

THE
UNIVERSITY OF MINNESOTA

Announces Its

March Commencement

1957

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, MARCH 21

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and sixth birthday. As from its very beginning, the University is dedicated to the task of training the youth of today, the citizens of tomorrow. How well it has succeeded is indicated by the number of doctors, lawyers, engineers, social workers, journalists, dentists, farmers, businessmen, and community and civic leaders in all fields—good citizens all—who have gone from its several campuses to participate actively in the upgrading of the welfare of the citizens of our state. During the period of its existence, the University has awarded more than 130,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

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

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

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

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University, from 7:00 to 7:30 p.m. they will hear the Frances Miller Brown Memorial bells being played from Northrop Memorial Auditorium, Miss Kathryn A. Simpson, SLA '58, carillonneur. Admission to the March commencement exercises is by guest card only. Guests will be seated as they arrive in the Auditorium and will remain seated until the colors are presented.

PRELUDE CONCERT: From 7:30 to 8:00 p.m., the University Concert Band Ensemble, Mr. Gale L. Sperry, Assistant Bandmaster and Director of Marching Bands, will play:

- Flag of Stars Overture - - - - - Gordon Jacob
- Folk Song Suite - - - - - R. Vaughan Williams
- Suite of Old American Dances - - - - - Robert Russell Bennett
- Celebration Overture - - - - - Paul Creston

PROCESSIONAL: March Processional - - - - - Clare Grundman

PROCESSIONAL: As candidates for degrees enter the Auditorium at 8:00 p.m., the curtain will be opened. Seated on the platform, left to right, are: Dr. Robert J. Keller, Professor of Education, Marshal; Dr. Ralph F. Berdie, Professor of Psychology, Marshal; Dr. Neal L. Gault, Assistant Dean of the College of Medical Sciences; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. Austin A. Dowell, Assistant Dean of the College of Agriculture, Forestry, and Home Economics; Dr. J. William Buchta, Associate Dean of the University College; Dr. Horace T. Morse, Dean of the General College; Colonel Robert D. McCarten, USAF, Professor of Air Science; Colonel Dean M. Benson, USA, Professor of Military Science and Tactics; Mr. True E. Pettengill, University Recorder; Dr. George A. Selke, Commissioner of Conservation for the State of Minnesota; Dr. James Lewis Morrill, President of the University; The Reverend George Elstrom, Adviser to the Seventh Day Adventist Students on the Minneapolis Campus of the University; Dr. Edmund G. Williamson, Dean of Students; Dr. Robert E. Summers, Dean of Admissions and Records; Captain Frank Bruner, USN, Professor of Naval Science and Tactics; Mr. Huntington Miller, Assistant Dean of the General Extension Division; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Mr. Elmer W. Johnson, Assistant Dean of the Institute of Technology; Dr. Walter Cook, Dean of the College of Education; Dr. William B. Lockhart, Dean of the Law School; Dr. John G. Darley, Associate Dean of the Graduate School; Mr. Roy A. Schuessler, Associate Professor of Music; Dr. Truman K. Nodland, Assistant Professor of Agricultural Economics, Marshal.

Order of Events

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

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

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

INVOCATION: The Reverend George Elstrom, Adviser to Seventh Day Adventist Students on the Minneapolis Campus of the University.

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

COMMENCEMENT ADDRESS: Dr. George A. Selke, LL.D., Commissioner of Conservation for the State of Minnesota, "Demands of Citizenship."

CONFERRING OF COMMISSIONS: Dr. Edmund G. Williamson, Ph.D., Dean of Students, will introduce Colonel Dean M. Benson, USA, Professor of Military Science and Tactics; Captain Frank Bruner, USN, Professor of Naval Science and Tactics; and Colonel Robert D. McCarten, USAF, Professor of Air Science, who will present the candidates for commissions in their respective branches of the Armed Services. The oath of office will be given by Captain Bruner; the commissions, by President Morrill.

CONFERRING OF DEGREES: Dean Williamson will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Assistant Dean Huntington Miller, LL.B., General Extension Division; Dean Horace T. Morse, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Associate Dean J. William Buchta, Ph.D., University College; Assistant Dean Elmer W. Johnson, M.E., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., for the College of Agriculture, Forestry, and Home Economics of the Institute

Order of Events

of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean William B. Lockhart, S.J.D., Law School; Assistant Dean Neal L. Gault, M.D., College of Medical Sciences; and Associate Dean John G. Darley, Ph.D., Graduate School.

