel Johnson, Duluth

Robert Walter Johnson, Minne-  
apolis, WITH DISTINCTION

Robert Henry Johnson, La Crosse,  
Wis.

Robert LeRoy Johnson, Minneapolis

Robert Louis Johnson, Minneapolis

Robert Warren Johnson, B.S.L.,  
St. Paul

Walter Nibbe Johnson, Red Wing

Donald Bennet Juberg, Moorhead

William Jubina, Yonkers, N.Y.

William Kalina, Minneapolis, WITH  
DISTINCTION

John Kania, Minneapolis, WITH DIS-  
TINCTION

Friedrich Karl, Minneapolis

Kazuo Paul Kawakami, Minneapolis,

WITH DISTINCTION

Ida Madge Keller, Mapleton

Francis Warren Kerr, Hibbing

Robert Raymond Kerrigan, Hokah

Drexel Irving King, Payette, Idaho

Charles John Kirsch, Minneapolis

Everett Edmund Klicker, B.Ch.E.,  
Pine City

Conrad Lee Knudson, Minneapolis

Gilmour Marvin Krogstad, McIntosh,

WITH DISTINCTION

Dale M. Krouse, Minneapolis

Jack Leonard Krouse, Huron, S.D.

John Raymond Kujawa, St. Paul

Eugene Louis LaBissoniere, St. Paul

Orville Eugene Lais, B.Ed., St. Paul

Clarence Emil Harold Laitinen,  
Minneapolis

Raymond Harold Lange, Cushing

Gene Roy Larson, Little Falls

Gustave Arvid Larson, Malmo

Wilbur Evans Lee, Minneapolis

Pearl Lorraine Lehmann, St. Paul

George Albert Lender, Minneapolis

Wayne Clayton Leonard, Minneapolis

Martin Norman Lerum, Minneapolis

Russell Elwood Lind, Minneapolis

Richard Thomas Lindgren, Orr

Lawrence Stanley Lindseth, Jr.,

Minneapolis, WITH DISTINCTION

Russell George Loona, Easton

William Francis Luebke, Wilmot,  
S.D.

George Francis Maloney, DuBois, Pa.,

WITH DISTINCTION

Robert Clinton Maltby, Minneapolis

Robert Taylor Manlove, Allenhurst,  
N.J.

Daniel Marell, Minneapolis

Ewayne Kermit Markert, Barnesville

William David Marshall, Minneapolis

Alexander Harkin Massopust, Jr., B.S.,  
Minneapolis

Neil Armas Mattson, Jr., A.S.,

Virginia

Patricia Marie McCauley, St. Paul

Robert Townsend McElrath, St. Paul

James Carroll McIntyre, Mahanomen

Roderick B. McLarnan, Moorhead

Lloyd Ervin McMichael, Austin

Lloyd George Meese, Faribault

Harlan Paul Melander, St. Paul

George Boesch Merrick, St. Paul

Donald S. Messick, Minneapolis

Charles Edward Meyerding, St. Paul

Alfred Joseph Miller, Minneapolis

Robert Newton Mills, Normal, Ill.

Norman G. Moen, Minneapolis

Neil Roderick Morem, Harmony

Randall Harold Morris, Butterfield

John Francis Mullen, Green Isle

Warren John Murphy, Minneapolis

Frank Willard Murray, Minneapolis

Theodore Wilder Naslund, Dunkirk,  
N.Y., WITH DISTINCTION

John Edward Neilon, Minneapolis

Earl Warren Nelson, Albert Lea

Lloyd Edwin Nelson, Duluth

Phillip VanTassle Nelson, Minne-  
apolis

James B. Nelstead, Miles City, Mont.

Russell LeRoy Ness, Albert Lea

Donald Frederick Nevins, Minne-  
apolis

Eugene Adrian Nieland, Minneapolis  
 Loren Lee Noble, Jeffers  
 Robert Louis Nordby, Minneapolis  
 Victor Gerald Nordley, Minneapolis  
 Raymond Peter Norell, Fingal, N.D.,  
 WITH DISTINCTION  
 Weston Jerome Olberg, Mankato  
 John R. Olive, Minneapolis  
 Alden Conrad Olson, Minneapolis,  
 WITH DISTINCTION  
 Harold George Olson, Minneapolis  
 Vernon Elmer Ostrom, Thief River  
 Falls  
 James Leigh Pacey, Minneapolis  
 Wayne Chisholm Paffel, Spooner,  
 Wis.  
 Gilbert Charles Patsche, Fairmont,  
 WITH DISTINCTION  
 Gerald Arnold Paulsen, Minneapolis  
 Bruce Bradford Pazandak, Minne-  
 apolis  
 Mary Jean Peil, Duluth  
 Theodore J. Pesch, Rochester  
 Arthur Andrew Peterson, Minneapolis  
 David LeRoy Peterson, Stillwater  
 Dean Warren Peterson, Renville  
 Dolores Jeannette Peterson, Minne-  
 apolis  
 James Nathaniel Peterson, Lake City  
 Jeanne Claire Peterson, Minneapolis  
 Quinton H. Peterson, Le Sueur  
 Dolores M. Pilgaard, Minneapolis  
 Bernard Louis Pirjevec, A.S., Eveleth  
 Robert Francis Poirier, Virginia  
 Emmel Christ Possis, St. Paul  
 Harold Clinton Potter, Minot, N.D.,  
 WITH DISTINCTION  
 Robert W. Powell, Thief River Falls,  
 WITH DISTINCTION  
 Daniel Prica, A.S., Buhl  
 Gerald Louis Priebe, St. Paul, WITH  
 DISTINCTION  
 Robert John Quinlan, Canby  
 John Harold Ramstead, Minneapolis  
 David Carl Rasmussen, A.L.A., Albert  
 Lea  
 Gordon Anthony Raymond, Little  
 Falls  
 John Narbonne Rice, Minneapolis  
 Murray James Roberts, Minneapolis  
 Chester Stanley Rog, Minneapolis  
 Lynn Otto Rohde, Mason City, Iowa  
 John Wesley Romine, New Richland  
 Wallace Ernest Rubbert, Minneapolis  
 George Robinson Ruby, Barnum  
 Joseph Thorald Russell, Easton  
 Robert William Rutlen, Minneapolis  
 Dennis Ladd Sabo, St. Paul  
 William Rudolph Sacks, Duluth  
 Tom William Sawyer, B.S. cum laude,  
 Annandale, WITH DISTINCTION  
 Ronald Saxon, St. Paul  
 Robert Ollis Sayer, White Bear Lake  
 Lee Edward Schofer, Crookston  
 Warren Richard Schaub, St. Paul  
 George G. Scherf, Minneapolis  
 Clarence Alan Schiller, St. Paul  
 Justin Matthew Schmit, B.Aero.E.,  
 Red Wing  
 Floyd Curtis Schraan, Buffalo Lake  
 Donald George Schroeder, Little Falls  
 Walter Leroy Schuckhart, Jr., Minne-  
 apolis  
 Clair Aloysius Schwob, Le Sueur  
 William Harvey Seaberg, Minneapolis  
 Burton Edmund Seaquist, Minne-  
 apolis, WITH DISTINCTION  
 Saul Winton Segal, Minneapolis  
 Paul Serber, Minneapolis  
 Clifford Elmore Severson, Minne-  
 apolis  
 Samuel Sewall, Minneapolis  
 Harold Shapiro, Duluth  
 Eugene Borgan Shea, Minneapolis  
 Hugh Plymouth Shedd, Wayzata  
 Robert Charles Shevlin, Redfield, S.D.  
 Arden Ramer Short, Granada  
 Philip Sinclair, Glasgow, Mont.  
 Paul Junior Skarman, Minneapolis  
 Edward Malcolm Smith, B.S.L.,  
 St. Paul  
 George Arnold Smith, Heron Lake  
 Ray Hustad Smith, Austin  
 Rollin Oscar Smith, Jr., Minneapolis  
 Joseph William Solien, Bovey  
 Charles Francis Spanel, Eau Claire,  
 Wis.  
 William Robert Stack, Jr., Minne-  
 apolis  
 Clair Charles Stebbins, St. Paul  
 Henry Orrin Stevens, Garrison, N.D.  
 Betty Jane Stindle, Minneapolis

Michael Grant Stone, East Chicago, Ind.

Jackson W. Strane, St. Paul

Richard Warren Strindmo, Minneapolis

Tsuguo Sumada, Minneapolis, WITH DISTINCTION

Richard Edward Suppan, Minneapolis

John Edmond Swain, Minneapolis

Glenn Alfred Swanson, Cannon Falls

Richard Filberg Swanson, Fairmont

Marion Esther Swanstrom, Duluth

William Arnold Takala, A.A., Iron

Raymond Frederick Tarkman, Tower

Donald Harold Thomas, Excelsior

Harold Lee Thomsen, B.A., Parkers Prairie

Richard Darrell Thorsen, Robbinsdale, WITH DISTINCTION

Edward F. Thulin, Pinewood

Joseph Henry Tobkin, St. Paul

Donald Eugene Toland, Dickens, Iowa

Harry William Turnblom, Minneapolis

Russell G. Upham, Minneapolis

Ethel Clare Vanek, St. Paul

Lauri VanWinkle, Rapid City, S.D.

Leon Oliver Voldahl, Frost, WITH DISTINCTION

Norman Albert Wahlsten, Virginia

Wilmer Jay Waksvik, Fertile

Charles Ernest Walsh, St. Paul

Frank Annis Warner, Minneapolis

Burke Percy Watson, Minneapolis

John Robert Watson, Minneapolis

George Benjamin Wattson, Minneapolis

Howard Thomas Weber, Jr., Minneapolis, WITH DISTINCTION

William Edward Wells, Jr., Minneapolis

Carlton Wendler, West Concord

William Alan West, Minneapolis, WITH DISTINCTION

Neil William Whiting, Brainerd

Donald R. Wilcox, Minneapolis

Wayne Taylor Windahl, North Branch

John Richard Wolfe, St. Paul

Fred Richard Woodward, Minneapolis

Shirley Ann Zack, St. Paul

Gerald Ramon Ziebeck, Crookston

## Bachelor of Science in Economics

Gerald Vincent Anderson, Ceylon, WITH DISTINCTION

Harry Lawrence Anderson, Minneapolis

Leslie Eugene Berg, Minneapolis, WITH DISTINCTION

Herbert Joseph Bergen, Albert Lea

Hershel I. Berkus, St. Paul

William Michael Chesney, Minneapolis

Jay Sherman Daniels, Des Moines, Iowa

Vernon Arnold Halvorson, Minneapolis

Frank Weatherby Lackie, Two Harbors

Donald Walter Philipson, Sleepy Eye

LaVonne Ann Rugg, Austin

Gertrude Ann Siverson, Minneapolis, WITH DISTINCTION

Millard Frohwerk Strand, Rochester

Rudolph Sykora, Haugen, Wis., WITH DISTINCTION

Lois Miriam Triggs, Pine River

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

### Bachelor of Agricultural Business Administration

Sidney Malcom Erickson, Minneapolis, WITH DISTINCTION

George Edward Jackson, Minneapolis  
Gunnar Jonsson, Reykjavik, Iceland

Lindley Sanford Omundson, Thief  
River Falls

Robert Leonard Vossen, Watkins  
Rudolph John Wagner, Alexandria

## COLLEGE OF PHARMACY

### Bachelor of Science in Pharmacy

Saburo Aisawa, Minneapolis  
William Frank Appel, Minneapolis  
Harvey Wegner Bergh, Kenyon  
Richard Arthur Borgstrom, St. Paul  
Clinton Leo Carlson, Duluth  
Emil Edward Ceplecha, New Prague  
Melvin Morris Chargo, St. Paul  
Gloria Johnston Charlson, Virginia  
Erwin Douglas Danielson, Minneapolis  
Ray Albert Debelak, Minneapolis  
Clement Jerome Doran, Jr., Duluth  
Charles Sam Ecanow, Minneapolis  
Kenneth Robert Evarts, Pine Island  
Walter Fredrick Fischer, Villard  
James Arthur Flynn, Minneapolis  
William Francis Foley, Elmore  
John Fredrick Gericke, South St. Paul  
David Henry Gregg, Minneapolis  
Edwin Eugene Groth, Minneapolis  
Donald Milton Gunner, Minneapolis  
Clifton LaVern Haagenson, Fergus  
Falls  
Betty Ann Hadley, Minneapolis  
John Stanley Hageman, B.A., Sanborn  
George Walter Hahn, Minneapolis  
Charles William Heller, B.A., St. Paul  
James Leo Hutchinson, St. Paul  
Grace Marie Jirik, Lonsdale  
Richard William Johnson, Bemidji  
Dolores Marie Kaminski, South  
St. Paul  
George Richard Kester, Albia, Iowa

William Scott King, Jr., Eveleth  
Bruce Wilbur Kirkpatrick, Minneapolis  
Elaine Schacht Langemo, Albert Lea  
Jack R. Lindoo, B.S., Milltown, Wis.  
Harold Truman Lindquist, Oklee  
Roland Keith Lockner, Fairmont  
Douglas Nevin Lofdahl, Montevideo  
Edwin Herbert Lucks, Worthington  
Marvin George Matthiae, Minneapolis  
James Edward McGinnis, Jr., Minneapolis  
Robert E. Nolting, Albert Lea  
Alvin Franz Retzlaff, B.A., New Ulm  
Harold Jesse Rhodes, Edinburg, Tex.  
Dean Riley Robinson, Minneapolis  
Dean George Rolig, Center City  
Wallace Ernest Rubbert, Minneapolis  
Muriel Jane Saxhaug, Chisholm  
Milan Edward Schulz, Robbinsdale  
Jay Erwin Shapiro, Hibbing  
Jerome Shink, Minneapolis  
Donald Kenneth Thompson, Little  
Sauk  
Harry Warren Turula, Ely  
Paul William VanPutten, Minneapolis  
Robert James vonRohr, Winona  
Robert William Warren, Minneapolis  
James Robert Whaley, Farmington

## LAW SCHOOL

### Bachelor of Science in Law

Oscar Charles Adamson II, St. Paul  
Leo Arthur Andree, Duluth  
Yuriko K. Arase, Los Angeles, Calif.

Edward Morgan Arundel, Minneapolis  
Peter Barna, Columbia Heights

Thomas Jerome Battis, St. Paul  
 Alfred Gilbert Becker, Chicago, Ill.  
 Robert Charles Bell, St. Paul  
 Lowell Chester Bigelow, Jr., Browns  
 Valley  
 Henry Martyn Bissell, Jr., St. Paul  
 Lawrence Timme Bowman, St. Paul  
 Willard Lee Boyd, Jr., St. Paul  
 Edward Thomas Brennan, St. Paul  
 Robert Henry Brodt, A.A., Fairmont  
 James Everett Brooks, Duluth  
 Kenneth Wayne Bull, Gaylord  
 Harry Sam Caldis, Minneapolis  
 Conrad James Carr, Minneapolis  
 Lawrence Owen Charlton, Williams  
 Edward Dorwart Clapp, St. Paul  
 Wayne Eugene Comer, Duluth  
 Joan Coursolle, Minneapolis  
 Richard Clayton Cross, Minneapolis  
 George Alan Cunningham, Minne-  
 apolis  
 John Henry DeMouilly, St. Paul  
 Charles L. Donlin, St. Cloud  
 Fred Adolph Dreher, St. Paul  
 Arthur Edward Ecklund, Jr., Minne-  
 apolis  
 Richard Bowe Egan, St. Paul  
 William James Endersbe, Benson  
 Patricia Elizabeth Erckenbrack,  
 Adams  
 John O. Erickson, Minneapolis  
 Harold Robert Erikson, St. Paul  
 Harold Ellwood Farnes, Blue Earth  
 William I. Fine, St. Paul  
 Richard Peter Fiske, Minneapolis  
 John Joseph Flynn, Jr., Minneapolis  
 Peter Edward Fooshe, St. Paul  
 Duane Wesley Foss, Minneapolis  
 Edward Theodore Fride, Jr., A.A.,  
 Duluth  
 Curtis Cadwell Gilmore, Mankato  
 Burton Joseph Gindler, Mason City,  
 Iowa  
 John Macbeth Girvin, Mankato  
 Daniel Raymond Gorman, Wabasha  
 Edward Spalding Gould, Jr., Minne-  
 apolis  
 John Thomas Grant, St. Paul  
 Charles Daniel Gregg, Sioux Falls,  
 S.D.  
 Peter Frederick Greiner, Excelsior

Myron Grubryn, Minneapolis  
 Dewert Helmuth Gruening, A.A.,  
 B.A., Minneapolis  
 Edward Irving Haligman, Sioux City,  
 Iowa  
 Eugene Sanford Hames, Missoula,  
 Mont.  
 George Willis Hinshaw, A.A., Mar-  
 shalltown, Iowa  
 Bernard Ashley Hoyer, Monterey  
 Charles August Johnson, Lake Crystal  
 Verne Curtis Johnson, Minneapolis  
 Donald Robert Johnston, Duluth  
 John William Kaster, Montevideo  
 John Elmer Keefe, Minneapolis  
 Andrew Kenneth Krogh, Kloten,  
 N.D.  
 Arthur A. Laatsch, Hutchinson  
 Robert Francis LaFleur, St. Paul  
 Neal Allan Lano, Long Prairie  
 Bonnie Maxine Larson, Minneapolis  
 Charles Houlton Lauder, Monmouth,  
 Ill.  
 Alf LeCaptain, Rice Lake, Wis.  
 Howard Nelson Ledin, North Branch  
 David Robert Leslie, Minneapolis  
 Maurice Carl Lizee, White Bear Lake  
 Milton William Logan, West Duluth  
 Allan Roger Lund, Minneapolis  
 Thomas Judd Lyons, White Bear  
 Lake  
 Malcolm Kerr MacKenzie, Gaylord  
 Phillip James Maguire, St. Paul  
 Harry Edward Mangan, Minneapolis  
 George Constandine Mastor, Bemidji  
 DeWayne Paul Mattson, Rochester  
 Robert William Mattson, A.A., Vir-  
 ginia  
 Mac Maurice McGrew, Bayport  
 Warren Patrick McGuiggan, Marshall  
 Daniel Herbert McNitt, Bovey  
 Albert Harry Michals, Minneapolis  
 Edward John Moret, St. Paul  
 John Theodore Mork, St. Paul  
 Page Freeman Moulton, Minneapolis  
 Russell Edward Myrom, Cambridge  
 Kenneth Algot Nelson, Minneapolis  
 Stanley Harold Nemer, St. Paul  
 Herbert Day Noble, Minneapolis  
 David Wayne Nord, Red Wing  
 James Alexander Nowak, Duluth

Glenn Gordon Nybeck, Minneapolis  
 John Robert Nygren, Minneapolis  
 Donald Clayton Odden, Duluth  
 Allen Harold Orbuch, St. Paul  
 Jack Hirsch Oreck, Duluth  
 Michael F. Orr, Wayzata  
 Maynard Oscar Panser, Columbia Heights  
 Robert Samuel Parker, Cambridge  
 Robert Joseph Patterson, Jr., Fort Dodge, Iowa  
 Howard Eugene Paulson, Rothsay  
 Robert Donald Peterson, Minneapolis  
 Franklin Petri, Jr., Minneapolis  
 Carl Irving Pohlson, Minneapolis  
 John Willard Pring, Minneapolis  
 John Elmer Qualley, Canby  
 Richard Ray Quinlivan, St. Cloud  
 Alex Radcliffe, Sauk Rapids  
 Charles Clifford Reischel, B.A., St. Paul  
 Wood Walter Remington, St. Paul  
 Lloyd Clifford Richardson, Jr., Aberdeen, S.D.  
 David Walter Richter, Albert Lea  
 William Joseph Riegger, Benson  
 Arthur C. Roemer, Wabasha  
 Philip Burton Rolig, Center City  
 Stanley Burton Rosenfield, Minneapolis

James Edward Ryan, Eveleth  
 Theodore William Schick, Davenport, Iowa  
 Roy Albert Schwappach, Minneapolis  
 James Russell Scoggin, Minneapolis  
 LaMont Anthony Seifert, Minneapolis  
 Walter Barthelemess Sentyrz, Minneapolis  
 John Robert Severson, Canby  
 Robert G. Share, St. Paul  
 Irving Shaw, St. Paul  
 Gordon Ian Sinclair, St. Paul  
 Alan Lawrence Stiegler, Minneapolis  
 Mayo Harris Stiegler, Minneapolis  
 Bruce Frederick Thompson, St. Paul  
 John Ellis Tillotson, Minneapolis  
 Kenneth Earl Tilsen, Minneapolis  
 John Joseph Todd, South St. Paul  
 Ralph Turner, Minneapolis  
 Robert Carl Tuveson, St. James  
 John Edmund Von Holtum, Lismore  
 Robert Carol Walter, Glenwood  
 George Gilbert Wangensteen, Bovey  
 William Dale Watters, Sioux Falls, S.D.  
 Herman Fred Wegner, Osakis  
 Rosemary Ann Wilkowski, Perham  
 Charles Roland Zierke, Fairmont

## Bachelor of Laws

Lawrence Edmund Addy, B.S.L., Minneapolis  
 Robert Richard Alderman, B.S.L., Brainerd  
 Warren Franklin Bateman, B.S.L., St. Paul  
 Thomas Jerome Battis, B.S.L., St. Paul  
 Alfred Gilbert Becker, Chicago, Ill.  
 Robert Alan Benson, B.S.L., Minneapolis  
 Earl Charles Borgeson, B.S.L., Minneapolis  
 Warren Charles Christianson, B.B.A., B.S.L., Hinckley  
 Joan Coursolle, Minneapolis

William Edgar Crowder, A.L.A., B.S.L., Minneapolis  
 James Edward Crowley, B.S., Avoca  
 Herbert Chandler Davis, B.S.L., St. Louis Park  
 Robert Edward Debel, B.S.L., St. Paul  
 David Caufield Donnelly, B.S.L., St. Paul  
 Thomas Aloysius Flannigan, B.A., Negaunee, Mich.  
 Gordon Alexander Forbes, B.A., Marshall  
 Robert Hinman Ford, B.S.L., North Platte, Neb.  
 Sherman Z. Garon, B.B.A., Duluth

Anthony Charles Gospodar, B.S.L.,  
 Elk River  
 Kenneth Wright Green, B.S.L.,  
 Minneapolis  
 Harold Alton Halgrimson, B.B.A.,  
 Leeds, N.D.  
 Eugene Lawrence Heck, B.S.L.,  
 Minneapolis  
 Robert Willis Higgins, B.S., Duluth  
 Robert Granville Hull, B.S.L., Orton-  
 ville  
 Carl Arthur Jensen, B.S.L., Sleepy Eye  
 Klein Leonard Johnson, B.S.L.,  
 Minneapolis  
 James Oliver Juntilla, B.S.L., Minne-  
 apolis  
 Keith Dunlap Kennedy, B.S.L.,  
 Minneapolis  
 Raeder Larson, B.B.A., Minneapolis  
 Donald G. Lasley, B.S.L., Fairmont  
 John Lee McKenzie, B.S.L., Virginia  
 Patrick James McNulty, B.S.L.,  
 Duluth  
 Leo Francis Murphy, Jr., B.S.L.,  
 Winona  
 John Samuel Nyquist, Jr., B.S.L.,  
 Milaca

Daniel William O'Brien III, B.S.L.,  
 St. Paul  
 Gerard John Ochs, B.S.L., Springfield  
 Ralph James Olson, B.S., Duluth  
 Arthur Rogers Pearce, B.A., Red Wing  
 George Robert Perkovich, Jr., B.S.L.,  
 Butte, Mont.  
 Melvin John Peterson, B.A., Milaca  
 Joseph Alfonse Rheinberger, B.S.L.,  
 St. Paul  
 Robert John Rice, B.S.L., Minne-  
 apolis  
 Robert Elmer Shea, B.S.L., Minne-  
 apolis  
 Don Clifton Smith, B.S., Minne-  
 apolis  
 Leonard Monroe Strickler, B.S.L.,  
 Minneapolis  
 Bruce Wilson Sumner, B.A., Minne-  
 apolis  
 Richard Dale Weiblen, B.S.L.,  
 Miller, S.D.  
 Robert Potter White, B.A., Morris-  
 ville, Pa.  
 W. Earl Williams, B.S.L., Minne-  
 apolis

## SCHOOL OF DENTISTRY

### Graduate Dental Hygienist

Dolores Adele Albrecht, Minneapolis  
 Marjorie Anne Anderson, Minne-  
 apolis  
 Lorna Jean Bruning, Minneapolis  
 Shirley Ann Burgan, Rochester  
 Donna Jean Carlson, Minneapolis  
 Florence Etheridge DeSutter, B.A.,  
 Minneapolis  
 Rosemarie Geurts, Beardsley  
 Barbara Jeanne Hultgren, Minneapolis  
 Pauline DeMarais Hurd, Coleraine  
 Barbara Welch Kelley, Billings, Mont.  
 Lola Mae Kimball, Clear Lake, Iowa  
 Phyllis Ann Kuckler, St. Paul  
 Betty Jean Larson, St. Paul  
 Muriel Ann Larson, Wheaton  
 Bette Bowers Lindlan, Mound  
 Joanne Ellen Lindquist, Minneapolis

Shirley Louise Lorentzen, White Bear  
 Lake  
 Marian Evelyn Macdonald, Minne-  
 apolis  
 Patricia Frances McNickle, St. Paul  
 Betty Lou Olson, Minneapolis  
 Lois Arlene Olson, Madelia  
 Joan Dora Palmer, Minneapolis  
 Marilyn Lou Plummer, Minneapolis  
 Thelma Maxine Sinn, Burlington,  
 Iowa  
 Elaine M. Snyder, Minneapolis  
 Lois Barbara Spanjers, Minneapolis  
 Marilyn M. Strand, Minneapolis  
 Jeanne Ann Swoboda, St. Paul  
 Catherine Carol Woulfe, Minneapolis  
 Gloria Dawn Zahrbock, St. Paul

## Doctor of Dental Surgery

- Hans Sundfor Aarstad, Stavanger, Norway  
Johan Aarthun, Stavanger, Norway  
Dorrance I. Anderson, B.S., Story City, Iowa  
Paul Lloyd Barber, B.A., Rapid City, S.D.  
Melvin Harvey Bauer, Tracy  
Earl Morris Behning, B.S., Manchester, Iowa  
Richard Clayton Berguson, Minneapolis  
Torill Bodahl, Saysborg, Norway  
Emmert Manson Brackney, Minneapolis  
Robert Lee Brockway, B.S., Big Timber, Mont.  
Robert Francis Champion, Lake City  
Dean Vincent Clark, Elmore  
Calvin Fredrick Cook, Milltown, Wis.  
James Edward Degnan, B.S., Leetonia, Ohio  
Eli William Doyra, B.S., Butte, Mont.  
Robert Jeanes Eyre, B.A., Galesburg, Ill.  
James Felix Faith, Minneapolis  
Joe Frisch, Minneapolis  
Eugene Thomas Furlong, North St. Paul  
Patricia Molly O'Mara George, B.A., Casper, Wyo.  
Max Calvin Gerde, Minneapolis  
William Gilmore Girvin, B.S., Man- kato  
Byron Joseph Greany, Anaconda, Mont.  
Kenneth S. Guetzke, Minneapolis  
Louis Theodore Hagen, Ray, N.D.  
Iwao Allen Harada, B.A., Honolulu, Hawaii  
Ingrid Hoel, Eidsvoll, Norway  
Earl Russell Horr, B.B.A., Minne- apolis  
Donald Morton Hurwitz, Minneapolis  
Isaac Iijima, Minneapolis  
Frank Emery Knutson, Blue Earth  
Reidun Leine Ljosland, Rjukan, Norway  
Robert Earl McKibben, B.A., St. Cloud  
Bjorn Midgard, Ostre Gausdal, Norway  
Gunnar Mjaatvedt, Bergen, Norway  
Robert John Morstad, New York Mills  
Donald A. Norris, Jr., Monticello  
Hjalmar Olset, Stavanger, Norway  
Mark Thomas Payant, B.S., Mari- nette, Wis.  
Lavern Arnold Piper, Minneapolis  
Robert Malcolm Scates, B.S., Enos- burg Falls, Vt.  
George William Smith, B.S., Gardner- ville, Nev.  
Norman Soder Strand, International Falls  
Stanley Jerome Strimling, Minne- apolis  
Hidetoshi Suyeoka, B.A., Honolulu, Hawaii  
Torgeir Togstad, Bergen, Norway  
Peter Thomas Vandenoever, Minot, N.D.  
Robert Hamilton West, St. Cloud  
Cletus Henry Willkom, B.S., Boyd, Wis.

## COLLEGE OF MEDICAL SCIENCES

### Graduate in Nursing \*

- Evi Altschuler, Norwalk, Conn.  
Hazel Moren Anderson, St. Paul  
Dorothy Hauge Baken, Minneapolis  
Marian Victoria Elving, Minneapolis

\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 15, 1949.



Carley Petersen Engwall, Pine City  
 Dorothy Gertrude Finkbinder, Marshall, Ill.  
 Helena L. Franchere, Lake Crystal  
 Margaret Pauline Gronvall, Minneapolis  
 Charlotte Amalie Haller, Pipestone  
 Margaret Elizabeth Hancock, Minot, N.D.  
 Jeane Elizabeth Haugen, Lake Mills, Iowa  
 Lois Charlene Johnson, Wheatland, N.D.  
 Betty Kono, Chicago, Ill.  
 Cecile Kume, Minneapolis  
 Audrey Theodora Lund, Minneapolis  
 Marie Claire Martineau, St. Paul  
 Jeanne Hagen Nave, Webster, S.D.

Eileen Mead Nelson, Geneva  
 Marjorie Iris Nemitz, Delhi  
 Annabelle Ruth Peterson, Minneapolis  
 Berniece Ruby Prosch, Lake Benton  
 Marilyn Ann Reis, Junction City, Wis.  
 Frances Marie Rypka, Owatonna  
 Audrey Jeanne Seaberg, Minneapolis  
 Masako Shimotori, St. Paul  
 Shirley Ann Silseth, Minneapolis  
 Eleanore Isabelle Sombeck, St. Paul  
 Jennie Belle Swallen, Minneapolis  
 Jeanne Edith Taylor, St. Paul  
 Ruth Lois Van Dusen, Minneapolis  
 Janis Ruth Wiles, Proctor  
 Marilyn Jean Williams, Cedar Rapids, Iowa

## Bachelor of Science

Evi Altschuler, Norwalk, Conn., Public Health Nursing, WITH HIGH DISTINCTION  
 Hazel Moren Anderson, St. Paul, Public Health Nursing, WITH DISTINCTION  
 Phyllis Corinne Barke, Fergus Falls, Medical Technology†  
 Louise Vivian Barnum, R.N., Freeport, N.Y., Public Health Nursing  
 JoAnn Battaglia, Buhl, Physical Therapy, WITH HIGH DISTINCTION  
 Joseph Primo Bocchi, Buhl, Medical Technology†  
 Priscilla Mae Brank, Chisholm, Physical Therapy, WITH HIGH DISTINCTION  
 Irene B. Brewer, Ridgeland, Wis., Public Health Nursing  
 James Lawrence Brown, B.A., Minneapolis, Medicine  
 James A. Campbell, Minneapolis, Physical Therapy  
 James Edward Carlson, Minneapolis, Physical Therapy  
 Margaret Mary Christison, St. Paul, Public Health Nursing

Elva Jane Decker, Mountain Grove, Mo., Public Health Nursing  
 Richard Philip Doe, St. Paul, Medicine  
 Lucille Evelyn Eichhorn, B.A., Drake, N.D., Public Health Nursing  
 Piedad Esquivel, Albuquerque, N.M., Public Health Nursing, WITH HIGH DISTINCTION  
 Alice Louise Estes, B.A., Minneapolis, Medical Technology, WITH DISTINCTION†  
 Geraldine Esther Finger, St. Paul, Physical Therapy, WITH DISTINCTION  
 Dorothy Gertrude Finkbinder, Marshall, Ill., Public Health Nursing  
 Martha Elaine Fosse, Minneapolis, Public Health Nursing, WITH DISTINCTION  
 Janice Gail Glauner, Topeka, Kan., Medical Technology†  
 Virginia Eloise Greenwell, Cornville, Ariz., Medical Technology†  
 Charlotte Amalie Haller, Pipestone, Public Health Nursing

† These degrees are conferred subject to satisfactory completion of required practical work prior to December 15, 1949.

- Coralie Jean Hamilton, R.N., Garfield Heights, Ohio, Public Health Nursing, WITH DISTINCTION
- Marion May Handke, Elk River, Medical Technology, WITH DISTINCTION †
- Vivian Charlotte Hannan, Minneapolis, Physical Therapy
- Roger Willard Hedin, B.A., Willmar, Medicine
- Mildred Jean Henly, B.A., St. Paul, Occupational Therapy
- Nestor Michael Hensler, B.A. cum laude, St. Paul, Medicine
- Alice Virginia Herrick, Riverside, Calif., Public Health Nursing
- Dorothy Ann Hogle, Fergus Falls, Occupational Therapy
- Ardith Ann Howell, Columbia, Mo., Public Health Nursing
- Elizabeth Jane Huhtala, A.S., Virginia, Physical Therapy, WITH DISTINCTION
- Gail Barbara Janicke, Minneapolis, Medical Technology †
- Dorothy Mae Jensen, Minneapolis, Occupational Therapy
- Miriam Vivian Kahz, Minneapolis, Occupational Therapy
- Muriel Gladys Koed, Askov, Medical Technology †
- Betty Kono, Chicago, Ill., Public Health Nursing, WITH DISTINCTION
- Mildred Koscak, Chisholm, Physical Therapy
- Evelyn Margaret Lunde, LaCrosse, Wis., Public Health Nursing
- Marie Claire Martineau, St. Paul, Public Health Nursing
- Marilyn Jean McCurdy, Virginia, Medical Technology †
- Dolores Catherine Merkel, R.N., New Ulm, Public Health Nursing, WITH DISTINCTION
- Roy Thomas Miller, St. Paul, Medicine
- Elizabeth Lee Mutschler, Fairfield, Iowa, Medical Technology †
- Jeanne Hagen Nave, Webster, S.D. Public Health Nursing
- Elizabeth Louise Nelson, Osakis, Medical Technology †
- Lenore Helen Nelson, Litchfield, Medical Technology †
- Virginia Margaret Nelson, B.A., Sebastopol, Calif., Public Health Nursing, WITH DISTINCTION
- Doreen Alma Neilund, Glendale, Calif., X-Ray Technology †
- Phoebe Lindholm Olson, Minneapolis, Public Health Nursing
- Lois Elaine Renneke, Echo, Medical Technology †
- Marilynn Leona Ring, Cokato, Medical Technology †
- Clara Leone Rockeman, Hector, Public Health Nursing
- Ruth Margaret Louise Rosendahl, Minneapolis, Medical Technology †
- Audrey Jeanne Seaberg, Minneapolis, Public Health Nursing
- Clarice Jenkins Seim, Minneapolis, Medical Technology, WITH DISTINCTION †
- Margaret Louise Sherk, R.N., Seminole, Okla., Public Health Nursing, WITH HIGH DISTINCTION
- Masako Shimotori, St. Paul, Public Health Nursing
- Shirley Ann Silseth, Minneapolis, Public Health Nursing
- Norman Anderson Sterrie, B.A., St. James, Medicine
- Lucille Bertha Strohbeen, New Richmond, Wis., Public Health Nursing, WITH DISTINCTION
- Jennie Belle Swallen, Minneapolis, Public Health Nursing, WITH HIGH DISTINCTION
- Ellsworth Arvid Swanson, Minneapolis, Physical Therapy
- Reiko Taguchi, Minneapolis, Medical Technology †
- Carol Luella Vogel, Minneapolis, Medical Technology †
- Arline Helen Volkert, Minneapolis, Medical Technology †

† These degrees are conferred subject to satisfactory completion of required practical work prior to December 15, 1949.

**Emma Dorothy Wahlstrom, Clear Lake, Wis., Public Health Nursing, WITH DISTINCTION**  
**Ruth Victoria Walberg, R.N., Duluth, Public Health Nursing, WITH DISTINCTION**  
**Ida Louise Ward, Baltimore, Md., Public Health Nursing, WITH DISTINCTION**

**Janis Ruth Wiles, Proctor, Public Health Nursing**  
**Ardith LaVaughn Wilson, Mount Pleasant, Iowa., Public Health Nursing, WITH DISTINCTION**  
**Arlis Esther Wilson, Beresford, S.D., Medical Technology†**  
**Geraldine Margret Yungers, Goodhue, Occupational Therapy**

## Bachelor of Medicine

**Paul Adams, Jr., B.A., Minneapolis**  
**Suzanne Agnew, B.S., M.S., Minneapolis**  
**John Amberg, B.S., St. Paul**  
**Hazel Louise Anderson, B.S., Opheim, Mont.**  
**Royden Belcher, B.S., Thief River Falls**  
**Frank Mcroft Bennett, B.S., Salem, Ore.**  
**Edwin Elberg Boysen, B.S., Pelican Rapids**  
**James L. Brown, B.A., Minneapolis**  
**Richard Sylvester Campion, B.S., St. Cloud**  
**Sol Center, B.A., B.S., Minneapolis**  
**Eleanor Colle, B.A., B.S., Minneapolis**  
**Cyril John Corrigan, B.S., St. Paul**  
**James Raymond Doyle, B.S., Owatonna**  
**Conrad Engwold Eastwold, B.A., B.S., Minneota**  
**Carl D. Eklund, B.S., Duluth**  
**Edwin Eklund, Jr., B.S., Minneapolis**  
**Lief W. Erickson, B.S., Tigerton, Wis.**  
**Ellis Boyd Finch, B.S., Seattle, Wash.**  
**Richard Eugene Fleming, B.S., St. Cloud**  
**Gilbert Hugo Friedell, B.S., Minneapolis**  
**James Paul Ginsberg, B.A., B.S., St. Paul**  
**David Gold, B.A., B.S., Minneapolis**  
**Anthony Stephen Grahek, B.S., Ely**  
**Suzanne Grant, B.S., B.A. magna cum laude, Minneapolis**

**David Cress Groenig, B.S., B.A., Faribault**  
**Allan Murray Gunn-Smith, B.S., Minneapolis**  
**Elaine Mary Hacker, B.A. magna cum laude, B.S., Benson**  
**John Doran Hagen, B.S., Minneapolis**  
**William Byrne Hanson, B.A., B.S., Minneapolis**  
**Roger Willard Hedin, B.A., Willmar**  
**Nestor M. Hensler, B.A. cum laude, St. Paul**  
**Donald F. Holm, B.A., Minneapolis**  
**Norman Winfred Hoover, B.S., Millville**  
**Phyllis Rosander Hoover, B.S., Minneapolis**  
**Margaret Huelskamp, B.A., Gaylord**  
**William Hicks Inglis, B.S., Redwood Falls**  
**Marilyn Anderson Jarvis, B.A., B.S., St. Paul**  
**DeLores Evelyn Johnson, B.S., Elbow Lake**  
**Roy Raymond Juntunen, B.S., Esko**  
**Yale Joel Katz, B.A., M.S., Ph.D., Minneapolis**  
**Paul Jackson Keith, B.S., Chatfield**  
**Edward Horan Kelly, B.S., St. Paul**  
**Marvin Curtis Korengold, D.D.S., B.S., Minneapolis**  
**Oscar S. Kulstad, B.S., Fergus Falls**  
**Gerald Elsworth Larson, B.S., Braham**  
**Thomas Abraham Lincoln, B.A., B.S., Fergus Falls**  
**Howard Willis Lindsey, Jr., B.S., Rochelle, Ill.**  
**Robert Myron Lundblad, B.S., Duluth**

† These degrees are conferred subject to satisfactory completion of required practical work prior to December 15, 1949.

Raymond Carl Magnuson, B.S., Foley  
 Patrick Henry Marrone, B.S., St. Paul  
 Elizabeth Mary McKenna, B.A., B.S.,  
 Austin  
 John Keith Meinert, B.A. magna cum  
 laude, B.S., Winona  
 Marshall James Melius, B.S.,  
 St. Charles  
 Roy Thomas Miller, B.S., St. Paul  
 Ralph Anthony Muhich, B.S., Eveleth  
 George Ernst Nelson, Jr., B.S., Minne-  
 apolis  
 Maxine Olive Nelson, B.A., B.S.,  
 Minneapolis  
 James Allan Nesse, B.A., St. Paul  
 Rosalind Novick, B.A., Flushing, N.Y.  
 Lawrence Jurgen Opsahl, B.S., Minne-  
 apolis  
 Marvin Phillip Osman, B.A., B.S.,  
 Los Angeles, Calif.  
 Norman Eggleston Pond, B.S., B.A.,  
 St. Paul  
 Robert William Reif, B.S., St. Paul  
 John Peter Sande, D.D.S., B.S.,  
 Two Harbors  
 Eugene Ira Saxon, B.S., St. Paul  
 Alois McKeon Scheidel, B.S.,  
 Mankato  
 Warren Noble Sheldon, B.S.,  
 Hutchinson  
 John Sims Solhaug, B.S., Minneapolis  
 Ernest Joseph Sowada, B.S., M.S.,  
 St. Cloud  
 Louis Herman Stahn, B.S., Minne-  
 apolis  
 Paul Hjertaas Stavig, B.S., Sioux Falls,  
 S.D.  
 Norman Anderson Sterrie, B.A., St.  
 James  
 Julius Stone, B.A., B.S., Minneapolis  
 Louis George Stuhler II, B.S.,  
 Rochester  
 Alloys Harold Tallakson, B.A., Minne-  
 apolis  
 Wesley George Tomhave, B.A., B.S.,  
 Hibbing  
 Stanley Burton Troup, B.A., B.S.,  
 Minneapolis  
 Richard Carlyle Tucker, B.A., B.S.,  
 Minneapolis  
 Lee Wolff Wattenberg, B.S., Minne-  
 apolis  
 James Moses Aaron Weiss, B.A.  
 summa cum laude, B.S., Minne-  
 apolis  
 H. Paul Wendt, B.E., Sauk Rapids  
 Edwin Owen Wicks, B.S., M.S.,  
 Valley City, N.D.  
 Myron James Woltjen, B.S., St. Louis,  
 Mo.  
 Lillian Wong, B.A., B.S., Minneapolis  
 John Richard Zell, B.S., Mankato

## Master of Hospital Administration

Herbert Axel Anderson, B.A., Duluth  
 Jerome Thomas Bieter, B.B.A., Fari-  
 bault  
 Frederick Simons Burd, B.S., Hills-  
 dale, Mich.  
 Earl George Dresser, B.B.A., Arlington  
 Aileen Elizabeth Foley, B.B.A.,  
 Minneapolis  
 Donald Rowe Freeman, B.A., St. Paul  
 Stephen Bliss Fuller, B.A., Chevy  
 Chase, Md.  
 Robert Edmund Griffiths, B.A.,  
 Edgar, Wis.  
 Rodney Walker Hemsworth, B.B.A.,  
 St. Paul  
 Theodor L. Jacobsen, B.A., Minne-  
 apolis  
 Leroy Nelson McKenney, B.A.,  
 M.Ed., M.A., Duxbury, Mass.  
 David Edwin Olsson, B.S., Martinez,  
 Calif.  
 Telmer Ordman Peterson, B.S., Het-  
 land, S.D.  
 Bruce DeVoe Root, B.B.A., Rochester  
 Francis John Schueller, B.B.A.,  
 Fergus Falls  
 George Henry Stone, Jr., B.A., Wor-  
 cester, Mass.  
 Russell Blain Williams, B.A., Berke-  
 ley, Calif.  
 Kenneth Evans Wolz, B.S., Trenton,  
 Mo.

## Master of Public Health

- |  |  |
|--|--|
| Simon Abrahams, B.S., M.D., Brooklyn, N.Y.                           | Georges Metellus, Port-au-Prince, Haiti      |
| Philip Rains Beckjord, B.S., M.B., M.D., Manilla, Philippine Islands | Loyal Clark Peckham, B.S., Gillingham, Wis.  |
| Ling Tsai Cheng, M.B., Szechwan, China                               | King-Yo Soong, M.D., Shanghai, China         |
| Arthur Honkuang Djang, M.D., Hailon, China                           | Gustavo Tapia-Murillo, LaPaz, Bolivia        |
| Dorothy Elizabeth Grim, B.A., M.N., Lincoln University, Pa.          | Stanley John Weidenkopf, B.S., Baraboo, Wis. |
| Martin Dale Hicklin, B.A., M.D., Wapello, Iowa                       | Frank Leonard Woodward, B.Eng., Minneapolis  |
| James Chow Hsu, M.B., Nantung, China                                 |  |

## Doctor of Medicine\*

- |  |  |
|--|--|
| Regine Ann Aronow, B.A., B.S., M.B., Belton, Mont.       | Eugene John Diefenbach, Jr., B.S., M.B., Minneapolis       |
| Joseph James Asta, B.A., B.S., M.B., Brooklyn, N.Y.      | Jeanne Dahl Diefenbach, B.S., M.B., Minneapolis            |
| Jesse John Barron, B.S., M.B., Minneapolis               | John Hammill Draheim, B.S., M.B., Neenah, Wis.             |
| Anthony Joseph Bianco, Jr., B.S., M.B., Duluth           | Laura Elaine Edwards, B.A., M.B., St. Paul                 |
| Leland Merle Bitner, B.S., M.B., San Francisco, Calif.   | John Emery Egdahl, B.S., M.B., Eau Claire, Wis.            |
| Norbert Paul Blochowiak, B.S., M.B., Winona              | Ruby Maria Engstrom, B.S., M.S., M.B., Eloise, Mich.       |
| Priscilla Day Boekelheide, B.A., B.S., M.B., Robbinsdale | Myron Elwood Erickson, B.S., M.B., Minneapolis             |
| Alexander Marius Boysen, B.S., M.B., Bemidji             | Philip Hubert Fensterer, Jr., B.S., M.B., Oyster Bay, N.Y. |
| Robert Glen Bridge, B.S., M.B., Midland, Mich.           | Robert John Fink, B.S., M.B., Minneapolis                  |
| Donald George William Brooking, B.S., M.B., Minneapolis  | James Brainerd Flinn, B.S., M.B., Redwood Falls            |
| Irving Harold Chevlen, B.S., M.B., Youngstown, Ohio      | William Herbert Goodnow, B.S., M.B., Sioux City, Iowa      |
| Richard Louis Conde, B.S., M.B., Minneapolis             | Clayton Robbie Green, B.S., M.B., Bozeman, Mont.           |
| Robert F. Conway, B.S., M.B., Mankato                    | James William Halvorson, B.S., M.B., Duluth                |
| Windon Hewett Davis, B.S., M.B., Rochester               | George Winfield Heine, Jr., B.S., M.B., Austin             |
| Donald Evensta Derauf, B.S., M.B., St. Paul              | Lucille Jeannette Hoilund, B.S., M.B., Duluth              |

\* These degrees are conferred subject to the satisfactory completion of hospital internship within one month.

Leong Yale Woo Hom, B.S., M.B.,  
 Minneapolis  
 Loren Joel Jacobson, B.S., M.B.,  
 Minneapolis  
 Robert Travis Jensen, B.A., B.S.,  
 M.B., Crygla  
 Sheldon William Joseph, B.S., M.B.,  
 Chicago, Ill.  
 Robert Michael Joyer, B.S., M.B.,  
 Eloise, Mich.  
 Warren Andrew Kadas, B.S., M.B.,  
 Farmington  
 Sheldon Wayne Kayute, B.S., M.B.,  
 Ely  
 James Edward Kelsey, B.S., M.B.,  
 Loch Arbour, N.J.  
 Ervin Arthur Kjenaas, B.S., M.B.,  
 Minneapolis  
 Fred Henry Koenecke, Jr., B.S., M.B.,  
 Ceylon  
 Paul J. Kushner, B.A., B.S., M.B.,  
 Brooklyn, N.Y.  
 Joyce Sansen Lewis, Jr., B.S., M.B.,  
 Long Prairie  
 Harold David Locketz, B.S., M.B.,  
 Duluth  
 Jeanette Kraemer Lowry, B.A., M.A.,  
 M.B., Minneapolis  
 Fred Madenberg, B.S., M.B., Chicago,  
 Ill.  
 Philip Marcus Margolis, B.S., B.A.,  
 M.B., St. Paul  
 Doren Aprilla Martin, B.S., M.B.,  
 Wabasha  
 Margaret Mary McCabe, B.S., M.B.,  
 Flint, Mich.  
 J. Victor Monke, B.A., M.S., Ph.D.,  
 M.B., Rochester, N.Y.  
 Vernon Emil Neils, B.S., M.B., Sauk  
 Rapids  
 Clifford Edward Nelson, B.S., M.B.,  
 Minneapolis  
 Charles A. Neumeister, B.S., M.B.,  
 Minneapolis  
 Harry William Orme, B.S., M.B.,  
 Wheatridge, Colo.  
 Edward Antone Pasek, A.A., B.S.,  
 M.B., Cloquet  
 Vernon Fred Perrigo, B.S., M.B.,  
 Minneapolis  
 John Robert Pfrommer, Jr., B.S.,  
 M.B., Lafayette, Ind.  
 Rex Arthur Pittenger, B.A., M.B.,  
 Minneapolis  
 John Webster Raattama, B.A., Nash-  
 wauk  
 John Porter Reed, Jr., B.A., M.B.,  
 St. Paul  
 Dan Reikes, B.S., M.B., New York,  
 N.Y.  
 Arnold Olin Rholl, B.S., M.B., North-  
 wood, N.D.  
 Helen M. Safford, B.S., M.B., Mina-  
 tare, Neb.  
 Richard James Salk, B.S., M.B., Sauk  
 Rapids  
 John Bryant Sanford, B.S., M.B.,  
 Minneapolis  
 Harry Edward Schneider, Jr., B.S.,  
 M.B., Plainwell, Mich.  
 Thomas Clement Smersh, B.S., M.B.,  
 Owatonna  
 Stanley John Sontag, B.S., M.B.,  
 Mankato  
 Charles Curtis Strong, B.A., M.B.,  
 Chehalis, Wash.  
 William Eugene Taylor, B.S., M.B.,  
 Oakland, Calif.  
 Mary Thornton, B.S., M.B., Chicago,  
 Ill.  
 Jolyon Simeon Tucker, B.S., M.B.,  
 Beverly Hills, Calif.  
 Hildegard Josephine Virnig, B.A.,  
 B.S., M.B., Pierz  
 Stanley Carl Von Drashek, B.S.,  
 M.B., Dickinson, N.D.  
 James Otis Wall, B.S., M.B., St. Paul  
 George Joseph Wernette, B.S., M.B.,  
 Blackfoot, Idaho  
 Louis Jolyon West, B.S., M.B., Madi-  
 son, Wis.  
 John Irving Williams, B.S., M.B.,  
 Evanston, Ill.  
 Gloria Ru-wen Wong, B.A., B.S.,  
 M.B., Albert Lea  
 Joe Yamomoto, B.S., M.B., Minne-  
 apolis

# GRADUATE SCHOOL

## Master of Arts

Harry Sommers Aasved, Minneapolis  
B.A. '47, University of Minnesota. Field of  
Concentration: Social Work.

Arlouine Hacker Adams, Benson  
B.S. with distinction '46, University of Min-  
nesota. Field of Concentration: Educational  
Psychology.

Bill Kaler Addison, Milroy, Ind.  
B.A. '45, Ball State Teachers College. Field of  
Concentration: American Studies.

James Leslie Bailey, Erskine  
B.B.A. '48, University of Minnesota. Field of  
Concentration: Economics.

Lorraine Kathleen Baker, Chinook,  
Mont.  
B.A. '46, University of Minnesota. Field of  
Concentration: Social Work.

Janiece Elaine Barre, Minneapolis  
B.A. '46, University of Minnesota. Major:  
German (Literature). Minor: German (Lin-  
guistics and Philology). Thesis: Religious As-  
pects of Anzengruber's Major Dramas.

Carol Alice Benson, LeRoy  
B.S. with distinction '46, University of Min-  
nesota. Field of Concentration: Curriculum  
and Instruction.

Edward Davis Berryman, Omaha,  
Neb.  
B.A. '42, University of Omaha. Major: Music.  
Minor: English. Thesis: The Vine and the  
Branches.

Margaret Gunkel Bleckwenn, Madi-  
son, Wis.  
B.A. '45, University of Wisconsin. Field of  
Concentration: Social Work.

James William Bothwell, Duluth  
B.A. '48, College of St. Thomas. Field of Con-  
centration: Educational Administration.

Robert Edward Byron, Edmonton,  
Alberta, Canada  
B.S. '35, M.Ed. '47, University of Alberta.  
Field of Concentration: Industrial Education.

Dean T. Campbell, Wichita, Kan.  
B.A. '48, University of Wichita. Field of Con-  
centration: Journalism.

Richard Thomas Cave, Minneapolis  
B.S. '42, South Dakota State College. Field  
of Concentration: Educational Psychology.

Gabriel William Comita, Minne-  
apolis  
B.S. '37, College of St. Thomas. Major:  
Zoology. Minor: Botany. Thesis: Studies on  
Mexican Copepods.

Mary Bowles Cordingley, Minneapolis  
B.A. '39, Carleton College. Field of Con-  
centration: Social Work.

Ruth B. Davies, Fort Belvoir, Va.  
B.A. '43, University of Minnesota. Field of  
Concentration: Social Work.

Evelyn Henrietta Determan, Minne-  
apolis  
B.S. '45, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Vincent diGiambattista, Hibbing  
B.A. '41, College of St. Thomas. Field of  
Concentration: History.

Mark Cyril Erspamer, Hibbing  
B.S. '36, University of Minnesota. Field of  
Concentration: Social Work.

Elizabeth Dickson Finegan, Boston,  
Mass.  
B.A. '43, Radcliffe College. Field of Con-  
centration: History.

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

Harry Joseph Greenspan, Minneapolis  
B.A. '41, University of Minnesota. Major:  
Economics. Minor: Political Science. Thesis:  
Inflationary Forces in Mexico in the War and  
Post-war Periods.

Dora Melvina Gulbranson, Fertile  
B.A. '28, Concordia College. Field of Con-  
centration: English.

Sarah Margaret Lundy Guy, Biloxi,  
Miss.  
B.B.A. '48, University of Minnesota. Field of  
Concentration: Economics.

Alden Vincent Halloran, Minneapolis  
B.S. '40, University of Minnesota. Field of  
Concentration: Social Work.

LaVerne R. Hamel, Minneapolis  
B.B.A. '48, University of Minnesota. Field of  
Concentration: Economics.

Robert Edward Hammarstrand,  
Cannon Falls  
B.A. *cum laude* '48, University of Minnesota.  
Field of Concentration: Spanish.

Frances Lee Harrison, Minneapolis  
B.A. '47, University of Minnesota. Field of  
Concentration: Social Work.

Delbert Curtis Hastings, Minneapolis  
B.S. '47, University of Minnesota. Field of  
Concentration: Statistics.

Helen Marie Hawkinson, Shafer  
B.A. '40, Augustana College. Field of Con-  
centration: Social Work.

Loren Anton Helberg, Newton, Iowa  
B.A. '39, Cornell College. Field of Concen-  
tration: Economics.

Nancy Jane Hickman, Fort Collins,  
Colo.  
B.S. '47, Colorado State College of Agricul-  
ture and Mechanics. Field of Concentration:  
Educational Psychology.

Khan Shaf Hidayatullah, Bombay,  
India  
B.Sc. '45, University of Bombay; M.S. '48,  
Kansas State College. Field of Concentration:  
Economics.

Jane Hodges, Seattle, Wash.  
B.A. *magna cum laude* '43, University of  
Washington. Field of Concentration: History.

Morris Hoffman, St. Paul  
B.S. '47, University of Minnesota. Field of  
Concentration: History.

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

Leigh Waterman Hunt, Jr., Hamden,  
Conn.  
B.A. '47, Yale University. Field of Concen-  
tration: Political Science.

Mahmoud Khairy Hussein Issa,  
Cairo, Egypt  
B.Com. '44, Fouad I University. Field of  
Concentration: History.

Florence Irene Jakkula, Minneapolis  
B.S. '37, University of Minnesota. Field of  
Concentration: Social Work.

Howard G. Jensen, Minneapolis  
B.B.A. '45, University of Minnesota. Field of  
Concentration: Economics.

Margaret Irene Johnson, Minneapolis  
B.S. with distinction '36, University of Min-  
nesota. Field of Concentration: Curriculum  
and Instruction.

Ruby Adeline Johnson, Minneapolis  
B.S. with high distinction '36, University of  
Minnesota. Field of Concentration: Curriculum  
and Instruction.

Alexander Elvin Jones, St. Paul  
B.A. '42, DePauw University. Field of Con-  
centration: English.

Robert Myron Josephson, Minneota  
B.A. '47, Luther College. Field of Concen-  
tration: Business Administration.

Paul Edward Kaufmann, Waukesha,  
Wis.  
B.A. '47, Carleton College. Field of Concen-  
tration: American Studies.

Florence Goodman Kearns, Minne-  
apolis  
B.A. *cum laude* '42, University of Minnesota.  
Major: Music. Minor: English. Thesis: "Can-  
terbury Pilgrims"—A Tone Poem for Or-  
chestra.

Warren Herbert Kelly, St. Paul  
B.A. '33, Park College. Field of Concen-  
tration: Social Work.

Frederick William Kohlmeyer,  
Winona  
B.S. '43, Winona State Teachers College.  
Field of Concentration: History.

George Albert Kub, Havana, N.D.  
B.A. '38, College of St. Thomas. Field of  
Concentration: Social Work.

William Martin Kulstad, St. Paul  
B.E. '35, River Falls State Teachers Col-  
lege. Field of Concentration: Educational Ad-  
ministration.

Mary Margaret Laxson, Earlville, Iowa  
B.S. '46, Iowa State College. Field of Con-  
centration: Home Economics Education.

Heng-i Lee, Foochow, China  
B.A. '42, Great China University. Field of  
Concentration: Economics.



Betty Lindeman Leonard, Minneapolis

B.A. '38, Bennington College. Field of Concentration: Social Work.

Donald Alphon Leton, St. Paul

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

Tao-Kuei Li, Sinyang, Honan Province, China

B.A. '43, National Southwest Associated University. Field of Concentration: Political Science.

Roy Alfred Lindberg, Brainerd

B.S. '41, St. Cloud State Teachers College. Field of Concentration: Industrial Education.

Theodore Rudolph Lindbom, Buhl

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

David Neher Loevinger, St. Paul

B.Aero.E. '42, University of Minnesota. Field of Concentration: Political Science.

Bertha Lunde, St. Paul

B.A. '25, St. Olaf College. Field of Concentration: Curriculum and Instruction.

Elwood John Lundeen, Lindstrom

B.A. '42, Augsburg College. Field of Concentration: Education.

Eva Marie Maloney, Farmington

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

Barry Alan Marks, New York, N.Y.

B.A. '48, Dartmouth College. Field of Concentration: American Studies.

Alice Claire McCauley, Minneapolis

B.S. '37, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Basil Duane Moen, Gary

B.S. '42, Moorhead State Teachers College. Field of Concentration: Educational Psychology.

Richard Clay Mooney, Jr., Maple Plain

B.E. '31, River Falls State Teachers College. Field of Concentration: Curriculum and Instruction.

Vernon N. Mork, Lakota, N.D.

B.S. Ed. '38, University of North Dakota. Field of Concentration: Education.

Harland B. Moulton, Mankato

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

Paul Chester Nagel, Independence, Mo.

B.A. cum laude '48, University of Minnesota. Major: History. Minor: American Literature. Thesis: John Tyler as Congressman and Senator.

Clarence Walfred Nelson, Jr., Minneapolis

B.B.A. with distinction '48, University of Minnesota. Field of Concentration: Economics.

James Ferdinand Nyquist, Willmar

B.S. *summa cum laude* '48, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Richard Bernard O'Connell, Minneapolis

B.A. *magna cum laude* '46, University of Minnesota. Major: German. Minor: Spanish. Thesis: Rilke and the Sonnet.

Donald Wayne Olson, Colfax, Wis.

B.A. cum laude '47, St. Olaf College. Field of Concentration: Political Science.

Ethel Bernice Olson, Fargo, N.D.

B.S. '37, North Dakota Agricultural College. Field of Concentration: Social Work.

Dorothy Jeanette Petitt, Mason City, Iowa

B.S. with high distinction '45, University of Minnesota. Field of Concentration: Education.

Charles Edwin Porter, Jr., St. Paul

B.A. *magna cum laude* '47, University of Minnesota. Field of Concentration: Physics.

Stuart Moss Porter, Minneapolis

B.S. '38, University of Oklahoma. Field of Concentration: Psychology.

James Patrick Quirk, St. Paul

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

Paul Herbert Randolph, Portland, Ore.

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

Thomas Reaser Roberts, Minneapolis

B.A. cum laude '43, Harvard College. Field of Concentration: Physics.

- Gerald Ernest Roehning, Northome  
B.S. with high honors '48, Mankato State Teachers College. Field of Concentration: Industrial Education.
- Gertrude Hauser Ruhberg, St. Paul  
B.S. '22, University of Minnesota. Field of Concentration: Fine Arts.
- Harry Wendell Sartain, Park Rapids  
B.S. '48, Bemidji State Teachers College. Field of Concentration: Curriculum and Instruction.
- Mary McLane Schmitt, Minneapolis  
B.A. cum laude '48, University of Minnesota. Field of Concentration: Psychology.
- Otto C. Schultz, Lisbon, N.D.  
B.S. '36, Ellendale State Teachers College; M.S. '47, University of North Dakota. Field of Concentration: Industrial Education.
- Donald Richard Shea, Circle Pines  
B.A. magna cum laude '47, University of Minnesota. Field of Concentration: Political Science.
- Ronald Sher, Brooklyn, N.Y.  
B.A. '48, Brooklyn College. Field of Concentration: History.
- Maynard John Silseth, Minneapolis  
B.A. '39, Concordia College; B.D. '42, Northwestern Lutheran Theological Seminary. Field of Concentration: History.
- LeRoy Joseph Simon, Minneapolis  
B.S. '48, University of Minnesota. Major: Educational Psychology. Minor: Mathematics. Thesis: Two Uses of Probit Analysis in Educational Research with Application to Predicting Success in Statistics.
- Jeanne Sinnen, St. Paul  
B.A. '48, University of Minnesota. Field of Concentration: American Studies.
- Norma Lucille Smith, Minneapolis  
B.A. '47, University of Minnesota. Field of Concentration: Psychology.
- Edward Theodore Sommerfeld,  
Arthur, N.D.  
B.A. '40, Mayville State Teachers College. Field of Concentration: Educational Administration.
- Norman Dale Sundberg, Minneapolis  
B.A. with distinction '47, University of Nebraska. Field of Concentration: Psychology.
- Edward Orley Swanson, Minneapolis  
B.A. summa cum laude '48, University of Minnesota. Field of Concentration: Psychology.
- Allyn Casper Taylor, St. Paul  
B.S. '31, University of Minnesota. Field of Concentration: Industrial Education.
- Virginia Taylor, Minneapolis  
B.A. '45, Vassar College. Major: English. Minor: Linguistics. Thesis: Jane Austen's Reputation in the Nineteenth Century.
- Tin-Moung, Rangoon, Burma  
B.A. '39, University of Rangoon. Field of Concentration: Journalism.
- Jeanne Carol Traphagen, Minneapolis  
B.S. with distinction '44, University of Minnesota. Field of Concentration: History.
- John Elliott Turner, Minneapolis  
B.A. magna cum laude '39, Yankton College. Major: Political Science. Minor: History. Thesis: The Origin and Development of the Kenseikai (Constitutional Political Association) of Japan, 1913-1927.
- Robert Lawrence Tyler, St. Paul  
B.A. '48, University of Minnesota. Field of Concentration: History.
- Otto Elliot Ursin, Bemidji  
B.S. '41, Bemidji State Teachers College. Field of Concentration: Industrial Education.
- Rolfe Kermit Vanderbilt, Decorah,  
Iowa  
B.A. '47, Luther College. Field of Concentration: English.
- John Arnold Wallace, St. Paul  
B.A. '40, Macalester College. Field of Concentration: Social Work.
- John Noah Ward, Duluth  
B.S. '48, University of Minnesota. Field of Concentration: Educational Psychology.
- John Abraham Wiebe, Mountain  
Lake  
B.A. '25, Tabor College. Major: Anthropology. Minor: History. Thesis: The Madiga and Christianity—A Study in Acculturation.
- Dorothy Irene Yennie, Rochester  
B.S. '41, Winona State Teachers College. Field of Concentration: American Studies.
- Joseph Thomas Zyganski, Duluth  
B.S. '42, Duluth State Teachers College. Field of Concentration: Educational Administration.

## Master of Business Administration

Lester Burton Drager, Swanville  
B.S. '43, St. Cloud State Teachers College;  
B.B.A. '48, University of Minnesota. Field of  
Concentration: Business Administration.

Edwin Nelson Drake, Minneapolis  
B.S. '43, United States Naval Academy. Field  
of Concentration: Business Administration.

Clair Joseph Ryan, Marshall  
B.B.A. '47, University of Minnesota. Major:  
Business Administration. Minor: Mechanical  
Engineering. Thesis: Technical Design of In-  
dustrial Organization.

Roland David Sullivan, Calumet,  
Mich.  
B.B.A. '47, University of Minnesota. Field of  
Concentration: Business Administration.

## Master of Science

Lloyd Edwin Anderson, Monterey  
B.A. '40, Gustavus Adolphus College. Major:  
Bacteriology. Minor: Food Technology. Thesis:  
A Study of the Intestinal Flora of Swine Re-  
ceiving Added Copper to the Diet.

Vernon LeRoy Baldwin, Benson  
B.S. '38, University of Minnesota. Field of  
Concentration: Dairy Husbandry.

Richard Baskin, Brooklyn, N.Y.  
B.A. '47, University of Minnesota. Major:  
Physics. Minor: Mathematics. Thesis: On the  
Theory of the Hydrodynamical Boundary Layer  
for Solids of Revolution.

Charles Harris Benrud, Goodhue  
B.S. with high distinction '48, University of  
Minnesota. Field of Concentration: Agricul-  
tural Economics.

Alan P. Bentz, Balboa Heights, Canal  
Zone  
B.S. '47, Pennsylvania State College. Field of  
Concentration: Organic Chemistry.

Allan A. Blatherwick, Minneapolis  
B.S. in E.E. '36, State University of Iowa.  
Field of Concentration: Mathematics.

James Walter Butcher, Pittsburgh,  
Pa.  
B.S. '43, University of Pittsburgh. Major:  
Entomology. Minor: Plant Pathology. Thesis:  
Biological and Ecological Studies on Some  
Lepidopterous Bud and Shoot Insects of Jack  
Pine.

Gilbert S. Campbell, Jr., Charlottes-  
ville, Va.  
B.A. '43, M.D. '46, University of Virginia.  
Major: Physiology. Minor: Pathology. Thesis:  
An Experimental Analysis of Cardiodynamic  
and Pulmonary Parenchymal Changes Follow-  
ing Increased Intracranial Pressure.

Chien Chia, China  
B.S. '41, M.S. '43, National Central Univer-  
sity. Major: Agricultural Economics. Minor:  
Business Administration. Thesis: An Economic  
Study of the Relationships between Size of  
Farm Business and the Standard of Living of  
Farmers in Sing-Lung-Hsiang, Bai-Hsien, Sze-  
chwan, China.

Ting Chien, Kashing, China  
B.S. '34, University of Chekiang. Major: Ag-  
ricultural Biochemistry. Minor: Bacteriology.  
Thesis: A Study of Some Sulphydryl Groups in  
Wheat Flour.

Frank Melvin Crane, Garden City  
B.S. '48, University of Minnesota. Field of  
Concentration: Animal Husbandry.

Clara Frances Eilar, New Castle, Ind.  
B.S. '32, Ball State Teachers College. Field of  
Concentration: Home Economics Education.

Helen Louise Finnegan, Toronto,  
Ont., Canada  
B.A. '33, University of Toronto. Field of  
Concentration: Home Economics Education.

Arne Stuart Fryxell, Winnipeg, Man.,  
Canada  
B.Sc. '45, University of Manitoba. Field of  
Concentration: Geology.

Andrew Joseph Galambos, New York,  
N.Y.  
B.S. '47, College of the City of New York.  
Field of Concentration: Physics.

Shivappa Kuberappa Goni, Hubli,  
Bombay Province, India  
B.S. '40, Bombay University. Field of Con-  
centration: Dairy Husbandry.

Ralph Sargent Grant, Milaca  
B.S. '36, University of Minnesota. Field of  
Concentration: Dairy Husbandry.

Harvey L. Gunderson, St. Paul

B.A. '35, Concordia College. Major: Economic Zoology. Minor: Botany. Thesis: A Study of Small Mammal Populations at Cedar Creek Forest, Anoka County, Minnesota.

Ronald Rupert Heal, Armstrong,

B.C., Canada

B.S. '47, University of British Columbia. Major: Agronomy. Minor: Plant Pathology. Thesis: The Relationship of Food Reserves to Freezing Injury in Ladino and Wild White Clovers.

William Robert Hess, St. Paul

B.A. '40, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Studies on the Mechanism of the Action of Botulinum Toxin.

Myron E. Heusinkveld, Hull, Iowa

B.S. in E.E. '42, Iowa State College. Field of Concentration: Physics.

Thomas Wallace Holmes, Jr., St. Paul

B.A. '42, Macalester College. Field of Concentration: Geology.

Robert Farnsworth Holt, St. Paul

B.A. '43, Macalester College. Field of Concentration: Inorganic Chemistry.

Mary Margaret Hurn, Rochester

B.A. '26, Iowa State Teachers College. Major: Anatomy. Minor: Zoology. Thesis: Thromboplastins and Prothrombin Time: A Method for Comparing the Activities of Thromboplastins Used in the "Quick Prothrombin Test"; Its Usefulness in the Determination of Prothrombin Time Following the Administration of Dicumarol.

Ismail Ali Ibrahim, Cairo, Egypt

B.Sc. '43, Cairo University. Major: Plant Pathology. Minor: Plant Physiology. Thesis: The Effect of Some Environmental Conditions and Chemicals on the Development of Races 2,6,7, and 8 of *Puccinia graminis avenae* Erks. and Henn.

Edwin Marvin Ingersoll, Blackduck

B.S. '42, Bemidji State Teachers College. Major: Zoology. Minor: Economic Zoology. Thesis: Helminth Parasites of the American Coot, *Fulica americana* Gmelin, of Minnesota.

Thorkil Jensen, Minneapolis

B.A. *magna cum laude* '41, Gustavus Adolphus College. Major: Zoology. Minor: Entomology. Thesis: Some Animal Parasites of Catostomid Fishes in Minnesota and Northern Iowa.

Donald Arthur Johnson, Minneapolis

M.D. '45, George Washington University. Major: Physiology. Minor: Neuropsychiatry. Thesis: Modification of Cortically Induced Motor Activity in the Foreleg by Proprioceptive Facilitation.

Veikko J. Jokela, Angora

B.M.E. with distinction '43, University of Minnesota. Field of Concentration: Mathematics.

Chun-Lin Ke, Liyang, Kiangsu, China

B.S. '29, National Tsing Hua University. Major: Physical Chemistry. Minor: Chemical Engineering. Thesis: The Quenching of Fluorescence of Chlorophyll A by Added Substances.

Chandrakant Narayan Kelkar, Nagpur,

C.P., India

Graduate '35, Bombay Veterinary College; graduate '39, Indian Dairy Research Institute. Major: Dairy Husbandry. Minors: Agricultural Economics and Agronomy. Thesis: Importance of Hay Equality as Indicated by Feeding Trials with Identical Twin Dairy Heifers.

Edward King Lander, Minneapolis

B.A. with honors '43, University of North Dakota. Major: Speech Pathology. Minor: Child Welfare. Thesis: An Exploratory Study of Some Effects of Therapy on Adult Stutterers.

Jean Harmon Langenheim, Tulsa,

Okl.

B.S. '46, University of Tulsa. Major: Botany. Minor: Geology. Thesis: Physiography and Plant Ecology of a Subalpine Earthflow, Gunnison County, Colorado.

Laurence Roelif Laughlin, Denver,

Colo.

B.S. '47, University of Minnesota. Field of Concentration: Dairy Husbandry.

Janet Deutsch Leaf, Minneapolis

B.A. *magna cum laude* '46, University of Minnesota. Field of Concentration: Plant Genetics.

Clarke Rundall Lewis, Ottawa, Ont.,  
Canada

B.A. '43, University of Western Ontario. Field of Concentration: Geology.

Truman Saul Licht, New Britain,

Conn.

B.S. '43, Harvard College. Field of Concentration: Analytical Chemistry.

Edward Bernard Liebe, St. Paul

B.S. '38, College of St. Thomas. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Chemical Determination and Biological Evaluation of Tocopherols and Related Compounds.

LeRoy Harold Linder, Minneapolis

B.A. '39, B.S. '40, University of Minnesota. Field of Concentration: History of Science.

John Allen Lundin, St. Paul

B.S. '47, University of Minnesota. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: A Study of an Exchange Reaction between  $I_2$  and  $KIO_3$  with  $I^{131}$  as the Tracer Element.

Eugene Francis McCarty, International Falls

B.S. '44, University of Minnesota. Major: Forestry. Minor: Organic Chemistry. Thesis: A Study of the Factors Contributing to the Durability of Diamond Willow Heartwood.

Arline Doris Menk, St. Paul

B.S. '38, University of Minnesota. Major: Home Economics Education. Minor: Home Economics. Thesis: Teaching House Furnishings to Senior High School Girls as a Means of Developing Aesthetic Appreciation.

Howard Arthur Morris, St. Paul

B.S. '41, Utah State Agricultural College. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: The Relation of Surface Growth to the Ripening of Minnesota Blue Cheese.

Charles Glenn Mortimore, Harrow, Ont., Canada

B.S. '38, Ontario Agricultural College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: *Zea mays* Germination Reaction under Cold Test Conditions.

Donald Edwin Munnecke, St. Paul

B.S. '42, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: The Pathogenicity of Certain Haploid Monosporial Isolates of *Ustilago zeae* (Beckm.) Ung.

Cletus Frank Murphy, Waseca

B.S. '18, University of Minnesota. Field of Concentration: Animal Husbandry.

Syed Nezamuddin, Behar, India

B.S. '44, Agra University; M.S. '48, University of Minnesota. Field of Concentration: Horticulture.

Paul Bernard Olson, Tea, S.D.

B.A. magna cum laude '44, Augustana College, Sioux Falls, S.D. Field of Concentration: Analytical Chemistry.

Curtis J. Overdahl, Elk Point, S.D.

B.S. with distinction '47, University of Minnesota. Major: Soils. Minor: Agronomy. Thesis: Relation of Spacing and Hill Population to Yield of Field Corn and Sweet Corn under Near-Optimum Conditions of Fertility and Moisture.

Olga von Hartz Owens, Riderwood, Md.

B.A. '45, Bennington College. Major: Botany. Minor: Zoology. Thesis: Some Aspects of the Ecological Life Histories of *Impatiens biflora* Walt. and *Impatiens pallida* Nutt.

Sophy I. Parfin, Meriden, Conn.

B.S. '39, Wheaton College. Major: Entomology. Minor: Botany. Thesis: The Megaloptera and Neuroptera of Minnesota.

Elizabeth Jeanne Pinska, St. Paul

B.A. cum laude '47, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: The Effect of Environmental Temperature on the Growth of Newcastle's Virus in Embryonated Eggs.

Robert Henry Pinther, Duluth

B.Ch.E. '42, University of Minnesota. Field of Concentration: Public Health.

Gerald Faye Pirsig, Blue Earth

B.Phys. '44, University of Minnesota. Field of Concentration: Physics.

James Armstead Pollok, Invercargill, New Zealand

B.S. '47, University of New Zealand. Field of Concentration: Soils.

Charles Kelso Rawls, Jr., Fayetteville, Tenn.

B.S. '47, Utah State Agricultural College. Major: Economic Zoology. Minor: Botany. Thesis: An Investigation of the Life History of the White-winged Scoter (*Melanitta fusca deglandi*).

Everest Ernest Riccioni, Chisholm

B.Aero.E. '48, University of Minnesota. Field of Concentration: Mathematics and Mechanics.

Donald Robbins, Santa Fe, N.M.

B.S. '44, Texas Technological College. Field of Concentration: Physics.

Joan Leslie Ronder, Minneapolis

B.A. '47, Mount Holyoke College. Field of Concentration: Cancer Biology.

Frank Ross, Minneapolis

B.S. *summa cum laude* '47, Gustavus Adolphus College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Preparation of Alkylthioimidazoles.

Daniel Charles Schiavone, Minneapolis

B.M.E. with high distinction '43, University of Minnesota. Field of Concentration: Mathematics and Mechanics.

Richard Phil Shumway, Provo, Utah

B.S. '47, Utah State Agricultural College. Field of Concentration: Dairy Husbandry.

Robert Arthur Siem, Clark, S.D.

B.A. '46, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: A Study of the Host Cell/Virus Interaction under Altered Environmental Conditions.

Sister Eustace Duffy, Minneapolis

B.A. '37, B.S. '44, College of St. Catherine. Field of Concentration: Bacteriology.

Peter Arthur Robert Stewart, Minneapolis

B.Sc. '43, University of Manitoba. Field of Concentration: Physics.

William Robert Stratton, River Falls, Wis.

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

Francis Lloyd Stutzman, Minneapolis

B.S. '43, M.D. '46, University of Minnesota. Major: Physiology. Minor: Pathology. Thesis: The Availability of the Non-visceral Potassium of the Dog to Replace That Removed by Vivodialysis.

Harold Burdette Swanson, Minneapolis

B.A. *magna cum laude* '39, University of Minnesota. Field of Concentration: Agricultural Economics.

Howard William Thoele, St. Paul

B.S. with distinction '48, University of Minnesota. Field of Concentration: Dairy Husbandry.

John Julius Uppgren, White Bear Lake

B.M.E. '43, University of Minnesota. Major: Metallography. Minor: Industrial Engineering. Thesis: The Effect of Polishing Techniques on the Surface Flow of S.A.E. 1045 Steel.

Mohammed Abdul Wahid, Hyderabad (Deccan), India

B.S. '46, University of Madras. Major: Agronomy. Minor: Soils. Thesis: Behavior of the Progeny of Abnormal 2,4-Dichlorophenoxy-acetic Acid Treated Flax Plants.

Tseng-chuang Wang, Peiping, China

LL.B. '44, National Southwest Associated University. Field of Concentration: Agricultural Economics.

Harry Harrison Ward, St. Paul

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

Stephen Edward Wilmot, Rushford, N.Y.

B.S. '46, Cornell University. Field of Concentration: Agricultural Economics.

Ju-chi Wu, Wingshun, Kwangsi, China

B.S. '38, National Kwangsi University. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Combining Ability Studies of Related Inbred Lines of Corn.

Joseph Francis Wulfstange, Hamilton, Ohio

B.A. *magna cum laude* '35, Loyola University (Chicago, Ill.); M.A. '39, St. Louis University. Field of Concentration: Physics.

Shanker Lal Zargar, Nagpur, India

Graduate '38, Bombay Veterinary College. Major: Veterinary Medicine. Minor: Bacteriology. Thesis: The Role of Egg Propagated Virus Vaccines in the Spread of Newcastle Disease.

## Master of Science in Aeronautical Engineering

Andrew Edward Abramson, St. Paul

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

Kuang-chun Chou, Chengtu, China

B.S. in Aero.E. '43, The National Northwestern College of Engineering. Field of Concentration: Aeronautical Engineering.

Dan James Gareri, Bovey  
B.Aero.E. with distinction '47, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Cheng-Ting Hsu, Wenling, Chekiang, China

B.S. in Aero.E. '44, National Tsing Hua University. Field of Concentration: Aeronautical Engineering.

Robert O'Clock, Coleraine  
B.Aero.E. with high distinction '48, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Lee Conrad Paulson, Minneapolis  
B.Aero.E. '48, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Ernest Richard Poston, Hibbing  
B.Aero.E. '47, University of Minnesota. Field of Concentration: Aeronautical Engineering.

William F. Smith, Jr., Granite City, Ill.

B.Aero.E. '48, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Thomas Jefferson Wong, Minneapolis

B.Aero.E. '44, University of Minnesota. Field of Concentration: Aeronautical Engineering.

## Master of Science in Anesthesiology

Lowell Millard Brooks, Vermillion, S.D.

B.S. '41, University of South Dakota; M.D. '43, University of Louisville. Major: Anesthesiology. Minor: Physiology. Thesis: Studies on the Distribution and Fate of Pentothal Sodium Following Single Intravenous Injection.

Ellis Nahum Cohen, St. Paul

B.S. '41, M.D. '43, University of Minnesota. Major: Anesthesiology. Minor: Pharmacology. Thesis: Bronchodilation under Anesthesia with 1 (3, 4-Dihydroxyphenyl) 2 Isopropyl Aminoethanol Hydrochloride, a Comparative Study.

Roger William Ridley, Detroit, Mich.

B.A. '40, M.D. '43, University of Michigan. Major: Anesthesiology. Minor: Physiology. Thesis: Concentrations of Oxygen, Nitrous Oxide and Ether, and Their Correlation with Certain Physiologic Variables during Surgical Anesthesia in Man.

## Master of Science in Chemical Engineering

Ward Jay Gorney, Minneapolis  
B.Ch.E. '45, University of Minnesota. Major: Chemical Engineering. Minor: Mechanical Engineering. Thesis: Heat Transmission in a Round-bottom Kettle.

Robert Wayne MacDonald, Jefferson, Iowa

B.S. in Ch.E. with high distinction '47, State University of Iowa. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Study of Continuous Flow Reaction Systems.

## Master of Science in Civil Engineering

Marshall Lloyd Anderson, Minneapolis

B.C.E. '43, University of Minnesota. Field of Concentration: Civil Engineering.

Charles Edward Bowers, Hanna, Wyo.  
B.S. with honors '42, University of Wyoming. Major: Civil Engineering. Minor: Mathematics. Thesis: Model Study of a Sedimentation Basin.

Niradananda Das Gupta, Calcutta, India

B.E. in C.E. '30, Calcutta University. Major: Civil Engineering (Hydraulics). Minor: Civil Engineering (Highway Engineering). Thesis: An Experimental Study of a Model Sedimentation Basin.

Robert Bruce Johnson, Anoka

B.C.E. '43, University of Minnesota. Field of Concentration: Civil Engineering.

Robert William Johnson, Minneapolis

B.C.E. '44, University of Minnesota. Field of Concentration: Civil Engineering.

Alexander Petrovich Rodionov, Bozeman, Mont.

Graduate in Civil Engineering '29, Prague Polytechnical School. Major: Civil Engineering (Hydraulics). Minor: Civil Engineering (Structures). Thesis: A Review of Scour below a Spillway and Its Prevention.

Frank Iver Skog, Isle

B.C.E. '48, University of Minnesota. Field of Concentration: Civil Engineering.

Lyle Eugene Young, Minneapolis

B.C.E. '41, University of Minnesota. Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

Gerald Jacob Rose, Suffolk, Va.

B.S. '42, College of William and Mary; D.D.S. '45, University of Maryland. Major: Orthodontia. Minor: History of Science. Thesis: Quantitative and Radiographic Studies of the Development of the Jaws and Teeth.

## Master of Science in Dermatology and Syphilology

Harold George Hurst, Winnipeg, Manitoba, Canada

M.D. '41, University of Manitoba. Major: Dermatology and Syphilology. Minor: Pathology. Thesis: A Quantitative Histochemical Study of Esterase Activity in Normal Human Skin.

Laurence Joseph Underwood, Los Angeles, Calif.

B.A. '37, University of California; M.D. '42, University of Southern California. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: Squamous Cell Epitheliomas of the Skin which Simulate Sarcomas, Especially Fibrosarcomas: A Clinical and Histopathologic Study.

Bette Young Upshaw, Greenville, Tex.

B.A. '39, M.D. '42, University of Texas. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: Congenital Ectodermal and Mesodermal Dysplasias: A Clinical and Pathological Study.

George Theodore Wilson, St. Paul

B.S. '40, M.D. '42, University of Minnesota. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: The Cytology of Skin Smears.

## Master of Science in Electrical Engineering

Paul Archie Cartwright, Minneapolis

B.E.E. '37, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Study of Stabilization of the Commercial Electric Power Supply with Special Reference to Electrical Engineering Laboratory Use.

Woo Fong Chow, Shanghai, China

B.S. in E.E. '45, La Universitato Utopia. Major: Electrical Engineering. Minor: Mathematics. Thesis: Power System Faults Calculation.

Robert Lloyd Fillmore, Minneapolis

B.E.E. '46, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Theory of Phase Angle Relay Operation.

Robert Frank Lambert, St. Paul

B.E.E. with high distinction '48, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Attenuation in a Rectangular Tube of Transverse Acoustic Waves.



Paul Donald Senstad, Thief River Falls

B.E.E. with high distinction '45, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of a Method for the Stabilization of Centimeter-wave Oscillators.

John Ferdinand Storm, Minneapolis  
B.E.E. with distinction '41, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics and Mechanics. Thesis: A Computer for Solving Secular Equations.

## Master of Science in Mechanical Engineering

Robert Piper Atkinson, Newport News, Va.

B.M.E. '47, University of Minnesota. Major: Mechanical Engineering (Heating, Ventilating, and Air Conditioning). Minor: Mechanical Engineering (Industrial Engineering). Thesis: Characteristics of Heat Losses from a Concrete Floor Panel Laid on the Ground.

Arthur Richard Berg, Minneapolis

B.Aero.E. with distinction '43, University of Minnesota. Field of Concentration: Mechanical Engineering.

Roger William Honebrink, St. Paul

B.M.E. with high distinction '46, University of Minnesota. Field of Concentration: Mechanical Engineering.

Terrence John Kurtzweil, Stevens Point, Wis.

B.M.E. '44, Marquette University. Major: Mechanical Engineering. Minor: Metallurgy. Thesis: Effect of High Altitude on High Speed Diesel Performance.

John Thomas Reid, Atlantic City, N.J.

B.S. in M.E. '48, Massachusetts Institute of Technology. Field of Concentration: Mechanical Engineering.

George Joseph Svoboda, Hopkins

B.M.E. '43, University of Minnesota. Field of Concentration: Mechanical Engineering.

## Master of Science in Medicine

Ben Cooke Barnes, Rock Hill, S.C.

M.D. '38, University of Pennsylvania. Major: Medicine. Minor: Physiology. Thesis: Vitamin A Studies in Steatorrhea.

Charles Marvin Blackburn, Vinita, Okla.

B.A. '41, University of Oklahoma; M.D. '44, Duke University. Major: Medicine. Minor: Physiology. Thesis: A Study of Inhibitors of Gastric Secretion Occurring in Achlorhydric Gastric Juice and Gastric Mucin.

Hugh Sharp Brown, Rochester

B.A. '39, Carleton College; M.D. '43, Medical College of Virginia. Major: Medicine. Minor: Physiology. Thesis: A Clinical Study of the Effects of Tetraethyl Ammonium Chloride on Patients with Essential Hypertension.

Richard Corbin Cullen, Minneapolis

B.A. '36, M.D. '40, University of Nebraska. Major: Medicine. Minor: Hematology. Thesis: The Effect of Dicumarol on Capillary Permeability.

Francis Edmund Donoghue, Merrill, Wis.

B.S. '36, University of Notre Dame; M.D. '40, Columbia University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Aseptic Renal Infarction.

Joseph Emil Geraci, Newark, N.J.

M.D. '42, Marquette University. Major: Medicine. Minor: Physiology. Thesis: Adaptation of the Millikan Oximeter and the Use of a Modified Oximeter in Studies of Arterial Oxygen Saturation and Its Relation to Cyanosis in Pathological and Induced Hypoxemia.

Melvin Thomas Gorsuch, Oxford, Ohio

B.A. '36, Miami University; M.D. '41, University of Cincinnati. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Cushing's Syndrome: Clinical and Pathologic Investigation of Nine Verified Cases, and Review of the Literature on Ninety-one Additional Cases.

John Burgess Gross, Lakewood, Ohio  
B.A. '42, DePauw University; M.D. '45,  
Western Reserve University. Major: Medicine.  
Minor: Physiology. Thesis: A Study of Ab-  
normal Fecal Losses and of Nitrogen Balance  
in Cases of (a) Parenchymatous Hepatic Dis-  
ease and (b) Extrahepatic Biliary Obstruction,  
and of the Role of the Pancreas in Their  
Production.

Nicholas Carr Hightower, Jr., Tex-  
arkana, Tex.

B.S. '42, North Texas State Teachers College;  
M.D. '44, University of Texas. Major: Medi-  
cine. Minor: Pathologic Anatomy. Thesis: The  
Cause of Death in Patients with Calcereous  
Stenosis of the Aortic Valve, with Particular  
Reference to Sudden Death.

Edwin J. Jensen, Syracuse, N.Y.

B.A. '39, M.D. '43, Syracuse University.  
Major: Medicine. Minor: Pathology. Thesis:  
Renal Lesions Associated with Chronic Ulcera-  
tive Colitis.

Neal Richard Kirkpatrick, Madison,  
Wis.

B.A. '41, M.D. '43, University of Wisconsin.  
Major: Medicine. Minor: Pathologic Anatomy.  
Thesis: Dissecting Aneurysm of the Aorta.