PRESENTATION OF DIPLOMAS: With Dr. Robert E. Summers, Ph.D., Dean of Admissions and Records, presiding, all members of the March graduating class will pass across the stage to receive their diplomas.

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

“HAIL! MINNESOTA,” the University’s alma mater song: The audience and Mr. 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. Gale L. Sperry, Assistant Bandmaster, and the University Concert Band Ensemble.

Recessional - - - - - Schmidt

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Adjutant General Corps

Joseph Bernard Steen, Jr., Minneapolis

Second Lieutenant, Armor

Allen John Gummert, Minneapolis

Jude Ervin Hermsen, Little Chute,
Wis.

Second Lieutenant, Army Security Agency

Sheldon Lee Ekstrom, Chisago City

John Duane Flakne, Minneapolis

Second Lieutenant, Artillery

Ronald Jerome Goldman, Minneapolis

Second Lieutenant, Chemical Corps

David Stockbridge Chatterton, Minneapolis

Second Lieutenant, Corps of Engineers

Kenneth William Macek, Hopkins

Bruce Duncan McLellan, Minne-
apolis

Second Lieutenant, Infantry

Robert Earl Fredell, Minneapolis

Second Lieutenant, Military Police Corps

Kenneth Lyle Floberg, Minneapolis

Robert Terral Meredith, Minneapolis

Second Lieutenant, Ordnance Corps

Douglas Aylesworth Currence, St. Paul

Second Lieutenant, Quartermaster Corps

Clyde Eugene Hatcher, Minneapolis

Second Lieutenant, Signal Corps

John Lancaster Pennington, Minneapolis

Second Lieutenant, Transportation Corps

Francis Charles Haeg, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Allyn Earl Johnson, Winona

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Edwin C. Culbert, Jr., Minneapolis
Robert B. Gerlach, Robbinsdale
Harold A. Olsen, St. Paul

Donald H. Schmoltdt, Grand Forks,
N.D.

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Certificate

Robert Dwight Akenson, St. Paul
Frederick William Bergquist, St. Paul
Thomas Dominic Chrosniak, Jr.,
St. Paul

Edward Alexander James, St. Paul
Joseph Arius Rheault, North St. Paul
Gerald Benjamin Richert, Minneapolis
Walter Charles Vavrosky, St. Paul

Engineering Certificate

Kay Burdette Cottrell, Minneapolis
Duane Loren Devereaux, Minneapolis
David Andres Olson, Minneapolis

Harold Oscar Peterson, St. Paul
Charles Russel Weber, St. Paul
Robert Eugene Wolff, Bloomington

GENERAL COLLEGE

Associate in Arts

Stanley Jack Ahlberg, St. Louis Park
Myrtle Rose Allen, South St. Paul
Arthur Thomas Anderson, Minneapolis
Donald Evan Babb, Minneapolis
Roger Dwight Bergren, Minneapolis
Mike Betza, Smithmill, Pa.
Richard Charles Bowen, Minneapolis
George Wesley Brackenbury, Minneapolis
William Gingerich Browne, St. Paul
Scott Gary Burton, Minneapolis
Michael Thomas Callas, Minneapolis
Thomas Franklin Clawson, Excelsior
Lee Willard Craig, Minneapolis
Jack Douglas Crothers, Minneapolis
James Darwin Cunningham, Minneapolis
Thomas Wayne Cunningham,
Chicago, Ill.

James Anthony D'Allesantro, Montevideo
David Ronald Erickson, Minneapolis
Stanley Kiven Faust, Stillwater
Sigvart Erling Femrite, St. Paul
Stanley Forare, Minneapolis
Mary Genevieve Fraser, Minneapolis
James Weir Gedney, Minneapolis
Arnold Morris Goldman, Minneapolis
Eugene Joseph Gorman, St. Paul
Donald Alan Graf, St. Paul
Ronald Young Hagen, Minneapolis
David Frans Hiivala, Minneapolis
Stanley Phillip Holmes, Minneapolis
Howard Merrel Hovland, Minneapolis
Lester George Johantgen, Minneapolis
James Wesley Kidd, Jr., St. Paul
Robert Leonard Kirby, A.M.S., Miami, Fla.
Gary Melin Koehler, Minneapolis