Louis Levin, Hamilton, Ohio

B.A. '37, DePauw University; M.D. '41, Uni-  
versity of Cincinnati. Major: Medicine. Minor:  
Pathology. Thesis: Pulmonary Abscesses Sec-  
ondary to Bland Pulmonary Infarction.

Archibald Hodge Logan, Jr., Rochester  
B.A. '35, Washington and Jefferson College;  
M.D. '42, Rush Medical College. Major:  
Medicine. Minor: Pathologic Anatomy. Thesis:  
Hyaluronidase in Human Malignant Neo-  
plasms.

William Bradley Martin, Duluth

B.S. with distinction '39, M.D. '42, University  
of Minnesota. Major: Medicine. Minor:  
Pathology. Thesis: Experimental Production of  
Atrial Septal Defects in the Dog. Physiological  
Observation and Attempts at Closure of the  
Defects.

James Frederick Mezen, Buffalo, N.Y.  
M.D. '44, University of Buffalo. Major: Medi-  
cine. Minor: Pathologic Anatomy. Thesis: The  
Anatomic, Non-functional Patency (Probe  
Patency) of the Foramen Ovale Cordis up to  
the Age of Ten Years.

Melvin Duane Mills, West Decatur,  
Pa.

B.S. '37, Otterbein College; M.D. '41, Temple  
University. Major: Medicine. Minor: Pathologic  
Anatomy. Thesis: A Study of the Effect of  
Digitalis upon the Final Deflection (RS-T  
Segment and T Wave) of the Electrocardio-  
gram Characteristic of Left and Right Ven-  
tricular Hypertrophy.

George Edmond Montgomery, Jr.,  
Boone, Iowa

B.A. '38, B.S. '39, M.D. '42, University of  
Minnesota. Major: Medicine. Minor: Physi-  
ology. Thesis: A Critical Analysis of the Relia-  
bility of the Millikan Compensated Circuit  
Oximeter with Special Reference to Its Suita-  
bility for Physiologic and Clinical Studies.

James Gifford Myhre, Minneapolis

B.S. Med. '40, University of North Dakota;  
M.D. '42, Temple University. Major: Medi-  
cine. Minor: Pathology. Thesis: A Study of  
Serum Amylase and Serum Lipase: I. Follow-  
ing Stimulation by Morphine and Secretin. II.  
Following Stimulation by Mecholyl Chloride  
and Secretin. III. Following Administration of  
Alcohol. IV. Determination of Values in  
Patients with Infectious Mononucleosis.

Norbert Joseph Roberts, Buffalo, N.Y.

M.D. '40, University of Buffalo. Major: Medi-  
cine. Minor: Pathology. Thesis: Acute Pan-  
creatic Necrosis: A Clinico-pathologic Study.

Donald Eugene Smith, Salt Lake City,  
Utah

B.A. '40, University of Utah; M.D. '43, Wash-  
ington University. Major: Medicine. Minor:  
Pathologic Anatomy. Thesis: The Causes of  
Death in Hypertension.

Burton Roswell Stein, Oakfield, N.Y.

B.S. '40, University of Arizona; M.D. '44,  
University of Buffalo. Major: Medicine. Minor:  
Pathologic Anatomy. Thesis: The Relationship  
between the Degree and the Duration of  
Hypertension and the Degree of Cardiac Hyper-  
trophy.

John Edgar Stevens, Richmond, Va.

B.A. '37, University of Richmond; M.D. '41,  
Medical College of Virginia. Major: Medi-  
cine. Minor: Hematology. Thesis: Infectious  
Mononucleosis: a Review of the Literature, a  
Study of 210 Sporadic Cases, and the Prog-  
nostic Significance of the Leucocytes Observed  
in This Disease.

William Edward Watts, Chicago, Ill.  
B.S. '38, University of Washington; M.D. '42, Harvard University. Major: Medicine. Minor: Anatomy (Hematology). Thesis: Cytoplasmic Inclusions in Lymphocytes from Persons Treated with Radioactive Iodine.

William E. Wellman, Lake City  
B.S. '35, M.D. '40, University of Minnesota. Major: Medicine. Minor: Pathologic Anatomy. Thesis: A Study of the Size of the Thoracic Aorta in Relation to Age.

Don Ernest Woodard, Portland, Ore.  
B.A. '36, Columbia College; M.D. '41, University of Chicago. Major: Medicine. Minor: Pathologic Anatomy. Thesis: The Pathogenesis of jaundice in Cases of Cardiac Disease with Pulmonary Infarction.

## Master of Science in Neurology and Psychiatry

Wilford Armond Brooksby, Fredonia, Ariz.

B.S. '41, Brigham Young University; B.S. in Med. '42, M.D. '43, Northwestern University. Major: Neurology. Minor: Pathology. Thesis: The Myocardial Reticulocyte in Acute Infectious Processes of the Heart.

Francis Joseph Millen, Milwaukee, Wis.

B.S. '38, M.D. '42, Marquette University. Major: Neurology and Psychiatry. Minor: Pathology. Thesis: The Lateral Recesses of the Fourth Ventricle: Their Relation to Certain Gliomas of the Cerebello-Pontine Angle.

## Master of Science in Neurosurgery

Howard Renninger Erb, Swarthmore, Pa.

B.S. '36, Pennsylvania State College; M.D. '40, University of Pennsylvania. Major: Neurosurgery. Minor: Neuropathology. Thesis: Tumors of the Midbrain: A Clinico-Pathological Study.

Robert Wallace Forsythe, Lexington, Ky.

B.A. '37, University of Kentucky; M.D. '41, Tulane University. Major: Neurosurgery. Minor: Neuropathology. Thesis: Meningiomas in the Posterior Cranial Fossa.

Edward Martin Gates, Detroit, Mich.  
B.S. '38, M.D. '42, University of Michigan. Major: Neurosurgery. Minor: Neuropathology. Thesis: Metastatic Brain Abscesses.

James Rowland Gay, Richmond, Va.  
B.S. '35, Virginia Polytechnic Institute; M.D. '39, Johns Hopkins University. Major: Neurosurgery. Minor: Physiology. Thesis: Effect of Proprioception on the Cerebral Cortex of the Cat and Monkey.

Edward Jern Kiefer, Milwaukee, Wis.  
M.D. '41, Marquette University. Major: Neurosurgery. Minor: Neuropathology. Thesis: Metastatic Brain Tumors.

## Master of Science in Obstetrics and Gynecology

Willis Holder Jondahl, Ardmore, Okla.

B.S. '37, Oklahoma Agricultural and Mechanical College; M.D. '41, Tulane University. Major: Obstetrics and Gynecology. Minor: Surgical Pathology. Thesis: Brenner Tumor of the Ovary: A Clinico-Pathologic Study of Thirty-two Consecutive Cases.

## Master of Science in Ophthalmology

Roy Joseph Paine, Vancouver, B.C.,  
Canada

B.A. '36, University of British Columbia;  
M.D.C.M. '40, McGill University. Major:  
Ophthalmology. Minor: Pathology. Thesis: An  
Evaluation of the Effect of Diisopropyl  
Fluorophosphate in Glaucoma.

## Master of Science in Orthopedic Surgery

Cameron Smith Allen, Winnipeg,  
Man., Canada

M.D. '39, University of Manitoba. Major:  
Orthopedic Surgery. Minor: Surgical Pathology.  
Thesis: A Study of Cysts of the Lateral  
Meniscus of the Knee Joint.

Peter Bernard Golden, Iron Moun-  
tain, Mich.

B.S. '38, M.D. '40, University of Wisconsin.  
Major: Orthopedic Surgery. Minor: Surgical  
Pathology. Thesis: A Study of Exogenous  
Lipogranuloma Involving Parietal Tissue.

Joseph Francis Gross, Omaha, Neb.

B.S. '36, M.D. '38, Creighton University.  
Major: Orthopedic Surgery. Minor: Pathology.  
Thesis: Recurrent Congenital Talipes Equino-  
varus, Its Treatment by Medial Posterior Cap-  
sulotomies.

Douglas Twichell Lindsay, Minne-  
apolis

B.S. '43, B.S. cum laude '44, M.D. '45, Uni-  
versity of Minnesota. Major: Orthopedic Sur-  
gery. Minor: Pathology. Thesis: Control of  
Human Epiphyseal Growth.

Jack Paschall, Jr., Pasadena, Calif.

B.A. '40, M.D. '43, University of Southern  
California. Major: Orthopedic Surgery. Minor:  
Surgical Pathology. Thesis: Fractures of the  
Patella: A Clinico-Pathologic Study.

Jackson Ewell Upshaw, San Antonio,  
Tex.

B.A. '38, M.D. '42, University of Texas.  
Major: Orthopedic Surgery. Minor: Surgical  
Pathology. Thesis: Bone Marrow Extension of  
Primary Neoplasms of Bone.

## Master of Science in Otolaryngology and Rhinology

Charles Bagley Porter, Baltimore,  
Md.

B.A. '35, M.D. '39, Johns Hopkins University.  
Major: Otolaryngology and Rhinology. Minor:  
Surgical Pathology. Thesis: Healing of Wounds  
Experimentally Induced in the Lungs of Cer-  
tain Mammals.

## Master of Science in Pathology

James Daniel Barger, Linton, N.D.

B.A. '37, B.S. '39, University of North  
Dakota; M.D. '41, University of Pennsylvania.  
Major: Pathology. Minor: Clinical Pathology.  
Thesis: Variations in the Alkaline Phosphatase  
Activity of the Endometrial Glands of the  
Human during the Menstrual Cycle.

Donald Shonk Morris, Kayford,  
W.Va.

B.A. '37, West Virginia University; M.D. '41,  
Medical College of Virginia. Major: Pathology.  
Minor: Clinical Pathology. Thesis: Study of  
Intra-ocular Transplantation of Heterologous  
Tissues.

## Master of Science in Pediatrics

Nancy Burfoot King, Richmond, Va.  
B.S. '38, M.D. '45, Medical College of Virginia. Major: Pediatrics. Minor: Physiology. Thesis: Corticosteroids in the Urine of Children.

## Master of Science in Physical Medicine

Ursula Maria Leden, Chicago, Ill.  
B.A. '41, College of New Rochelle; M.D. '44, Loyola University. Major: Physical Medicine. Minor: Physiology. Thesis: Preliminary Studies on the Heating and Circulatory Effects of Microwaves.

Ralph Edwin Worden, Alliance, Neb.  
B.S. '42, M.D. '44, University of Nebraska. Major: Physical Medicine. Minor: Physiology. Thesis: The Heating Effects of Microwaves with and without Artificial Ischemia.

## Master of Science in Plastic Surgery

John Kolben Grotting, Minneapolis  
B.A. '37, Macalester College; M.D. '42, University of Minnesota. Major: Plastic Surgery. Minor: Surgical Pathology. Thesis: Actinomycosis of the Head and Neck: A Clinical and Pathological Study.

## Master of Science in Proctology

William Horn Ramsey II, Bryn Mawr, Pa.  
B.A. '37, Duke University; M.D. '41, Temple University. Major: Proctology. Minor: Surgical Pathology. Thesis: Carcinoids of the Colon and Rectum: A Clinico-Pathological Study.

## Master of Science in Radiology

Joseph Stewart Summers, Jr., Jefferson City, Mo.  
B.A. '37, B.S. in Med. '38, University of Missouri; M.D. '40, Washington University. Major: Radiology. Minor: Pathology. Thesis: Multiple Primary Malignancy in Hospital Admissions at the University of Minnesota Hospitals.

## Master of Science in Surgery

Oliver Howard Behrs, Pomona, Calif.  
B.A. '37, University of California; M.D. '42, Northwestern University. Major: Surgery. Minor: Surgical Pathology. Thesis: Chylous Cysts of the Abdomen.

Schuyler Pillsbury Brown, Minneapolis  
B.S. with distinction '39, M.D. '41, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Techniques for the Fabrication of Plastic Body Spicas.

John Max Busard, Muskegon, Mich.  
B.A. '40, M.D. '43, University of Michigan.  
Major: Surgery. Minor: Surgical Pathology.  
Thesis: A Comparative Study of Malignant  
Gastric Ulcers, Having a Prolonged Peptic  
Ulcer-like History and Featuring a Diminishing  
Effectiveness of Alkaline Therapy, with Benign  
Ulcers, Presenting a Similar Clinical Back-  
ground.

Bernard Tetlow Daniels, Yankton,  
S.D.

B.A. '35, Yankton College; B.S. '37, University  
of South Dakota; M.D. '39, Rush Medical  
College. Major: Surgery. Minor: Surgical  
Pathology. Thesis: Rectovaginal Fistula: A  
Clinical and Pathological Study.

Donald David Davis, Salt Lake City,  
Utah

B.S. '30, M.D. '33, New York University.  
Major: Surgery. Minor: Pathology. Thesis: An  
Analysis of the Effect of Atropine-like and  
Smooth Muscle Depressant Drugs on the  
Evacuation of the Human Gall Bladder.

William Vincent Glenn, Falls City,  
Neb.

M.D. '40, University of Nebraska. Major: Sur-  
gery. Minor: Surgical Pathology. Thesis: Burns:  
A Clinical-Pathological Study.

Samuel Hartley Haigler, Austin, Tex.  
M.D. '37, Tulane University. Major: Surgery.  
Minor: Surgical Pathology. Thesis: Carcinoma  
of the Penis.

Benjamin Hardy Johnson, Jr.,  
Bessemer, Ala.

B.S. '36, Alabama Polytechnic Institute; M.D.  
'40, Northwestern University. Major: Sur-  
gery. Minor: Surgical Pathology. Thesis: The  
Concentration of Radioactive Iodine in  
Adenomatous Goiter and Thyroid Carcinoma  
Following Its Oral Administration.

Clark Mackenzie Marshall, Minne-  
apolis

B.S. '43, M.D. '45, University of Minnesota.  
Major: Surgery. Minor: Pathology. Thesis: A  
Clinical Evaluation of Vagotomy in the Treat-  
ment of Peptic Ulcer.

Lowell John Peterson, Minneapolis  
B.A. '33, M.D. '38, University of Minnesota.  
Major: Surgery. Minor: Physiology. Thesis:  
Bronchospirometric Studies in Pulmonary  
Decortication.

James Del Rogers, Joliet, Ill.

B.S. '37, M.D. '42, Northwestern University.  
Major: Surgery. Minor: Surgical Pathology.  
Thesis: Differential Vital Staining of Nerve  
and Tendon.

Stanley Joseph Shanoski, Minneapolis  
B.S. with distinction '39, M.D. '43, Wayne  
University. Major: Surgery. Minor: Pathology.  
Thesis: The Motor Activity of the Human  
Gallbladder as Influenced by Methadon and  
Demerol.

John Gardiner Shellito, Independence,  
Iowa

B.S. '38, M.D. '43, Northwestern University.  
Major: Surgery. Minor: Surgical Pathology.  
Thesis: Cartilaginous Tumors of the Hand.

Abbott Skinner, St. Paul

B.A. '38, Carleton College; M.D. '42, Harvard  
Medical School. Major: Surgery. Minor:  
Pathology. Thesis: Perforated Peptic Ulcer.

Donald Edward Stewart, St. Paul

B.S. '35, M.D. '38, University of Minnesota.  
Major: Surgery. Minor: Pathology. Thesis:  
Malignant Melanomas: A Review of Ninety-  
two Cases Treated at the University of Min-  
nesota Hospitals from January 1, 1932 to  
January 1, 1949.

Thomas C. Wilder, Rochester

M.D. '41, University of Maryland. Major:  
Surgery. Minor: Surgical Pathology. Thesis:  
Obstructing Carcinoma of the Right Colon.

Russell Ross Williams, Jr., Columbus,  
Ohio

B.A. '40, M.D. '43, Ohio State University.  
Major: Surgery. Minor: Surgical Pathology.  
Thesis: Gynecomastia.

## Master of Science in Urology

Richard Nelson Boylan, Riverside,  
Calif.

B.S. '40, M.D. '40, Northwestern University.  
Major: Urology. Minor: Surgical Pathology.  
Thesis: Epithelial Neoplasms Arising in  
Diverticula of the Urinary Bladder.

William Hayner Browning, Olathe,  
Kan.

B.A. '37, William Jewell College; M.D. '43,  
University of Kansas. Major: Urology. Minor:  
Surgical Pathology. Thesis: A Study of the  
Histologic Findings of Prostatic Capsular  
Tissue in Relation to Blood Loss through  
Transurethral Resection.

Bell Marvin Harvard, Jr., Hammond,  
La.  
B.S. '35, M.D. '39, Tulane University. Major:  
Urology. Minor: Surgical Pathology. Thesis:  
Congenital Exstrophy of the Urinary Bladder:  
Late Results of Treatment by the Coffey-Mayo  
Method of Uretero-intestinal Anastomosis.

Herbert Bowman Henkel, Jr., Spring-  
field, Ill.  
B.S. '41, Northwestern University; M.D. '44,  
St. Louis University. Major: Urology. Minor:  
Surgical Pathology. Thesis: The Production  
of Mucus by the Epithelium of the Urinary  
Bladder.

James Howard Hoskins, Des Moines,  
Iowa  
B.S. '21, M.D. '24, University of Illinois.  
Major: Urology. Minor: Pathology. Thesis:  
Neurogenic Vesical Dysfunction: Treatment by  
Transurethral Resection of the Vesical Neck.

## Master of Social Work

Doris Wentworth Burgh, Chicago, Ill.  
B.A. '47, University of Minnesota. Field of  
Concentration: Social Work.

Robert Eugene Emerson, St. Paul  
B.A. *cum laude* '47, University of Minnesota.  
Field of Concentration: Social Work.

Jerome Kaplan, Minneapolis  
B.B.A. '44, M.A. '47, University of Minne-  
sota. Field of Concentration: Social Work.

Burton F. Oster, St. Peter  
B.B.A. '31, University of Minnesota. Field of  
Concentration: Social Work.

Patricia Kidd Selmanoff, Minneapolis  
B.A. '47, Hamline University. Field of Con-  
centration: Social Work.

Janet Christine Westerman, Rock-  
ford, Ill.  
B.A. *magna cum laude* '47, University of Min-  
nesota. Field of Concentration: Social Work.

Irene Holth Williams, Minneapolis  
B.A. *summa cum laude* '36, Hamline Univer-  
sity. Field of Concentration: Social Work.

## Doctor of Philosophy

Mir Ahmad Ali Khan Anwar,  
Hyderabad, India  
B.Sc. '41, Osmania University. Major: Plant  
Pathology. Minor: Plant Genetics. Thesis:  
Factors Affecting the Survival of *Helmintho-  
sporium sativum* and *Fusarium lini* in Soil.  
Major Advisers: Profs. E. C. Stakman and  
J. J. Christensen.

Howard Lloyd Bachrach, Faribault  
B.A. *cum laude* '42, University of Minnesota.  
Major: Agricultural Biochemistry. Minor: Or-  
ganic Chemistry. Thesis: Physico- and Immuno-  
Chemical Studies of the Hog Cholera Virus.  
Major Adviser: Prof. D. R. Briggs.

Raymond Rudolf Beneke, Laurens,  
Iowa  
B.S. '40, M.S. '46, Iowa State College. Major:  
Agricultural Economics. Minor: Economics.  
Thesis: Transfer of Farm Operatorship with  
Special Reference to the Problems of Begin-  
ning Operators and the Utilization of Farm  
Resources during the Establishment Phase.  
Major Adviser: Prof. G. A. Pond.

Rudolf Karl Bernard, Minneapolis  
B.S. '40, M.A. '41, Columbia University.  
Major: German. Minor: Spanish. Thesis: *Der  
Vater-Sohn-Konflikt in Modernen Deutschen  
Drama (1900-1920)*. Major Adviser: Prof.  
O. C. Burkhard.

Walter Calvin Coffey, Jr., St. Louis  
Park  
B.A. '36, Lawrence College; M.A. '39, Uni-  
versity of Minnesota. Major: Educational  
Psychology. Minor: Education. Thesis: Char-  
acteristics Determining Success in a Non-  
selling Position in the Distributive Trades.  
Major Advisers: Profs. D. G. Paterson and  
W. W. Cook.

Charles Eugene Cutts, St. Paul  
B.C.E. '36, M.S. in C.E. '39, University of  
Minnesota. Major: Civil Engineering. Minor:  
Mathematics and Mechanics. Thesis: Stress  
Analysis of Curved Box Beams Subjected to  
Lateral Loads Applied Perpendicular to the  
Plane of Curvature. Major Adviser: Prof.  
J. A. Wise.

Guy Francois Desgranges, Paris,  
France

Graduate '44, University of the Sorbonne.  
Major: French. Minor: Classics. Thesis: *Montaigne et la Politique*. Major Adviser: Prof. J. A. Fermaud.

Donald John deZeeuw, Lansing,  
Mich.

B.S. '33, Michigan State College; M.S. '40, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: *Minor Element Nutrition in Relation to Plant Disease*. Major Advisers: Profs. E. C. Stakman and Helen Hart.

Arthur Everett Dracy, St. Paul

B.S. '43, M.S. '46, University of Minnesota. Major: Dairy Husbandry. Minor: Physiology. Thesis: *Isolation of Ova from the Living Bovine*. Major Adviser: Prof. W. E. Petersen.

Robert Bryce Edwards, Kalamazoo,  
Mich.

B.S. '38, Michigan State College. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: *A New Test for the Standardization of Diphtheria Toxin and Antitoxin*. Major Adviser: Prof. H. O. Halvorson.

Frank Wilbur Fisk, Chicago, Ill.

B.S. '36, University of Illinois; M.S. '39, University of Minnesota. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: *Studies on the Digestive Enzymes in Certain Mosquitoes*. Major Adviser: Prof. A. G. Richards.

Harold Warman Fogle, Minneapolis

B.S. '40, M.S. '41, West Virginia University. Major: Horticulture. Minor: Plant Genetics. Thesis: *Inheritance of Fruit Weight and Earliness Components in a Cross between the Tomato Varieties Tiny Tim and Stemless Pennorange*. Major Adviser: Prof. T. R. Currence.

Abraham Franck, Brooklyn, N.Y.

B.A. with honors '39, M.A. '40, University of New Mexico. Major: Mathematics. Minor: Physics. Thesis: *On Analytic Functions of Bounded Type*. Major Adviser: Prof. S. E. Warschawski.

George David Freier, Minneapolis

B.S. '38, River Falls State Teachers College; M.A. '44, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: *The Experimental Determination of Cross Section Per Unit Solid Angle for the Scattering of Protons by Helium as a Function of Scattering Angle and Incident Proton Energy*. Major Adviser: Prof. J. H. Williams.

Verne Charles Fryklund, Jr., Minne-  
apolis

B.A. '44, M.S. '46, University of Minnesota. Major: Geology. Minors: Metallography and Anthropology. Thesis: *The Titanium Ore Deposits of Magnet Cove, Hot Spring Co., Arkansas*. Major Adviser: Prof. G. M. Schwartz.

Watson Bryan Fulks, Minneapolis

B.S. '40, Arkansas State Teachers College; M.A. '41, University of Arkansas. Major: Mathematics. Minor: Mechanics. Thesis: *On Integral Representations and Uniqueness of Solutions of the Heat Equation*. Major Adviser: Prof. S. E. Warschawski.

William Mansfield Hales, St. Cloud

B.A. with high honors '29, M.A. '31, University of Utah. Major: Psychology. Minor: Educational Psychology. Thesis: *The Relation of Muscular Work to Spontaneous Activity in the Rat*. Major Adviser: Prof. W. T. Heron.

William Frank Hall, Virginia

B.S. '40, Hamline University; M.A. '41, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: *A Study of the Relationship between Adjustment and Achievement in Sixth Grade Pupils*. Major Adviser: Prof. G. L. Bond.

Syed Fakhrul Hasan, Hyderabad,  
India

B.Sc. '45, Osmania University. Major: Plant Pathology. Minor: Botany. Thesis: *Root Rot of Oats in Relation to Varietal Improvement*. Major Adviser: Prof. E. C. Stakman.

Hattie Masuko Kawahara, St. Cloud,  
Mo.

B.A. '43, M.A. '45, Mount Holyoke College. Major: Political Science. Minor: History. Thesis: *Diplomatic Relations between the United States and Japan from 1931 to 1941*. Major Adviser: Prof. H. S. Quigley.

William Ralph Kehr, Blue Earth

B.S. with distinction '43, University of Minnesota; M.S. '47, Kansas State College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: *Studies of Inheritance in Crosses between Landhafer, Avena byzantina L. and Two Selections of A. sativa L.* Major Adviser: Prof. H. K. Hayes.

Aziz Dulah Khan, Moradabad, India

Diploma of Licentiate in Agriculture '29, Gov't Agricultural College (India); M.S. '47, University of Minnesota. Major: Soils. Minor: Agronomy. Thesis: *The Chemical Properties of Related Prairie Soils as Influenced by Differences in Surface Relief*. Major Advisers: Profs. C. O. Rost and P. R. McMiller.



Robert Albert Krieger, St. Paul  
B.S. '41, College of St. Thomas; M.S. '42, University of Minnesota. Major: Soils. Minor: Agricultural Biochemistry. Thesis: A Study of Several Minor Elements in Some Podzol Soils. Major Adviser: Prof. C. O. Rost.

Eugene Elias Lampi, Chisholm  
B.E.E. with distinction '40, M.S. '41, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Experimental Determination of the Total Scattering Cross Section of Neutrons by Carbon and Hydrogen. Major Adviser: Prof. J. H. Williams.

Bernard William Lindgren, Minneapolis

B.A. magna cum laude '43, M.A. '47, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: An Integral on the Space of Functions Which are Real and Continuous but Otherwise Unrestricted on the Unit Interval. Major Adviser: Prof. R. H. Cameron.

Maude Lucille Lindquist, Duluth

B.A. magna cum laude '26, Lawrence College; M.A. '27, Columbia University. Major: History. Minor: Sociology. Thesis: Efforts toward Lutheran Union in the United States to 1860. Major Adviser: Prof. G. M. Stephenson.

Walter Denten Loban, Evanston, Ill.

B.S. with distinction '33, University of Minnesota; M.A. '37, University of Chicago. Major: Education. Minor: English. Thesis: Adolescents of Varying Sensitivity and Their Responses to Literature Intended to Evoke Sympathy. Major Adviser: Prof. D. V. Smith.

William Querin Loegering, Long Prairie

B.S. with distinction '38, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Prevalence and Distribution of Physiologic Races of *Puccinia graminis tritici* in the United States from 1938 to 1947 as Affected by the Distribution of Wheat Varieties. Major Adviser: Prof. E. C. Stakman.

Donald Romagne Mason, Urbana, Ill.

B.S. with high honors '42, University of Illinois. Major: Chemical Engineering. Minor: Electrical Engineering. Thesis: Design Factors in Continuous Reaction Systems—Transients. Major Adviser: Prof. E. L. Piret.

George Joseph Mouly, Saskatoon, Sask., Canada

B.A. with distinction '45, B.Ed. '46, M.Ed. '47, University of Saskatchewan. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of the United States Employment Service General Aptitude Test Battery, B-1001 for Use on the Population of High School Seniors in the State of Minnesota. Major Advisers: Profs. P. O. Johnson and C. G. Wrenn.

Santosh Kumar Mukhopadhyay, Calcutta, India

B.S. '39, B.E. '44, University of Calcutta, M.S. in C.E. '48, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Methods of Determination of Load Distribution on a Beam from Measurements on Its Deflected Form. Major Adviser: Prof. Paul Andersen.

William Harrison Nebergall, Lewis-town, Ill.

B.E. '36, Western Illinois State Teachers College; M.S. '39, University of Illinois. Major: Inorganic Chemistry. Minor: Agricultural Biochemistry. Thesis: Steric Effects in Substituted Tricyclohexylgermanes and Tricyclohexylsilanes. Major Advisers: Profs. O. H. Johnson and M. C. Sneed.

Clemens Arvid Nelson, St. Paul

B.A. '41, M.S. '42, University of Minnesota. Major: Geology. Minors: Anthropology and Geology. Thesis: Cambrian Stratigraphy of the St. Croix Valley. Major Adviser: Prof. W. C. Bell.

Harry Page Nicholson, Savannah, Ga.

B.E. '37, St. Cloud State Teachers College; M.S. '41, University of Minnesota. Major: Entomology. Minor: Plant Pathology. Thesis: Simuliidae of Minnesota with Reference to Their Taxonomy and Biology. Major Adviser: Prof. C. E. Mickel.

John Bartlett Rowell, Saunderson, R.I.

B.S. '41, Rhode Island State College. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: The Pathogenicity of *Alternaria dauci f. solani*. Major Advisers: Profs. E. C. Stakman and C. J. Eide.

Gordon Arthur Sabine, Eugene, Ore.

B.A. '39, M.A. '41, University of Wisconsin. Major: Political Science. Minor: Journalism. Thesis: The Voting Pattern of the United States Congress, 1946 and 1947. Major Adviser: Prof. A. N. Christensen.

Waldemar Esi Sackston, Winnipeg, Man., Canada

B.S.A. '38, University of Manitoba; M.Sc. '40, McGill University. Major: Plant Pathology. Minor: Plant Physiology. Thesis: Studies on the Pasmio Disease of Flax. Major Advisers: Profs. E. C. Stakman and J. J. Christensen.

Charles Evan Sanborn, Mankato

B.Ch.E. '41, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Product Formation Rates in Heterogeneous Catalytic Processes. Major Adviser: Prof. E. L. Piret.

Margaret Houlton Schwert, Durham, N.C.

B.A. '40, Carleton College. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Some Chemical Studies on Insulin. Major Adviser: Prof. W. M. Sandstrom.

Thelma Sneed, Minneapolis

B.A. *cum laude* '34, B.S. '39, M.A. '36, University of Minnesota. Major: Bacteriology. Minor: Geology. Thesis: The Effect of the Variation of Media on the Synthesis of Fat by Some Bacteria. Major Adviser: Prof. H. O. Halvorson.

John Lloyd Spaulding, North Newton, Kan.

B.S. '36, Iowa State College; Ph.M. '38, University of Wisconsin. Major: Agricultural Economics. Minor: Economics. Thesis: Criteria for the Utilization of the Value Premise as an Analytical Device Examined with Special Reference to Certain Studies in Rural Land Economics. Major Adviser: Prof. O. B. Jess.

Yao-ting Sung, Yaan, Sikang, China  
B.A. '40, National Northwestern University. Major: Political Science. Minors: Economics and History. Thesis: Chinese-Tibetan Relations 1890-1947. Major Adviser: Prof. H. S. Quigley.

Carl Richard Youngdahl, Sioux Falls, S.D.

B.A. *magna cum laude* '37, Augustana College; M.A. '38, Fletcher School of Law and Diplomacy. Major: Economics. Minor: History. Thesis: The Structure of Interest Rates on Commercial Bank Loans, 1939-1948. Major Adviser: Prof. A. R. Upgren.

## Doctor of Philosophy in Surgery

Stanley Richard Frisen, Minneapolis  
B.A. '40, M.D. '43, University of Kansas. Major: Surgery. Minors: Physiology and Pathology. Thesis: The Genesis of Gastroduodenal Ulcer Following Burns: An Experimental Study. Major Adviser: Dr. O. H. Wangensteen.

David Hyder Watkins, Denver, Colo.  
B.A. '36, M.D. '41, University of Colorado; M.S. in Surgery '47, University of Minnesota. Major: Surgery. Minor: Surgical Pathology. Thesis: The Role of the Hidradenocyte (Sweat-gland Epithelium) in Diseases of the Female Breast. Major Adviser: Dr. Victor Johnson.

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### SUMMARY OF DEGREES CONFERRED BY THE UNIVERSITY DURING THE ACADEMIC YEAR 1948-49

Degrees conferred July, August, and December, 1948; March, 1949.....	3,516*
Degrees conferred this June commencement, 1949 (subject to completion of requirements) .....	3,797†
Total degrees conferred during 1948-49.....	7,313

\* Includes 69 conferred at Duluth.

† Includes 215 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, or light blue for Education. Orange denotes Technology; dark blue, Philosophy; purple, Law; green, Medicine; and pink, Music. Public Health is shown by salmon pink edging, Dentistry by lilac, Pharmacy by olive, and Commerce and Accounting by drab.

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

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

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

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

(In the order of 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, and Home Economics.....	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



# UNIVERSITY OF MINNESOTA

*July Commencement*

*1949*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, JULY 21

AT EIGHT O'CLOCK





## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Julius A. Schmahl, Treasurer

The Honorable Fred B. Snyder, Minneapolis  
First Vice President and Chairman

The Honorable Ray J. Quinlivan, St. Cloud  
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 George W. Lawson, St. Paul

The Honorable Albert J. Lobb, 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*

*The University of Minnesota: "FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED BY UNDERSTANDING, DEDICATED TO THE ADVANCEMENT OF LEARNING AND THE SEARCH FOR TRUTH, DEVOTED TO THE INSTRUCTION OF YOUTH AND THE WELFARE OF THE STATE"—this is your University.*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota will soon celebrate its one hundredth birthday. While nearing this milestone, as from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to actively participate in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded 94,305 degrees to its students who have completed the rigorous training demanded by the complexities and specialization of modern society.

In addition to the enormous task of giving collegiate instruction to some twenty-five 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, the Master Piano Series, the University Theatre, and of the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not because it is the second largest state university in the nation, but because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in their University is a dynamic, living thing and expresses itself in many ways. Contributions from them now make it possible for the great Mayo Memorial building and for the new Variety Club Heart Hospital to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made relatively small gifts to provide an endowed research professorship in heart diseases. Gifts to the Greater University Fund, each appropriately called "A Share in Greatness," now being made especially by alumni, are worthy of special mention.

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

## *Order of Events*

**THE ASSEMBLING OF THE AUDIENCE:** As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University of Minnesota from 7:00 to 7:30 p.m., they will hear the Flemish bells being played from Northrop Memorial Auditorium, Miss Betty Indihar, B.S. '48, carillonneur. Admission to the July commencement exercises in the Auditorium is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

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

Fugue in G Minor	- - - - -	Bach
Arioso	- - - - -	Bach
School of the Little Fauns	- - - - -	Pierne
Pavane from the Mother Goose Suite	- - - - -	Ravel
Intermezzo from the First Organ Symphony	- - - - -	Widor
Processional: Pièce Héroïque	- - - - -	Franck

**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: Professor Julius M. Nolte, Dean of the University Extension Division, Marshal; Dr. Tracy F. Tyler, Associate Professor of General Education and Assistant to the Dean of the Summer Session, Acting Marshal; The Reverend Wilbur D. Grose, Member, Minnesota Council of Religion and Adviser to Methodist Students, St. Paul Campus, University of Minnesota; Dr. Horace T. Morse, Dean of the General College; Dr. John G. Darley, Assistant Dean of the Graduate School; Dr. T. R. McConnell, Dean of the College of Science, Literature, and the Arts; Dr. Harold S. Diehl, Dean of the College of Medical Sciences; Dr. J. W. Buchta, Assistant Dean of the College of Science, Literature, and the Arts; Mr. Maynard E. Pirsig, Dean of the Law School; Dr. Malcolm M. Willey, Vice President, Academic Administration; Dr. Deane W. Malott, Chancellor of the University of Kansas; Dr. Lloyd H. Reyerson, Assistant Dean of the Institute of Technology; Dr. Earl B. Fischer, Head of the Department of Pharmacognosy; Dr. Henry Schmitz, Dean of the College of Agriculture, Forestry, and Home Economics; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. Wesley E. Peik, Dean of the College of Education; The Honorable J. Seneca Jones, Regent of the University of Minnesota; Mr. True E. Pettengill, Recorder; Mr. Roy A. Schuessler, Assistant Professor of Music; Dr. R. K. Gaumnitz, Assistant Dean of the School of Business Administration, Acting Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University ROTC and NROTC cadets, enters the Auditorium, the audience will rise and remain standing.

## Order of Events

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

INVOCATION: The Reverend Wilbur D. Grose, S.T.M., Member, Minnesota Council of Religion and Adviser to Methodist Students, St. Paul Campus, University of Minnesota.

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

COMMENCEMENT ADDRESS: "The World on Your Doorstep," Chancellor Deane W. Malott, LL.D., Chancellor of the University of Kansas, Lawrence, Kansas.

CONFERRING OF DEGREES: Dean Julius M. Nolte, Marshal, will introduce the several deans or their representatives who will present the candidates for the degrees in their respective colleges. These, in order of their introduction, are: Dean Horace T. Morse, Ph.D., General College; Dean T. R. McConnell, Ph.D., College of Science, Literature, and the Arts; Assistant Dean J. W. Buchta, Ph.D., University College; Assistant Dean Lloyd H. Reyerson, Ph.D., for Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Henry Schmitz, Ph.D., College of Agriculture, Forestry, and Home Economics; Dean Wesley E. Peik, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Professor Earl B. Fischer, Ph.D., for Dean C. H. Rogers, Sc.D., College of Pharmacy; Dean Maynard E. Pirsig, LL.B., Law School; Dean Harold S. Diehl, M.D., College of Medical Sciences; Assistant Dean John G. Darley, Ph.D., for Dean T. C. Blegen, Ph.D., Graduate School. All degrees will be conferred by Vice President Malcolm M. Willey, Ph.D., Vice President, Academic Administration. Immediately afterwards, certificates and diplomas will be presented by each dean to the graduates of his college.

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

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

Minnesota, hail to thee!  
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,  
As thy call they throng  
With their shout and song,  
Hailing thee their Northern Star.

RECESSIONAL: Mr. Arthur B. Jennings.

Finale from the First Symphony - - - - - Vierne

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



# *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

Rose Marie Bowman, Minneapolis	Joan Churcher Leach, Minneapolis
Andrew Albert Chandler, St. Paul	Bruce Linville McKenzie, Jr., St. Paul
George Bernard Drost, Jr., St. Paul	Mary Kathleen Ryan, Minneapolis
Barbara Jane Freeman, Hopkins	Patrick Woodward Scott, Minneapolis
William James Goetzfried, Minneapolis	Janet Marie Spolum, Minneapolis
AnneMarie Haberl, Minneapolis	Dorothy Ann Sundin, Minneapolis
Carmelita Anne Haberl, Minneapolis	Patricia Ann Thompson, Minneapolis
Richard Ernest Johnson, Minneapolis	Richard George Verket, St. Paul
	Charles Edgar Weist, St. Paul

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Fred Charles Austin, Owatonna	Gerald Hyman Rosenblum, St. Paul
Louella Harris Balcziaik, Appomattox, Va.	Sherwin Don Schwartzbach, Minneapolis
Leone Edith Brown, Staples	William Paul Scott, St. Paul
Marjorie Conroy Hoffman, St. Paul	Elaine Jensen Summerfield, Minneapolis
Sally Ann Jackson, Minneapolis	Dolores Marie Vosika, Minneapolis
Bernard Ratner, Minneapolis	
Michael Hugh Roberts, Minneapolis	

### Bachelor of Arts

Norman James Ackerberg, Minneapolis	Burton Little Benson, Albert Lea
Neil Herman Anderson, Minneapolis	Herman Duane Bentz, Grand Rapids,
Richard Robert Anderson, Hibbing	MAGNA CUM LAUDE
Jason Allen Aronson, Little Falls	William Alexander Burrows, Minneapolis
Walter William Ashauer, Glencoe	Sherman Bradford Child, Minneapolis
Thomas Roger Bainbridge, Minneapolis	Paul Vernon Cumiskey, B.S. in Ed.,
Allan Lee Baron, Pine City	Mankato
Richard Fessenden Beery, Virginia	Robert Dimick Curtis, Minneapolis
May Mattie Benjamin, Hutchinson	Robert John Dawson, LaCrosse, Wis.
	Donald William Deering, Morris

James Frederic Dietz, Minneapolis  
Robert English Doan, Duluth, MAGNA  
CUM LAUDE

Betty Louise Dodsworth, Minneapolis,  
CUM LAUDE

Robert J. Eliseuson, St. Paul, CUM  
LAUDE

Charles Roger Emerson, Elmore  
James John Brinda, Minneapolis  
Peggy Irene Erickson, Grand Rapids

Huber Fifer Everett, Jr., Minneapolis  
Herbert George Fischer, Minneapolis

Madeline Ann Fleming, Minneapolis  
Ruth Swanhild Froiland, Dawson

Lester John Gilbert, Jr., St. Paul  
Thomas Arnold Good, Minneapolis,  
CUM LAUDE

Cecil Troyte Griffith, St. Paul  
Walter Thomas Gusek, Minneapolis

Herbert Martinus Hanson, Jr., Browns  
Valley

John Edward Hanson, Mankato  
Arthur Claude Harris, Minneapolis

Eugene William Haywa, Minneapolis,  
MAGNA CUM LAUDE

John Jacob Heimark, B.S., Fairmont  
Clarence Harold Helland, Bricelyn

Robert James Hendershott, Hopkins  
Janice Wade Heron, Minneapolis

Leland Hong, St. Paul  
Robert Louis Horen, Kenyon

John Gerard Hubbell, Minneapolis  
Robert Edward Hullsiek, Excelsior

Harvey Oliver Hultquist, Minneapolis  
Lillian Maude Huser, Minneapolis

John Ringgold Ingmundson, Minne-  
apolis

Adolph John Jantos, St. Paul  
William Dolman Kendall, Davenport,  
Iowa

Donald Robinson Kirby, Jr., Duluth  
Virginia Mary Kletzin, Minneapolis

Lawrence Helmer Larson, Chicago, Ill.  
Irving Linden, St. Paul

Mark Boyd Listerud, Wolf Point,  
Mont., MAGNA CUM LAUDE

Arthur Gene Litman, Minneapolis  
Anne Logar, Keewatin

Harold George Lundegard, Jr., Min-  
neapolis

Robert Edgar Mabry, St. Paul

Paul Victor Malmberg, Fertile  
Maxine Ann Mandt, Minneapolis  
Richard Louis Mathot, Pittsburgh, Pa.

Kenneth Dale Mattsson, Minneapolis  
John Timothy McBride, New York,  
N. Y., CUM LAUDE

Roger James McInerney, Minneapolis  
Donald Abbott Miller, B.S., St. Paul

Edgar Andrew Mulhollam, Spring  
Valley, Wis.

Robert Joseph Mullen, St. Paul  
Rayburn N. Munson, Minneapolis

Kenneth Herbert Neldner, Lewiston  
Jack Lee Nixon, Corpus Christi, Texas

Marilyn Elaine Norbeck, Minneapolis  
Dwain Marvin Olson, Minneapolis

Warren Edward Olson, St. Paul  
Irving Louis Papermaster, St. Paul

Robert Alexander Pappas, Minne-  
apolis

William Sanders Peck, St. Louis Park  
Max Earl Perlman, St. Paul

Shirley Ann Perlmutter, Denver, Colo.  
Roy Willard Peterson, Osseo

Donald Joseph Pusch, Morgan  
Warren Ernest Ramsey, South St.  
Paul

John Clarence Ranseen, Minneapolis  
Ralph Reuben Rayner, Des Moines,  
Iowa, CUM LAUDE

Arthur Eugene Richards, Anoka  
Gordon Arthur Robinson, A.A.,  
Minneapolis

Walter Harold Rommel, St. Paul  
Robert Harris Rosenberg, Minneapolis

Gene Harold Rosenblum, St. Paul  
Richard Falk Sachs, A.L.A., Minne-  
apolis, CUM LAUDE

Philip Fred Schmidt, Minneapolis  
Lyle Merton Schrader, St. Paul

John Harris Schwab, St. Cloud  
Daniel Phillip Schwartz, Minneapolis,  
CUM LAUDE

Roderic Shearer, Minneapolis  
Robert I. Shragg, Minneapolis

Robert Emmett Smith, St. Paul  
Vernon Lyle Sommerdorf, St. Paul

Norman Detlav Sorensen, Minneapolis  
Eugene Edward Stokowski, Minne-  
apolis

Lynn Donald Swanson, Minneapolis

Robert Eugene Swanson, Minneapolis,  
CUM LAUDE  
Carl Johan Swendseen, Minneapolis  
Jerome Hunter Swenson, Moorhead  
Ayao George Tanbara, B.S. in Pharm.,  
Minneapolis  
Frank Walter Thompson, St. Paul  
George Darrel Toor, Proctor  
James Patrick Trainor, Jr., Minne-  
apolis

Mary Alice Wakefield, Austin  
Robert Lea Waller, St. Paul  
Richard John Wheeler, St. Paul  
J. K. Widmer, Minneapolis, MAGNA  
CUM LAUDE  
John William Wiersma, Grundy  
Center, Iowa  
Richard Stanton Worthley, Iowa City,  
Iowa

## Bachelor of Science

Alice Bethana Bails, B.A., Rockford, Ill.

## Bachelor of Science in Library Science

Roger Francis Dettle, B.Soc.Sci.,  
Winona

Alice Helen Mackey, B.A., St. Paul  
Mary Williams, B.A., Minneapolis

## UNIVERSITY COLLEGE

### Bachelor of Arts

Douglas Philip Hunt, Jr., Litchfield

## INSTITUTE OF TECHNOLOGY

### Bachelor of Chemical Engineering

Edward Frank Golob, Ely  
Theodore August Haas, Lidgerwood,  
N.D., WITH DISTINCTION  
William Roger Kochevar, Buhl

William Anton Oswald, Eveleth  
Paul Engen Thorson, Decorah, Iowa  
Jerome Ralph Wiley, St. Paul

### Bachelor of Chemistry

John Milton Hulme, Minneapolis

### Bachelor of Electrical Engineering

Glenn Edwin Burges, St. Paul  
Elgin George Enabnit, Jr., Osage,  
Iowa  
Charles Richard Luther, Waseca

John Joseph McSwiggen, Jr., Duluth  
Douglas Harold Peterson, Coleraine  
Aage Christian Stordal, St. Paul  
Boyd Francis Will, Doran

### Bachelor of Mechanical Engineering

Richard John Beckel, Austin  
Paul Gerhard Boening, Faribault  
John Malcolm Busch, Minneapolis

William Norman Edberg, Minne-  
apolis  
Robert Matthews Gold, Minneapolis,  
WITH DISTINCTION

Jack A. Huna, St. Paul  
 Wilfred Theodore Johnson, Jr., St. Paul  
 William John Krussow, Minneapolis  
 Robert Charles Larson, Duluth  
 Wallace George Pehrson, Minneapolis  
 Robert Frederick Rasmussen, Minneapolis  
 Alfred Israel Schekman, St. Paul

Frank Clarence Schultz, Brainerd,  
 WITH HIGH DISTINCTION  
 Marvin Frederick Siegfried, Delhi  
 Lawrence Elmer Tilbury, White Bear Lake  
 Oliver Kemp Washburn, White Bear Lake, WITH HIGH DISTINCTION  
 Richard Thomas Webster, Minneapolis

## Bachelor of Metallurgical Engineering

Gordon Cummings Pfaff, St. Paul

## Bachelor of Physics

Gerard William Elverum, Jr.,  
 Minneapolis

Keeva Vozoff, Minneapolis

# COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

## Bachelor of Science

Marjorie C. Anderson, Aurora, Home Economics  
 Kenneth Walter Garwick, Minneapolis, Agriculture  
 Olaf Clarence Grette, Minneapolis, Forestry  
 Donald Wayne Grimm, Rochester, Forestry  
 Georgiana Hedenberg, A.A., Duluth, Home Economics  
 Joyce Darlene Hjort, South St. Paul, Home Economics, WITH HIGH DISTINCTION  
 Kenneth Alfred Johnson, Minneapolis, Agriculture  
 Loyd M. LaMois, Akeley, Forestry  
 Charlotte Anne Layne, Fargo, N.D., Home Economics  
 Ardelle Janice Lofquist, Duluth, Home Economics, WITH DISTINCTION  
 John Donald Meyer, Princeton, Forestry, WITH DISTINCTION  
 Ralph Emil Nelson, Little Falls, Agriculture, WITH DISTINCTION

Stanley Martin Novlan, Elcor, Agriculture  
 Gen Ogata, Helena, Mont., Agriculture  
 Nancy E. Olmsted, Little Falls, Home Economics  
 Stanley Erwin Olson, International Falls, Forestry  
 Marilyn Remsberg, St. Paul, Home Economics, WITH DISTINCTION  
 Peter Alfred Reuter, International Falls, Agriculture, WITH DISTINCTION  
 Sally Ann Sparks, Minneapolis, Home Economics  
 Kermit Jerome Stenerson, Georgeville, Agriculture  
 Donald Martin Tingdale, B.B.A., Minneapolis, Science Specialization  
 Barbara Jean Umbarger, Lake Park, Iowa, Home Economics, WITH DISTINCTION  
 Kenneth Elmer Winsness, Minneapolis, Forestry, WITH DISTINCTION

## Master of Forestry

William Perry Wheeler, B.S., Deerwood

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

#### Bachelor of Science

Lowell Alvin Doebbert, Marietta,  
Agricultural Education

Joyce Marie Ellig, Aitkin, Home Economics Education

Avison Wendell Francis, Rochester,  
Agricultural Education

Phyllis Joyce Hanson, Little Falls,  
Home Economics Education, WITH  
DISTINCTION

Donna May Howard, Minneapolis,  
Home Economics Education

Julia A. Kristenson, Motley, Home Economics Education

Harold Andrew Nelson, Little Falls,  
Agricultural Education

Joyce Elaine Parten, Welch, Home Economics Education

Einard Waisanen, Moose Lake, Agricultural Education

Hugh Thomas Walker, Wykoff, Agricultural Education

Edward Zeleznikar, Aurora, Agricultural Education

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

#### Bachelor of Agricultural Business Administration

Donald Esten Rye, Minneota

### COLLEGE OF EDUCATION

#### Bachelor of Science

Shirley Elaine Anderson, Monticello

Anne Marie Bartlett, Stillwater

Werner Bauer, A.A., Minneapolis

Rex Thaddeus Beach, A.A., B.A.,  
Stillwater

Charles Harlow Bell, Jr., Minneapolis,  
WITH DISTINCTION

Olive Berge, Minneapolis

Paul Gust Carlson, Minneapolis

Edith Laughlin Carroll, Minneapolis

Allen Silver Cuthbert, A.A., Minneapolis,  
WITH DISTINCTION

Keith Dawson, Minneapolis

Ruth Agnes Dunsmore, St. Paul, WITH  
DISTINCTION

Colleen Lois Durham, Minneapolis

Waldo Lawrence Ekstrand, Minneapolis

Robert Francis Estelle, Stillwater,  
WITH DISTINCTION

David Henry Farmer, A.L.A., Brentwood, Calif.

Sherwood Marshall Fries, St. Paul

*Norma Jane Gilbertson, Marshall,*  
WITH DISTINCTION

*Melvin Maurice Grimstad, A.A.,*  
Minneapolis

*Dwight Warren Gunberg, Minne-*  
apolis

*Charles Hackman, St. Paul*

*Gertrude Marie Halvorson, Warren*  
*James Howard Hedren, Minneapolis*

*Thelma Viola Hemmes, Humboldt*

*Evelyn Josephine Iekel, Swanville*

*Audrey Johnson, Minneapolis, WITH*  
DISTINCTION

*Donald Eric Johnson, Minneapolis*

*Helen Elizabeth Johnson, G.N., St.*  
Paul\*

*Jennings Oliver Johnson, Minneapolis*

*Edmund Sewall Jones, B.A., Minne-*  
apolis

*Gloria Marie Kass, St. Paul*

*Helen Kerner, Bayport\**

*Paul Martin Krause, St. Paul, WITH*  
DISTINCTION

*Helen Pratt Kronstedt, Minneapolis*

*Clayton Elwood LaCore, Minneapolis*

*Ruth Martha Lidgerding, Minne-*  
apolis

*John Miles Lundahl, Hopkins, WITH*  
HIGH DISTINCTION

*Jean Ardith McAllister, Laporte*

*William Riley McGee, St. Paul*

*Charlotte Anne Miller, Crookston*

*Pauline Marie Engmark Miller,*  
Kalkaska, Mich.

*Leonharda Allison Milton, St. Paul*

*Lois Howard Mitzel, B.A., St. Paul*

*Esther L. Murphy, St. Paul*

*Myrtle E. Myrin, Thief River Falls*

*Norris Martin Nelson, A.A.,*

Columbia Heights

*John William Newberger, Herman*

*Dorothy Evangeline Oberg, St. Paul*

*Alma Odden, Cottonwood*

*Hulda A. Olson, Wahkon*

*Jean Marie Omtvedt, Two Harbors*

*Floyd Hilding Pearson, Cambridge*

*Marvin Harvey Prokasky, Minneapolis*

*Ruth Arlene Reed, Elmore, WITH*

DISTINCTION

*Adelia Caroline Schultz Ross, Clinton,*  
Iowa

*Margaret Jean Rygh, Wannaska*

*Sabina Christine Schultheis, Clinton,*  
Iowa

*Marjorie Helen Skarp, Virginia*

*Peggy Donnette Smith, Wells, WITH*  
DISTINCTION

*Katharine Irene Stack, B.A., Superior,*  
Wis.

*Bessie Mae Syme, Hibbing*

*Betty Mae Templeton, Brainerd*

*Donald Richard Waldoch, St. Paul*

*Leonard Cyril Walsh, Farmington,*

WITH DISTINCTION

*Erwin Carl Welke, St. Louis Park*

*Joan Grace Wells, Minneapolis*

*Milton Sidney Wetzell, Fairmont*

## Bachelor of Science in Library Science

*Clara Amanda Abel, B.Ed., Shakopee*

*Marina E. Axeen, B.S., St. Cloud*

*Mary Elizabeth Dickey, B.A. in Ed.,*  
Bradenton, Fla.

*Emma Edith Figart, B.S., Austin*

*Una Elaine Hallin, B.S., Minneapolis*

*Lillian Estella Johnson, B.S., Minne-*  
apolis

*Hester Holmes Kylo, B.Ed.,*

Superior, Wis.

*Nell Jonk Marley, B.S. in Ed.,*

Willmar

*Hazel Ranck Snell, B.A., Hawarden,*

Iowa

*Alma E. Strehlo, B.S. in Ed., Mankato*

*Arthur Elvin Swan, B.S., Madison,*

S.D.

\* Nursing Education Curriculum.

## Master of Education

Eugene Benjamin Ahlquist, A.A., B.S.,  
Minneapolis  
Maxine M. Baker, B.S., Minneapolis  
William Sherman Corliss, B.S.,  
Winona  
Harry Albert Falk, B.A., St. Paul  
Ernest Lowell Gustafson, B.S., North  
Branch  
Carl Oscar Hager, B.S., Minneapolis  
Mary Elizabeth Harty, B.Ed.,  
Mankato  
Dorothy May Jones, B.S., Minneapolis  
Francis Wayne Loomer, B.S. in Ed.  
Fergus Falls  
Theodore Lawrence Mesang, B.M.,  
Ashland, Wis.  
Eldon Edward Pederson, B.A., Center-  
ville, S.D.  
Helge E. Pukema, B.S., Duluth  
Dennis Eugene Rolle, A.S., B.S.,  
Eveleth  
Harold John Thompson, B.S., Lyons,  
Neb.

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Donald Frederick Beyer, Minneapolis  
William Grant Black, Minneapolis  
Donald Lee Brodale, St. Paul  
Wesley Albert Carlson, Marinette,  
Wis.  
Arthur Davidson, Minneapolis  
Merrill John Bernard Edwardson,  
Carrington, N.D.  
Emery Vernon Erickson, Minneapolis  
Robert B. Fritz, Minneapolis  
Kenneth Ray Haas, Minneapolis  
Kermit Warren Halden, Shakopee  
Douglas Richard Hellweg, St. Paul  
Cyril Joseph Herzog, Shakopee  
Arnold Eric Hjelm, Minneapolis  
Monrad Olaf Hofrenning, Fargo, N.D.  
Nickey Jacke, Minneapolis  
Raymond Edwin Jokinen, A.A.,  
Virginia  
Allen William Kamman, St. Paul  
Robert Francis Keegan, Minneapolis  
Robert Raymond Kerrigan, Hokah  
Dennis Ervin Maher, Appleton  
John Bernard McGee, Minneapolis  
William Arthur McGee, Fairmont  
Irving Misel, St. Paul  
Edward James Moline, Circle, Mont.  
Peter Paul Mosely, Turtle Lake, Wis.  
Merle Ellsworth Nelson, Minneapolis  
Spiro Basil Paskal, Istanbul, Turkey  
Bruce Bradford Pazandak, Minne-  
apolis  
Roy Waldemar Person, Minneapolis  
Burns Lyle Peterson, St. Paul  
Richard Astor Rammer, B.Ch.E.,  
Sheboygan, Wis.  
David Mayer Sanders, Minneapolis,  
WITH DISTINCTION  
Warren William Shepley, South St.  
Paul  
Philip Walter Sherry, Minneapolis  
Ronald Lorne Sonmore, Minneapolis  
Floyd Bernard Spillum, Hawley  
Norman Martin Steck, Hutchinson  
Torstein Stephansen, Bergen, Norway  
Benjamin Sprague Story, St. Paul  
Myron Scott Stulberg, Minneapolis  
James Andrew Summerfield, Minne-  
apolis  
Robert Joseph Weir, Rochester

### Bachelor of Science in Economics

Jay Sherman Daniels, Des Moines,  
Iowa  
Thomas Paul Komarek, St. Paul

## COLLEGE OF PHARMACY

### Bachelor of Science in Pharmacy

Melvin Morris Chargo, St. Paul

## LAW SCHOOL

### Bachelor of Science in Law

Charles B. Avery, Antigo, Wis.  
John Roger Carroll, Minneapolis  
Judd W. LaFerte, Minneapolis  
Lochiel W. MacDonald, Hawley

Clifton Ervin Moen, Minneapolis  
John James Remes, Jr., Minneapolis  
Dean Ferguson Scott, Minneapolis

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science

Shirley Elaine Adler, Marshall,  
Medicine  
Ernest Arthur Ager, Minneapolis,  
Medicine  
Kenneth Emil Ahola, B.A., Virginia,  
Medicine  
James Peter Akins, B.A., Watertown,  
Medicine  
John William Anderson, B.A., Litch-  
field, Medicine  
May Ellen Anderson, St. Paul, Physi-  
cal Therapy  
Wallace Everett Anderson, Minne-  
apolis, Medicine  
James S. Barr, Wells, Medicine  
Kenneth George Berge, B.A. magna  
cum laude, Wahkon, Medicine  
Ernest Maurice Berkas, B.A., Kenyon,  
Medicine  
Russell Stanfield Blanchard, B.A.  
magna cum laude, Minneapolis,  
Medicine  
Owen Conrad Bolstad, Appleton,  
Medicine  
Arthur Bolter, Minneapolis, Medicine  
Jack Ridley Brokken, Harmony,  
Medicine  
Thomas Patrick Cannon, B.A., St.  
Paul, Medicine  
James Bain Carey, Jr., Minneapolis,  
Medicine

Harley Corwin Carlson, B.A., Argyle,  
Medicine  
Vernon John Carlson, B.A., South St.  
Paul, Medicine  
Bruce Wilton Christianson, Blooming  
Prairie, Medicine  
Margaret Henry Clyde, Kansas City,  
Kan., Public Health Nursing  
Leonard Arthur Cobb, Jr., St. Paul,  
Medicine  
Donald William Deering, Morris,  
Medicine  
Francis Emery Demarais, Minne-  
apolis, Medicine  
Richard Philip Doe, St. Paul,  
Medicine  
Willis Mortimer Duryea, Jr., Minne-  
apolis, Medicine  
Earl Wilbur Eli, B.A., Minneapolis,  
Medicine  
Calvin Roger Elrod, Minneapolis,  
Medicine  
Andrew Cornell Erlanson, St. Paul,  
Medicine  
Conrad Bernard Frydenlund, B.A.,  
Albert Lea, Medicine  
Theodore Marshall Gill, Appleton,  
Medicine  
Thomas Arnold Good, Minneapolis  
John Martin Gunsolus, B.A., East  
Lake, Medicine



Christian Peter Hald, Owatonna,  
 Medicine  
 Marguerite E. Halsted, R.N., Warren,  
 Ill., Public Health Nursing  
 Curtis John Hendricks, B.A. cum  
 laude, St. Paul, Medicine  
 Bernard Edward Herman, B.A., St.  
 Louis Park, Medicine  
 William Corriden Hinkley, Minne-  
 apolis, Medicine  
 Wallace Russell Holter, B.A., Minne-  
 apolis, Medicine  
 Worth Allen Hooper, Minneapolis,  
 Medicine  
 William Henry Houlton, B.A., Elk  
 River, Medicine  
 Joseph Claude Houts, B.A., Minne-  
 apolis, Medicine  
 Edward William Humphrey, B.A.,  
 Moorhead, Medicine  
 Marvin Waldemar Johnson, Stanch-  
 field, Medicine  
 Thomas Stanley Johnson, B.A., Min-  
 neapolis, Medicine  
 Roger Edwin Kelley, Minneapolis,  
 Medicine  
 Charles Francis Kelly, Minneapolis,  
 Medicine  
 Robert Thomas Kelly, B.A., DeGraff,  
 Medicine  
 Donna Mae Knutson, B.A., St. Louis  
 Park, Medicine  
 Theodore John Konig, B.A., St. Paul,  
 Medicine  
 Walter Edwin Krafft, B.A., Edina,  
 Medicine  
 Lewis William Larson, St. Paul,  
 Medicine  
 Elliot Mandel Latts, Minneapolis,  
 Medicine  
 Van Sheerin Lawrence, B.A., St. Paul,  
 Medicine  
 Richard Carlton Lillehei, B.A. magna  
 cum laude, Minneapolis, Medicine  
 John Warren McLinden, B.S., Min-  
 neapolis, Medicine  
 Gilbert Theodor Midboe, Minne-  
 apolis, Medicine  
 John Edward Middlebrook, St. Paul,  
 Medicine  
 Herman Miller, B.A., Reading,  
 Medicine  
 Russell Harry Mitchell, B.A., Glyn-  
 don, Medicine  
 Robert Eugene Molenaar, Lake  
 Lillian, Medicine  
 Howard Odell Mortenson, B.A.,  
 Pequot Lakes, Medicine  
 Roger Cawley Murray, St. Paul,  
 Medicine  
 Wilhma Bowman Nelson, Minne-  
 apolis, Medicine  
 Stanley Roy Norquist, Minneapolis,  
 Medicine  
 Ralph Ekle Nyhus, St. Paul, Medicine  
 Harold Patrick O'Neill, B.A., Min-  
 neapolis, Medicine  
 William Vaughan Owen, Minne-  
 apolis, Medicine  
 Wilmer Laurence Pew, Minneapolis,  
 Medicine  
 Kurt Pollak, B.A., Minneapolis,  
 Medicine  
 Bruce Culver Prentice, B.A., Ashland,  
 Wis., Medicine  
 Harley Joseph Racer, St. Paul,  
 Medicine  
 Arnold Ivar Rajala, Cromwell,  
 Medicine  
 Alexander Eugene Ratelle, Minne-  
 apolis, Medicine  
 Reimert T. Ravenholt, Luck, Wis.,  
 Medicine  
 Ralph Reuben Rayner, Des Moines,  
 Iowa, Medicine  
 Byron Harvey Roberts, Minneapolis,  
 Medicine  
 Robert Harris Rosenberg, Minne-  
 apolis, Medicine  
 Bradley Robert Ruth, Duluth,  
 Medicine  
 Charles Nathan Sadoff, Minneapolis,  
 Medicine  
 Anne Lenore Scanlan, St. Paul, Public  
 Health Nursing  
 Mildred Lucille Schaffer, B.A. magna  
 cum laude, Clayton, Wis., Medicine  
 Lois LaVerne Schmalz, Leola, S.D.,  
 Public Health Nursing

Lorin Clair Spencer, B.A., Madelia,  
Medicine  
George Varnum Squire, B.A., Min-  
neapolis, Medicine  
Robert Franklin Stanchfield, B.A.,  
Minneapolis, Medicine  
Gudrun Elizabeth Stenoien, Minne-  
apolis, Public Health Nursing, WITH  
DISTINCTION  
David F. Struxness, B.A., B.Th.,  
Minneapolis, Medicine  
Dorothy Margaret Stude, St. Paul,  
Public Health Nursing, WITH  
DISTINCTION  
Donald Bjork Swenson, St. Paul,  
Medicine  
Annabel Jean Teberg, B.A., Minne-  
apolis, Medicine  
Harold Robert Thysell, Moorhead,  
Medicine  
Jack Anderson Vennes, Minneapolis,  
Medicine

Mary Louise Wagner, R.N., Carroll-  
ton, Ohio, Public Health Nursing,  
WITH DISTINCTION  
Dorothy Carol Walker, Dodgeville,  
Wis., Public Health Nursing  
Robert Kooper West, B.A., Great  
Falls, Mont., Medicine  
Harold Manus Wexler, B.A., Minne-  
apolis, Medicine  
William Roger Weyhrauch, B.A.,  
Wadena, Medicine  
Eugene Leslie White, B.A., Duluth,  
Medicine  
Winfield Tyler Williams, Duluth,  
Medicine  
Louis James Wilson, B.A., Minne-  
apolis, Medicine  
Donald Edwin Wohlrahe, B.A.,  
Springfield, Medicine  
Kermit Joseph Wright, B.A., Minne-  
apolis, Medicine  
Merrill Brooks Yeomans, Lake  
Crystal, Medicine

## GRADUATE SCHOOL

### Master of Arts

Agnes Aas, Ottumwa, Iowa  
B.A. '24, University of North Dakota. Field  
of Concentration: Curriculum and Instruc-  
tion.  
Edward Larrabee Adams, Jr., Ann  
Arbor, Mich.  
B.A. '37, M.A. '39, University of Michigan.  
Field of Concentration: Educational Psy-  
chology.  
Curtis Burdette Akenson, Minneapolis  
B.S. '42, University of Minnesota. Field of  
Concentration: History and Philosophy of  
Education.  
Aarno Kullervo Arola, Helsinki,  
Finland  
LL.B. '47, University of Helsinki. Field of  
Concentration: Economics.  
Kenwood Francis Bartelme, Fort  
Dodge, Iowa  
B.A. '48, University of Minnesota. Field of  
Concentration: Psychology

Arthur Donald Beattie, St. Paul  
B.S. '42, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.  
Robert Lorenzo Bell, Winona  
B.S. '44, Winona State Teachers College.  
Field of Concentration: Industrial Education.  
Warren Leigh Berryman, Minneapolis  
B.A. '43, University of Omaha. Field of Con-  
centration: Music.  
Ellen Edith Blake, Zimmerman  
B.A. '45, St. Ambrose College. Field of Con-  
centration: Curriculum and Instruction.  
Irving D. Blum, Minneapolis  
B.A. magna cum laude '48, University of  
Minnesota. Major: English. Minor: History.  
Thesis: The Continuous Stream of Money  
Imagery and Symbolism in English Literature  
from 1594 until the Present Day.  
Carl Frederick Brandner, Ames, Iowa  
B.S. with honors '46, Iowa State College.  
Major: Physics. Minor: Mathematics. Thesis:  
An Investigation of Normal Magnification of  
Optical Instruments.

- Ann Brinley, Minneapolis  
B.S. '37, University of Minnesota. Field of Concentration: Educational Psychology.
- Clifford Manley Christensen, Wilmot, S.D.  
B.A. *cum laude* '48, University of Minnesota. Field of Concentration: Educational Psychology.
- Harold Richard Christenson, Minneapolis  
B.A. '48, Macalester College. Field of Concentration: History.
- Marie Katherine Christianson, St. Paul  
B.S. with honor '42, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.
- Priscilla Fallis Clark, Evanston, Ill.  
B.A. with highest distinction '47, Northwestern University. Field of Concentration: Psychology.
- Selby Gamette Clark, Salt Lake City, Utah  
B.S. '48, University of Utah. Field of Concentration: Educational Psychology.
- Janet Elizabeth Cupler, Fargo, N.D.  
B.A. '40, University of Chicago. Field of Concentration: Journalism.
- Fred McKinley Curtis, Minneapolis  
B.S. '26, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Richard Clyde Davis, Minneapolis  
B.A. *magna cum laude* '48, University of Minnesota. Field of Concentration: Psychology.
- Carl Edwin Diesen, Cloquet  
B.A. *cum laude* '42, University of Minnesota. Field of Concentration: Mathematics.
- Ellen Easley, Carrollton, Texas  
B.A. '31, B.J. '35, Mary Hardin-Baylor College. Major: Sociology. Minor: Journalism. Thesis: Assimilation of Newcomers in a Summer Camp for Girls.
- Clyde Enroth, Minneapolis  
B.A. '47, University of Minnesota. Field of Concentration: English.
- Doris Johnson Foote, Jesse Lake  
B.A. *cum laude* '48, University of Minnesota. Field of Concentration: Business Administration.
- George Carroll Gail, Baltimore, Md.  
B.S. '48, A. and T. College of North Carolina. Field of Concentration: Industrial Education.
- Anne Tiffany Gillette, East Orange, N.J.  
B.A. *magna cum laude* '47, New York University. Major: English. Minor: Linguistics and Comparative Philology. Thesis: John Dos Passos: Theme and Technique.
- Hugo Hartig, Minneapolis  
B.A. '46, St. Olaf College. Field of Concentration: English.
- Patricia Ann Hayes, Minneapolis  
B.A. '47, University of Minnesota. Field of Concentration: Psychology.
- Marion A. Hine, Rice Lake, Wis.  
B.S. '48, Eau Claire State Teachers College. Field of Concentration: Educational Psychology.
- Rodney Dwight Hobson, Bemidji  
B.S. '43, Bemidji State Teachers College. Field of Concentration: Industrial Education.
- Milton Walter Jahn, St. Paul  
B.A. '41, Macalester College. Field of Concentration: Educational Administration.
- John Jarolimek, Frederic, Wis.  
B.S. '43, River Falls State Teachers College. Field of Concentration: Curriculum and Instruction.
- Josephine Charlotte Jaspersen, Mankato  
B.S. with distinction '44, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Robert Leonard Jevne, Minneapolis  
B.A. '47, University of Minnesota. Field of Concentration: English.
- John F. Jurkovich, Eveleth  
B.S. '43, St. Cloud State Teachers College. Field of Concentration: Industrial Education.
- Ellen Fredrikke Kasberg, Minneapolis  
B.S. '39, University of Minnesota. Field of Concentration: Fine Arts.
- Elizabeth Anne Keating, Minneapolis  
B.A. '44, Radcliffe College. Field of Concentration: Psychology.
- Evelyn Martha Kessler, East Grand Forks  
B.S.C. '46, University of North Dakota. Field of Concentration: Economics.
- Richard Frederick Krueger, Chisholm  
B.S. '41, University of Minnesota. Major: Economics. Minor: Psychology. Thesis: An Evaluation of the Training within Industry Program.

Charles Henry Lang, Minneapolis  
B.S. '47, University of Minnesota. Field of  
Concentration: Educational Psychology.

Evelyn Winniefred Larson, Kerk-  
hoven  
B.S. '44, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Roland Sigward Larson, St. Paul  
B.S. '47, University of Minnesota. Field of  
Concentration: Educational Psychology.

Olivia Beatrice Lindsey, Richmond,  
Va.  
B.A. '39, Virginia Union University. Field of  
Concentration: Curriculum and Instruction.

Howard TenBroeck Lutz, Minneapolis  
B.A. '45, Haverford College. Field of Con-  
centration: Scandinavian Area Studies.

Helen Alvera Mataya, Chicago, Ill.  
B.S. with honors '46, Southern Illinois Normal  
University. Field of Concentration: Political  
Science.

Kenneth Hall McCartney, Winnipeg,  
Manitoba, Canada  
B.A. '45, University of Manitoba. Major: Eco-  
nomics. Minor: Political Science. Thesis: The  
Trend in Union and Management Security  
Clauses in Collective Contracts in Manitoba,  
1940-1948.

Clair Glenn McMann, St. Paul  
B.A. '28, Hamline University. Field of Con-  
centration: Educational Administration.

Jack Louis Nienaber, St. Paul  
B.B.A. '47, University of Minnesota. Field of  
Concentration: Economics.

Gordon Richard Owen, Minneapolis  
B.S. with distinction '48, University of Min-  
nesota. Field of Concentration: Speech.

William Orlund Petersen, Minne-  
apolis  
B.S. '42, University of Minnesota. Field of  
Concentration: Educational Administration.

John Arthur Poppenberg, Bemidji  
B.S. '48, Bemidji State Teachers College.  
Field of Concentration: Industrial Education.

Matthew William Reneson, Dudley,  
Mass.  
B.S. '48, Fitchburg State Teachers College.  
Field of Concentration: Industrial Education.

Melba Jean Rogers, Waupun, Wis.  
B.A. '44, Ripon College. Field of Concen-  
tration: Social Work.

Nina Marie St. John, Minneapolis  
B.A. '32, B.S. '34, University of Minnesota.  
Field of Concentration: Music.

George Edward Schafer, St. Paul  
B.A. '43, Macalester College. Field of Con-  
centration: Physics.

Robert Hanson Scherer, Mankato  
B.S. '38, Mankato State Teachers College.  
Major: Mathematics. Minor: Statistics. Thesis:  
The Jordan-Stieltjes Integral.

Joe Gene Schoggen, Lawrence, Kan.  
B.A. '43, Park College. Major: Economics.  
Minor: Political Science. Thesis: The Securities  
and Exchange Commission and Fairness and  
Feasibility in Corporate Reorganization.

Armas Wayne Tamminen, Iron  
B.S. '40, University of Minnesota. Field of  
Concentration: Educational Psychology.

Mary Louise Tannus, Des Moines,  
Iowa  
B.A. '46, Augustana College. Field of Con-  
centration: Social Work.

Ethelyn Catherine Tellers, Watkins  
B.S. '37, College of St. Benedict. Field of  
Concentration: Educational Psychology.

Ernest Milo Thomsen, Tyler  
B.E. '38, Mankato State Teachers College.  
Field of Concentration: Educational Admin-  
istration.

George Edward Toman, St. Paul  
B.A. *cum laude* '36, St. John's University.  
Major: English. Minor: American Literature.  
Thesis: The Scriblerus Club as an Academy of  
Criticism.

Louis Edward Ulrich, Jr., Milwaukee,  
Wis.  
B.S. '41, Milwaukee State Teachers College;  
B.D. '48, Northwestern Lutheran Theological  
Seminary. Field of Concentration: History.

Barbara Joan Whitby Walker,  
Edmonton, Alta., Canada  
B.A. '44, University of Alberta. Field of Con-  
centration: Child Welfare.

Bradley John Walker, Minneapolis  
B.A. *magna cum laude* '48, University of Min-  
nesota. Field of Concentration: Psychology.

Ruby Josephine Wall, Brooten  
B.S. '42, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Dora Hsueh Chen Wang, Singarg,  
China

B.A. '28, Cheeloo University. Field of Con-  
centration: Curriculum and Instruction.

Marlowe Ervin Wegner, Perley  
B.S. '41, Moorhead State Teachers College.  
Field of Concentration: Industrial Education.

Robert B. Westphal, Tilden, Neb.  
B.A. '47, Nebraska State Teachers College.  
Field of Concentration: Statistics.

Robert Melvin Worthington, Sher-  
man, Ky.  
B.S. '48, Eastern Kentucky State Teachers  
College. Field of Concentration: Industrial  
Education.

Charles Rolla Wright, Fergus Falls  
B.A. '05, LL.B. '06, University of Minnesota.  
Field of Concentration: Curriculum and In-  
struction.

Valdemar Ambrosius Xavier, Minne-  
apolis  
B.A. '46, Augsburg College. Field of Concen-  
tration: Educational Administration.

## Master of Arts in Public Administration

Clarence Raymond Eskildsen, Karlstad  
B.E. '38, Moorhead State Teachers College.  
Major: Public Administration. Thesis: The  
Consolidated Administrative Expense Account  
of the Production and Marketing Administra-  
tion.

## Master of Science

Ralph Leo Anderson, Squaw Lake  
B.S. '47, University of Minnesota. Major:  
Forestry. Minor: Plant Pathology. Thesis: The  
Black Spruce Dwarf Mistletoe in Minnesota.

Victor Elving Anderson, St. Paul  
B.A. *magna cum laude* '45, University of Min-  
nesota. Major: Zoology. Minor: Physiology.  
Thesis: A Familial Study of Human Breast  
Cancer.

Harriet Maxine Andregg, Britt, Iowa  
B.S. '44, Iowa State College. Field of Con-  
centration: Home Economics.

Donald Franklin Baer, Minneapolis  
B.Aero.E. '43, University of Minnesota. Field  
of Concentration: Botany.

Milton Blair Blackwood, Newdale,  
Manitoba, Canada  
B.Sc. '47, University of Manitoba. Field of  
Concentration: Agricultural Economics.

Edyth Louise Bray, Guelph, Ontario,  
Canada  
B.H.Sc. '32, University of Toronto. Major:  
Home Economics. Minor: Education. Thesis:  
The Development and Use of a Pencil and  
Paper Test for Determining Placement of Col-  
lege Students in Clothing Courses and for  
Measuring Achievement after Instruction.

J. W. Britain, St. Paul  
B.A. '42, The Rice Institute. Field of Con-  
centration: Organic Chemistry.

Robert S. Bryant, Minneapolis  
B.A. '41, Cornell College. Major: Agricultural  
Biochemistry. Minor: Bacteriology. Thesis:  
Hygroscopic Equilibria Studies on Prepared  
Cake Flours and the Relationship between  
Moisture Content and Stability of the Chemi-  
cal Leavening Agents.

Elmer William Bunkers, Windom  
B.A. '48, St. John's University. Field of Con-  
centration: Agricultural Economics.

Tsan Sing Chai, Waitsap, Kwangsi,  
China  
B.S. '39, National Kwangsi University. Major:  
Forestry. Minor: Botany. Thesis: The Viability  
of Black Spruce Seed in Relation to the Cone  
Ages.

Paul Everett Collins, Welch  
B.A. *magna cum laude* '39, Gustavus Adolphus  
College; B.S. with high distinction '48, Uni-  
versity of Minnesota. Major: Forestry. Minor:  
Soils. Thesis: The Adaptability of Various  
Tree and Shrub Species to Farmstead Wind-  
break Plantings in the Minnesota Prairie  
Region.

**Leola Ellen Ford, Auburn, Ind.**

B.A. '47, Wittenberg College. Major: Plant Genetics. Minor: Botany. Thesis: Genetic Studies of Abnormal Ratios for Factors in Chromosomes 4 and 5 of Maize.

**Ralph Gerhard Gutmacher, Nashville, Tenn.**

B.A. '47, Vanderbilt University. Major: Analytical Chemistry. Minor: Organic Chemistry. Thesis: The Application of a Cation-exchange Resin to the Isolation of Traces of Copper and Iron.

**William Bert Hanson, Roseau**

B.Ch.E. '44, University of Minnesota. Field of Concentration: Physics.

**Robert John Heron, Winnipeg, Man., Canada**

B.Sc. '45, University of Manitoba. Major: Zoology. Minor: Physiological Chemistry. Thesis: A Study of the Cyanide Inhibition of Pupal Respiration of the Wax Moth, *Galleria mellonella* L.

**Ann Marguerite Juilfs, Longmont, Colo.**

B.S. '44, Colorado State College of Agriculture and Mechanic Arts. Field of Concentration: Home Economics.

**Mary Louise Koester, Minneapolis**

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

**Vernon Herschel Mark, Minneapolis**

B.S. '45; M.D. '47, University of Minnesota. Major: Neuroanatomy. Minor: Neuropathology. Thesis: The Effect of Chromatolysis on the Interaction of Spinal Motoneurons.

**John Darrell Miller, McHenry, N.D.**

B.A. '48, Jamestown College. Field of Concentration: Agricultural Economics.

**Baldomero Cordoba Obregon, Saltillo, Coahuila, Mexico**

B.S. '41, Escuela Superior de Agricultura. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Study of Self-fertility and Cross-fertility, and Other Characters with Selected Alfalfa Clones.

**Ellen Lucille Omernik, Spooner, Wis.**

B.S. with high distinction '47, University of Minnesota. Major: Bacteriology. Minor: Physiological Chemistry. Thesis: Ethylene Oxide Sterilization of Pulvers.

**Louis Mack Perry, Duluth**

B.S. '47, University of Minnesota. Major: Geology. Minor: Petroleum Engineering. Thesis: The Cretaceous Subsurface Geology in the Vicinity of Cape Hatteras, North Carolina.

**Eugene Debs Selmanoff, Minneapolis**

B.Met.E. with distinction '42, University of Minnesota. Field of Concentration: Metallography.

**Donald Morison Smith, Montreal, Que., Canada**

B.Sc. '46, McGill University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Reaction of Saligenin and Related Compounds with Unsaturated Compounds.

**Percy Anderson Staats, Parkersburg, W.Va.**

B.A. cum laude '43, Marietta College. Field of Concentration: Physical Chemistry.

**Emily Ann van Ingen, Minneapolis**

B.S. '44, Drexel Institute of Technology. Field of Concentration: Home Economics.

**John Trew Williams, Willmar**

B.S. *summa cum laude* '44, Hamline University. Field of Concentration: Physical Chemistry.

**Yu-Kun Yang, Amoy, Fukien, China**

B.S. '42, National University of Chekiang. Field of Concentration: Agricultural Economics.

**Nien Yen, Changsho, Kiangsu, China**

B.S. '44, National Central University. Field of Concentration: Animal Husbandry.

## Master of Science in Chemical Engineering

**Ardel John Flynn, Bovey**

B.Ch.E. with distinction '47, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Mass Transfer of Pure Liquids in a Wetted-wall Column.

## Master of Science in Dermatology and Syphilology

Stanley Eugene Huff, St. Paul  
B.S. '40, University of Notre Dame; M.D. '44,  
Northwestern University. Major: Dermatology  
and Syphilology. Minor: Pathology. Thesis:  
The Abnormal Peripheral Circulation in Lupus  
Erythematosus.

## Master of Science in Electrical Engineering

Oscar Alfred Huettner, Mobridge,  
S.D.

B.E.E. '43, University of Minnesota. Major:  
Electrical Engineering. Minor: Mathematics.  
Thesis: A Study of the Operating Character-  
istics in a Distributed Constant Amplifier.

## Doctor of Philosophy

Henry Bauer, Minneapolis  
B.S. '37, M.S. '38, University of Nebraska.  
Major: Bacteriology. Minor: Agricultural Bio-  
chemistry. Thesis: A Study of Brucella and  
Proteus Urease. Major Adviser: Prof. H. O.  
Halvorson.

Milo Myrum Bolstad, Columbia, Mo.  
B.M.E. with distinction '36, University of  
Minnesota; M.S. in M.E. '38, Massachusetts  
Institute of Technology. Major: Mechanical  
Engineering. Minor: Metallography. Thesis:  
Theory and Use of Capillary Tube Expansion  
Devices for Refrigerant Control. Major Ad-  
viser: Prof. R. C. Jordan.

Anne Helen Carlsen, Jamestown, N.D.  
B.A. cum laude '36, University of Minnesota;  
M.A. '46, Colorado State College of Educa-  
tion. Major: Education. Minor: English.  
Thesis: A Comparative Study of the Responses  
of Crippled and Non-crippled Adolescents on  
Some Personality and Interest Tests. Major  
Adviser: Prof. G. L. Bond.

Horace Raymond Davis, Jr., Clayton,  
Mo.

B.A. '43, University of Illinois. Major: Or-  
ganic Chemistry. Minor: Physical Chemistry.  
Thesis: I. The Reaction between Quinones  
and Metallic Enolates. XXIV. Synthesis and  
Reactions of Bis-(2,4,5-Trimethylquinonyl)-  
Methane. II. Attempted Synthesis of a Nitro-  
cyclopropyl Sulfone. Major Adviser: Prof. L. I.  
Smith.

Robert Fred Doerge, Minneapolis  
B.S. '43, University of Minnesota. Major:  
Pharmaceutical Chemistry. Minors: Pharma-  
cology and Physiological Chemistry. Thesis:  
Synthesis of Thiobarbituric Acid Derivatives.  
Major Adviser: Prof. Ole Gisvold.

Walter Fleming, Hays, Kan.  
B.A. '42, University of Saskatchewan; M.A.  
'44, University of Minnesota. Major: Mathe-  
matics. Minor: Physics. Thesis: The Double  
Wiener Integral of a Function of a Certain  
Quadratic Functional. Major Adviser: Prof.  
R. H. Cameron.

Marshall Cornelius Freerks, Cuyuna  
B.A. '39, Carleton College. Major: Organic  
Chemistry. Minor: Physical Chemistry.  
Thesis: Studies on Aminochromanacetic Acid  
Lactams, Compounds Which Have Unusual  
Tricyclic Structures. Major Adviser: Prof. C. F.  
Koelsch.

John Wilbert Gustad, St. Paul  
B.A. cum laude '43, Macalester College; M.A.  
'48, University of Minnesota. Major: Psy-  
chology. Minor: Educational Psychology.  
Thesis: A Study of Social Behavior Variables  
in College Freshmen. Major Advisers: Profs.  
E. G. Williamson and D. G. Paterson.

Orville Jacquelin Hall, Fayetteville,  
Ark.

B.S.A. '25, University of Arkansas; M.S. '28,  
University of Minnesota. Major: Agricultural  
Economics. Minor: Economics. Thesis: Drying  
of Arkansas Rice—Economic Considerations  
and Consequences. Major Adviser: Prof. O. B.  
Jesness.

Leo Joseph Hanvik, Minneapolis  
B.A. magna cum laude '38, St. Thomas College; M.A. '42, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Some Psychological Dimensions of Low Back Pain. Major Adviser: Prof. P. E. Meehl.

Ivan Henrik Hinderaker, Hendricks  
B.A. cum laude '38, St. Olaf College; M.A. in P.A. '42, University of Minnesota. Major: Political Science. Minor: History. Thesis: Harold Stassen and Developments in the Republican Party in Minnesota, 1937-1943. Major Adviser: Prof. William Anderson.

Milton Louis Hoeffle, Galva, Ill.  
B.S. '43, University of Illinois; M.S. '44, University of Minnesota. Major: Organic Chemistry. Minor: Agricultural Biochemistry. Thesis: I. The Study of the Coupling of Phenol and Ethyl  $\gamma$ -Bromocrotonate. II. The Phenyl Allyl Ether Rearrangement in Aqueous Alkali. Major Adviser: Prof. W. M. Lauer.

Morton J. Keston, Albuquerque, N.M.  
B.S. '33, M.A. '37, M.S. '41, University of Chicago. Major: Educational Psychology. Minors: Psychology and Philosophy. Thesis: An Experimental Evaluation of the Efficacy of Two Methods of Teaching Music Appreciation. Major Adviser: Prof. P. O. Johnson.

Philip Henri Kriedt, Minneapolis  
B.A. '35, M.A. '47, University of Minnesota. Major: Psychology. Minors: Economics and Educational Psychology. Thesis: Differential Interest Patterns of Psychologists. Major Adviser: Prof. D. G. Paterson.

Robert Leslie Mann, Decatur, Ind.  
B.S. '45, Indiana University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: A Study of the Proteins of Soybeans. Major Adviser: Prof. D. R. Briggs.

Marjorie Ann Olsen, Oshkosh, Wis.  
B.A. summa cum laude '44, Lawrence College; M.A. '46, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: Validation of the Forced Choice Technique in Personality Measurement. Major Adviser: Prof. D. G. Paterson.

Allan George Peterson, St. Paul  
B.S. with honor '37, M.S. '39, South Dakota State College. Major: Entomology. Minor: Plant Genetics. Thesis: A Study of the Resistance of Some Varieties of Potato to the Potato Leafhopper *Empoasca fabae* (Harris). Major Adviser: Prof. A. A. Granovsky.

Frank Joseph Polansky, St. Paul  
B.A. cum laude '36, M.A. '38, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Some Approximation Theories in Conformal Mapping. Major Adviser: Prof. S. E. Warschawski.

Leslie George Mackay Robinson, Winnipeg, Man., Canada  
B.A. '30, M.E. '36, University of Manitoba. Major: Educational Psychology. Minor: Education. Thesis: An Appraisal of the United States Employment Service General Aptitude Test Battery, B-1001, for the Grade Ten Population of Minnesota. Major Advisers: Profs. W. W. Cook and P. O. Johnson.

Howard Laughlin Roy, Rochester  
B.E. '33, Winona State Teachers College; M.S. in Psychometrics '41, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Construction of a College Satisfaction Index. Major Adviser: Prof. D. G. Paterson.

Betty T. Stocks, Minneapolis  
B.A. magna cum laude '34, University of Minnesota. Major: English. Minor: French. Thesis: Hobbes and the Restoration Wits. Major Adviser: Prof. C. A. Moore.

Maurice Sussman, Bellmore, N.Y.  
B.S. '42, The College of the City of New York. Major: Bacteriology. Minors: Zoology and Botany. Thesis: The Dissociation of Biosynthesis from Glycolysis in the Intact Yeast Cell. Major Adviser: Prof. Sol Spiegelman.

Katherine Frances Thorn, Minneapolis  
B.A. '30, Elmira College; M.S. '43, University of Minnesota. Major: Speech Pathology. Minor: Child Welfare. Thesis: A Study of the Personality of Stutterers as Measured by the Minnesota Multiphasic Personality Inventory. Major Adviser: Prof. Bryng Bryngelson.

Harry Matthews Walker, Prescott, Ariz.  
B.S. with highest distinction '42, M.S. '46, University of Arizona. Major: Organic Chemistry. Minor: Chemical Engineering. Thesis: The Synthesis of Angularly Substituted Octahydroquinolinediones from Products of the Brunson Reaction. Major Adviser: Prof. C. F. Koelsch.

George Schlager Welsh, Kingston, Pa.  
B.A. '40, University of Pennsylvania. Major: Psychology. Minor: Neuropsychiatry. Thesis: A Projective Figure-Preference Test for Diagnosis of Psychopathology: I. A Preliminary Investigation. Major Adviser: Prof. P. E. Meehl.



## Doctor of Philosophy in Neurology

William Schultz Chalgren, Minne-  
apolis

B.A. *cum laude* '39, M.D. '43, University of  
Minnesota. Major: Neurology. Minor: Neuro-  
pathology. Thesis: Neurological Complica-  
tions of Medical Diseases. Major Adviser:  
Dr. A. B. Baker.

# 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, or light blue for Education. Orange denotes Technology; dark blue, Philosophy; purple, Law; green, Medicine; and pink, Music. Public Health is shown by salmon pink edging, Dentistry by lilac, Pharmacy by olive, and Commerce and Accounting by drab.

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

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

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

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

(In the order of their appearance on the platform)

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



# UNIVERSITY OF MINNESOTA

*August Commencement*

*1949*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, AUGUST 25

AT EIGHT O'CLOCK





## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Julius A. Schmahl, Treasurer

The Honorable Fred B. Snyder, Minneapolis  
First Vice President and Chairman

The Honorable Ray J. Quinlivan, St. Cloud  
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 George W. Lawson, St. Paul

The Honorable Albert J. Lobb, 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*

*The University of Minnesota: "FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED BY UNDERSTANDING, DEDICATED TO THE ADVANCEMENT OF LEARNING AND THE SEARCH FOR TRUTH, DEVOTED TO THE INSTRUCTION OF YOUTH AND THE WELFARE OF THE STATE"—this is your University.*

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota will soon celebrate its one hundredth birthday. While nearing this milestone, as from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to actively participate in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded 94,902 degrees to its students who have completed the rigorous training demanded by the complexities and specialization of modern society.

In addition to the enormous task of giving collegiate instruction to some twenty-five 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, the Master Piano Series, the University Theatre, and of the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not because it is the second largest state university in the nation, but because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in their University is a dynamic, living thing and expresses itself in many ways. Contributions from them now make it possible for the great Mayo Memorial building and for the new Variety Club Heart Hospital to be erected over the coming months. Through the American Legion and auxiliary posts all over the state, thousands of friends have made relatively small gifts to provide an endowed research professorship in heart diseases. Gifts to the Greater University Fund, each appropriately called "A Share in Greatness," now being made especially by alumni, are worthy of special mention.

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

## Order of Events

**THE ASSEMBLING OF THE AUDIENCE:** As 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. Warren Berryman, University organist, carillonneur. Admission to the August commencement exercises in the Auditorium is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

**ORGAN RECITAL:** Beginning at 7:30 p.m., Mr. Warren Berryman, University organist, will play:

Sixth Symphony - - - - - Widor  
Allegro  
Adagio  
Intermezzo  
Cantabile  
Finale

Processional: Rigaudon - - - - - Campra

**PROCESSIONAL:** As candidates for degrees enter the Auditorium at 8:00 p.m. the curtain will be opened. Seated on the platform, left to right, are: Mr. Thomas F. Barnhart, Professor of Journalism, Acting Marshal; Dr. Tracy F. Tyler, Associate Professor of General Education and Assistant to the Dean of the Summer Session, Acting Marshal; The Reverend Leonard P. Cowley, Member, Minnesota Council of Religion and Chaplain to Catholic Students, University of Minnesota; Dr. Alfred L. Vaughan, Assistant Dean of the General College; Dr. Clyde H. Bailey, Dean of the Department of Agriculture; Dr. R. L. Kozelka, Dean of the School of Business Administration; Mr. Maynard E. Pirsig, Dean of the Law School; Mr. E. M. Gerritz, Admissions Supervisor; Mr. William T. Middlebrook, Vice President, Business Administration; Dr. James Lewis Morrill, President of the University of Minnesota; Dr. Dean Schweickhard, Commissioner of Education for the State of Minnesota; Dr. John W. Buchta, Assistant Dean of the College of Science, Literature, and the Arts; Mr. Thomas L. Joseph, Assistant Dean of the Institute of Technology; Dr. Marcia Edwards, Assistant Dean of the College of Education; Dr. E. B. Fischer, Professor and Head of the Department of Pharmacognosy; Dr. Howard L. Horns, Assistant Dean of the College of Medical Sciences; Dr. Theodore C. Blegen, Dean of the Graduate School; Mr. Roy A. Schuessler, Assistant Professor of Music; Mr. Keith McFarland, Assistant to the Dean of the College of Agriculture, Forestry, and Home Economics, Acting Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University ROTC and NROTC cadets, enters the Auditorium, the audience will rise and remain standing.

## Order of Events

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

**INVOCATION:** The Reverend Leonard P. Cowley, Member, Minnesota Council of Religion and Chaplain to Catholic Students at the University of Minnesota.

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

**COMMENCEMENT ADDRESS:** "Learning and Living," Mr. Dean Schweickhard, D.Ed., Commissioner of Education for the State of Minnesota, St. Paul, Minnesota.

**CONFERRING OF DEGREES:** Professor Tracy F. Tyler, Ph.D., Assistant to the Dean of the Summer Session, will introduce the several deans or their representatives who will present the candidates for the degrees in their respective colleges. These, in order of their introduction, are: Assistant Dean Alfred L. Vaughan, Ph.D., for Dean Horace T. Morse, Ph.D., General College; Assistant Dean John W. Buchta, Ph.D., University College, and for Dean T. R. McConnell, Ph.D., Dean of the College of Science, Literature, and the Arts; Assistant Dean Thomas L. Joseph, M.A. for Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Clyde H. Bailey, Ph.D., College of Agriculture, Forestry, and Home Economics; Assistant Dean Marcia Edwards, Ph.D. for Dean Wesley E. Peik, Ph.D., College of Education; Dean R. L. Kozelka, Ph.D., School of Business Administration; Professor E. B. Fischer, Ph.D., for Dean C. H. Rogers, Sc.D., College of Pharmacy; Dean Maynard E. Pirsig, LL.B., Law School; Assistant Dean Howard L. Horns, M.D., for Dean Harold S. Diehl, M.D., College of Medical Sciences; and Dean Theodore C. Blegen, Ph.D., Graduate School. All degrees will be conferred by President James Lewis Morrill. Immediately afterward, certificates and diplomas will be presented by each dean to the graduates of his college.

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

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

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

**RECESSIONAL:** Mr. Warren Berryman.

Thou Art the Rock - - - - - Mulet

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

# *Candidates for Graduation*

Subject to the completion of all curriculum requirements at the close 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

Robert Leslie Benner, Chicago, Ill.	Marshall Gordon Larson, Minneapolis
Archie Campbell Black, Jr., Minneapolis	Ray Benhard Lein, Minneapolis
Lyle John Cashin, Minneapolis	Theodore John Lukin, St. Paul
Gordon Arne Flikeid, Minneapolis	Charles Richard Luther, Waseca
Betty Jane Hanson, Minneapolis	Edward John Nichols, Duluth
Allan Avery Hawkinson, Minneapolis	Benny Norman Noodleman, Minneapolis
Nancy Elizabeth Hoyt, Northfield	Oral Edith Peterson, Milaca
George Fidel Kight, Minneapolis	Donna Mae Rasmussen, Minneapolis

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Clifford Gordon Anderson, Minneapolis	Thomas Luxton Hill, Minneapolis
Dorothy Phelps Anderson, Hopkins	Robert Vincent Hyser, Minneapolis
Lloyd Charles Anderson, Minneapolis	James Anthony Ralph Johnson, Minneapolis
Gene Merle Dittbenner, Minneapolis	John Henry Martinson, Minneapolis
Jack Duane Gage, Minneapolis	John Fredrick Warnke, Minneapolis
Barbara Alice Gudgeon, Minneapolis	

### Bachelor of Arts

Fred John Aho, Mahtowa	Jay Blakely, Minneapolis
Carl Woodrow Aldean, Verndale	Leon Orvin Bonrud, Dell Rapids, S.D.
Gordon Charles Anderson, Minneapolis	John Elston Bowers, Okoboji, Iowa
Roger Raymond Anderson, Minneapolis	Gail Alene Boyce, Rochester
Stephen Hunt Archer, St. Paul	Margery Lois Brown, Albert Lea
Richard Aronsohn, Minneapolis	Paul Wilson Brown, Minneapolis, CUM LAUDE
Stuart Gordon Baird, Jr., Minneapolis	Richard Wallace Bruner, Minneapolis
Robert Steven Barr, Minneapolis	Russell Jerome Buller, Minneapolis
Vilas George Benning, Winona	Sylvia Burns, St. Paul
James William Bissonnette, Minneapolis	Jack Duane Burton, Minneapolis, cum LAUDE
	Kenneth Oscar Carlson, Minneapolis



Marvel Croft Carstenbrock, Minneapolis  
 William Herbert Charnley, Goshen, Ind.  
 Patrick Michael Clepper, St. Cloud  
 Marion Buetow Collins, Ballston Lake, N. Y., *SUMMA CUM LAUDE*  
 John Joseph Connelly, St. Paul  
 Alfred Warren Dahlberg, A.A., Minneapolis  
 EmmyLu Daly, Stillwater  
 William Emil Datel, Bonilla, S.D., *MAGNA CUM LAUDE*  
 James William Davis, Frankfort, S.D.  
 Duane Robert Day, St. Paul  
 Carl August Frederick Denk, Jr., Minneapolis  
 Donald Allen Denneson, Austin  
 Orval Leroy Dillingham, Minneapolis  
 Margaret Hannah Doherty, Wilmette, Ill.  
 Vernon Malcolm Dolphin, Minneapolis, *CUM LAUDE*  
 Merlyn James Dooley, St. Paul  
 Patricia Anne Douglas, Joliet, Ill.  
 Ilyana Garmisa Druck, St. Paul, *MAGNA CUM LAUDE*  
 John Calvin Dumas, Minneapolis  
 Lauren Allen Dunn, Gary, S. D.  
 Robert Clarence Dunn, St. Paul  
 James John Dunphy, St. Paul  
 Robert James Dwyer, Minneapolis  
 Mary Jeanne Edwards, St. Paul  
 Eddie Lee Engquist, Aitkin  
 Betty Jeane Evenson, Minneapolis  
 Robert Ernest Fagen, Minneapolis, *MAGNA CUM LAUDE*  
 Ross Jeffrey Farmer, Minneapolis, *CUM LAUDE*  
 Eileen Catherine Feith, St. Paul  
 Richard Leo Filburn, West St. Paul  
 Guy Spaulding Flanagan, Jr., Mankato  
 Ramon Michael Fusaro, Minneapolis  
 Milton Clyde Gamelin, Forest Lake  
 Robert Charles Gehl, Minneapolis  
 Richard John Gmitro, Minneapolis  
 Alan Bernard Goldberg, Sioux City, Iowa  
 Malcolm Goldman, Minneapolis, *MAGNA CUM LAUDE*  
 Joseph Jay Granbeck, Minneapolis  
 William Beeman Grismer, Minneapolis  
 Richard Paul Groschupf, Bemidji  
 Ernest Ashley Gudridge, Braham  
 Paul O. Gustafson, Minneapolis  
 William Samuel Harma, Tower  
 David Bruce Haskin, St. Paul  
 David James Haslund, Minneapolis  
 Edmund Osborne Hawksett, Minneapolis  
 Thomas Noble Helvig, Meadow, S.D.  
 Samuel Herstein, St. Paul  
 Marion Louise Hicks, Minneapolis  
 Norman Oscar Hilleren, Red Wing  
 Bruce William Jarvis, St. Paul  
 James Edward Jensen, Minneapolis  
 Wallace O. Jensen, Badger  
 Peter Roger Jesness, St. Paul  
 Geneva Catherine Johnson, Two Harbors  
 William Joseph Kaehn, Minneapolis  
 Margaret Estelle Keenan, Minneapolis  
 Henry Kehborn, St. Paul  
 Carl R. Kempe, St. Paul  
 Joseph Thomas Kenneally, Minneapolis  
 Lorraine Barbara Kessler, Minneapolis, *CUM LAUDE*  
 Robert Hartman Klass, Minneapolis  
 James Aloysius Kritzeck, St. Cloud, *MAGNA CUM LAUDE*  
 Ronald Avron Kroman, Minneapolis, *CUM LAUDE*  
 Jeanne Elaine Kurrasch, Minneapolis  
 Frederick Halvor Lang, Minneapolis  
 Richard Elias Latvala, Nashwauk  
 William Charles Leaf, Glencoe  
 Harvey Heins LeBarron, Minneapolis  
 Paul Leblang, A.L.A., New York, N. Y.  
 Donn Ellis Leuzinger, Minneapolis  
 Amos Herald Levang, Minneapolis  
 Emmy Lou Levy, St. Paul  
 Robert Lloyd Lillestrand, St. Cloud  
 Theodore Roosevelt Lindstrom, Jr., Minneapolis  
 Hyman Lipshutz, Chicago, Ill.  
 Bruce Raymond Little, Minneapolis  
 Merle William Loppnow, St. Paul  
 Howard Allen Lundeen, Kelly Lake  
 Robert Gorham Magney, Duluth

Millicent Joyce Mandel, Superior, Wis.  
 Richard Irwin Matthews, Ortonville  
 Evelyn Agnes McCann, Minneapolis  
 Thomas Arthur Meagher, Park River, N. D.  
 Earl Roy Miner, Marshfield, Wis.,  
 SUMMA CUM LAUDE  
 Alan H. Minter, Minneapolis  
 Robert Eugene Molenaar, B.S., Lake Lillian  
 David Dalrymple Moore, Minneapolis  
 Martha Helen Morain, Minneapolis  
 Wilson Robert More, A.L.A., St. Paul  
 Edgar Andrew Mulhollam, Spring Valley, Wis.  
 Theodore Rudolph Muller, St. Paul  
 William John Murdock, Minneapolis  
 Roger Howard Myers, Minneapolis  
 Ralph Lloyd Nelson, St. Paul  
 Edward Robert Niciejewski, Weyerhauser, Wis.  
 Jean Babbett Nicoles, Eau Claire, Wis.  
 Wayne Curtis Noren, Minneapolis  
 Robert Charles O'Connor, Rochester  
 William Rudolph Ojala, Eveleth  
 Albert Renghold Olson, Minneapolis,  
 CUM LAUDE  
 Robert Alexander Pappas, Minneapolis  
 Sheila Claire Pesek, San Francisco, Cal.  
 Edwin Alfred Peterson, Hibbing  
 John Wales Pickford, Minneapolis  
 Frank Anthony Polipnick, Breckenridge  
 Rose Jean Politz, St. Paul  
 William Charles Reichel, Minneapolis  
 Richard Lawrence Renne, Minneapolis, CUM LAUDE  
 Thomas Frank Roberts, Minneapolis  
 Russell James Rogers, A.A., Minneapolis  
 William David Rothausen, Minneapolis  
 Lillian Victoria Rumble, North St. Paul, CUM LAUDE  
 Margaret Hall Russell, St. Paul  
 Norman Elmer Sande, Two Harbors  
 William Evans Sandvig, Minneapolis  
 Marjorie Kathleen Schaefer, St. Paul  
 James Arthur Schneider, Rochester  
 Jean Elizabeth Slinde, St. Paul  
 William Alexander Smith, Minneapolis  
 Kenneth Fieroe Soike, Jr., Minneapolis  
 Betty Fay Sorensen, Minneapolis  
 Joyce Gertrude Stannard, Williston, N. D.  
 Aloysius S. Stauner, Medford, Wis.  
 John Collin Tervo, A.A., Rochester  
 Claire Phoenix Thomes, Minneapolis,  
 MAGNA CUM LAUDE  
 James Orlo Thompson, St. Paul  
 Alan Welton Uhl, St. Paul  
 Barbara Jayne Walker, Duluth  
 Arvella Caroline Wenberg, Donnybrook, N. D.  
 William Charles Woyda, Minneapolis, CUM LAUDE  
 Claryce Luella Wright, Hutchinson  
 James Truman Wylie, Cleburne, Tex.  
 Richard John Yearneau, Minneapolis  
 Norvin LeRoy Youngstrom, Albert Lea  
 Charles Richard Zieske, Walnut Grove  
 Robert Edwin Zink, Minneapolis,  
 MAGNA CUM LAUDE

## Bachelor of Science

Ralph Herman Huebscher, B.A., St. Paul  
 Dorothy Mathy Lee, Minneapolis

## Bachelor of Science in Library Science

Sylvia J. Rutman, St. Paul

# UNIVERSITY COLLEGE

## Bachelor of Arts

Douglas Arthur Elleby, Minneapolis  
Morris Katz, St. Paul

Charles John LaVine, Stillwater  
Merlin Odell Simundson, Minneapolis

## Bachelor of Science

Otto Fred Bernath, St. Paul

Henry Everett Geerdes, Blue Earth

# INSTITUTE OF TECHNOLOGY

## Bachelor of Aeronautical Engineering

David Bishop Benepe, St. Paul, WITH  
DISTINCTION

Franklin Lloyd Darrell, Jr., Minneapolis

Donald William Fenne, Beloit, Wis.,  
WITH HIGH DISTINCTION

Maxine Ruth Glaser, Minneapolis  
Gordon Kermit Gudmestad, Glenwood, WITH DISTINCTION

Heman Jethanand Gursahaney, Poona,  
India

James Richard Hanson, Minneapolis

Stanley Howard Landberg, Minneapolis

Roger Leegard Laskey, Minneapolis  
Donald Glenn Marquette, Minneapolis

Alvin Joseph Mathy, Chisholm

John Miller, Annandale

Claude Bernard Myers, Jr., Fargo,  
N. D., WITH DISTINCTION

James Edward O'Neil, Bloomington

Burt Alfred Rosenberg, Minneapolis

Gerald Fredrick Scheller, Minneapolis

Paul Jerome Schneider, Minneapolis

Donald Kent Slayton, Sparta, Wis.

Virgil Theodore Wiekier, Atwater

George Edward Yale, Deephaven

## Bachelor of Architecture

Sanders Mathews Ackerberg, Minneapolis

John Christ Anderson, Minneapolis

Robert Donald Hanson, Minneapolis

Warren William Kane, Minneapolis

Robert Lloyd Kennedy, Minneapolis

Allan Frank May, Crosby

William Ray Shannon, Jr., St. Paul

Wallace Stanley Steele, Minneapolis

Charles Douglas Wahlberg, Pembina,  
N. D.

Kenneth Russell Whitehead, Minneapolis, WITH DISTINCTION

## Bachelor of Chemical Engineering

Richard Janisch Ambrosen, Winona

Omar Deane Brown, Minneapolis

Howard Kenneth Carnahan, Glenwood

Edward Andrew Charlson, Minneapolis

Henry Sigmund Fraenkel, Buenos  
Aires, Argentina

Clarence August Johannes, Swanville

Joseph Peter Kealy, St. Paul

Joseph William King, Ortonville

Leo Eugene Nagan, Minneapolis

Frank Donald Seibert, Minneapolis

William Boyd Shimer, Chatfield

Robert Scott Wansbrough, Minneapolis, WITH DISTINCTION

## Bachelor of Chemistry

William John Richard, Minneapolis      Reginald Earl Vanstrom, Minneapolis

## Bachelor of Civil Engineering

Wallace Verner Anderson, Minneapolis  
Ralph Waldo Ashland, B.Aero.E., St. Paul  
Richard Peter Campbell, St. Paul  
Kenneth Oscar Dahlgren, Austin  
Stanley Francis Dosh, Minneapolis  
Ralph Seward Dunn, Great Falls, Mont.  
Bernhard Warren Englund, Rochester  
George Howard Johnson, Chicago, Ill.  
Paul Barker Johnson, Cambridge  
Herbert John Koepplinger, St. Paul  
John Gasper Mascioni, Queens Village, N. Y.  
John Joseph Ross, Duluth  
Allen Harvey Stoltzmann, Lake Elmo,  
WITH DISTINCTION  
Melvin Carlo Tero, Mountain Iron  
Roderick Lynn Thompson, Duluth  
George Joseph Tupac, Chisholm

## Bachelor of Electrical Engineering

Gerald Floyd Ansel, Minneapolis  
Roy Thomas Arcand, White Bear Lake  
Kenneth Elvin Aune, Minneapolis  
Orville Louis Bakken, Cooperstown, N. D.  
Byron Chester Behr, Minneapolis,  
WITH DISTINCTION  
Milton Gillbard Bienhoff, South St. Paul, WITH HIGH DISTINCTION  
Gerard W. Bihler, Minneapolis  
Emanuel Jascha Block, Minneapolis,  
WITH DISTINCTION  
William Oliver Bray, Sioux City, Ia.,  
WITH DISTINCTION  
Glenn Edwin Burges, St. Paul  
George William Burke, Duluth  
Harold Martin Busse, Appleton  
David LeRoy Carpenter, Forest Lake  
Stanley Isaac Clothier, Kalispell, Mont.  
Donald Howard Dickerson, Huron, S. D., WITH DISTINCTION  
Allen Edgar Dillonair, Racine, Wis.  
Joseph Francis Dundovic, Duluth,  
WITH DISTINCTION  
Robert Arthur Eller, Minneapolis  
Carl Raymond Erickson, Minneapolis,  
WITH DISTINCTION  
Robert Herman Fischer, Minneapolis  
John James Foreman, A.A., St. Paul  
Donald James Forte, Eveleth  
Eugene Nicholas Friedrichs, B.A., Mankato  
Dallis Ivon Gates, Brainerd  
Bernard William Glynn, Jr., Duluth  
Walter Leighton Guderian, Minneapolis, WITH DISTINCTION  
Irwin Harold Hackner, St. Paul  
Jean Herbert Hanson, Deer River  
Wesley Sulo Harkonen, Cook  
John David Harrington, Lambertton  
Charles Barker Haverstock, Minneapolis  
Howard Edward Hennell, St. Paul  
John Charles Hennessy, Wayzata  
Edgar Ewald Herzog, St. Paul  
Wesley Donald Jensen, Minneapolis  
Duane Edward Johnson, Litchfield,  
WITH DISTINCTION  
Edwin Lester Johnson, Jr., St. Paul  
Gust Efron Johnson, Minnetonka Mills  
Ralph Howard Johnson, St. Paul  
Fred Hayao Kawashima, Bay Center, Wash.  
Emmett Lyle Kendall, Sioux City, Ia.,  
WITH HIGH DISTINCTION  
Richard Joseph Killoren, Minneapolis  
Eugene Walter Kujawa, Owatonna  
Norman Louis Larsen, St. Paul, WITH DISTINCTION

Ellsworth Alvin Larson, Minneapolis  
 James Aloys Lenarz, St. Cloud  
 Thomas Albert Lukasik, Minneapolis  
 Roger Elden Lund, Minneapolis,  
 WITH DISTINCTION  
 Lafey Leander Lundquist, Duluth  
 John Arthur Macker, Jasper  
 Donald Gordon Madden, Lynd  
 Donald Berryman Martin, Glenwood  
 Victor Ottomar Meier, Ormsby  
 Lee Norman Mooers, Grand Rapids  
 George William Nelson, St. Paul  
 Andrew Edmond Nordloef, Minne-  
 apolis  
 Harold George O'Brien, Minneapolis  
 Erich Christ Oemcke, Minneapolis  
 Ernest Hilmerth Olson, Minneapolis  
 Lloyd Russell Parkin, Minneapolis  
 Thomas Young Parrish, St. Paul  
 Douglas Harold Peterson, Coleraine  
 Robert Hilding Peterson, White Bear  
 Lake  
 Robert Charles Reeve, Minneapolis  
 Robert Frederick Reinke, Swanville,  
 WITH HIGH DISTINCTION  
 Robert Carl Reiss, Minneapolis  
 Walter Seaman Rich, St. Paul

Ralph Edgar Rogers, St. Paul, WITH  
 DISTINCTION  
 Donald Mark Rowell, St. Paul  
 John Alex Ruce, Duluth  
 Lawrence Harold Salvail, Minneapolis  
 Gerhardt Louis Sauck, Fairmont  
 Robert Charles Schwantes, St. Paul,  
 WITH DISTINCTION  
 Raymond Clarence Smith, Jr., Minne-  
 apolis, WITH DISTINCTION  
 William Harvey Steckman, Jeffers  
 Jerald Omar Stenoien, Underwood  
 Francis William Stiever, Wabasha  
 Spencer Hunt Stimler, Wayzata  
 Arlon Jerome Svien, Faribault  
 Robert Eugene Talmo, Rochester  
 Eugene Robert Truax, Rochester  
 Constantine Vincent Vensas, Minne-  
 apolis  
 Ralph Leonard Waller, Minneapolis,  
 WITH DISTINCTION  
 Richard Merle Webster, Minneapolis  
 William Charles Wegner, St. Paul  
 Frank Weiss, Minneapolis, WITH DIS-  
 TINATION  
 Melvin Akira Yoshimori, New York,  
 N. Y.

## Bachelor of Mechanical Engineering

Bernard Albertus Ackerson, Minne-  
 apolis  
 Dorance Pershing Alquist, Minne-  
 apolis  
 Karl Clifton Anderson, Litchfield,  
 WITH DISTINCTION  
 George Robert Baumgartner, Duluth  
 Wendell Edward Bergren, Goodhue,  
 WITH HIGH DISTINCTION  
 Everett Eugene Beson, Minneapolis  
 Russell Nevitt Booth, Minneapolis,  
 WITH DISTINCTION  
 Chell Eric Bosson, Stockholm, Swe-  
 den, WITH DISTINCTION  
 Joseph George Brodnicki, Chicago, Ill.  
 John David Buezis, Minneapolis  
 Richard Allen Casey, Minneapolis  
 Robert Arnold Christie, Faribault,  
 WITH DISTINCTION  
 Thomas Allen Delaney, Wappingers  
 Falls, N. Y.

Clarence Michael Dixon, Duluth,  
 WITH HIGH DISTINCTION  
 Richard B. Dunn, Minneapolis  
 Paul Theodore Ebb, Hibbing  
 George Byron Elliott, Jr., Minneapolis  
 Lee Deloss Fullmer, South St. Paul  
 John William Gausman, Morris, WITH  
 DISTINCTION  
 Ross Bennett Hall, Mound  
 Lionel Gerald Haugen, St. Paul  
 Jack A. Huna, St. Paul  
 James Henry Kayser, Minneapolis  
 Donald James Laurie, Glendive, Mont.  
 Kenneth Arthur Linwick, Minneapolis  
 Lars Gunter Ljungkull, St. Paul  
 William Gordon Matheny, Minne-  
 apolis  
 Charles Lauchlin McKenzie, White  
 Bear Lake  
 Donald Morris Moore, Minneapolis  
 Warren John Morgan, Duluth

Richard Stephen Mueller, Minneapolis  
 Robert Waldron Nelson, St. Paul  
 Richard Clyde Olsen, Wayzata  
 Kurt Erling Olson, St. Paul  
 Robert Lee Pepper, St. Cloud  
 Wallace George Pehrson, Minneapolis  
 Richard Warren Peterson, Minneapolis  
 Wilmar Lewis Pochucho, Goodland  
 James Craig Pope, Minneapolis  
 La Vern George Reilly, St. Paul  
 Marion Lester Rensink, Forest City,  
 Iowa

Lysle Bertram Robbins, Paynesville,  
 WITH DISTINCTION  
 Eldon Gaylord Rowberg, Benson  
 Joseph Philip Squillace, Kinney  
 Robert Theodore Steiner, Minneapolis  
 Thomas M. Thomas, St. Paul  
 Glenn Graham Uber, Duluth  
 George Thomas Vaux, Watertown,  
 S. D.  
 Arvid Gayle Waschek, Osseo  
 Richard Thomas Webster, Minneapolis  
 Robert Young Wong, Minneapolis,  
 WITH DISTINCTION

## Bachelor of Metallurgical Engineering

Warren Sarff Hazelton, Minneapolis,  
 WITH DISTINCTION

David Joseph Huch, Minneapolis  
 Roland Dudley Wardell, Minneapolis

## Bachelor of Petroleum Engineering

James William Joyce, Des Moines, Iowa

## Bachelor of Physics

Robert Ellwood Buck, Minneapolis  
 Robert Lewis Carlson, Dawson, WITH  
 DISTINCTION  
 Kenneth Garnier Chapman, Morris-  
 town, N. J., WITH DISTINCTION

Gerard William Elverum, Jr., Minne-  
 apolis  
 Robert Ward Lowen, Minneapolis,  
 WITH HIGH DISTINCTION  
 Thomas Roger Robillard, Duluth,  
 WITH DISTINCTION

## COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

### Bachelor of Science

LeRoy Edwin Angell, Cloquet, Fish  
 and Wildlife Management  
 Richard Dwight Burrell, St. Paul,  
 Forestry  
 Alvin Hubert Christensen, Tyler,  
 Forestry  
 Charles Francis Custer, Jr., A.S., South  
 St. Paul, Agriculture  
 Lois Jean Engfer, St. Paul, Home  
 Economics

Claude Harry Hazelroth, Eveleth,  
 Forestry  
 Riley Donald Konerza, Silver Lake,  
 Agriculture  
 Robert Wesley Kugler, Marshall,  
 Agriculture  
 Glenn Herbert Lund, Minneapolis,  
 Forestry  
 Pearl Ann Mahler, Minneapolis,  
 Home Economics

Howard Wayne Schuler, Union, Ia.,  
Fish and Wildlife Management  
John David Sedgwick, Jr., Minne-  
apolis, Forestry

David Vendell Swenson, Spicer, For-  
estry, WITH DISTINCTION  
Milan Francis Vukelich, Gilbert, Fish  
and Wildlife Management

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

### Bachelor of Science

Cecil Boettcher Femling, Dent, Agri-  
cultural Education

Thomas Henry Jansa, St. Paul, Agri-  
cultural Education

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

### Bachelor of Agricultural Business Administration

Thomas Farr Ellerbe, Jr., St. Paul

## COLLEGE OF EDUCATION

### Bachelor of Science

James Warren Alley, Roseau  
Mildred Joan Bashefkin, St. Paul  
Richard Lambert Becker, A.A., St.  
Paul  
June Evelyn Kannewurf Blais, St.  
Louis Park  
Fedelia Frances Bohmert, Odessa  
Alfhild Julia Brandt, Alexandria  
Armondo Harry Cimaglia, Eveleth  
Norma Ruiz Deppe, Minneapolis,  
WITH DISTINCTION  
Raymond Harold Dolan, Jr., Hastings,  
WITH DISTINCTION  
Ora Irene Donahue, Robbinsdale  
Robert Archibald Efltmann, B.A.  
with honors, Minneapolis  
Themeo George Ellis, Robbinsdale  
Paul Robert Elsen, Minneapolis  
Elizabeth Ann Ernst, Coleraine

Robert Francis Estelle, Stillwater,  
WITH DISTINCTION  
Homer Alva Gilbertson, Roseau  
Therese Gjervik, Madelia  
Alice Marie Goldsworthy, B.A.,  
Minneapolis  
William Harry Grandjean, Hancock  
Wallace Charles Grier, Minneapolis  
Lloyd Francis Hanson, Little Falls  
Martin Junior Hegland, Roseau, WITH  
DISTINCTION  
Catherine Nelson Hoagberg, A.A.,  
Minneapolis  
Rolf Lee Hopkins, St. Paul  
Evelyn Josephine Iekel, Swanville\*  
Warren Alfred Jeffers, Raymond  
Irene Baer Jessen, Hamel  
Maynard Penn Johnson, A.A., Ken-  
mare, N. D., WITH DISTINCTION

\* Nursing Education Curriculum.

Wilfred L. Johnston, Eveleth  
 Melvin J. Kooda, Eagle Bend  
 Edward Anthony Kotnik, Eveleth  
 Evelyn M. Kuehlthau, St. Paul  
 James Wilbur Leckey, Hibbing  
 Marilyn Lenore Leise, Blue Earth  
 Mildred Norris Lenmark, Faribault,  
 WITH DISTINCTION  
 Patricia A. Woodworth Locke, Man-  
 son, Iowa  
 Donald Mackin, St. Paul  
 Raymond James Madsen, Ruthton,  
 WITH DISTINCTION  
 Clifford Lorraine Matteson, Jr., A.A.,  
 Minneapolis  
 Prudence Purdy McCarthy, B.A.,  
 Minneapolis  
 Marilyn Joan Nelson, Minneapolis  
 Jerold Tunis Neseth, Kasson  
 Helen Hildegard Olson, Red Wing  
 Ernest Eugene Peterson, St. Paul  
 Phyllis Marie Peterson, St. Paul  
 James Gordon Randall, Minneapolis,  
 WITH DISTINCTION  
 Anna Miller Colson Raymond, Heb-  
 ron, Neb.

Robert Carl Russell, Kensington,  
 WITH DISTINCTION  
 Joyce Barnard Ruth, Minneapolis,  
 WITH DISTINCTION  
 Esther Amanda Sahl, Minneapolis,  
 WITH DISTINCTION  
 Robert A. Shannon, Minneapolis  
 Oral Arnold Solbro, Murdock  
 Joan Saarela Strand, Minneapolis  
 Julia Mattson Strand, Minneapolis  
 Constance Husted Strayer, R.N., Pal-  
 metto, Fla., WITH HIGH DISTINC-  
 TION\*  
 Walter Reed Stroud, Minneapolis  
 Robert Douglas Swanson, Minneapolis  
 Allen Thiemich, Minneapolis  
 Ethel Mae Thompson, Minneapolis  
 Robert Nelson Timpfe, Excelsior  
 John Elwood Voss, Echo  
 Doris Elaine Wall, R.N., New Lon-  
 don\*  
 Joyce Williams, Minneapolis  
 Harold Joseph Younghans, St. Paul  
 Donald Fred Zaspel, North St. Paul

## Master of Education

Martha O. Boe, B.A., Minneapolis  
 Agnes Barbara Bratlee, B.S., Leeds,  
 N. D.  
 Ralph Joseph Engebretson, B.S., St.  
 Paul  
 Roger Eugene Gottry, B.A., Pine City  
 Elizabeth J. Indihar, B.S., Gilbert

Reuben John Johnson, B.Mus.Ed.,  
 Minneapolis  
 Robert Kenneth Jones, B.S., Eveleth  
 Margaret Niven Space, B.S., M.Mus.,  
 Minneapolis  
 Oscar C. Trooien, B.S., St. Paul  
 Loy Wayne Young, B.S., Mankato

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Howard Paul Akenson, Minneapolis  
 Harry Robert Anderson, Minneapolis  
 Melvin Carl Anderson, St. Paul  
 Harold Arenson, St. Paul  
 Dale Forrest Benson, Minneapolis  
 John S. Biersdorf, Owatonna  
 Max Bix, Minneapolis

William James Carter, Lake City  
 Lois Leonard Cash, Minneapolis  
 Robert Arnold Christie, Faribault,  
 WITH DISTINCTION  
 Richard Henry Comer, Excelsior  
 Kenneth Leland Dean, Hopkins  
 Leo Thomas DiGiammatteo, St. Paul

\* Nursing Education Curriculum.



Lewis Joseph Dingmann, St. Cloud  
 John Robert Duxbury, Eau Claire,  
 Wis.  
 Edward Myles Dworsky, International  
 Falls  
 George LeRoy Eastling, Jr., Minne-  
 apolis  
 Harvard Dea Elverum, Minneapolis  
 Kenneth Eugene Erickson, Minne-  
 apolis  
 Robert Louis Fischer, Winona  
 Robert Tilfred Fremming, Fairmont  
 Marilyn Helen Frohnauer, Minne-  
 apolis, WITH DISTINCTION  
 Robert Henry Froseth, Minneapolis  
 Samuel Garber, St. Paul  
 Frank Eugene Gilles, Minneapolis  
 John Wallace Granath, Dassel  
 Kenneth Ray Haas, Minneapolis  
 Eugene Edward Hammes, Wabeno,  
 Wis.  
 Howard John Hammes, Wabeno,  
 Wis.  
 Minoru Hayashi, Tacoma, Wash.  
 Charles Emerson Heintz, Jr., Rock-  
 ville, Conn.  
 Ross Lamont Held, Red Wing  
 Constance Pauline Hoitomt, Minne-  
 apolis, WITH DISTINCTION  
 Paul Leborius Husting, Hastings  
 Fred Berhardt Iverson, Faribault  
 Maurice Stanley Iverson, B.M.E.,  
 Valley City, N. D.  
 Jack Warren Jacobson, Minneapolis  
 Paul Fredrick Johnson, Carney,  
 Mich.  
 Richard Charles Jones, West Concord  
 Harvey Gerald Kadesky, St. Paul  
 Josephine Kaproth, Foley  
 Leon Roger Kegley, St. Paul  
 William Harold Kenneth, Jr., Minne-  
 apolis  
 William Francis Kerrigan, New York,  
 N. Y.  
 James Cecil Keyes, Minneapolis  
 Robert Errol Lambert, Minot, N. D.  
 Arthur Lee Langendorf, Minneapolis  
 Donald James Laurie, Billings, Mont.  
 Hazel Iola Lockrem, Northfield  
 Henry Theodore Lund, Jr., Amery,  
 Wis.

Dennis Ervin Maher, Appleton  
 Robert Emmett Marlow, Minneapolis  
 Frank Joseph McCarthy, Faribault  
 Yale Marvin Medalie, Minneapolis  
 Marvin Otis Merrill, Tracy  
 Carl John Meyer, West St. Paul  
 Stephen Keith Mikulak, Minneapolis  
 Glenn Albert Monti, Genoa, Wis.  
 Merle Ellsworth Nelson, Minneapolis  
 Vernon Henry Osell, Brainerd  
 John William Paine, Brainerd  
 Richard Dean Pankonin, Minneapolis  
 Elvin LeRoy Peterson, Minneapolis,  
 WITH HIGH DISTINCTION  
 Francis Daniel Powers, Minneapolis  
 Lloyd Earl Proudlove, Phoenix, Ariz.  
 Herbert Bacon Putnam, St. Paul  
 Harvey Bernard Ratner, Minneapolis  
 Robert Carl Reiss, Minneapolis  
 Marvin Clifford Ring, Ihlen, WITH  
 DISTINCTION  
 Floyd Joel Gordon Rodmyre, Hector  
 Gerald Michael Ryan, Minneapolis  
 Thomas James Sheehan III, A.L.A.,  
 Minneapolis  
 Robert Wayne Sherman, Palisade  
 Arnold Nordahl Silness, B.A., M.A.,  
 Minneapolis, WITH DISTINCTION  
 John Martin Skowronski, Minneapolis  
 Ronald Lorne Sonmore, Minneapolis  
 Charles Francis Spanel, Eau Claire,  
 Wis.  
 Frank Matt Srdar, B.S., Duluth  
 Norman Martin Steck, Hutchinson  
 Marcel Ray Takata, Parlier, Cal.  
 Laurence Malvern Thorsheim, B.E.E.,  
 Thompson, Iowa  
 James Gerald Tierney, St. Paul  
 Caryl Emory Twitchell, Jr., Owatonna  
 Tracy Ferris Tyler, Jr., St. Paul  
 Gilbert William James Urban, Silver  
 Lake  
 August Vernon Vattendahl, St. Paul  
 Calvin Dale Wahlstrom, Minneapolis  
 Paul William Wilke, Jr., Los Angeles,  
 Cal.  
 Donald Eugene Willcoxon, St. Paul  
 James Marshall Zoller, Minneapolis,  
 WITH DISTINCTION

## Bachelor of Science in Economics

Ralph Lowell Nelson, Jamaica, N. Y., Joseph Francis Stejskal, Minneapolis  
WITH HIGH DISTINCTION

## COLLEGE OF PHARMACY

### Bachelor of Science in Pharmacy

Dorothy Angeles, Minneapolis  
Melvin Morris Chargo, St. Paul

George Henry Halenbeck, Duluth  
James Edward Marsh, Winona

## LAW SCHOOL

### Bachelor of Science in Law

John Francis Casey, Minneapolis  
John C. De Moss, Minneapolis  
Joseph Edward Dillon, St. Paul

John O. Erickson, Minneapolis  
Robert Wayne Garrity, Minneapolis  
William Joseph Young, Minneapolis

### Bachelor of Laws

Donald Ernest Anderson, B.S.L.,  
Duluth  
Laurence Francis Armstrong, B.S.L.,  
Minneapolis  
William Alexander Bierman, B.S.L.,  
St. Paul  
Melvin Charles Blanchard, B.S.L.,  
Alexandria  
William Austin Braddock, B.E.E.,  
Minneapolis  
Salvatore Sam Cecere, B.S.L., Minne-  
apolis  
Carl Donald Cost, B.A., Riverside,  
Cal.  
Donald B. Crassweller, B.S.L., Duluth  
John C. De Moss, Minneapolis  
Joseph Edward Dillon, St. Paul  
Neil Colin Duffy, B.B.A., Coopers-  
town, N. D.  
Robert Arnold Dworsky, B.S.L.,  
Minneapolis  
Eugene John Farrell, B.A., Baudette  
Leo Thomas Foley, B.S.L., Minne-  
apolis  
Robert Ames Forsythe, B.A., Minne-  
apolis  
Robert Charles Gove, B.S.L., St. Paul

Sydney Arthur Gross, B.S.L., St.  
Cloud  
Emanuel Gyler, B.S.L., St. Paul  
Howard Andrew Hansen, St. Paul  
Kingsley David Holman, B.S.L.,  
Minneapolis  
Harvey Alfred Holtan, B.S.L., Zum-  
brota  
Robert George Johnson, B.S.L.,  
Hector  
Robert Warren Johnson, B.S.L.,  
B.B.A., St. Paul  
Warren Henry Johnson, B.S.L.,  
Minneapolis  
John Andrew Knutson, B.S.L., Minne-  
apolis  
John George Kressel, B.S.L., Minne-  
apolis  
Walter William Laidlaw, B.S.L.,  
Minneapolis  
H. Clifford Lee, B.S.L., Granite Falls  
Herman Levin, B.S.L., Marengo, Ill.  
Charles Costello Luetke, B.S.L.,  
Minneapolis  
David Roger Milton, B.S. cum laude,  
St. Paul

Eugene Minenko, B.S.L., Minne-  
apolis  
Warren Ardell Nelson, B.S.L., Lake  
Mills, Iowa.  
Royal Cortlandt Ornstein, B.S.L., St.  
Paul  
Norman Perl, B.S.L., Minneapolis  
Robert Rueben Pflueger, B.S., Orton-  
ville  
William Laney Phillips, B.A., Minne-  
apolis

Edgar Daniel Price, B.S.L., St. Paul  
Dean Donald Ramstad, B.A., St. Paul  
Lauren Ashley Smith, B.S.L., Clinton,  
Iowa  
John Allan Spellacy, B.S.L., Grand  
Rapids  
Howard Stanley Spencer, Jr., B.S.L.,  
St. Paul  
Benjamin Vanderkooi, B.S.L., Edger-  
ton

## Master of Laws

Kenneth M. Anderson, B.A., LL.B., Belmond, Iowa

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science

*Coralie Jean Hamilton Borning, R.N.,  
Garfield Heights, Ohio, Public  
Health Nursing, WITH DISTINCTION*  
June Alice Genkinger, Union, N. J.,  
Public Health Nursing  
Betty Jane Harvey, B.A., Sioux Falls,  
S. D., Medical Technology\*  
Ruth M. Hutchinson, San Francisco,  
Cal., Public Health Nursing  
Jeanette Mathilda Kennaugh, Van-  
couver, Wash., Public Health Nurs-  
ing

Grace Kathryn Klingberg, Racine,  
Wis., Public Health Nursing  
Rosella Mary Rubel, G.N., Madelia,  
Public Health Nursing  
Anne Lenore Scanlan, St. Paul, Public  
Health Nursing  
Elizabeth Verna Soderling, R.N.,  
Willmar, Public Health Nursing  
Irene Geraldine Schueth Tervo, Min-  
neapolis, Public Health Nursing

### Master of Public Health

Helene Jeanne Lieb, B.S., G.N., Min-  
neapolis

Gladys Mildred Schuerman, B.S.,  
Denver, Colo.

## GRADUATE SCHOOL

### Master of Arts

Warren Kendall Agee, Fort Worth,  
Texas  
B.A. '37, Texas Christian University. Major:  
Journalism. Minor: History. Thesis: A Study of  
Cross-channel Ownership of Communications  
Media.

Melvin Eugene Allerhand, Bronx,  
New York  
B.S. '46, Allegheny College. Field of Concen-  
tration: Psychology.

\* This degree is conferred subject to satisfactory completion of required practical work prior to December 15, 1949.

Richard Jerome Ames, St. Paul  
B.A. '45, University of Notre Dame. Field of  
Concentration: English.

Donald Russel Anderson, South St.  
Paul  
B.S. '42, University of Minnesota. Field of  
Concentration: Speech.

Raymond Vernon Anderson, New-  
folden  
B.S. '46, Moorhead State Teachers College.  
Field of Concentration: Political Science.

Louis William Balcziaik, Duluth  
B.S. '40, Duluth State Teachers College. Field  
of Concentration: Educational Psychology.

Merry Colleen Barr, Wells  
B.S. with distinction '44, University of Minne-  
sota. Field of Concentration: Educational  
Psychology.

Marshall Owen Becker, Seattle, Wash.  
B.A. '40, University of Washington. Field of  
Concentration: Psychology.

Izora Margaret Bement, Minneapolis  
B.S. with distinction '28, University of Minne-  
sota. Field of Concentration: Curriculum and  
Instruction.

Harry Benenson, Minneapolis  
B.S. '48, University of Minnesota. Field of  
Concentration: Statistics.

Gerald Philip Benson, Minneapolis  
B.A. '39, Augsburg College. Field of Con-  
centration: Educational Psychology.

Robert Leonard Berggren, Hastings  
B.A. '47, University of Minnesota. Field of  
Concentration: Mathematics.

Bernice Elinor Bergstrom, Big Lake  
B.S. '48, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Mary Haywood Blackburn, High  
Point, N. C.  
B.S. '41, Winston-Salem Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

James Ray Bowman, Knoxville, Ill.  
B.A. *magna cum laude* '48, Knox College.  
Field of Concentration: American Studies.

Donald Maxim Brill, Elk Mound,  
Wis.  
B.S. '47, The Stout Institute. Field of Con-  
centration: Industrial Education.

Francis Embury Brown, Taconite  
B.S. '40, Bemidji State Teachers College.  
Field of Concentration: Industrial Education.

Robert Harold Brown, East Rochester,  
N. Y.  
B.S. '48, University of Minnesota. Field of  
Concentration: Education.

Stanley Clinton Campbell, Minne-  
apolis  
B.S. '47, University of Minnesota. Field of  
Concentration: History.

Carl Raymond Carlson, Minneapolis  
B.S. *magna cum laude* '42, Hamline University.  
Field of Concentration: Educational Adminis-  
tration.

Jack Grant Carlson, Glenwood  
B.S. '41, Mankato State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Vincent Carlyle Carlson, Minneapolis  
B.S. with distinction '47, University of Minne-  
sota. Field of Concentration: Educational  
Psychology.

Graciela Carrillo, San Jose, Costa Rica  
B.A. '30, University of Costa Rica. Field of  
Concentration: Spanish.

Evelynne Cedarlund, Minneapolis  
B.S. '45, University of Minnesota. Field of  
Concentration: Home Economics.

Joyce Elaine Chapman, Minneapolis  
B.A. *magna cum laude* '47, University of  
Minnesota. Field of Concentration: Area  
Study: Far East.

Frances Mary Coakley, St. Paul  
B.S. '36, University of Minnesota. Field of  
Concentration: Educational Psychology.

Ailene Hileve Cole, St. Peter  
B.A. *summa cum laude* '36, Gustavus Adolphus  
College. Major: Speech. Minor: English.  
Thesis: The Aims and Techniques of Choral  
Reading.

Kathleen Joyce Collins, Eveleth  
B.F.A. '47, State University of Iowa. Field of  
Concentration: Speech.

Eleanor Allman Conant, St. Paul  
B.S. '23, University of Minnesota. Field of  
Concentration: Educational Psychology.

Audrey R. Crawford, Duluth  
B.S. '41, Mankato State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Marguerite Helen Cuddy, Mankato  
B.S. with distinction '44, University of Minne-  
sota. Field of Concentration: Psychology.

Jean Espe Cummins, St. Paul  
B.A. '45, Carleton College. Field of Concen-  
tration: Social Work.

Fred McKinley Curtis, Minneapolis  
B.S. '26, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Gordon Lewis Deegan, Mankato  
B.A. '46, Macalester College. Field of Con-  
centration: Political Science.

Mervin Carl Dillner, Minneapolis  
B.S. '34, University of Minnesota. Field of  
Concentration: Educational Psychology.

Joseph Francis Dunn, Swissvale, Pa.  
B.S. '40, University of Pittsburgh. Field of  
Concentration: Economics.

Marguerite Martha Ekren, Minne-  
apolis  
B.S. '44, University of Minnesota. Field of  
Concentration: Education.

Annabel Johnson Engelman, Minne-  
apolis  
B.A. magna cum laude '47, University of  
Minnesota. Field of Concentration: Social  
Work.

Obert Evenson, Minneapolis  
B.E. '31, Eau Claire State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Genevieve Berge Fagerstrom, St. Paul  
B.A. '46, University of Wisconsin. Field of  
Concentration: Social Work.

William Henry Featherstone, St. Paul  
B.A. '43, Hamline University. Field of Concen-  
tration: Music.

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

Wayne Henry Flamme, Antigo, Wis.  
B.S. '43, Platteville State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Wallace Sheeran Ford, Minneapolis  
B.S. '47, University of Minnesota. Field of  
Concentration: Political Science.

LaVerne Jay Frink, Aberdeen, S. D.  
B.S. '30, Northern Normal and Industrial  
School. Field of Concentration: Educational  
Administration.

John Tapley Garrett, St. Paul  
B.A. '42, Carleton College. Field of Concen-  
tration: International Relations.

Robert Fredric Gee, Maryville, Mo.  
B.A. '41, University of Minnesota. Major:  
Speech. Minor: English. Thesis: The History  
of Theater at the University of Minnesota  
from Its Beginning to 1937.

Walter John Gohman, Cannon Falls  
B.E. '33, St. Cloud State Teachers College.  
Field of Concentration: Education.

Clifford Albert Gritz, Chaska  
B.S. with distinction '41, University of  
Minnesota. Field of Concentration: Educa-  
tional Psychology.

John Edward Hafstrom, Minneapolis  
B.S. '36, North Dakota Agricultural College.  
Field of Concentration: Mathematics.

Peter George Haines, Minneapolis  
B.S. '48, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Louise Bream Hartzell, Gettysburg,  
Pa.  
B.A. '35, Susquehanna University. Field of  
Concentration: American Studies.

Ramon Paul Heimerl, Minneapolis  
B.E. '38, B.S. '46, St. Cloud State Teachers  
College. Field of Concentration: Curriculum  
and Instruction.

Russell LeRoy Hersch, Cambridge  
B.A. '39, Iowa State Teachers College. Field  
of Concentration: Educational Administration.

Martha Hesby, Utica  
B.S. '43, Winona State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Elizabeth Frankforter Hewitt, Minne-  
apolis  
B.S. '42, University of Minnesota. Field of  
Concentration: Social Work.

Allen Woodruff Higgins, Bemidji  
B.S. '48, Bemidji State Teachers College. Field  
of Concentration: American Studies.

Harlan Keith Holman, Norway, Maine  
B.S. '38, United States Military Academy.  
Field of Concentration: Economics.

Holger Emanuel Holmen, Comfrey  
B.A. '39, Gustavus Adolphus College. Field  
of Concentration: Industrial Education.

Gordon Emil Holmgren, Grantsburg,  
Wis.  
B.S. '44, River Falls State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Stanley Evers Jacobs, Evanston, Ill.  
B.S. '36, Northwestern University. Field of  
Concentration: Psychology.

George Philip Johnson, Villard  
B.S. '48, University of Minnesota. Field of  
Concentration: Mathematics.

Karol Ann Kaiser, Willmar  
B.A. '47, University of Minnesota. Major:  
Educational Psychology. Minor: Education.  
Thesis: Vocational Guidance of Youth in  
England. A Survey Description of the Voca-  
tional Guidance of Youth in England with  
Special Regard to Secondary School Leavers.

Betty Jane Keller, St. Cloud  
B.E. '35, St. Cloud State Teachers College.  
Field of Concentration: Education.

Frances Marie Kidd, Minneapolis  
B.S. '42, La Crosse State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Edith Irene Kissock, Fort Collins,  
Colo.  
B.A. '47, University of Colorado. Field of  
Concentration: American Studies.

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

John Roland Kufus, Arlington  
B.A. '47, Hamline University. Field of Con-  
centration: Educational Administration.

Lowell Bruce Laingen, Butterfield  
B.A. '47, St. Olaf College. Field of Concen-  
tration: International Relations.

Rita Cheng Lam, Canton, China  
B.A. '33, Lingnan University. Field of Con-  
centration: Education.

William Philip Lebra, St. Paul  
B.A. '48, University of Minnesota. Field of  
Concentration: Area Studies: Far East.

Harold Thomas Lehto, St. Paul  
B.S. '40, St. Cloud State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Ina Emelia Leland, Riverside, Ill.  
B.A. '34, Mayville State Teachers College;  
B.S. '39, University of Illinois. Field of Con-  
centration: Curriculum and Instruction.

Clara Harriet Lloyd, Houston, Tex.  
B.A. '43, Kent State University; B.E. '45,  
National College of Education. Major: Child  
Welfare. Minor: Speech Pathology. Thesis:  
The Relationship between Speech Articulation  
and Motor Skills.

Norman Murchison Grusky Locksley,  
San Antonio, Tex.  
B.S. '37, North Texas State Teachers College.  
Field of Concentration: Economics.

Rubel Joseph Lucero, Taos, N. M.  
B.A. '48, University of Wisconsin. Field of  
Concentration: Psychology.

Arthur Louis Ludvigson, Eau Claire,  
Wis.  
B.S. '40, Eau Claire State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Ilene Rose Lynch, Minneapolis  
B.S. '28, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Maurice Wesley Manbeck, Minne-  
apolis  
B.S. '40, Hamline University. Field of Con-  
centration: Educational Psychology.

Audrey Olson Marsh, Minneapolis  
B.S. '37, University of Minnesota. Field of  
Concentration: Child Welfare.

Wesley Clyde Maurer, Lake Neba-  
gamon, Wis.  
B.S. '42, Milwaukee State Teachers College.  
Field of Concentration: Education.

Gladys Florene McCollum, Keokuk,  
Iowa  
B.A. '41, Iowa State Teachers College. Field  
of Concentration: Educational Psychology.

Nancy Ellen McCurdy, Syracuse,  
N. Y.  
B.A. '48, Oberlin College. Field of Concen-  
tration: Psychology.

Rudolph F. Meehan, Ellsworth, Wis.  
B.S. '47, River Falls State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Virginia Montgomery, Faribault  
B.S. with distinction '47, University of Minne-  
sota. Field of Concentration: Educational  
Psychology.

Richard Raymond Mulkern, Minne-  
apolis  
B.S. with distinction '48, University of Min-  
nesota. Field of Concentration: Physical Edu-  
cation.

Neil John Niemi, Minneapolis  
B.A. '43, University of Saskatchewan. Field of  
Concentration: Physics.

Dean Richard Nordell, Cambridge  
B.S. with distinction '42, University of Min-  
nesota. Field of Concentration: Industrial  
Education.

Myrtle Louise Nyberg, Siren, Wis.  
B.S. '44, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

James Rodney Gilbert Olson, Minne-  
apolis  
B.B.A. '48, University of Minnesota. Field of  
Concentration: Economics.

Anthony James Pahula, Soudan  
B.S. '47, University of Minnesota. Field of  
Concentration: Educational Administration.

Norman F. Panzenhagen, Cadott,  
Wis.  
B.E. '34, River Falls State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Stanley Fay Paulson, Minneapolis  
B.A. '44, University of Minnesota. Major:  
Speech. Minor: Psychology. Thesis: Changes  
in Confidence During a Period of Speech  
Training: Transfer of Training and Compari-  
son of Improved and Non-improved Groups on  
the Bell Adjustment Inventory.

Pehr Hugo Pehrsson, Minneapolis  
B.S. '47, Marquette University. Major: Eco-  
nomics. Minor: Philosophy. Thesis: The Eco-  
nomic Effects of Death Duties.

Donald Gordon Peterson, Minneapolis  
B.S. with distinction '46, University of Minne-  
sota. Field of Concentration: Educational Ad-  
ministration.

Gail Phenev, Omaha, Neb.  
B.A. *cum laude* '48, University of Omaha.  
Field of Concentration: Psychology.

Robert Francis Pink, Superior, Wis.  
B.S. '47, Superior State Teachers College.  
Field of Concentration: Educational Psy-  
chology.

Martha Sturtevant Reed, Washington,  
D. C.  
B.A. *summa cum laude* '46, Wheaton Col-  
lege. Field of Concentration: History.

Clifford Joseph Robson, Winnipeg,  
Canada  
B.A. '39, University of Manitoba. Field of  
Concentration: Educational Psychology.

Parley H. C. Rogers, Pine River  
B.S. '39, University of Omaha. Field of Con-  
centration: Educational Administration.

Teresa Romano, Hopkins  
B.A. '29, College of St. Scholastica. Field of  
Concentration: French.

Wilbert Henry Rosin, Concordia, Mo.  
B.A. '44, B.D. '47, Concordia Seminary. Field  
of Concentration: History.

Alvin Richard Salmela, Nicollet  
B.S. '43, Duluth State Teachers College. Field  
of Concentration: Educational Administration.

George Leonard Sandvig, Richmond,  
Va.  
B.S. '31, The Stout Institute. Field of Con-  
centration: Industrial Education.

Eileen Alice Schrader, Dundas  
B.A. *magna cum laude* '47, St. Olaf College.  
Field of Concentration: Spanish.

John Thomas Schwartz, Marinette,  
Wis.  
B.B.A. '43, University of Minnesota. Major:  
Business Administration. Minor: Philosophy.  
Thesis: Competition and Combination in the  
Production and Marketing of Raw Sulfur in  
the United States.

Edna Marie Shideler, Valparaiso, Ind.  
B.S. '42, Indiana University. Field of Concentration: Home Economics Education.

Tosten Sinclair Quill Skaaland, Monticello

B.A. '38, Luther College. Field of Concentration: Educational Administration.

Daniel Milton Slocum, Monango,  
N. D.

B.S. '41, Ellendale State Normal and Industrial College. Field of Concentration: Industrial Education.

Carlyle Melvin Smestad, Swanville  
B.B.A. '48, University of Minnesota. Field of Concentration: Economics.

Chester Ansker Sorensen, Alden  
B.S. '40, Hamline University. Field of Concentration: Educational Administration.

Robert John Stark, Harris  
B.A. '39, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Kenneth Frederick Stillwell, St. Paul  
B.S. '35, University of Minnesota. Field of Concentration: Educational Administration.

Dorothy Kimball Stoner, Manhattan,  
Mont.

B.A. with honors '47, Montana State University. Field of Concentration: Educational Psychology.

William Gerald Stoner, Manhattan,  
Mont.

B.A. '48, Montana State University. Field of Concentration: Educational Psychology.

Barbara Junette Sward, Chicago, Ill.  
B.A. '48, DePauw University. Field of Concentration: Child Welfare.

Arnold Ingvald Temte, Minneapolis  
B.A. '39, Luther College. Field of Concentration: Mathematics.

Lorraine Johnson Thompson, St. Paul  
B.A. *magna cum laude* '48, University of Minnesota. Field of Concentration: Psychology.

Robert Alan Tinkham, Minneapolis  
B.E. '39, Mankato State Teachers College. Field of Concentration: Industrial Education.

Oscar Eugene Torkelson, Cicero, Ind.  
B.A. '44, Union College. Field of Concentration: Educational Administration.

Eunice Jane Toussaint, West Allis,  
Wis.

B.A. *cum laude* '41, Lawrence College. Major: Political Science. Minor: History. Thesis: The Minnesota Presidential Preference Primary, 1913-1917.

Gordon Stuart Tulloch, Duluth  
B.S. '48, University of Minnesota. Field of Concentration: Physical Education.

Lyndon Wayne Ulrich, Bellingham  
B.A. '38, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Victor Lind Ursin, Bemidji  
B.S. '48, University of Minnesota. Field of Concentration: Industrial Education.

John Howard Warford, Bemidji  
B.S. '43, Bemidji State Teachers College. Field of Concentration: Industrial Education.

Henry Charles Webb, Minneapolis  
B.S. '48, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Luverne Arthur Wedell, Ellendale,  
N. D.

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

Merle Anita Weidner, Minneapolis  
B.A. '38, Hamline University; B.S. '45, Bemidji State Teachers College. Field of Concentration: Curriculum and Instruction.

Gerald O. Wendt, Morgan  
B.B.A. '48, University of Minnesota. Field of Concentration: Business Administration.

Otto Louis Wille, St. Paul  
B.A. '47, University of Minnesota. Field of Concentration: Art.

Ernest William Winter, Belgrade  
B.E. '34, Winona State Teachers College. Field of Concentration: Educational Administration.

Norman Earl Wollitz, Minneapolis  
B.S. '48, University of Minnesota. Field of Concentration: Educational Administration.

Mildred Thompson Yohe, Minneapolis  
B.A. '32, Carleton College. Major: Music. Minor: French. Thesis: Moses, an Oratorio for Mixed Choir with Soprano, Contralto, Tenor, Baritone, and Bass Soli, and Organ Accompaniment.



Robert Allen Young, Falfurrias, Tex.  
B.S. '45, Georgetown University. Major: Political Science. Minor: Economics. Thesis: The Development of the Prevention of International Double Taxation in the Americas.

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

Stephen Thomas Zimmerman, Robbinsdale

B.S. '29, University of Minnesota. Field of Concentration: Curriculum and Instruction.

## Master of Arts in Public Administration

Wilton Harry Dickerson, Holland  
B.A. '48, University of Minnesota. Field of Concentration: Public Administration.

Charles Paul Miller, Pittsburgh, Pa.  
B.A. '47, Pennsylvania State College. Field of Concentration: Public Administration.

Richard William Slocum, St. Paul  
B.A. cum laude '48, Hamline University. Field of Concentration: Public Administration.

## Master of Business Administration

William Richard Busch, St. Paul  
B.S. in Law '47, University of Minnesota. Field of Concentration: Business Administration.

Audun Rudolf Fredriksen, Bergen, Norway

B.Chem.E. '48, University of Minnesota. Field of Concentration: Business Administration.

Wallace Oscar Dahl, Hinckley  
B.B.A. '47, University of Minnesota. Field of Concentration: Economics.

Roland Frank Salmonson, St. Paul  
B.B.A. '48, University of Minnesota. Field of Concentration: Business Administration.

## Master of Science

James Howitt Anderson, Cupertino, Cal.  
B.Met.E. '43, University of Minnesota. Major: Metallography. Minor: Industrial Engineering. Thesis: Impact Testing of Cast Iron.

James Fulton Kenny Duff, Winnipeg, Canada

B.Sc. '43, University of Manitoba. Field of Concentration: Physics.

Vernon Spencer Bolin, Minneapolis  
B.S. '42, University of Washington. Major: Bacteriology. Minor: Anatomy. Thesis: The Influence of Herpetic Antibodies of Human Origin on Herpetic Infections of the Central Nervous System of Young Mice.

Jules Georges Du Pre Werson, Liege, Belgium

Mech.Eng. with distinction '47, University of Liege. Major: Metallography. Minor: Mechanical Engineering. Thesis: Electrolytic Copper-plating of 18-8 Stainless Steel.

Phyllis Fennema Cummings, Long Beach, Cal.  
B.A. '46, Pomona College. Field of Concentration: Analytical Chemistry.

George Claggett Francis, Kingsville, Tex.

B.S. '45, University of Minnesota. Field of Concentration: Physics.

Wilmer Beldon Dockstader, St. Ansgar, Iowa  
B.S. '41, Iowa State College. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: A Study of Grinding Techniques for Bacterial Cells.

David W. French, Robbinsdale

B.S. with distinction '43, University of Minnesota. Major: Forestry. Minor: Plant Pathology. Thesis: The Synergistic Relationship of Pentachlorophenol, Copper Naphthenate, and Phenyl Mercury Oleate.

Robert Warren Hanson, Bemidji  
B.A. '48, Bemidji State Teachers College.  
Field of Concentration: Inorganic Chemistry.

Francis John Haugh, Menomonie,  
Wis.  
B.E. '37, River Falls State Teachers College.  
Field of Concentration: Agricultural Education.

Brita E. I. Hok, Stockholm, Sweden  
M.A. '46, University of Uppsala. Major:  
Analytical Chemistry. Minor: Physical Chemistry. Thesis: Photometric Determination of Zirconium.

Robert Lee Hurst, St. Louis, Mo.  
B.S. '48, Tennessee Agricultural and Industrial State Teachers College. Field of Concentration: Agricultural Economics.

Edgar Gustav Johnson, St. Paul  
B.S. *magna cum laude* '47, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: An Investigation of the Angular Aberrations in a Double Focusing Mass Spectrometer.

Raymond Leonard Johnson, Minneapolis  
B.Ch.E. '41, University of Minnesota. Major: Metallography. Minor: Mechanical Engineering. Thesis: The Effect of Some Corrosion Inhibitors on Hydrogen Embrittlement as a Result of Acid Pickling High Carbon Spring Steel (Music Wire).

Charles Kinsey, Jr., Minneapolis  
B.S. '40, Bowdoin College. Major: Soils. Minor: Agronomy. Thesis: Fertilizer Trials with Oats on Milaca Very Fine Sandy Loam.

Berthus Boston McInteer, Jr., Lexington, Ky.  
B.S. '41, University of Kentucky. Major: Physics. Minor: Physical Chemistry. Thesis: The Separation of He<sup>3</sup> by Thermal Diffusion.

James Algert Peterson, Minneapolis  
B.S. '48, St. Louis University. Field of Concentration: Geology.

Tsui-Ying Lee Pu, Canton, China  
B.S. '35, National Sun Yat-sen University. Major: Entomology. Minor: Botany. Thesis: A Histological Study of the Vagina of *Drosophila Giberrosa* Patterson and Mainland after Natural and Artificial Insemination with Special Reference to the Reaction of Vaginal Epithelium.

Jose Modesto Rodriguez, Caguas,  
Puerto Rico  
B.S. with high honors '43, University of Puerto Rico. Field of Concentration: Analytical Chemistry.

Barteld Richard Siebring, Brewster  
B.A. '47, Macalester College; B.S. '48, University of Minnesota. Field of Concentration: Inorganic Chemistry.

Donald Zane Silver, St. Louis Park  
B.A. '47, University of Minnesota. Major: Bacteriology. Minor: Physiological Chemistry. Thesis: A Study of the Anaphylactic Properties of the Influenza Virus.

Byron Davies Smith, Minneapolis  
B.Ch.E. '44, University of Minnesota. Major: Mathematics and Mechanics. Minor: Chemical Engineering. Thesis: The Fundamental Properties of the Laplace Transform and its Application to Certain Problems in Chemical Engineering.

Alexander Swantz, Asotin, Wash.  
B.S. with honors '41, The State College of Washington. Field of Concentration: Agricultural Economics.

Donald Gilmore Thompson, Brookings, S. D.  
B.S. '39, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Agronomy.

James Edward Williams, Jackson,  
Tenn.  
D.V.M. '46, Alabama Polytechnic Institute. Major: Veterinary Medicine. Minor: Bacteriology. Thesis: The Nature and Incidence of Variant Pullorum in Minnesota.

## Master of Science in Aeronautical Engineering

James Joseph Coyle, Philadelphia, Pa.  
B.S. '40, United States Naval Academy. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Air Inlets for Turbojet Engines through the Transonic Speed Range.

Louis Frank Heilig, Minneapolis  
B.Aero.E. with high distinction '48, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Donald LeRoy Irgens, Cooperstown,  
N. D.

B.S. '40, North Dakota Agricultural College.  
Major: Aeronautical Engineering (Structures).  
Minor: Aeronautical Engineering (Aerody-  
namics). Thesis: Analysis of a Double Skin  
and Corrugated Thin Flat Plate.

Edward Beverly Johnson, Jr., St.  
Louis, Mo.

Missouri School of Mines and Metallurgy and  
the United States Naval Academy. Major:  
Aeronautical Engineering (Structures). Minor:  
Aeronautical Engineering (Aerodynamics).  
Thesis: A Circular Sandwich Plate, Trans-  
versely Loaded.

Frank Percy Nelson, Minneapolis

B.Aero.E. '48, University of Minnesota. Field  
of Concentration: Aeronautical Engineering.

Robert George Norell, Minneapolis

B.Aero.E. '44, University of Minnesota. Field  
of Concentration: Aeronautical Engineering.

Karl Henry Stefan, Bellevue, Neb.

B.S. '40, United States Naval Academy. Major:  
Aeronautical Engineering. Minor: Mechanical  
Engineering. Thesis: Magnus Effect on a Body  
of Revolution at Various Angles of Attack.

Edward James Sullivan, Appleton

B.Aero.E. '48, University of Minnesota. Field  
of Concentration: Aeronautical Engineering.

Arthur Newton Thomas, Jr., Duluth

B.Aero.E. with distinction '48, University of  
Minnesota. Field of Concentration: Aeronau-  
tical Engineering.

Francis Xavier Timmes, New York,  
N. Y.

St. John's University and United States Naval  
Academy. Major: Aeronautical Engineering.  
Minor: Mechanical Engineering. Thesis: In-  
vestigation of the Characteristics of the Direct  
Current Glow Discharge under the Influence  
of Pressure and Velocity up to the Speed of  
Sound.

Burr Van Turner, Gideon, Mo.

B.S. in M.E. '38, Missouri School of Mines  
and Metallurgy. Major: Aeronautical En-  
gineering (Structures). Minor: Aeronautical  
Engineering (Aerodynamics). Thesis: An In-  
vestigation of Dynamic Stresses in a Landing  
Gear at a Pre-determined Strut Angle.

Harry Wood, Noble, Ill.

B.E. '40, Eastern Illinois State Teachers Col-  
lege. Major: Aeronautical Engineering (Struc-  
tures). Minor: Aeronautical Engineering  
(Aerodynamics). Thesis: A Study of Dynamic  
Forces in Aircraft Landing Gear Struts with  
Relation to the Optimum Angle of Suspension.

## Master of Science in Chemical Engineering

Hsueh-Tan Chang, Shanghai, China

B.S. '37, Nankai University. Major: Chemical  
Engineering. Minor: Organic Chemistry.  
Thesis: The Fractional Crystallization of  
Microcosmic Salt from Sodium Chloride.

Robert Stuart Chapin, White Bear  
Lake

B.S. in Ch.E. '41, Tri-State College. Major:  
Chemical Engineering. Minor: Mathematics.  
Thesis: Diffusion with Discontinuous Bound-  
ary.

Milton Goodman, Minneapolis

B.Ch.E. '43, University of Minnesota. Major:  
Chemical Engineering. Minor: Mathematics.  
Thesis: The Erection and Testing of a  
Methanol Stripping Column.

Marvin Phillip Steinberg, Minneapolis

B.Ch.E. '43, University of Minnesota. Major:  
Chemical Engineering. Minor: Agricultural  
Biochemistry. Thesis: Air Flotation Dehydra-  
tion of Carrots and Related Products.

## Master of Science in Civil Engineering

Hung-Tsin Chien, Ningfo, Chekiang,  
China

B.S. in C.E. '43, National Chekiang Univer-  
sity. Field of Concentration: Civil Engineering.

Josiah Edward Colcord, Jr., South  
Portland, Maine

B.S. in C.E. with distinction '47, University of  
Maine. Major: Civil Engineering. Minor:  
Geology. Thesis: The Effect and Distribution  
of a Heavy Mineral in Bed Load.

Daniel Peter Jenny, Wauwatosa, Wis.

B.C.E. '43, Marquette University. Field of  
Concentration: Civil Engineering.

## Master of Science in Electrical Engineering

Robert Charles Huntington, St. Paul  
B.E.E. with high distinction '46, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Effect of Contact Resistance on Eddy Current Losses in a Stranded Cable.

Martin Henry Shuler, Los Angeles, Cal.

B.E.E. '41, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of a Broad-band Frequency Stabilization System for a Microwave Oscillator.

Robert D. Tollefson, Austin

B.E.E. '45, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Electrodeless Discharges in Gas Tubes.

## Master of Science in Mechanical Engineering

George Bernard Hickner, Baudette  
B.Mech.E. '47, University of Minnesota. Field of Concentration: Mechanical Engineering.

Arthur Charles Kleinschmidt, Mankato

B.B.A. '38, University of Minnesota. Major: Mechanical Engineering. Minor: Business Administration. Thesis: The Evaluation and Determination of Certain Factors in Motion-time Relationships.

Arthur Wark Storm, Minneapolis

B.M.E. with distinction '48, University of Minnesota. Major: Mechanical Engineering. Minor: Metallography. Thesis: The Use of Activators in Diesel Engine Intake Air.

## Master of Science in Surgery

Walter Frederick Hasskarl, Jr., Brenham, Tex.

B.A. '39, M.D. '42, University of Texas. Major: Surgery. Minor: Surgical Pathology. Thesis: A Clinical-pathological Study of Carcinomatous Perforation of the Colon Affecting the Stomach.

Joseph Grant Merrill, Vermilion, Ill.

B.A. '39, DePauw University; M.D. '43, University of Illinois. Major: Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of the Colon Perforating onto the Anterior Abdominal Wall.

## Master of Social Work

Charles Evan Lampright, Mankato

B.A. '47, Mankato State Teachers College. Field of Concentration: Social Work.

## Doctor of Philosophy

Roger Welton Amidon, Minneapolis  
B.Chem. '36, M.S. '40, University of Minnesota. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: I. Reactions of Methylene-cyclopentane. II. Pyrolysis of Allyl 8-Ketoesters and an Allyl Glycidate. Major Advisers: Profs. R. T. Arnold and R. M. Dodson.

Albert Lloyd Andersen, Salt Lake City, Utah

B.A. with high honors '46, University of Utah. Major: Psychology. Minor: Neuropsychiatry. Thesis: The Effect of Laterality Localization of Focal Brain Lesions on Psychometric Measures of Deterioration. Major Adviser: Prof. P. E. Meehl.

Thomas Herbert Anstey, Agassiz,  
Canada  
B.S.A. '41, M.S.A. '43, University of British Columbia. Major: Horticulture. Minor: Plant Genetics. Thesis: The Breeding Value of Selected Inbred Clones of Strawberries with Respect to Vitamin C Content, Weight per Fruit, and Plant Vigor. Major Adviser: Prof. A. N. Wilcox.

Srinath Das Arora, Jodhur, India  
B.Sc. '22, M.Sc. '26, University of Allahabad. Major: Inorganic Chemistry. Minor: Analytical Chemistry. Thesis: Action of Ammonia on Mercury (I) Compounds. Major Advisers: Profs. M. C. Sneed and W. N. Lipscomb.

John Genter Bieri, St. Paul  
B.A. '43, Antioch College; M.S. '44, Pennsylvania State College. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Factors Affecting the Utilization of Beta-carotene by the Rat. Major Adviser: Prof. M. O. Schultze.

Donald Brieland, Mankato  
B.A. '43, Carleton College; M.A. '45, Northwestern University. Major: Speech. Minor: Child Welfare. Thesis: A Comparative Study of the Speech of Blind and Sighted Children. Major Adviser: Prof. Howard Gilkinson.

John Merton Butler, Los Angeles,  
Cal.  
B.S. with distinction '39, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Self Evaluations of Personality by Adolescents. Major Adviser: Prof. C. G. Wrenn.

Wesley John Dale, Barrington, Ill.  
B.S. with highest honors '43, University of Illinois. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Reaction between Quinones and Metallic Enolates, XXV. I. The Condensation of Some Nitriles with Trimethylquinone. II. Studies Related to the Structure of Diduroquinone. Major Adviser: Prof. L. I. Smith.

Ole Gabriel Devik, Oslo, Norway  
Ch.E. '46, University of Norway. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: The Effects of Low Temperatures upon the Stability and the Activity of Enzymes. Major Adviser: Prof. W. M. Sandstrom.

Monroe David Donsker, St. Paul  
B.A. cum laude '44, M.A. '46, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: The Invariance Principle for Wiener Functionals. Major Adviser: Prof. R. H. Cameron.

William Herman Dreier, Hubbard,  
Iowa  
B.S. '40, Iowa State College; M.A. '47, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Differential Achievement of Rural Graded and Ungraded School Pupils at the Elementary and High School Level. Major Adviser: Prof. C. P. Archer.

Robert Kaul Finn, Waukesha, Wis.  
B.Chem. '41, Chem.E. '42, Cornell University. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: The Rate of Formation of Lactic Acid by Fermentation at Controlled pH. Major Advisers: Profs. E. L. Piret and H. O. Halvorson.

Harold John Fournelle, St. Paul  
B.A. '38, M.S. '41, University of Minnesota. Major: Dairy Husbandry. Minor: Public Health. Thesis: A Comparative Study of Presumptive Media for the Coliform Group. Major Adviser: Prof. Harold Macy.

Clayton Morris Gjerde, San Diego,  
Cal.  
B.A. cum laude '35, Augsburg College; M.A. '44, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: Parent-child Resemblances in Vocational Interests and Personality Traits. Major Adviser: Prof. W. W. Cook.

Carl Vernon Goossen, Mountain Lake  
B.S. with honor '46, Winona State Teachers College; M.A. '47, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: The Construction and Validation of a Disguised Intelligence Test to be Used in Public Opinion Interviewing. Major Adviser: Prof. W. W. Cook.

William Frederick Graydon, Toronto,  
Canada  
B.A.Sc. '42, M.A.Sc. '45, University of Toronto. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: An Investigation of Solubilization. Major Adviser: Prof. I. M. Kolthoff.

Marvin Edward Holmgren, Randall  
B.S. '40, St. Cloud State Teachers College; M.A. '46, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: State Public School Financial Accounting Procedures. Major Adviser: Prof. M. G. Neale.

John William Kleber, Aliquippa, Pa.  
B.S. *cum laude* '43, Duquesne University.  
Major: Pharmaceutical Chemistry. Minors:  
Organic Chemistry and Pharmacology. Thesis:  
A Preliminary Phytochemical Study of Litho-  
spermum Ruderale, Douglas. Major Adviser:  
Prof. Ole Gisvold.

Burton William Kreitlow, Howard  
Lake

B.S. '41, M.A. '47, University of Minnesota.  
Major: Education. Minor: Sociology. Thesis:  
A Study of the Teaching of Letter Writing  
in the Sixth Grade of Graded and Ungraded  
Rural Schools. Major Adviser: Prof. C. P.  
Archer.

Arnold Jerome Lund, Minneapolis

B.A. '38, St. Olaf College. Major: Bacteri-  
ology. Minor: Agricultural Biochemistry.  
Thesis: The Influence of Raw and Heated  
Meat on the Resistance of Bacterial Spores to  
Heat. Major Adviser: Prof. H. O. Halvorson.

Robert Loren Morlan, East Cleveland,  
Ohio

B.A. '42, Denison University; M.A. '47, Uni-  
versity of Minnesota. Major: Political Science.  
Minor: History. Thesis: The Political History  
of the Nonpartisan League, 1915-1922. Major  
Adviser: Prof. A. N. Christensen.

Pauline Nichols Pepinsky, Pullman,  
Wash.

B.A. '39, M.A. '41, Louisiana State University.  
Major: Educational Psychology. Minor: Psy-  
chology. Thesis: Some Psycho-social Behavior  
Patterns of a Group of Negro Adolescents.  
Major Adviser: Prof. W. W. Cook.

Chih-lung Pu, Canton, China

B.S. '35, National Sun Yat-sen University;  
M.S. '38, Yenching University. Major: Ento-  
mology. Minor: Zoology. Thesis: A Taxonomic  
Study of Chinese Limnebiidae (Coleoptera:  
Staphilinoidea). Major Adviser: Prof. C. E.  
Mickel.

Clyde Lee Rougeou, Lafayette, La.  
B.S. '36, Southwestern Louisiana Institute;  
M.S. '37, Texas Agricultural and Mechanical  
College. Major: Dairy Husbandry. Minor:  
Physiology. Thesis: Milk Fat Formation in  
the Bovine Mammary Gland. Major Adviser:  
Prof. W. E. Petersen.

John Watson Schermerhorn, Bergen-  
field, N. J.

B.S. '42, Rutgers University. Major: Pharma-  
ceutical Chemistry. Minors: Organic Chemistry  
and Pharmacology. Thesis: Further Studies on  
the Alkaloids of Argemone Hispida. Major  
Adviser: Prof. T. O. Soine.

Alvin Ferner Sellers, St. Paul

V.M.D. '39, University of Pennsylvania; M.Sc.  
'40, Ohio State University. Major: Veterinary  
Medicine. Minor: Agricultural Biochemistry.  
Thesis: Electrolyte Studies in the Pregnant  
and Post-parturient Cow. Major Adviser: Prof.  
M. H. Roepeke.

Grant Gill Smith, Fielding, Utah

B.A. with honor '43, University of Utah.  
Major: Organic Chemistry. Minor: Physical  
Chemistry. Thesis: The Mechanism of the  
Pyrolysis of Esters. Major Advisers: Profs.  
R. T. Arnold and R. M. Dodson.

Vincent Joseph Webers, Racine, Wis.

B.S. '43, University of Wisconsin. Major: Or-  
ganic Chemistry. Minor: Physical Chemistry.  
Thesis: The Steric Effect of Methylene Groups  
of Ortho-substituted Dimethylanilines. Major  
Adviser: Prof. R. M. Dodson.

Alvar Arvid Werder, Proctor

B.A. '45, M.S. '47, University of Minnesota.  
Major: Bacteriology. Minor: Cancer Biology.  
Thesis: Immunological Studies on Trans-  
planted Mouse Leukemias. Major Adviser:  
Prof. H. O. Halvorson.

Julius Frederic Wolff, Jr., Duluth

B.A. *magna cum laude* '40, University of  
Notre Dame; M.A. '47, University of Minne-  
sota. Major: Political Science. Minor: Eco-  
nomics. Thesis: Minnesota Conservation or  
Resource Management in Minnesota. Major  
Adviser: Prof. L. M. Short.

## Doctor of Philosophy in Surgery

Lyle Joseph Hay, Minneapolis

M.D. '38, University of Minnesota. Major:  
Surgery. Minor: Bacteriology. Thesis: A Clini-  
cal Evaluation of Gastric Adenomas. Major  
Adviser: Dr. O. H. Wangensteen.

# CAPS AND GOWNS

## AN EXPLANATION

In the medieval city, clothing not unlike that worn by those participating in this commencement was common. The modern academic costume has evolved from the dress of the medieval guilds and 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, or light blue for Education. Orange denotes Technology; dark blue, Philosophy; purple, Law; green, Medicine; and pink, Music. Public Health is shown by salmon pink edging, Dentistry by lilac, Pharmacy by olive, and Commerce and Accounting by drab.

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

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

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

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

(In the order of their appearance on the platform)

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



# UNIVERSITY OF MINNESOTA

*December Commencement*

*1949*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, DECEMBER 15

AT EIGHT O'CLOCK





## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Julius A. Schmahl, Treasurer

The Honorable Fred B. Snyder, Minneapolis  
First Vice President and Chairman

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The Honorable Richard L. Griggs, Duluth

The Honorable J. S. Jones, St. Paul

The Honorable George W. Lawson, St. Paul

The Honorable Albert J. Lobb, 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*

The University of Minnesota: "FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED BY UNDERSTANDING, DEDICATED TO THE ADVANCEMENT OF LEARNING AND THE SEARCH FOR TRUTH, DEVOTED TO THE INSTRUCTION OF YOUTH AND THE WELFARE OF THE STATE"—this is your University.

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota will soon celebrate its one hundredth birthday. While nearing this milestone, as from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to actively participate in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded 95,572 degrees to its students who have completed the rigorous training demanded by the complexities and specialization of modern society.

In addition to the enormous task of giving collegiate instruction to some twenty-five 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, the Master Piano Series, the University Theatre, and of the local performances of the Metropolitan Opera Company. Through the University of Minnesota Concert and Lecture Service and the School Assembly Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not because it is the second largest state university in the nation, but because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in their University is a dynamic, living thing and expresses itself in many ways. Contributions from them now make it possible for the great Mayo Memorial building and for the new Variety Club Heart Hospital to be erected over the coming months. Through the American Legion and the auxiliary posts all over the state, thousands of friends have made relatively small gifts to provide an endowed research professorship in heart diseases. Gifts to the Greater University Fund, each appropriately called "A Share in Greatness," now being made especially by alumni, are worthy of special mention.

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

## *Order of Events*

**THE ASSEMBLING OF THE AUDIENCE:** As 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, carillonneur. Admission to the December commencement exercises in the Auditorium is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

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

Advent Chorale	Nicolai
Jesu, Joy of Man's Desiring	Bach
Ronde Française	Boëllmann
Christmas in Sicily	Yon
Primitive Organ	Yon
Toccata on "Ave Maris Stella"	Dupré

**PROCESSIONAL:**

Gothic Suite	Boëllmann
Choral	
Gothic Minuet	
Toccata	

**PROCESSIONAL:** As candidates for degrees enter the Auditorium at 8:00 p.m. the curtain will be opened. Seated on the platform, left to right, are: Mr. Thomas F. Barnhart, Professor of Journalism, Acting Marshal; Dr. Errett W. McDiarmid, University Librarian, Acting Marshal; Reverend Donald Sinclair, member of Minnesota Council of Religion and adviser to Congregational students on the St. Paul Campus; Col. Clarence H. Schabacker, USA, Professor of Military Science and Tactics; Capt. Cornelius M. Sullivan, USN, Professor of Naval Science and Tactics; Dr. Horace T. Morse, Dean of the General College; Dr. Henry Schmitz, Dean of the College of Agriculture, Forestry, and Home Economics; Dr. R. L. Kozelka, Dean of the School of Business Administration; Mr. Maynard E. Pirsig, Dean of the Law School; Mr. True E. Pettengill, Recorder; Mr. William T. Middlebrook, Vice President, Business Administration; The Honorable Fred B. Snyder, Chairman of the Board of Regents; Dr. James Lewis Morrill, President of the University of Minnesota; His Excellency Mr. Erik Boheman, Swedish Ambassador to the United States of America; The Honorable George W. Lawson, member of the Board of Regents; Dr. Malcolm M. Willey, Vice President, Academic Administration; Dr. John W. Buchta, Dean of University College; Dr. T. R. McConnell, Dean of the College of Science, Literature, and the Arts; Dr. Athelstan F. Spilhaus, Dean of the Institute of Technology; Dr. Wesley E. Peik, Dean of the College of Education; Dr. C. H. Rogers, Dean of the College of Pharmacy; Dr. Howard L. Horns, Assistant Dean of the College of Medical Sciences; Dr. Theodore C. Blegen, Dean of the Graduate School; Mr. Roy A. Schuessler, Assistant Professor of Music; Mr. Keith McFarland, Assistant to the Dean of the College of Agriculture, Forestry, and Home Economics, Acting Marshal.

## Order of Events

**PRESENTATION OF COLORS:** As the color guard, made up of University ROTC and NROTC cadets, enters the Auditorium, the audience will rise and remain standing.

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

**INVOCATION:** The Reverend Donald Sinclair, member of the Minnesota Council of Religion and adviser to Congregational students on the St. Paul Campus.

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

**COMMENCEMENT ADDRESS:** "The Responsibility of American Youth," His Excellency Mr. Erik Boheman, Swedish Ambassador to the United States of America.

**PRESENTING OF COMMISSIONS:** Dr. Malcolm M. Willey, Vice President, Academic Administration, will introduce Colonel C. H. Schabacker, CAC, USA, Professor of Military Science and Tactics; and Captain C. M. Sullivan, USN, Professor of Naval Science and Tactics, who will present their candidates for commissions in their respective branches of the Armed Services. The commissions will be presented by President Morrill, the oath of office will be given by Captain Sullivan.

**CONFERRING OF DEGREES:** Dr. Malcolm M. Willey, Vice President, Academic Administration, will introduce the several deans who will present the candidates for the degrees in their respective colleges. These, in order of their introduction, are: Dean Horace T. Morse, Ph.D., General College; Dean John W. Buchta, Ph.D., University College; Dean T. R. McConnell, Ph.D., College of Science, Literature, and the Arts; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Henry Schmitz, Ph.D., College of Agriculture, Forestry, and Home Economics; Dean Wesley E. Peik, Ph.D., College of Education; Dean R. L. Kozelka, Ph.D., School of Business Administration; Dean C. H. Rogers, Sc.D., College of Pharmacy; Dean Maynard E. Pirsig, LL.B., Law School; Assistant Dean Howard L. Horns, M.D., College of Medical Sciences; and Dean Theodore C. Blegen, Ph.D., Graduate School. All degrees will be conferred by President James Lewis Morrill. Immediately afterward, certificates and diplomas will be presented by each dean to the graduates of his college.

**CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY:** Candidates for this degree will be presented individually by Dean Theodore C. Blegen to President James Lewis 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.

## *Order of Events*

RECESSIONAL: Mr. Arthur B. Jennings.

Finale from the Grand Pièce Symphonique - - - - - Franck

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

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## *Candidates for Commissions*

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

### DEPARTMENT OF MILITARY SCIENCE AND TACTICS

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

Marlin E. Hudson, Sheldon, Mo.

#### **Second Lieutenant, Transportation Corps, ORC**

Jerome A. Neuman, Litchfield

#### **Second Lieutenant, Quartermaster Corps, ORC**

David A. Bell, St. Paul

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

Walter A. Nelson, Deer River

Mark L. Hunt, Minneapolis

#### **Second Lieutenant, Ordnance Department, ORC**

David S. Bowe, Minneapolis

Vernon L. Knudson, Minneapolis

Roland E. Overvold, Moorhead

Grady E. Graves, Minneapolis

### DEPARTMENT OF NAVAL SCIENCE AND TACTICS

#### **Ensign, USNR**

James Thaddeus Nawrocki, Minneapolis

## *Candidates for Graduation*

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

### GENERAL COLLEGE

#### Associate in Arts

Charles Albin Anderson, St. Paul	Richard Sears Marvin, Minneapolis
Donald Otto Anderson, Minneapolis	David Edward McLain, St. Paul
John Bruce Auger, St. Paul	Richard Mika, Minneapolis
Irving Herbert Bader, Minneapolis	James Wilmer Morgan, Minneapolis
Robert Francis Bagdons, Minneapolis	Barbara Jeanne Mork, St. Paul
Donald Richard Barck, Minneapolis	Ralph George Nelson, St. Paul
Jack Bardwell Booth, Minneapolis	Valerie Mae Olsen, Minneapolis
John Satterlee Crowley, Minneapolis	Paul Thomas Peterka, St. Paul
Paul Barker Damkroger, Minneapolis	James Andrew Pryor, St. Paul
Leonard William Dean, Robbinsdale	Raymond Harold Racette, Minneapolis
Joyce Marie Dusk, Minneapolis	Roland James Rogers, A.S., Minneapolis
Gerald Kenneth Ecklund, Minneapolis	Robert Duane Ruff, Minneapolis
Patrick McDermott Fleming, Minneapolis	Jacqueline June Schelen, St. Paul
H. Thayer Erringer, Minneapolis	Fay Marilyn Scherling, Minneapolis
Don Howard Gunderson, Minneapolis	Robert Michael Smoot, Jr., Fargo, N.D.
Peter Walter Guzy, Jr., Minneapolis	Vernon Melvin Soder, Duluth
Kenneth Morlan Hall, Minneapolis	Russell Gordon Stauffer, St. Paul
Donald Wilson Heunisch, St. Paul	Leonard William Still, St. Paul
David William Himmelman, Minneapolis	Donald Joseph Stuhlman, St. Paul
David Vance Hull, Minneapolis	Beverly Jean Thykeson, St. Paul
Marilyn Elizabeth Johnson, Minneapolis	Walter George Tournat, Minneapolis
Anabelle Caroline Lee, Minneapolis	Donald George Wondra, St. Paul
Janet Louise Lindegard, Hallock	Vernon Arvid Youngren, Kerkhoven
Patricia Joan Long, St. Paul	

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

#### Associate in Liberal Arts

John Tracy Anderson, St. Paul	June Charlotte Carlson, Minnetonka Mills
Charlotte Theodora Aved, Minneapolis	Katherine Mae Carlson, Minnetonka Mills
Jay Sumner Binder, St. Paul	Nancy Secombe Chatfield, Minneapolis
LuEllen Frances Bovee, Minneapolis	
E. Anne Osborn Bundlie, Pipestone	

Joan Margaret Chester, Northfield  
 Claire Joanne Christopher, Minneapolis  
 Robert Crane Cole, Jr., Minneapolis  
 William Jennings Crist, Prescott, Wis.  
 Jeanette Vinje Crosswell, Brainerd  
 Martha Jayne Elnquist, White Bear Lake  
 Archie Lawrence Goemer, Litchfield  
 Sybil Beverly Halper, St. Paul  
 Marlo Wilfred Hanson, Minneapolis  
 Merrill M. Kuller, St. Paul  
 Theodore Oran Kuller, St. Paul  
 Frederick Berg Ladner, St. Cloud  
 Marguerite Audrey Lamb, St. Paul  
 Georganne Lipshie, Minneapolis  
 Richard Kent Magnuson, St. Paul  
 Janice Mae Maher, Browns Valley  
 Irwin Amos Mandel, Minneapolis  
 Richard Patrick McGraw, Minneapolis  
 Priscilla Miller, Minneapolis

Jane Ellen Morine, Minneapolis  
 Henry Joseph Morrison, Jr., St. Paul  
 Donald John Murphy, St. Paul  
 Nancy Ann Nelson, Minneapolis  
 Rollin Herman Opper, Duluth  
 Carolyn Sarah Phillips, Minneapolis  
 James Patrick Rafferty, St. Paul  
 Edward John Rau, St. Paul  
 William Richard Rice, Minneapolis  
 Donald Alfred Rogers, Minneapolis  
 Ralyhe Elaine Rutchick, Minneapolis  
 Zella Schneidman, Minneapolis  
 Robert William Schwanke, St. Paul  
 Lorraine Lucille Sisk, Osseo  
 Norman Ravine Sorum, Crookston  
 V. Jeanne Soutar, Luverne  
 Leonard F. Stasney, Minneapolis  
 Erwin John Utech, St. Paul  
 Louis Evert Voss, A.A., St. Paul  
 Robert Earl Wenzel, St. Paul  
 Mary Janet Wickham, Minneapolis

## Bachelor of Arts

Paul Einar Aaseby, Thief River Falls  
 James Meagher Abeln, Minneapolis  
 Belle Charlotte Adams, Worthington  
 Florence Armitage Adams, Missoula, Mont., CUM LAUDE  
 Olaf Taisto Aho, Minneapolis  
 Paul David Albitz, Minneapolis  
 Harry Martin Andersen, Minneapolis  
 Orville Silas Anderson, Minneapolis  
 Paul Alvin Anderson, Minneapolis  
 Arthur Andresen, A.A., Minneapolis  
 Elaine Audrey Aronson, Little Falls  
 Herbert Harry Bader, Minneapolis  
 Warren Alphonse Baker, Minneapolis  
 Ralph Gregory Bauer, A.A., St. Paul  
 Morton Bearman, Minneapolis  
 John Matthew Beauchamp, Minnesota Lake  
 John Milton Bell, Minneapolis  
 Elizabeth Joan Bessesen, Minneapolis  
 Daniel Jacob Bear Bierman, Washington, D.C.  
 Norma Astrid Birkland, Minneapolis  
 David Orville Blanchard, St. Louis Park  
 Donald Rae Blumenshein, Mankato  
 Alvin Boderman, St. Paul

Esther Arlene Bolstad, A.A., Badger  
 Charles Bayer Brandon, Minneapolis  
 Edward Gerhart Brekke, Virginia  
 Ruth Louise Bridges, Minneapolis, CUM LAUDE  
 Jean Ann Brooke, Minneapolis  
 Marvin A. Buskala, Ely  
 John Seymour Cabot, Minneapolis  
 Walter Ernest Cary, Minneapolis  
 Darwin Clyde Cedarleaf, St. Paul  
 Marvin Chazin, Minneapolis  
 Dorothy Alice Christensen, St. Paul  
 James Edward Christopherson, Minneapolis  
 David Andrew Church, B.C.E., St. Paul  
 Helenann Clarke, Duluth  
 Marian Louise Clarkin, Minneapolis  
 Maxine Ann Colby, St. Paul  
 Douglas Francis Condon, Montevideo  
 Dawn Goble Copeland, St. Paul  
 James Harris Copp, Thief River Falls, MAGNA CUM LAUDE  
 James Marrinan Cremin, A.A., St. Paul  
 Robert Henry Dahle, Mankato  
 Jerry Richards Danielson, Minneapolis

David George Decker, Minneapolis  
 John Peter Dedon, Minneapolis  
 Thomas John Degnan, Newport News,  
 Va.  
 George Benedict DeGuiseppi, Nash-  
 wauk  
 Floyd Russell Devereaux, Minneapolis,  
 CUM LAUDE  
 Jane Julina Dohm, Minneapolis  
 William Thomas Doran, Marinette,  
 Wis.  
 Edward Joseph Dudley, Jr., St. Paul,  
 CUM LAUDE  
 William Edward Dunne, Jr., A.A.,  
 Minneapolis  
 John Merton Dunnigan, Minneapolis  
 George Francis Dwyer, Minneapolis  
 Vernon LeRoy Eide, Thief River Falls  
 Barbara Ruth Fierke, Minneapolis  
 Margaret Leitch Foote, Minneapolis,  
 MAGNA CUM LAUDE  
 Richard Carlton Fosse, Minneapolis  
 Robert Thomas Franklin, St. Paul  
 Thomas Christopher Geelan, Milbank,  
 S.D.  
 George Edwin Gifford, Minneapolis  
 Ziona Haiiah Gordon, St. Paul  
 John Carlton Grams, Minneapolis,  
 CUM LAUDE  
 Arthur Dean Grandy, Minneapolis  
 Richard Evans Grant, St. Paul, CUM  
 LAUDE  
 Rhoda Lael Greene, Minneapolis  
 Violette Irma Groth, A.A., Braham  
 Warren Quentin Gustafson, Belgrade  
 Warren Conrad Haggstrom, Richville,  
 SUMMA CUM LAUDE  
 Donald E. Hanscom, St. Paul  
 Robert LaVern Hansmeier, Waukon,  
 Iowa  
 Adeline Delores Hanson, Starbuck  
 Arthur Cornelius Hanson, Proctor  
 Willard Clayton Hanson, Zimmerman  
 Dorothy Anne Hayes, Robbinsdale,  
 CUM LAUDE  
 John Thomas Hayward, Minneapolis  
 Richard Edward Hedin, Sauk Centre  
 Marvin Hein, Billings, Mont.  
 Shirley Arlene Hendrickson, Minne-  
 apolis  
 Jane Hilaire Henley, Stillwater  
 Willard Burnet Hertig, Jr., Minne-  
 apolis  
 Warren O. Hinz, Minneapolis  
 Richard Lyle Hoglund, Minneapolis  
 Stanley Raymond Horn, Minneapolis  
 Edward Gerald Hustad, Starbuck,  
 MAGNA CUM LAUDE  
 Edward Victor Janowicz, Minneapolis,  
 MAGNA CUM LAUDE  
 Harold Ernest Jensen, Minneapolis  
 Joseph Arnold Johnson, A.A., Minne-  
 apolis  
 Restor Emanuel Johnson, Jr. Minne-  
 apolis  
 Robert Paul Johnson, Minneapolis  
 Ronald Dennis Johnson, Minneapolis  
 Shirley Ann Johnson, St. Paul  
 Donald A. Jones, Fort Snelling  
 Gladys Marilyn Jones, Minneapolis  
 Arthur Lawrence Kane, A.L.A., Min-  
 neapolis  
 William Wallace Keenan, Clark, S.D.  
 Thomas John Kelley, A.L.A., St. Paul  
 William Arnold Kesselman, New  
 York, N.Y., MAGNA CUM LAUDE  
 Yvonne Louise King, Minneapolis  
 Warren James Krekelberg, Minne-  
 apolis  
 Donald Robert Kvam, Dawson  
 Lawrence Stanley LaBelle, Minne-  
 apolis, CUM LAUDE  
 Stanley Leonard Laine, Minneapolis  
 Arthur Gustav Landgren, A.A., Min-  
 neapolis  
 Thomas Henry Lane, Chatfield  
 Jeanne Audrey Larson, Minneapolis,  
 MAGNA CUM LAUDE  
 Lewis Henry Larson, Jr., South St.  
 Paul  
 James Douglas Lawrence, St. Louis  
 Park  
 Dorothy Parker Lewis, Minneapolis  
 Gordon Andrew Lind, Minneapolis  
 Russell Edward Lind, Minneapolis  
 Jeanne LaVonne Linder, Minneapolis,  
 CUM LAUDE  
 Mary Ellen Locken, Minneapolis  
 John Frederick Lundin, Minneapolis  
 Donald Alfred Mattson, Minneapolis  
 Milan Reece McClelland, Wadena  
 John Hamilton McCrea, Minneapolis



Marilyn M. McDonnell, Buffalo  
 Allen Arthur McDougal, Minneapolis  
 James E. McGovern, St. Paul  
 William George McMackin, Minneapolis  
 William Erick Agaton Molander, Minneapolis  
 Frederick William Molzahn, Jr., Hopkins  
 Leatrice Mae Mork, Minneapolis,  
 MAGNA CUM LAUDE  
 E. Patricia Mortenson, Minneapolis  
 John Edward Mulvahill, Minneapolis  
 Herbert Allan Murdock, Minneapolis  
 Richard Ray Muyres, Chaska  
 Floyd Christian Nelson, Montevideo  
 Joan Theresa Nolan, Minneapolis,  
 CUM LAUDE  
 Leonard Alfred Nord, Howard Lake,  
 CUM LAUDE  
 Oscar N. Olstad, Minneapolis  
 Paul David Pahos, Markville  
 Clark Osborn Plummer, Minneapolis  
 Sherwin Stauffer Plummer, Minneapolis  
 Arthur Fredrick Preusch, Minneapolis  
 Magdalyn Jane Prokopec, Owatonna  
 Alfred John Prosnick, Hibbing  
 Darrel Joseph Rial, St. Paul  
 Nancy Judith Rigler, St. Paul, MAGNA  
 CUM LAUDE  
 Margaret Annabelle Robertson, St. Paul  
 Elizabeth Ann Rochford, Minneapolis  
 Harold Roitenberg, Minneapolis  
 Kenneth John Rose, Minneapolis  
 William H. Rumpf, Jr., Minneapolis  
 Jeanne Cecelia St. Onge, St. Paul  
 Dolores Marie Sampson, Chisholm  
 Frank Santelli, Boston, Mass.  
 Arnold Boyd Sawislak, Rock Island,  
 Ill., MAGNA CUM LAUDE  
 Roman Vincent Schultz, Lambertton  
 Joseph Schwartz, St. Paul  
 Joan Marilyn Sharar, North St. Paul  
 William Bradley Sherman, Minneapolis  
 David Leo Silver, Minneapolis  
 Kenneth Glenn Simmons, Minneapolis  
 Helen Anne Skworch, St. Paul  
 Florian A. Sobiech, Little Falls  
 Neta Withington Speece, Minneapolis  
 Dorothy Ann Stark, Minneapolis  
 Leo Stock, A.L.A., Minneapolis  
 Donald George Stroh, Minneapolis  
 Richard F. Stuck, Jr., Minneapolis  
 Michael Frederick Sundberg, Minneapolis,  
 CUM LAUDE  
 Phyllis Irene Thompson, Ames, Iowa  
 Roy Tichich, Minneapolis  
 Robert Joseph Tritz, Minneapolis  
 Joanne Terry Van den Bergh, Minneapolis  
 Curtis Harry Vining, Minneapolis  
 Ray Lawrence Wallentine, Minneapolis  
 Garry Richard Walz, Minneapolis,  
 CUM LAUDE  
 Joann Irene Wegge, Mankato  
 Marilyn Lee Weil, Louisville, Ky.  
 Arild William Werner, Minneapolis  
 Joyce Lenore White, St. Paul, SUMMA  
 CUM LAUDE  
 Kenneth Allington Whitney, St. Paul  
 Roy Joseph Wirtzfeld, Underwood,  
 N.D.  
 Charles Horace Withers, A.A., Rochester,  
 SUMMA CUM LAUDE  
 Robert Sumner Withers, Rochester  
 Gary Milton Witt, Rochester  
 Jack Gordon Young, Duluth  
 Shirley Manor Zwaska, Austin, SUMMA  
 CUM LAUDE

## Bachelor of Science

Ruth Kathleen Samuelson, Kiron,  
 Iowa, CUM LAUDE

## Bachelor of Science in Library Science

A. Marie Westbrook, B.A., Jamestown, N.D.      Helen B. Wik, B.A., Minneapolis

# UNIVERSITY COLLEGE

## Bachelor of Arts

Richard Leonard Arons, Robbinsdale  
Gloria Ann Bjorklund, Alexandria

Marvin Lloyd Boote, Worthington  
Dorothy Frances Scott, Cass Lake

## Bachelor of Science

Donald John Lindberg, St. Paul  
George Webb Ronald, Jr., Minneapolis

Samuel Siegel, Virginia

# INSTITUTE OF TECHNOLOGY

## Bachelor of Aeronautical Engineering

Donald Ernest Bloom, Minneapolis  
Roy George Butterfield, Minneapolis  
Warren Dale Chambers, Minneapolis  
Marvin Carl Johnson, Minneapolis  
Peter Charles Johnson, Lake Crystal  
James Anthony Krueger, St. Paul  
Jerome Clemens Kulenkamp, St. Paul  
Thomas O. Milton, Minneapolis

Robert Lewis Myers, Sheboygan,  
Wis.  
Alvin Donald Riedler, Minneapolis,  
WITH HIGH DISTINCTION  
Burt Alfred Rosenberg, Minneapolis  
Donald Leslie Schultz, Minneapolis  
Donald Merton Ullevig, Robbinsdale

## Bachelor of Agricultural Engineering

Fay Vernon Colberg, Duluth  
John Rowland Davis, Minneapolis,  
WITH DISTINCTION  
Berthol Eugene Ryberg, Harris

Wallace George Shelley, Wilder,  
Idaho  
Clifford Franklin Wallace, Elk River

## Bachelor of Architecture

James John Bofferding, Minneapolis  
Paul Anthony Hesson, Wayzata  
Wallace Bernard Kenneth, Minneapolis  
Jack Ivon Loveless, Minneapolis  
Donald Henry Panushka, St. Paul

Richard Allen Peterson, Minneapolis  
Luverne William Pose, St. Paul  
Robert Leslie Rowland, B.A., magna  
cum laude, Wisconsin Rapids,  
Wis., WITH DISTINCTION  
Willard Lien Thorsen, Minneapolis

## Bachelor of Chemical Engineering

Dale Leroy Allaway, Minneapolis  
John James Bailey, St. Paul  
Robert Michael Barry, St. Paul  
Frank William Hetznecker, St. Paul  
Joseph Peter Kealy, St. Paul  
William Frederick McDonnell, Duluth  
Alfred Henry Nellessen, St. Paul

Gerald Joseph Orazem, Keewatin,  
WITH DISTINCTION  
Donald Wallace Peterson, Minneapolis  
Roy Erick Post, Hopkins  
Vincent D. Ryan, Minneapolis  
William Curtis Shelton, Minneapolis  
Harvey Ferdinand Zahn, Chicago, Ill.

## Bachelor of Chemistry

Albert Clark, Minneapolis  
Donald William Coddling, Porterville,  
Calif.  
Robert Alan Frigstad, St. Paul

Lloyd Warren Nordlund, Minneapolis  
Steven Sopoci, Jr., Raritan, N.J.  
Wesley Clarke Thomson, Minneapolis

## Bachelor of Civil Engineering

Carl John Bourman, Duluth  
James Bernard Brenny, Minneapolis  
Stanley Victor Carlson, Minneapolis  
John Lebreuz Jewell, Stillwater

James David Kissell, Minneapolis  
Rolland Gene Mattson, Minneapolis  
Wyman Claire Peterzen, Litchfield

## Bachelor of Electrical Engineering

Carl Edwin Altman, Minneapolis  
Anthony Joseph Bauman, Minne-  
apolis  
Robert Paul Blixt, Minneapolis  
*Carl Norman Boode, Detroit Lakes,*  
WITH DISTINCTION  
John William Borth, Minneapolis  
*David Blanchard Braum, Minneapolis,*  
WITH DISTINCTION  
Robert William Callan, Minneapolis  
Erlын Ernest Christianson, Le Center  
Ronald Victor Crego, Duluth  
Donald DeFreese, Reading  
George Burge Dewitt, Ithaca, N.Y.  
Carl Alfred Evans, Jr., St. Paul  
*Dean Wendell Flygstad, Barron, Wis.,*  
WITH DISTINCTION  
Edwin John Fredrickson, Hutchinson  
James Henry Furlong, Kilkenny  
Francis Taylor Grady, Duluth  
*Herbert Andrew Gunderson, Minne-*  
*apolis, WITH DISTINCTION*  
William DeMotte Gutzler, River  
Falls, Wis.  
Robert E. Hanisch, Minneapolis  
Glenn Fannesbech Hansen, Minne-  
apolis  
*Lewis Carroll Hansen, Swatara, WITH*  
*DISTINCTION*  
Donald Owen Heard, Henning  
Loren Arthur Helling, Minneapolis  
*Elvin John Higgins, Litchfield, WITH*  
*DISTINCTION*

*Norman Harris Holt, Almora, WITH*  
*DISTINCTION*  
Paul Frederick Holzer, Montevideo  
Robert Charles Howard, Wayzata  
Kerwyn Arthur Hultstrand, Parkers  
Prairie  
Charles M. Johnson, Annandale  
*Paul Edgar Jorgenson, Minneapolis,*  
WITH HIGH DISTINCTION  
Otto Lawrence Jourdan, Northome  
James August Kalz, New Ulm  
Allen Ross Klomps, Comfrey  
Clyde Marcus Kobe, Minneapolis  
Harold Willis Kooiman, Edgerton  
Wesley James Larson, Fargo N.D.  
Clifford Leroy Lillo, Duluth  
*Arden Leroy Lind, St. James, WITH*  
*DISTINCTION*  
*George Alfred Lindholm, Milaca,*  
WITH DISTINCTION  
Wayne Douglas Lines, Cottonwood  
Egil Hakon Ljosland, Oslo, Norway  
Robert Earle Lovdahl, Minneapolis  
Edmund Clarence Mallet, St. Paul  
Walter Warwick Manson, Minne-  
apolis  
Paul Milton Mayo, St. Paul  
*Robert Lynn Metzger, St. Paul, WITH*  
*HIGH DISTINCTION*  
Carl Patrick Murphy, Robbinsdale  
Lyle Romaine Murphy, Browerville  
James Thaddeus Nawrocki, Minne-  
apolis

Sidney Warren Nelson, Minneapolis  
Andrew Fergus Oelhafen, Tomahawk,  
Wis.

Ray Gunnar Olander, Buhl, WITH  
DISTINCTION

Russell Jerome Penrose, Carlton, WITH  
DISTINCTION

Francis Edward Randolph, Duluth

Gordon Aigner Rehder, Moorhead

Harold Arthur Roberts, Minneapolis

Donald Mark Rowell, St. Paul

Robert LeRoy Rynearson, St. Paul

Arthur Walter Schultze, Minneapolis

Glenn Warren Schwartz, Canby

Daniel Robert Shern, South St. Paul,  
WITH HIGH DISTINCTION

Raymond C. Skoe, Northome, WITH  
DISTINCTION

John Andrew Skurla, Chisholm, WITH  
DISTINCTION

Wilber Thomas Smith, Owatonna  
Thomas Merrill Sprague, Appleton,  
Wis.

Alf Randolph Sween, Granite Falls,  
WITH DISTINCTION

Hugh Basil Thorson, Minneapolis

Paul Willard Tollefson, Northfield,  
WITH HIGH DISTINCTION

Kenneth Willard Tomlinson, Minne-  
apolis

Arvid Sigvald Tveit, Mahanomen

Charles James Wacker, South St.  
Paul, WITH HIGH DISTINCTION

Nick Warhol, Minneapolis

Norton Williston Whitchurch, Jr.,  
Minneapolis

Keith Eldon Willson, Windom

James Willis Wilson, Rushmore,  
WITH DISTINCTION

## Bachelor of Geological Engineering

Robert Howard Cress, St. Paul

## Bachelor of Mechanical Engineering

Jay David Alleman, Minnesota City

Stanley Richard Anderson, Albert Lea

William Henry Angell, St. Paul

Frederick O. Bakk, Hills

Edward Richard Betzold, Minneapolis

Harry George Blagrove, Minneapolis

William Dean Boatman, Minneapolis

Neil Francis Brown, Minneapolis

Harold Ulrik Bruhjell, Minneapolis

John Osborne Chambers, Wayzata

Kenneth Kaae Christensen, Minne-  
apolis

Ernest MacArthur Collins, Minne-  
apolis

William George Courtney, St. Paul

Gordon Frank Cramolini, Minneapolis

Austin Clifford Davis, Rochester

David Wood Denham, Minneapolis

Lester Earl Diethart, Minneapolis

John Richardson Dimond, St. Paul

Robert James Dunlap, Minneapolis

William Wayne Everling, St. Paul

Gordon John Filipczak, Minneapolis

Robert Edward Fleming, Minneapolis

Burton Palmer Fosse, Minneapolis

William Grossman, Pine Brook, N.J.

Harry Raymond Hallquist, Minneapo-  
lis

Raymond Frederick Hanson, Minne-  
apolis

William Jerome Houlihan, Minne-  
apolis

George Preston Howard, Minneapolis

Irwin Lee Irwin, Minneapolis, WITH  
DISTINCTION

Roy Jorgen Jensen, Minneapolis

Alfred F. Johnson, Minneapolis

John Richard Keenan, St. Paul

Edward Samuel Kellermann, Jr., St.  
Paul

John Aloysius Kent, Minneapolis

Loren John Klitzke, Mankato

Brian Robert Landergan, St. Paul

William Howard Larson, Minneapolis

Charles Sidney Lee, Jr., Chicago, Ill.  
 Richard Simon Lindholm, Ely  
 Donald Gordon Madsen, Nashwauk  
*Joseph Leroy McGillicuddy, Owatonna, WITH DISTINCTION*  
 Robert Eugene McWhirter, St. Paul  
 Dale Merrick, St. Paul  
 Lowell Marshall Miller, St. Paul  
 Richard Francis Moorhouse, Minneapolis  
 Calvin Marion Nelson, Granite Falls  
 Clifford Theodore Olson, Minneapolis  
 John Melvin Owens, St. Paul  
 James Samuel Palmer, St. Paul  
 Burleigh Beard Peterson, Duluth  
 Calvin Elmer Piilola, Minneapolis

John Frederick Proesch, Stillwater  
 George Jerome Robinson, Minneapolis  
 Earl Arthur Rood, Minneapolis  
 Earl Wayne Simmons, New Brighton  
 Robert Pierce Oral Sletten, Minneapolis, WITH DISTINCTION  
 Charles Michael Stevens, St. Paul  
*David John Sutton, Minneapolis, WITH DISTINCTION*  
 Oddvar Wiggo Svaeri, Oslo, Norway  
 Erik T. Tromborg, Minneapolis  
 James Robert Wadhams, St. Paul  
 Charles Harding Whitmore, Minneapolis  
 Warren F. Wilson, Mound  
 Herbert Wolf, Minneapolis

## Bachelor of Mining Engineering

Conrad Robert Appledorn, Crosby

## Bachelor of Petroleum Engineering

James Richard Johnson, Minneapolis

## Bachelor of Physics

Thomas William Buttery, A.A., St. Paul

## COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

### Bachelor of Science

Jack R. Bandel, Rochester, Forestry  
 Peggy Jeanne Barker, Minneapolis, Home Economics  
*Patricia Anne Brown, Minneapolis, Agriculture, WITH DISTINCTION*  
 Robert Earl Burke, Eland, Wis., Forestry  
 Curtis Orrin Crowley, Hawley, Agriculture  
 Bernard Adolph Fashingbauer, St. Paul, Fish and Wildlife Management

Glen Bruce Goodell, Wheeler, Wis., Agriculture  
 Bonnie Bessie Gorton, St. Paul, Home Economics  
*Clifton Frederick Halsey, St. Paul, Science Specialization, WITH HIGH DISTINCTION*  
 George William Hammer, Minneapolis, Forestry  
 Herbert Walter Hayes, Austin, Agriculture

- Elaine Dagmar Hermanson, Bock, Home Economics, WITH HIGH DISTINCTION*
- John Benjamin Hlastala, Eveleth, Forestry*
- Joyce Shirley Hoffman, St. Paul, Home Economics*
- Merdith Bernard Ingham, Jr., Minneapolis, Forestry*
- Howard Bernard Johnson, Minneapolis, Forestry, WITH DISTINCTION*
- Ralph Merle Kemen, St. Paul, Agriculture*
- George Frederick Kilen, St. Paul, Forestry*
- Lillie Irene Kurup, Minneapolis, Home Economics*
- Harlan Charles Lampe, Ely, Forestry, WITH DISTINCTION*
- Lucille Marilyn Larson, Duluth, Home Economics*
- Ruth Ann Lofgren, Hallock, Home Economics*
- Dorothy Ann McEnary, Minneapolis, Home Economics*
- Carol Behling Walkup McLeester, St. Paul, Home Economics, WITH DISTINCTION*
- Roderick Donald Moe, Ph.B., Eyota, Agriculture*
- Russell Jerome Moe, Virginia, Agriculture*
- Richard Clark Newman, Kasota, Forestry*
- William Patrick O'Malley, San Francisco, Calif., Agriculture*
- Bernard Arthur Paradis, Ihlen, Forestry*
- Vincent Maurice Parten, Minneapolis, Agriculture*
- Eugene Francis Pilgram, Watertown, Agriculture*
- James Emmett Prendergast, White Bear Lake, Science Specialization*
- Frances Mae Quist, Minneapolis, Home Economics*
- June L. Rea, Tracy, Home Economics*
- Arthur Edward Schultz, Jr., St. Paul, Forestry*
- Robert Edward Schumacher, Heron Lake, Fish and Wildlife Management*
- James Theodore Shields, Minneapolis, Fish and Wildlife Management*
- Russell Arthur Soulen, Hopkins, Fish and Wildlife Management*
- Max Frank Straka, Minneapolis, Agriculture*
- Cort Robert Strane, St. Paul, Forestry*
- Alfred Arvid Swanson, Clara City, Fish and Wildlife Management*
- Clifford Luther Tetzloff, Janesville, Fish and Wildlife Management*
- Allen Franklin Wicse, A.A., Eyota, Agriculture, WITH DISTINCTION*
- Laurence Thomas Workman, Minneapolis, Agriculture*
- Clifford Alfred Ziebarth, Wrenshall, Science Specialization*

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

### Bachelor of Science

- Glenn Myron Anderson, Redwood Falls, Agricultural Education*
- John Ernest Anderson, Warba, Agricultural Education, WITH DISTINCTION*
- Janice Margaret Nupson Benson, Redwood Falls, Home Economics Education*
- Harlan Lawrence Beucler, Anoka, Agricultural Education*
- Robert Albert Borchardt, Willow River, Agricultural Education, WITH HIGH DISTINCTION*
- William Paul Brown, Cambridge, Agricultural Education*

Carol Jean Caswell, Minneapolis, Home Economics Education, WITH DISTINCTION	Rodney Eldon Lewis, Garvin, Agri- cultural Education
John Husby, Akely, Agricultural Edu- cation	Harold Eugene Rosendahl, Warren, Agricultural Education
Charles Harvey Jones, Owatonna, Ag- ricultural Education	George Walter Saks, Minneapolis, Agricultural Education, WITH HIGH DISTINCTION
Howard Maynard Knobloch, Park Rapids, Agricultural Education	Heimer William Swanson, Red Lake Falls, Agricultural Education

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

### Bachelor of Agricultural Business Administration

Victor Alexander Erlandson, Fergus  
Falls

## COLLEGE OF EDUCATION

### Bachelor of Science

Grant Philip Anderson, Minneapolis	James Wilmer Fritze, Red Wing, WITH DISTINCTION
Lois Dorothy Anderson, Alexandria, WITH HIGH DISTINCTION*	Helen Mary Gould, B.B.A., Fairmont
Kenneth Eugene Beiersdorf, Chicago, Ill.	Ellen Hainer Hastings, Austin, WITH DISTINCTION
Beverly Ann Benson, LeRoy*	Wendel Ward Heers, Amboy
Waldamar Peter Buchanan, Minne- apolis	Dwaine H. Hoberg, Bemidji
Marilyn A. Campbell, St. Paul	Erwin Holk, Minneapolis
Joseph David Christensen, Minneapo- lis	Agnes Winifred Isely, Aitkin
Eva Louise Cook, Centralia, Wash., WITH DISTINCTION*	Marcelaine Ann Jarvi, Aurora*
Richard Finch Cornwell, Minneapolis, WITH DISTINCTION	Vivian M. Kallenberger, Minneapolis
Robert Lawrence Dahlberg, St. Paul	Robert Earl Kuhl, Waseca
William Joseph Diehl, Sr., Minneapo- lis	Ferdinand Julius Kuss, Jr., Minne- apolis
Anna Evangeline Dillner, Minneapolis	John Philip Lilja, Minneapolis
Patricia Ann Dougherty Earl, Minne- apolis, WITH HIGH DISTINCTION*	Donald Gilbert Lorentz, Annandale
Robert Olaf Fetvedt, Fergus Falls, WITH HIGH DISTINCTION	John Hector MacDonald, B.Ch.E., Minneapolis
Mary Barbara Folsom, Minneapolis*	Rodney Daren Martin, International Falls
Robert Lawrence Fricke, Minneapolis	Shirley Jayne Martin, A.A., Minne- apolis
	Patricia May Mastny, Long Lake*
	Phyllis Arlene McChesney, Minne- apolis

\* Nursing Education Curriculum.

Dorothy Patricia Monahan, R.N.,  
Manly, Iowa\*  
Muriel Ruth Monteith, A.A., Hazel-  
ton, N. D.\*  
Mary Martha Nelson, A.A., Albert  
Lea  
Perry Milton Polski, St. Paul  
Robert Peter Provost, Mason, Wis.,  
WITH DISTINCTION  
Mable Agusta Ramspeck, Columbus  
Mont., WITH DISTINCTION\*  
Ralph Oliver Ramstad, B.A., Minne-  
apolis

Margery Helen Ranning, Minneapo-  
lis  
Margaret Jane Reagan, B.A., Minne-  
apolis\*  
Robert Deon Roetman, Minneapolis  
William Gordon Scott, Minneapolis  
Doris Anne Southard, R.N., Clarion,  
Iowa\*  
Sandra Spaeth, Ada  
Donald A. Vagle, Minneapolis  
Dale Kenneth Warner, St. Paul  
Lewis George Wells, Jr., Nebraska  
City, Neb.

## Bachelor of Science in Library Science

Charlene Ann Mike, B.A., Aurora

## Master of Education

Melvin Glenn Engelbretson, A.A.,  
B.S., St. Paul

Donna Marion Miske, B.S., St. Paul

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Irving Abraham Balto, Minneapolis,  
WITH DISTINCTION  
Parley Francis Banks, Minneapolis  
Hugh Alton Barker, Stillwater, WITH  
DISTINCTION  
Robert Wilbur Bartling, Brookings,  
S.D.  
Lawrence Donald Beckman, Minne-  
apolis  
Milo Eugene Brown, Rochester, WITH  
DISTINCTION  
Clarence Victor Cadwallader, St. Paul  
Howard Vincent Carlson, Minneapolis  
George Elmer Carver, Minneapolis  
James Joseph Cashman, Owatonna  
Ronald Edward Craig, Minneapolis  
Gordon Frank Cramolini, Minneapolis  
Robert Walter Dopke, Winona  
Joan Luella Durand, Minneapolis  
William Frank Eaton, Minneapolis  
John Alexander Elkin, Minneapolis  
WITH DISTINCTION  
Robert Will Fesler, St. Paul

George Ronald Figge, Annandale  
Victor J. Fish, Minneapolis  
Raymond Thomas Flynn, Minneapolis  
Burton Palmer Fosse, Minneapolis  
Arden Keith Fritts, Minneapolis  
Warren Maynerd Froemming, Alex-  
andria  
Ivan Lee Gilchrist, Waseca  
Vernon Albert Gunderson, South St.  
Paul  
Kenneth William Hansen, St. Paul  
Carl Richard Harholdt, Wayzata  
John Allen Heitkamp, Minneapolis  
Richard Leon Herreid, Afton  
Jack Henry Heslip, Austin  
Richard Dean Hirsch, Minneapolis  
Louis LaMonte Hoffman, Litchfield  
Donald Newton Holland, Minneapolis  
Donald Oliver Isaacson, Minneapolis  
Kenneth Webster Johnson, Minne-  
apolis  
Robert Arthur Johnson, Anoka

\* Nursing Education Curriculum.



Alice Kaplan, St. Paul  
 John M. Keprios, Pequot Lakes  
 Loren John Klitzke, Mankato  
 Donald Kenneth Knauer, A.A., Austin  
 Robert George Knox, A.S., Virginia,  
 WITH DISTINCTION  
 Vernon Lloyd Knudsen, Minneapolis  
 William Albert Koeckeritz, A.L.A.,  
 Bellingham  
 Stewart Frederic Kvalheim, Minne-  
 apolis  
 John Clayton LaFave, Escanaba,  
 Mich.  
 John Eric Linnell, Cambridge  
 Baylon Francis Loosbrock, Lismore  
 Rennold Joseph Luger, Minneapolis  
 Ladislow Frank Maistrovich, Virginia  
 Stanley Francis Marblestone, St. Paul  
 Robert Olaf Marshall, Duluth  
 Melvin John Maurer, St. Paul  
 Charles Mazzola, St. Paul  
 Andrew Powers McIntosh, Minne-  
 apolis  
 Robert Lynn Metzger, B.E.E., St.  
 Paul, WITH DISTINCTION  
 Thomas Lawrence Noonan, Minne-  
 apolis  
 Ray Gunnar Olander, Buhl, WITH  
 DISTINCTION  
 Allard Clifton Olson, Montevideo  
 Oscar Eugene Olson, Keewatin  
 Wilbert Milton Oman, Isanti  
 Roland Ernest Overvold, Moorhead  
 Richard William Petterssen, St. Paul  
 Walter Pivoschuk, Minneapolis  
 Roy Erick Post, Hopkins, WITH DIS-  
 TINATION  
 Wallace Wilmont Ring, Ihlen  
 Ward Dashiell Ring, St. Paul  
 Thomas Francis Robertson, Minne-  
 apolis  
 George Bernard Rotegard, New Rich-  
 land  
 Ludwig Frederick Rudman, Virginia  
 Vernon Skovgaard Sandager, B.S.L.,  
 Tyler  
 John Eldon Schafer, Minneapolis  
 Herman Daniel Scheibel, Albany  
 Elmer LeRoy Schlueter, Ivanhoe  
 Isadore Schmitzer, Minneapolis  
 Nancy Karlen Schroeder, Minneapolis  
 Ralph Wallace Scroggins, Minneapolis  
 Donald Edwin Shaw, Minneapolis  
 Viorel G. Stoia, Aberdeen, S.D.  
 Paul Swerdlick, Minneapolis  
 John Benjamin Thomson, Owatonna  
 Robert Louis Vagstad, Claremont  
 Eugene Russell Virden, Northome  
 John Stewart Vitz, Minneapolis  
 Charles Wagner, Jersey City, N.J.  
 Warren Kollitz Wahoske, Odessa  
 Richard Kendal Wegner, St. Paul,  
 WITH DISTINCTION  
 Lynton H. Williams, Wadena  
 Vernon Harold Wolff, Park Rapids  
 Raymond Marshall Wollum, Jr., St.  
 Paul  
 Richard Allen Young, Minneapolis

## COLLEGE OF PHARMACY

### Bachelor of Science in Pharmacy

George Henry Halenbeck, Duluth  
 George William Murphy, Jr., A.L.A.,  
 Stillwater

## LAW SCHOOL

### Bachelor of Science in Law

Conrad Franklin Gaarenstroom, Fair-  
 mont  
 Donald Patrick Kane, St. Paul  
 Oscar Harold Odland, B.A., Willmar  
 John Paul Simpson, Rochester

## Bachelor of Laws

- John Alexander Amundson, B.S.L.,  
Bowman, N.D.  
James Ross Bennett, Jr., B.S.L., Red  
Wing  
Sydney Richard Burau, B.S.L., Deer-  
wood  
James David Cahill, B.S.L., Minne-  
apolis  
Conrad Franklin Gaarenstroom, Fair-  
mont  
James Edward Gottlieb, B.S.L., Min-  
neapolis  
Bruce Benjamin James, B.S.L., Hau-  
gen, Wis.  
Charles Clayton Johnson, B.S.L.,  
Mankato  
Dean Kimball Johnson, B.S.L., Min-  
neapolis  
Robert Eugene Lee, B.S.L., Caledonia  
Sheldon Dean McRae, B.S.L., Little  
Falls  
James Patrick Mullen, B.S.L., St. Paul  
Robert Chamberlain Mussman, B.S.L.,  
Minneapolis  
Evans Warren North, B.S.L., Minne-  
apolis
- Stanford Mack Olson, B.S.L., Minne-  
apolis  
John Jerome Plunkett, B.S.L., St. Paul  
Walter Edward Pose, Jr., B.S.L., New  
Hampton, Iowa  
Richard Howard Pritikin, B.S.L., Min-  
neapolis  
John Donald Robb, Jr., B.S.L., Albu-  
querque, N.M.  
Donald Eugene Morlan Rockne,  
B.S.L., Blooming Prairie  
Dean Ferguson Scott, B.S.L., Minne-  
apolis  
Wesley Sizoo, B.S.L., San Gabriel,  
Calif.  
Edward Norman Sorlie, B.S.L., Min-  
neapolis  
Joseph Geris Thornton, B.S.L., Alex-  
andria  
Robert Hartzell Trautman, B.S.L.,  
Mitchell, S.D.  
Clague Arthur Van Slyke, B.S.L., Ben-  
son  
Gerald Robert Walsh, B.S.L., Rob-  
binsdale

## COLLEGE OF MEDICAL SCIENCES

### Graduate in Nursing †

- Beverly Ann Benson, LeRoy  
Jeanne Alice Rogers Berglund, Way-  
zata  
Margaret L. Hurley, St. Paul  
Marcelaine Ann Jarvi, Aurora  
Patricia May Mastny, Long Lake
- Muriel Ruth Monteith, A.A., Hazel-  
ton, N.D.  
Ruth Cohn Scheffer, Billings, Mont.  
Vivien Murphy Tresville, Buffalo,  
N.Y.

### Bachelor of Science

- Frances Dorothy Acko, Minneapolis,  
Medical Technology\*  
Carol Rorem Anderson, R.N., Min-  
neapolis, Public Health Nursing,  
WITH DISTINCTION
- Dolores Rosemary Basco, Pekin, Ill.,  
Public Health Nursing  
Jeanne Alice Rogers Berglund, Way-  
zata, Public Health Nursing  
Leora Agatha Bujold, Duluth, Public  
Health Nursing, WITH DISTINCTION

\* These degrees are conferred subject to satisfactory completion of required practical work prior to March 16, 1950

† These degrees are conferred subject to satisfactory completion of nursing practice prior to March 16, 1950

- Dorothy Evelyn Collard, Twin Falls, Idaho, Public Health Nursing
- Shirley Cumming, Mankato, Public Health Nursing
- Eudora Celina Felix, Waukegan, Ill., Public Health Nursing
- Virginia Ida Grogan, R.N., Duluth, Public Health Nursing
- Vivian Herr Hanson, Wishek, N.D., Public Health Nursing, WITH DISTINCTION
- Marlys Lillian Hawkinson, A.A., Worthington, Medical Technology\*
- Ruth Frances Hosted, B.S., Duluth, Public Health Nursing
- Ann Louise Kemp, Mankato, Medical Technology\*
- Eleanor Marieta Kord, R.N., Colorado Springs, Colo., Public Health Nursing
- Marjorie Mary Lychik, Minneapolis, Medical Technology\*
- Frances Bissett McDaniel, R.N., Piedmont, W. Va., Public Health Nursing
- Evangeline Meisdalen, Malta, Mont., Public Health Nursing
- Patricia Bryan Moore, Minneapolis, Occupational Therapy
- Goldie Rosalie Opgrand, G.N., Halstad, Public Health Nursing, WITH DISTINCTION
- Colleen Jane Rehder, Van Home, Iowa, Medical Technology\*
- Ruth Cohn Scheffer, Billings, Mont., Public Health Nursing
- Frances Lorraine Simon, A.A., Duluth, Medical Technology\*
- Doreen Klasen Solberg, R.N., Holdingford, Public Health Nursing
- Helen Williams Steck, Hagerstown, Md., Public Health Nursing
- Mary Jean Surprenant, Red Lake Falls, Medical Technology\*
- Elizabeth Carol Tobey, Wausau, Wis., Public Health Nursing
- Dolores Anne Tow, St. Paul, Public Health Nursing, WITH DISTINCTION
- Vivien Murphy Tresville, Buffalo, N.Y., Public Health Nursing
- Lois Margaret Ullmann, Milwaukee, Wis., Occupational Therapy

## Master of Public Health

- Zella Bryant, B.S., Washington, D.C.
- Adele R. Didricksen, B.S., Brooklyn, N.Y.
- Florence Steele Dunn, B.Mus., B.S., Rapid City, S.D.
- Rose Albina Godbout, B.S., Corpus Christi, Texas
- Helen Harriet Natwick, B.S., Owings Mills, Md.
- John Ernest Olsen, B.S., Lynden, Wash.
- Charlotte Elizabeth Owens, B.S., Minneapolis
- Naomi Leanie Packer, B.S., M.A., Brooklyn, N.Y.
- Anne Petrovich, B.S., Minneapolis
- Helen Joann Schulberg, B.S., G.N., Minneapolis

## GRADUATE SCHOOL

### Master of Arts

- Hans Christian Aarsleff, Rungstad, Kyst, Denmark  
B.A. '45, University of Copenhagen. Field of Concentration: English.
- Dick Edmund Adams, Minneapolis  
B.J. '40, University of Missouri. Field of Concentration: American Studies.

\* These degrees are conferred subject to satisfactory completion of required practical work prior to March 16, 1950

Arthur Martin Ahlschwede, St. Paul  
B.S.Ed. '41, Concordia Teachers College.  
Field of Concentration: Curriculum and Instruction.

Bergit Anderson, Minneapolis  
B.S. '39, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Eleanor Ione Baird, Coshocton, Ohio  
B.S.Ed. '37, Ohio State University. Field of Concentration: Child Welfare.

Arthur Harold Ballet, Hibbing  
B.S. with high distinction '47, University of Minnesota. Major: Speech. Minor: English. Thesis: A Study of the Jew as a Character in Selected Plays, 1900-1949.

Howard Klair Battles, St. Cloud  
B.A. magna cum laude '48, University of Minnesota. Field of Concentration: English.

James Mathew Becker, Faribault  
B.S. with distinction '47, University of Minnesota. Field of Concentration: Educational Psychology.

Gladys Jeannette Berglund, Minneapolis  
B.S. '43, University of Minnesota. Field of Concentration: Spanish.

Glen Gordon Blanche, Minneapolis  
B.A. '40, Hamline University. Field of Concentration: American Studies.

Harry Bloom, Minneapolis  
B.A. '46, University of Minnesota. Field of Concentration: English.

Gretchen Ione Bryant, Weaver  
B.S. '40, Eau Claire State Teachers College. Field of Concentration: Curriculum and Instruction.

Eugene Howard Burns, St. Paul  
B.S. '39, University of Minnesota. Field of Concentration: Social Work.

Rosalie Delehanty Burton, St. Paul  
B.S. '43, University of Minnesota. Field of Concentration: Education.

Samuel T. Chow, Peiping, China  
B.A. '40, National Peking University. Field of Concentration: Journalism.

Donald Francis Clark, Bemidji  
B.A. '48, University of Minnesota. Field of Concentration: Statistics.

Mary Julia Connery, Minneapolis  
B.A. '29, University of Minnesota. Field of Concentration: Social Work.

Jed Horace Davis, Jr., Stillwater  
B.A. '47, University of Minnesota. Major: Speech. Minor: English. Thesis: A Critical Survey of the Stage Lighting Equipment in the High Schools of Minnesota.

John Ernest Dobbin, Minneapolis  
B.S. '42, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Florence Donohue, St. Cloud  
B.S. with distinction '28, University of Minnesota. Field of Concentration: Social Work.

Estelle Philomene Eich, Duluth  
B.S. '26, University of Minnesota. Field of Concentration: Curriculum and Instruction.

James N. Farr, Minneapolis  
B.A. cum laude '48, University of Minnesota. Field of Concentration: Psychology.

Karl Batleau Foote, St. Paul  
B.A. '47, University of Minnesota. Field of Concentration: History.

Robert Edgar Forman, Minneapolis  
B.A. cum laude '48, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: A Sociometric Study of Informal Social Participation in a Homogeneous Neighborhood.

Harland Godfrey Fox, LaCrosse, Wis.  
B.A. '48, Wabash College. Field of Concentration: Economics.

Douglas Lyken Gibson, Minneapolis  
B.A. magna cum laude '41, University of Minnesota. Field of Concentration: Economics.

Reginald Harold Grable, Minneapolis  
B.A. '38, University of Kansas. Field of Concentration: Psychology.

Donald Ray Grubb, Vergennes, Ill.  
B.S.Ed. '48, Southern Illinois University. Field of Concentration: Journalism.

Edward S. Grzeskowiak, St. Paul  
B.A. '41, University of Minnesota. Major: Inorganic Chemistry. Minor: Agricultural Biochemistry. Thesis: Thioacetamide as a Precipitating Agent for the Insoluble Sulfides.

Paul Stoddard Hagen, Minneapolis  
B.S. '46, University of Minnesota. Field of Concentration: Speech.

- Martha Webb Herdman, Toledo, Ohio  
B.A. '45, Ohio Wesleyan University. Field of Concentration: Political Science.
- Arthur Paul Herlick, Gilbert  
B.S. '35, University of Minnesota. Field of Concentration: Educational Psychology.
- Michael Wendell Holm, St. Paul  
B.A. '35, Union College (Lincoln, Neb.). Field of Concentration: Physics.
- Herbert Gray Johnson, Rapid City, S.D.  
B.S. '48, University of Minnesota. Field of Concentration: Geography.
- Joan Joiner, Polo, Ill.  
B.S. '43, University of Illinois. Field of Concentration: Political Science.
- Ernest Stephen Jordan, Keosauqua, Iowa  
B.S. '12, Coe College. Field of Concentration: Educational Administration.
- Warren Harding Kaye, St. Paul  
B.A. '47, Macalester College. Field of Concentration: Statistics.
- Mark William Klonowski, Anoka  
B.S. '37, University of Minnesota. Field of Concentration: Educational Administration.
- Helen Mary Kretchmer, Minneapolis  
B.S. '36, University of Minnesota. Field of Concentration: Social Work.
- Frederick Paul Kroeger, Minneapolis  
B.A. '43, Grinnell College. Field of Concentration: English.
- Philip Winton Lewis, St. Cloud  
B.A. *cum laude* '48, University of Minnesota. Field of Concentration: Political Science.
- Wayburne Winton Lilleberg, Avoca  
B.B.A. '48, University of Minnesota. Field of Concentration: International Relations.
- John Richard Loegering, Duluth  
B.A. '48, Trinity College (Hartford, Conn.). Major: History. Minor: Political Science. Thesis: The Hartford Convention. A Study in Party Politics.
- James Markham Lufkin, St. Paul  
B.A. '47, University of Minnesota. Field of Concentration: English.
- Malcolm Shaw MacLean, Jr., Minneapolis  
B.A. *cum laude* '47, University of Minnesota. Field of Concentration: Journalism.
- Frederick Elliott Martin, Fargo, N.D.  
B.S. '34, North Dakota State College. Major: English. Minor: Philology. Thesis: Edmund Spenser and the Medieval Encyclopedia in English: Animal Lore in "The Faerie Queene."
- Leonard Charles McGuire, Rochester  
B.S. '48, University of Minnesota. Field of Concentration: History.
- Wallace Daggett Michener, Ottumwa, Iowa  
B.A. '48, Grinnell College. Field of Concentration: Economics.
- Betty Lilligren Mitton, Minneapolis  
B.A. '46, University of California. Field of Concentration: Child Welfare.
- Eldon Leon Modisett, Cedar Falls, Iowa  
B.A. '47, Iowa State Teachers College. Field of Concentration: American Studies.
- Robert Darrel Moulton, Minneapolis  
B.A. '47, University of Minnesota. Field of Concentration: Speech.
- Dorothy Virginia Obrecht, Buffalo, N.Y.  
B.F.A. '47, Syracuse University. Field of Concentration: Educational Psychology.
- Arthur Clayton Ostlund, Minneapolis  
B.B.A. with distinction '48, University of Minnesota. Field of Concentration: Business Administration.
- Walfred Hugo Peterson, Minneapolis  
B.A. *magna cum laude* '47, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: The Role of the Parliamentary Opposition in British Government.
- Leonard Bertram Sand, Eveleth  
B.A. '48, University of Minnesota. Field of Concentration: Geology.
- Raymond Fredrick Sears, Minnawaukan, N.D.  
B.S. with distinction '48, University of Minnesota. Field of Concentration: Physical Education.

Henry Dixon Smith, Alden  
B.S. '48, University of Minnesota. Field of  
Concentration: Geography.

Robert Stephen Soar, Miami, Fla.  
B.A. with high honors '48, University of  
Florida. Field of Concentration: Psychology.

Brother Robert Staub, Chicago, Ill.  
B.S. cum laude '43, St. Mary's College  
(Winona, Minn.). Field of Concentration:  
Botany.

Paul Ture Steen, St. Peter  
B.A. '33, Gustavus Adolphus College; M.A. in  
P.A. '47, University of Minnesota. Field of  
Concentration: Social Work.

Donald Hubert Stevenson, Minne-  
apolis  
B.A. cum laude '48, Macalester College. Field  
of Concentration: American Studies.

Louise Christine Stolle, Hecla, S.D.  
B.A. '28, Carleton College. Field of Concen-  
tration: Educational Psychology.

Albert Sigmund Storm, Minneapolis  
B.A. '40, University of Minnesota. Field of  
Concentration: Spanish.

Lawrence George Swadner, Minne-  
apolis  
B.A. '35, St. Mary's College (Winona, Minn.).  
Field of Concentration: Educational Admin-  
istration.

Richard Eugene Swanson, Minne-  
apolis  
B.A. magna cum laude '48, University of Min-  
nesota. Field of Concentration: Psychology.

William Ellsworth Thomas, Newton,  
Mass.  
B.S. '47, Hillsdale College. Field of Concen-  
tration: Psychology.

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

Josephine Barbara Walz, St. Paul  
B.S. '39, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Jane Adair Wold, Minneapolis  
B.A. magna cum laude '45, University of Min-  
nesota. Field of Concentration: Psychology.

Ardyce Louise Woodside, Cedar  
Rapids, Iowa  
B.A. '35, Coe College. Field of Concentration:  
Social Work.

Louise May Young, Rainelle, West  
Va.  
B.A. '45, Berea College. Field of Concen-  
tration: American Studies.

## Master of Arts in Public Administration

Katherine Marilyn Andersen, West  
Newton, Mass.  
B.A. '43, Wellesley College. Major: Public  
Administration. Thesis: The Administration  
of Section 9(e) of the Labor-Management Rel-  
ations Act, 1947.

## Master of Business Administration

Glenn Burnell Lewis, Minneapolis  
B.A. '48, University of Minnesota. Field of  
Concentration: Business Administration.

## Master of Science

Roger Milton Berg, Bismarck, N.D.  
B.A. '47, University of Minnesota. Major:  
Anatomy. Minor: Physiology. Thesis: An  
Analysis of Variations of the Segmental Bron-  
chi of the Left Lower Lobe of Sixty Human  
Lungs.

Bernard Berman, Minneapolis  
B.Ph. with distinction '48, University of Min-  
nesota. Major: Physics. Minor: Mathematics.  
Thesis: The Effect of Temperature and Pres-  
sure on Cloud Chamber Operation.

- Prabhakar Sastry Chavali, Narsapur, India  
B.Sc. '47, University of Madras. Major: Soils. Minor: Agricultural Engineering. Thesis: Conservation Studies on an Erosive Loess Soil.
- Kwang-Hwan Chu, Shanghai, China  
B.S. '43, University of Nanking. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Study of the Inheritance of Seed Size and Other Characters in a Cross between an Indian Variety and a North American Variety of Flax.
- Arthur Isaac Cohen, Malden, Mass.  
B.A. '46, Yeshiva University. Major: Zoology. Minor: Botany. Thesis: Studies on Apyrase Activity of Fish Muscle.
- Karl Harry Doeringsfeld, Minneapolis  
B.M.E. '46, University of Minnesota. Field of Concentration: Mathematics and Mechanics.
- Rudolf Engel, Minneapolis  
M.D. '29, University of Bonn. Major: Pediatrics. Minor: Physiology. Thesis: The Influence of Desoxycorticosterone Acetate and of a Potassium Deficient Diet on the Electroshock Convulsive Threshold in Rats.
- Rachel Lou Fralick, Springfield, Ohio  
B.S. '47, Wittenberg College. Major: Anatomy. Minor: Bacteriology. Thesis: Effects of Androgen upon the Reproductive Organs of Castreated and Normal Fetuses.
- William Alexander Frey, Ironton  
B.S. '30, North Dakota Agricultural College. Field of Concentration: Agricultural Education.
- James Bernard Gergen, St. Paul  
B.S. '43, College of St. Thomas. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: A Study of the Action of Basic Reagents on Certain Arylsulfonyl Substituted Amino Acid Esters.
- Francis John Haddy, Kiester  
B.S. '44, M.D. '47, University of Minnesota. Major: Physiology. Minor: Pathology. Thesis: Pulmonary Vascular Pressures and the Genesis of Lung Edema.
- Charles Garner Hickman, Ottawa, Canada  
B.S.A. '48, Ontario Agricultural College. Field of Concentration: Animal Husbandry.
- Lun-Chi Hu, Nanking, China  
B.S. '42, National South-West Associated University. Field of Concentration: Geology.
- Reuben Hubbard, Montevideo  
B.S. '15, Iowa State College. Field of Concentration: Agricultural Education.
- Yun-hsiang Jen, Yunnan, China  
B.S. '43, National University of Yunnan. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Criteria of Estimating Relative Maturity of Soybean Varieties and the Relationship of Stage of Maturity to Yield and Quality.
- William Lewis Jones, Melbourne, Australia  
Associateship Diploma in Applied Chemistry '42, Melbourne Technical College. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: A Study of the Heat Resistance of Thermophilic Organisms in Wheat and Wheat Flours.
- Marshall David Levin, Hartford, Conn.  
B.A. '47, University of Connecticut. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: Seasonal Variation in Weight and Ovarian Development in the Worker Honey-bee.
- Lucile Mallette, Dozier, Ala.  
B.S. '36, Alabama Polytechnic Institute. Field of Concentration: Home Economics Education.
- Kaworu Carl Nomura, Minneapolis  
B.Ph with distinction '48, University of Minnesota. Field of Concentration: Physics.
- Katherine Georgianna Paterson, St. Paul  
B.S. '46, University of Texas. Major: Bacteriology. Minor: Physiological Chemistry. Thesis: A Study of the Variable Factors in the Production of the *Brucella abortus* Milk Antigen.
- Elwood Rollo Peterson, Bricelyn  
B.A. '47, St. Olaf College. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: The Reactions of Ethyl  $\gamma$ -Bromoacetate with S-Alkylisothioureas.
- James Marshall Pollock, Helena, Mont.  
B.A. '44, Carleton College. Minor: Agricultural Biochemistry. Minor: Bacteriology. Thesis: The Distribution of Thiamine and Riboflavin in the Wheat Kernel During Maturation.
- Ione Jean Alohilani Rathburn, Honolulu, T.H.  
Ed.B. '48, University of Hawaii. Field of Concentration: Public Health.

Joseph Victor Reger, St. Paul  
B.S. '47, University of Minnesota. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: Some Factors Influencing the Properties, Including the Baking Quality, of Sweet Cream Buttermilk Powder.

Jennie Aileen Shannon, St. Paul  
B.S. '44, University of Minnesota. Field of Concentration: Home Economics Education.

Joyce Emoline Stember, Moscow, Idaho  
B.S. '45, University of Idaho. Field of Concentration: Home Economics.

Gordon Ira Swanson, Alexandria  
B.S. with distinction '42, University of Minnesota. Field of Concentration: Agricultural Education.

George Calvin Webster, Kalamazoo, Mich.

B.S. '48, Western State Teachers College. Major: Botany. Minor: Agricultural Biochemistry. Thesis: Studies on the Respiration of Blue Green Algae.

Jerome Weintraub, Toronto, Canada  
B.A. '46, University of Toronto. Major: Entomology. Minor: Agricultural Biochemistry. Thesis: The Bionomics and Population Dynamics of the White-marked Tussock Moth, *Hemerocampa leucostigma* S. and A.: A Study of Factors Affecting the Survival and Development of Individuals, and of the Decline and Termination of an Outbreak.

Samuel Zinberg, Minneapolis  
B.S. '45, M.D. '48, University of Minnesota. Major: Physiology. Minor: Pathology. Thesis: The Effect of Hydrostatic and Colloid Osmotic Pressures upon the Appearance of Edema in the Perfused Rat Lung.

## Master of Science in Aeronautical Engineering

Frank Ellsworth Cole, Minneapolis  
B.S. '46, United States Military Academy. Field of Concentration: Aeronautical Engineering.

Clark Harrison Gates, Middlebury, Vt.  
B.S. '39, Norwich University. Major: Aeronautical Engineering (Structures). Minor: Aeronautical Engineering (Aerodynamics). Thesis: Investigation of a Sandwich Type Circular Plate under Transverse Loading.

William Humenick, St. Paul  
B.A.E. '48, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Julius Frank Koetsch, Brooklyn, N.Y.  
B.M.E. '41, College of the City of New York. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Effect of Ionization upon the Transition from Laminar to Turbulent Flow in the Boundary Layer of a Flat Plate.

Dwight Osten Ness, Hillsboro, N.D.  
B.S. '39, United States Naval Academy. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Boundary Layer Control as a Method of Gas Turbine Blade Cooling.

Robert Gardiner Nester, Mobile, Ala.  
B.M.E. '41, Alabama Polytechnic Institute. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Testing a Turbo-Jet Combustion Chamber to Check Analytical Design.

Frederick Richard Putnam, Redlands, Calif.

B.S. '42, United States Naval Academy. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Impulse Turbine Flow Analysis and Correlation with Experimental Data Turbine Efficiency Variation with Protuberances in Tailpipe.

Gerald A. Robinson, Kansas City, Mo.  
B.A. '40, Kansas State Teachers College of Pittsburg. Major: Aeronautical Engineering (Structures). Minor: Aeronautical Engineering (Aerodynamics). Thesis: The Behavior of a Metalite Plate When Subjected Uniformly to Distributed Loads Acting in the Plane of the Plate.

James Bernard Verdin, Iowa City, Iowa  
Iowa State College; United States Naval Academy. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: The Analytical Design of a Turbo-Jet Combustion Chamber.



## Master of Science in Agricultural Engineering

Martin Mark Fogel, Minneapolis  
B.Ag.E. with distinction '48, University of Minnesota. Major: Agricultural Engineering. Minor: Soils. Thesis: Economic Aspects of Supplemental Sprinkler Irrigation of Potatoes.

Jack Neil Krueger, St. Paul  
B.E.E. '44, University of Minnesota. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Design and Applications of a Continuous Motion Mowing Machine.

## Master of Science in Anesthesiology

Andrew Ervine Morrison, Jr., Minneapolis  
B.S. '34, M.D. '40, University of Minnesota. Major: Anesthesiology. Minor: Physiology. Thesis: An Evaluation of Replacement Fluids in Laboratory Animals Following Controlled Hemorrhages.

James Francis Zagaria, Rochester  
B.S. '35, College of St. Thomas; M.D. '41, University of Minnesota. Major: Anesthesiology. Minor: Physiology. Thesis: Tolerance to Ether Anesthesia: Effect of Varying Nutritional States.

## Master of Science in Civil Engineering

Douglas Warren Barr, Minneapolis  
B.S. with distinction '48, University of Minnesota. Major: Civil Engineering. Minor: Geology. Thesis: The Effect of Particle Shape on Permeability.

Vincent Francis Blazic, St. Paul  
B.A.E. '44, University of Minnesota. Field of Concentration: Civil Engineering.

Edmond Edouard Chapus, Nimes, France  
Ingénieur Civil des Mines '48, Ecole Nationale Supérieure des Mines. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: Entrance Losses in Short Circular Conduits.

Tsen-ding Chen, Changchow, Kiangsu, China  
B.S.C.E. '37, National Central University. Major: Civil Engineering. Minor: Mathematics and Mechanics. Thesis: Test of Round-crested Weir.

Daniel Kingston Donovan, Sioux Falls, S.D.

B.S.C.E. '41, South Dakota School of Mines and Technology. Major: Civil Engineering (Hydraulics). Minor: Civil Engineering (Structures). Thesis: A Study of Viscous Flow in an Open Channel Having a Circular Arc Cross-section.

Curtis Luverne Larson, Cottonwood  
B.Ag.E. with distinction '43, University of Minnesota. Major: Civil Engineering. Minor: Agricultural Engineering. Thesis: Transverse Distribution of Velocity and Discharge for Flow in a Shallow Triangular Channel.

Howard William McCauley, Jr., St. Paul  
B.S. '48, North Dakota Agricultural College. Field of Concentration: Civil Engineering.

Gene Milo Nordby, Grand Forks, N.D.  
B.S. '49, Oregon State College. Field of Concentration: Civil Engineering.

## Master of Science in Dental Surgery

Karl Wayne Bruce, Wahoo, Neb.  
B.S. '40, D.D.S. '40, University of Nebraska. Major: Dental Surgery. Minor: Pathology. Thesis: The Effect of Irradiation on the Developing Dental System of the Syrian Hamster.

Robert Quentin Royer, LaGrange, Ind.  
D.D.S. '43, Indiana University. Major: Dental Surgery. Minor: Pathology. Thesis: The Influence of Microwave Diathermy on the Swelling and Trismus Resulting from Odonectomy.

Frederick Thomas Wigand, Clear Lake, Wis.

D.D.S. '38, University of Minnesota. Major: Dental Surgery. Minor: Pathology. Thesis: Causes of Noneruption of Premolars and Their Effect on the Dentition.

## Master of Science in Dentistry

Joseph Chock Tam, Honolulu, T.H.  
D.D.S. '47, University of Minnesota. Major:  
Dentistry. Minor: Pathology. Thesis: An In-  
vestigation of the Effect of Fluoride on the  
Fracture Healing Process in Young Rats.

## Master of Science in Dermatology and Syphilology

Melvin Leo Grais, Minneapolis  
M.D. '46, University of Minnesota. Major:  
Dermatology and Syphilology. Minor: Physi-  
ological Chemistry. Thesis: Hyaluronidase Inhi-  
bition by Serum in Skin Diseases.

Samuel Joseph Randall, Jr., Columbus,  
Ohio

B.A. '38, University of Hawaii; M.S. '42,  
M.D. '42, Ohio State University. Major:  
Dermatology and Syphilology. Minor: Histo-  
pathology. Thesis: Certain Idiopathic Pig-  
mented Purpuric Cutaneous Eruptions.

## Master of Science in Electrical Engineering

Bernard Van Loan Haxby, Minne-  
apolis

B.E.E. with distinction '48, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: The Measure-  
ment of Sound Absorption Coefficients Using  
Transverse Acoustic Waves.

Howard Theodore Mooers, Minne-  
apolis

B.E.E. with high distinction '43, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: A Study of Low  
Frequency Noise in Transistors.

James Norrell Lind, Lincoln, Neb.

B.S.E.E. '47, University of Nebraska. Major:  
Electrical Engineering. Minor: Mathematics.  
Thesis: A Study of a Pulse Generator.

Chun-Hsuan Sun, Shanghai, China

B.S.E.E. '46, Chiao-Tung University. Major:  
Electrical Engineering. Minor: Mechanical En-  
gineering. Thesis: Ceramic Resistor Voltage  
Regulator.

## Master of Science in Mechanical Engineering

Walter Oliver Carlson, Minneapolis  
B.A.E. with distinction '44, University of  
Minnesota. Field of Concentration: Mechan-  
ical Engineering.

Alfred Herman Parthum, Jr., Youngs-  
town, Ohio

B.S. '42, Carnegie Institute of Technology.  
Field of Concentration: Mechanical Engineer-  
ing.

Thomas Peter Jones, St. Paul

B.M.E. with distinction '48, University of  
Minnesota. Field of Concentration: Mechan-  
ical Engineering.

Burton Duane Scott, St. Paul

B.M.E. '36, University of Minnesota. Field of  
Concentration: Mechanical Engineering.

Donald Lloyd Vandergon, Buffalo

B.M.E. with distinction '47, University of  
Minnesota. Major: Mechanical Engineering  
(Heating). Minor: Mechanical Engineering  
(Industrial). Thesis: Environmental Condi-  
tions for a Chicken Brooder House with  
Radiant Heat.

## Master of Science in Medicine

Robert Featherston Ackerman, Memphis, Tenn.

B.S. '39, Southwestern University; M.D. '43, University of Tennessee. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Influence of Various Factors on the Degree of Coronary Atherosclerosis in Women.

Harley Ernest Cluxton, Jr., Savannah, Ga.

B.A. '37, Washington and Lee University; M.D. '41, Johns Hopkins University. Major: Medicine. Minor: Physiology. Thesis: Metabolic Effects of Testosterone Propionate in Addison's Disease.

Grant Roy Diessner, Waconia

B.S. '39, M.D. '42, University of Minnesota. Major: Medicine. Minor: Clinical Pathology. Thesis: A Study of the Megakaryocytes and Eosinophils in the Bone Marrow in Essential Thrombocytopenic Purpura and the Clinical Significance of These Findings.

George Raymond Dornberger, Miller, S.D.

B.S. '35, M.D. '38, University of Nebraska. Major: Medicine. Minor: Physiology. Thesis: A Study of External Pancreatic Secretion in Cases of Chronic Relapsing Pancreatitis.

Bruce E. Douglass, Chicago, Ill.

B.A. '38, M.D. '42, University of Wisconsin. Major: Medicine. Minor: Pathologic Anatomy. Thesis: The Anatomy of the Portal Vein and Its Tributaries.

Harold Aaron Ferris, Jr., Atlanta, Ga.

M.D. '44, Tulane University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Study of Arterioles of Kidney and Pancreas in Cases of Undetermined Cardiac Hypertrophy.

Charles Clifford Johnson, Grand View, Idaho

B.A. '38, College of Idaho; M.D. '43, St. Louis University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Occlusion of the Mesenteric Veins and Arteries.

Richard Harry Kelty, Alliance, Ohio

B.S. '40, Mount Union College; M.D. '43, University of Michigan. Major: Medicine. Minor: Pathologic Anatomy. Thesis: The Relation of the Regenerated Liver Nodule to the Vascular Bed in Cirrhosis.

Roy Frank Perkins, Rock Island, Ill.

B.S. '39, M.D. '41, University of Illinois. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Acute, Subacute, and Chronic Atrophy of the Liver and Its Relationship to Viral Hepatitis.

Albert Abbot Pollack, New York, N.Y.

B.A. '38, Washington and Lee University; M.D. '42, Long Island College. Major: Medicine. Minor: Physiology. Thesis: A Study of Venous Pressure in the Saphenous Vein at the Ankle in Man During Exercise and Changes in Posture.

Louis Emerson Ward, Mount Vernon, Ill.

B.A. '39, University of Illinois; M.D. '43, Harvard University. Major: Medicine. Minor: Hematology. Thesis: Free Erythrocyte Protophyrin.

Russell Howard Wilson, Eldorado, Okla.

B.S. '38, M.D. '40, University of Oklahoma. Major: Medicine. Minor: Pathology. Thesis: A Study of the Pathological Physiology of Chronic Diffuse Pulmonary Emphysema.

## Master of Science in Neurosurgery

Franklin Earnest, III, Collingswood, N.J.

B.S. *cum laude* '39, Ursinus College; M.D. '43, Jefferson Medical College. Major: Neurosurgery. Minor: Neuropathology. Thesis: Oligodendrogliomas with Particular Emphasis on Calcium Deposits.

Louis James Gogela, Omaha, Neb.

B.S.M. '40, M.A. '41, M.D. '43, University of Nebraska. Major: Neurosurgery. Minor: Neuropathology. Thesis: Intraorbital Meningioma.

Edward Douglas Horning, Detroit, Mich.

B.A. '40, Williams College; M.D. '43, Yale University. Major: Neurosurgery. Minor: Neuropathology. Thesis: Sphenoidal Ridge Meningiomas.

Dwight Parkinson, Ogden, Utah

B.A. '39, Dartmouth College; M.D. '41, McGill University. Major: Neurosurgery. Minor: Pathology. Thesis: Occipital Lobe Tumors.

## Master of Science in Ophthalmology

Robert Warren Nickeson, Pittsburgh,  
Pa.

B.S. '42, M.D. '43, University of Pittsburgh.  
Major: Ophthalmology. Minor: Pathology.  
Thesis: An Evaluation of the Use of Quatra-  
caine in the Eye.

## Master of Science in Orthopedic Surgery

Bruce Molloy Cameron, El Paso, Tex.  
B.A. '41, M.D. '44, University of Texas.  
Major: Orthopedic Surgery. Minor: Surgical  
Pathology. Thesis: Traumatic Arthritis of the  
Knee.

Edward Drewry Henderson, Rochester  
B.A. '40, Swarthmore College; M.D. '44, Uni-  
versity of Minnesota. Major: Orthopedic  
Surgery. Minor: Surgical Pathology. Thesis:  
Eosinophilic Granuloma of Bone.

Alfred Edison Jackson, Henderson-  
ville, Tenn.

M.D. '42, University of Tennessee. Major:  
Orthopedic Surgery. Minor: Surgical Pathology.  
Thesis: Osteoid Osteoma.

Richard Scandalis, Los Angeles, Calif.  
B.A. '40, M.D. '40, University of California.  
Major: Orthopedic Surgery. Minor: Surgical  
Pathology. Thesis: Arthrokataclasis (Otto  
Pelvis).

## Master of Science in Radiology

Donald Smythe Childs, Jr., Syracuse,  
N.Y.

B.A. '38, Haverford College; M.D. '42, Yale  
University. Major: Radiology. Minor: Pa-  
thology. Thesis: The Effect of Varying the  
Dose of Iodide upon the Behavior of Radio-  
active Iodine in Patients with Exophthalmic  
Goiter.

James Thompson McMillan, St. Paul  
B.A. '38, M.D. '42, University of Minnesota.  
Major: Radiology. Minor: Pathology. Thesis:  
Tomography as a Diagnostic Procedure in  
Carcinoma of the Lung.

## Master of Science in Surgery

James Robert Anderson, Chicago Ill.  
B.S. '42, M.D. '43, Northwestern University.  
Major: Surgery. Minor: Surgical Pathology.  
Thesis: Peritoneoscopy.

Eugene Emanuel Eckstam, Madison,  
Wis.

B.A. '40, M.D. '43, University of Wisconsin.  
Major: Surgery. Minor: Surgical Pathology.  
Thesis: Encapsulated Carcinoma of the  
Breast.

Frank Dayton Eddy, Minneapolis

B.S. '39, M.D. '42, University of Vermont.  
Major: Surgery. Minor: Pathology. Thesis:  
Late Results of Vagotomy in the Treatment  
of Idiopathic Ulcerative Colitis and Regional  
Enteritis.

Elmer Graham Lampert, Chicago, Ill.  
B.S. '35, Wheaton College; M.D. '40, Loyola  
University (Chicago, Ill.). Major: Surgery.  
Minor: Pathology. Thesis: The Incidence of  
Malignancy in Resected Gastric Ulcers Be-  
lieved Preoperatively to Be Benign.

Rudolph Matas Landry, New Orleans,  
La.

B.S. '39, M.D. '42, Tulane University. Major:  
Surgery. Minor: Surgical Pathology. Thesis:  
Linitis Plastica: The Various Diseases Which  
May Produce the Leather Bottle Stomach.

Walter Irving Lillie, Rochester

M.D. '41, University of Michigan. Major:  
Surgery. Minor: Surgical Pathology. Thesis:  
Coelomic Cysts of the Mediastinum.

John Wade Long, Jackson, Miss.  
M.D. '41, Tulane University. Major: Surgery.  
Minor: Surgical Pathology. Thesis: Recurrent  
Versus New Independent Carcinomas of  
Colon and Rectum.

John Regis Miller, Braddock, Pa.  
B.S. '38, M.D. '42, University of Pittsburgh.  
Major: Surgery. Minor: Surgical Pathology.  
Thesis: Resistance of Explanted Gastric Mu-  
cosa to Various Chemical and Physical Agents.

Carleton Alexander Nelson, Minne-  
apolis  
B.A. '37, Macalester College; B.S. '41, M.D.  
'42, University of Minnesota. Major: Surgery.  
Minor: Pathology. Thesis: Wound Healing.  
Gain in Tensile Strength in Sutured Ab-  
dominal Wall Wounds in Rabbits.

Harrison Christopher Putman, Jr.,  
Canton, Ill.  
B.S. '42, M.D. '43, Northwestern University.  
Major: Surgery. Minor: Pathology. Thesis:  
Primary Abdominal Actinomycosis.

John Robert Rydell, Superior, Wis.  
B.S. '42, University of Wisconsin; M.D. '44,  
Harvard University. Major: Surgery. Minor:  
Surgical Pathology. Thesis: Pleural Reactions  
to a Polythene Prosthesis After Unilateral  
Pneumonectomy in the White Rat.

John Robert Spencer, Boulder, Colo.  
B.A. '39, University of Colorado; M.D. '43,  
Harvard University. Major: Surgery. Minor:  
Surgical Pathology. Thesis: Uptake of Radio-  
iodine in Adenomatous Goiter. Autoradio-  
graphic Correlation of Uptake and Mor-  
phology.

Walton Dowdell Thomas, Mont-  
gomery, Ala.  
B.A. '41, Yale University; M.D. '44, Columbia  
University. Major: Surgery. Minor: Surgical  
Pathology. Thesis: The Effect of Wider Re-  
sections on the Prognosis of Gastric Cancer.

## Master of Science in Urology

Cary Patton Gray, Rushville, Ind.  
B.S. '39, University of Washington; M.D. '43,  
University of Oregon. Major: Urology. Minor:  
Surgical Pathology. Thesis: Chorioepitheli-  
omatous Elements in Teratoma Testis.

James Wellington Sargent, Milwaukee,  
Wis.  
B.A. '39, M.D. '43, University of Michigan.  
Major: Urology. Minor: Surgical Pathology.  
Thesis: Testicular Biopsies in Endocrine Dys-  
crasias with Special Emphasis upon the Ley-  
dig Cell.

## Master of Social Work

Revel Friedman Allerhand, Grand  
Forks, N.D.  
B.A. '47, University of North Dakota. Field of  
Concentration: Social Work.

Helene Nielsen Stadler, Minneapolis  
B.A. '48, University of Minnesota. Field of  
Concentration: Social Work.

## Doctor of Philosophy

Cyril Allen, Forest Lake  
B.S. with honors '41, Winona State Teachers  
College; M.A. '46, University of Minnesota.  
Major: History. Minor: Political Science.  
Thesis: The Career of Felix Belly in Con-  
nection with the Canal Projects in Central  
America. Major Adviser: Prof. T. B. Jones.

Hanumappa Ramappa Arakeri, Dhar-  
war, Bombay Province, India  
B.S. '40, University of Bombay; M.S. '48,  
University of Minnesota. Major: Agronomy.  
Minor: Soils. Thesis: The Relation of Some  
Environmental Factors to the Preamerger  
Treatment of Corn with 2,4-Dichlorophen-  
oxyacetic Acid and Soybeans with Ammonium  
Trichloroacetate. Major Adviser: Prof. R. S.  
Dunham.

John Herbert Ballard, Los Angeles, Calif.

B.Ch.E. with distinction '39, University of Minnesota. Major: Chemical Engineering. Minor: Metallurgy. Thesis: Limiting Flow Phenomena in Packed Liquid-liquid Extraction Columns. Major Adviser: Prof. E. L. Piret.

Lillian Lydia Biester, Minneapolis

B.A. '25, North Central College; M.A. '31, University of Wisconsin. Major: Education. Minor: Political Science. Thesis: What Possibilities Are There for Distributive Education in Minnesota? Major Adviser: Prof. N. L. Bossing.

Jay Selleck Buckley, Jr., Ansonia, Conn.

B.A. '44, Williams College. Major: Organic Chemistry. Minors: Pharmacology and Physiological Chemistry. Thesis: The Dienone-phenol Rearrangement. Major Advisers: Profs. R. T. Arnold and R. M. Dodson.

Jack Chernick, Lawrence, Kan.

B.A. '39, University of Manitoba; M.A. '42, University of Minnesota. Major: Economics. Minor: Political Science. Thesis: The Guaranteed Wage: An Economic Analysis of Its Scope and Limitations under a Private Enterprise System. Major Adviser: Prof. F. M. Boddy.

Gerald Ainsworth Cole, Minneapolis

B.A. '39, Middlebury College; M.S. '41, St. Lawrence University. Major: Zoology. Minor: Botany. Thesis: An Ecological Study of the Microbenthic Fauna of Two Minnesota Lakes. Major Adviser: Prof. Samuel Eddy.

William Grant Dahlstrom, Minneapolis

B.A. cum laude '44, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: An Exploration of Mental Status Syndromes by Factor Analytic Techniques. Major Adviser: Prof. S. R. Hathaway.

John Herbert Davis, Falls Church, Va.

B.S. '28, Iowa State College; M.A. '35, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Tax Status of Farmer Cooperatives. Major Adviser: Prof. O. B. Jesness.

Howard Livingston Dinsmore, New Wilmington, Pa.

B.A. with honors '42, Johns Hopkins University. Major: Physical Chemistry. Minor: Physics. Thesis: Infrared Intensities of Some Simple Molecules. Major Adviser: Prof. B. L. Crawford.

Francis Edward Drake, St. Paul

B.S. '32, M.A. '39, University of Minnesota. Major: Speech. Minor: Educational Psychology. Thesis: A Study of the Personality Traits of Students Interested in Acting. Major Advisers: Profs. F. M. Whiting and Howard Gilkinson.

Ernest Peter DuCharme, St. Paul

B.S. '38, St. Mary's College (Winona, Minn.); M.S. '43, DePaul University. Major: Plant Pathology. Minor: Botany. Thesis: The Nature and Control of the Tristeza Disease of Citrus. Major Adviser: Prof. E. C. Stakman.

Robert Arthur Ebel, Minneapolis

B.Ch.E. with distinction '40, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Study of Extraction from Solids. Diffusion Rates in Porous Solids. Major Adviser: Prof. E. L. Piret.

George Barker Engberg, Cincinnati, Ohio

B.S. with distinction '34, M.A. '39, University of Minnesota. Major: History. Minors: Education and Economics. Thesis: Labor in the Lake States Lumber Industry—1830-1930. Major Adviser: Prof. R. C. Loehr.

William Henry Fletcher, Nampa, Idaho

B.S. '39, College of Idaho. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: The Vibrational Spectra of Diazomethane. Major Adviser: Prof. B. L. Crawford.

Sidney James Goffard, Portland, Ore.

B.A. with distinction '38, M.A. '40, University of Michigan. Major: Psychology. Minor: Educational Psychology. Thesis: Some Dynamic Correlates of Sociometric Status. Major Adviser: Prof. P. E. Meehl.

George McRuer Guthrie, Paris, Ontario, Canada

B.A. with honors '46, University of Western Ontario. Major: Psychology. Minor: Neuropsychiatry. Thesis: A Study of the Personality Characteristics Associated with the Disorders Encountered by an Internist. Major Adviser: Prof. P. E. Meehl.

Philip Howard Harden, Wessington Springs, S.D.

B.A. '35, Greenville College; M.S. '41, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: The Stoneflies (Plecoptera) of Minnesota. Major Adviser: Prof. C. E. Mickel.

Arthur Lindenbaum, Minneapolis  
B.S. '39, M.A. '42, Niagara University. Major: Physiological Chemistry. Minor: Agricultural Biochemistry. Thesis: Investigations with Radioactive Isotopes. Major Adviser: Prof. W. D. Armstrong.

Rodney Frank Luther, Minneapolis  
B.B.A. '46, M.B.A. '47, University of Minnesota. Major: Economics. Minor: Mechanical Engineering. Thesis: The Motion Picture Industry. Major Adviser: Prof. R. S. Vaile.

Arthur John Madden, Jr., Minneapolis  
B.S. with high honors '40, University of New Hampshire. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Heat Transfer from Wires to Gases at Sub-atmospheric Pressures under Natural Convection Conditions. Major Adviser: Prof. E. L. Piret.

Johnny K. Matsushima, Ft. Lupton, Colo.

B.S. '43, M.S. '45, Colorado State College. Major: Animal Husbandry. Minor: Agricultural Biochemistry. Thesis: Variations in Fattening Performance of Typical Beef, Dairy, and Dual-purpose Steers. Major Advisers: Profs. L. M. Winters and W. H. Peters.

Howard Arthur Matzke, Winona  
B.S. '41, St. Mary's College (Winona, Minn.); M.S. '43, St. Louis University. Major: Anatomy. Minor: Physiology. Thesis: The Course of the Fibers Arising from the Nucleus Gracilis and Cuneatus of the Cat. Major Adviser: Prof. A. T. Rasmussen.

Pashupati Ram Mehta, Allahabad, India

B.S. '28, Benares Hindu University; M.S. '33, Allahabad University. Major: Plant Pathology. Minor: Botany. Thesis: Factors Affecting the Development of Corn Rust, *Puccinia sorghi* Schw. Major Adviser: Prof. E. C. Stakman.

M. Gamal Mostafa, Cairo, Egypt  
B.C.E. with honors '43, Fouad I University; M.S.C.E. '46, University of Washington. Major: Civil Engineering. Minor: Mathematics. Thesis: Analytical and Experimental Study of the Effects of Flow Characteristics and Fluid Viscosity upon the Movement of Bed-load in an Open Channel. Major Adviser: Prof. L. G. Straub.

Kotaro Murai, Denver, Colo.  
B.S.Ch.E. with distinction '44, M.S. '45, University of Nebraska. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Hyperconjugative Effect of Methylene Groups. Major Advisers: Profs. R. T. Arnold and R. M. Dodson.

Frederick Philips Pike, Raleigh, N.C.  
B.S.E. '34, University of Virginia; M.S.Ch.E. '36, Massachusetts Institute of Technology. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Physical Properties of Some Propionic Acid-Solvent-Water Systems. Major Advisers: Profs. C. A. Mann and N. H. Ceaglske.

Oscar Earl Reece, Cedar Falls, Iowa  
B.S.Ag. '31, Kansas State College; M.S. '45, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance of Reaction to Root and Stalk Rot in Maize. Major Adviser: Prof. H. K. Hayes.

Carl Ben Roubicek, Verdigr, Neb.  
B.S.Ag. '41, University of Nebraska; M.S. '48, Kansas State College. Major: Animal Husbandry. Minor: Plant Genetics. Thesis: An Analysis of the Breeding Methods Employed in the Development of the Minnesota No. 2 Herd of Swine at the Minnesota Northwest Experiment Station. Major Adviser: Prof. L. M. Winters.

Norbert Francis Ruszaj, Minneapolis  
B.S.A.E. '38, University of Michigan; M.S.A.E. '39, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics and Mechanics. Thesis: The Introduction of a Rational Method for the Determination of the Effect of a Dorsal Fin on an Airplane in Yaw. Major Adviser: Prof. J. D. Akerman.

Einar Eli Siro, Hibbing  
B.S. '33, Stout Institute; M.A. '36, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: Preparation and Up-Grading of Industrial Education Personnel in the United States. Major Adviser: Prof. H. J. Smith.

Charles Robert Stephens, Jr., Iuka, Miss.  
B.S. '43, Mississippi State College. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Studies of the Internal Reaction Micheal. Major Adviser: Prof. C. F. Koelsch.

Chi Tsao, Peiping, China  
B.S. '39, National Tsinghua University; M.S. '41, National Central University. Major: Entomology. Minor: Plant Pathology. Thesis: The Relative Efficiency of Newer Organic Compounds as Aphicides with an Evaluation of the Methods of Application. Major Adviser: Prof. A. A. Granovsky.

**Kwang-chi Tu, Hankow, China**  
B.S. '44, Nankai University. Major: Geology.  
Minors: Metallurgy and Petroleum Engineering. Thesis: The Hydrothermal Synthesis of Mg-Mica and Mg-Chlorite. Major Adviser: Prof. F. W. Gruner.

**Francis Shirley Warren, Ottawa, Canada**  
B.S.A. '46, Ontario Agricultural College; M.S. '48, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Correlation Studies of Yield and Other Characters in Rye Polycrosses. Major Adviser: Prof. H. K. Hayes.

**Reynold Millard Wik, Norbeck, S.D.**  
B.A. '36, Sioux Falls College; M.A. '40, University of Minnesota. Major: History. Minor: Education. Thesis: The Application of Steam Power to American Agriculture. Major Adviser: Prof. E. S. Osgood.



# 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, or light blue for Education. Orange denotes Technology; dark blue, Philosophy; purple, Law; green, Medicine; and pink, Music. Public Health is shown by salmon pink edging, Dentistry by lilac, Pharmacy by olive, and Commerce and Accounting by drab.

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

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

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

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

(In the order of their appearance on the platform)

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