Myron Kramarczuk, Minneapolis
 Kenneth John LeVasseur, Minneapolis
 Marshall Stuart Lifson, Minneapolis
 Marvin Julius Maanum, Starbuck
 Henry Warron Madsen, Minneapolis
 Roger Duane Mattison, Minneapolis
 John Louis McCoy, Minneapolis
 Bertrand William McIver, Minneapolis
 John Wilton Metz, Minneapolis
 Edward John Mitchell, Jr., Minneapolis
 William Penn Nelson, Minneapolis
 Ronald Ellsworth Neujahr, St. Paul
 Jerome Elton Nickelsen, St. Paul
 Daryle Joseph Norton, Plainview
 Philip Danforth Ocken, Minneapolis
 Bill Gerald Olsen, Minneapolis
 John Lawrence Olson, Minneapolis
 Stanley Edward Opstad, Jr., Minneapolis
 Ronald Dean Orluske, Lakefield
 Charles Douglas Parrott, Sparta, Wis.
 Charles Russell Pihl, Minneapolis

Roy Francis Rasmussen, Minneapolis
 Glenn Arthur Redmann, St. Paul
 Irwin Roitenberg, Minneapolis
 James John Ryan, West St. Paul
 William Walter Sandback, Minneapolis
 Donald Frederick Schmitt, Minneapolis
 Marshall Schoenzeit, St. Louis Park
 Peter Joseph Sheehan, Minneapolis
 Robert Frank Shimota, Minneapolis
 David Vincent Smith, Minneapolis
 Robert Frederick Sommer, Excelsior
 Joy Carmel Stern, St. Paul
 Anthony Robert Tempesta, Brooklyn Park
 James Thornton Toliver, Minneapolis
 Jean Bernard Velander, Minneapolis
 Harry Henry Wiebe, Jr., Minneapolis
 Jerome John Wiens, Minneapolis
 Larry Solow Wilk, Minneapolis
 Harley Otto Witte, Minneapolis
 Roger Conrad Wyatt, Hopkins
 Dennis Sanford Young, Minneapolis
 John Richard Zeher, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Stephen Sanford Annis, Minneapolis
 James Martin Berry, St. Paul
 Gerald Peter Corrigan, White Bear Lake
 Arthur Richard Gruber, Minneapolis
 Janice Marie Hanson, Browns Valley
 Curtis Wayne Johnson, Minneapolis
 Lenore Hatlestad Lindsey, Wayzata

LaVerne Sylvester Paulin, Minneapolis
 John Theodore Peck, St. Paul
 Thomas Patrick Riley, International Falls
 George William Sornson, Minneapolis
 Morris Kenneth Spiess, Hayfield
 Clifford Douglas Swedenburg, Minneapolis

Bachelor of Arts

Paul Arthur Aichele, St. Paul
 John Richard Albers, St. Paul
 Allan Edward Anderson, Minneapolis
 Ames Ekern Anderson, Minneapolis
 Audrey Johns Anderson, St. Paul
 Dennis Lee Anderson, A.A., Minneapolis

Edward Eugene Anderson, St. Paul
 Joanne Helen Andres, St. Paul, *CUM LAUDE*
 Marah MacRostie Bain, Anoka
 Gary Curtis Bennyhoff, Minneapolis
 John Fredric Biltz, Glen Lake, *CUM LAUDE*

Harold Robert Blank, A.A., Minne-
 apolis
 Jayne Clark Brattland, Bemidji, CUM
 LAUDE
 Gordon Richard Brockway, Duluth
 Dennis Burnell Brokke, Climax
 Carleton Wallace Brookins, A.A.,
 St. Paul
 James William Brown, Sioux Falls,
 S.D.
 Robert Duane Carrow, Marshall
 Charles Henry Chadbourn, Jr., Minne-
 apolis
 Betty Louise Coen, Pine Island
 Roger Evan Copeland, Minneapolis
 Edwin Charles Culbert, Jr., Minne-
 apolis
 Douglas A. Currence, St. Paul
 Ruth Henrietta Dahlberg, Marshall
 Paul Joseph Dietl, St. Paul
 Ronald Herman Dietzman, St. Paul
 Sheldon Lee Ekstrom, Chisago City
 James Harry Fankhanel, Minneapolis
 George John Fitzpatrick, St. Paul
 Keith Alfred Fligge, Albert Lea
 Kenneth Lyle Floberg, Minneapolis
 Philip Anthon Flom, Twin Valley
 Jerome Conrad Fluth, Minneapolis
 Amby Michael Foley, New York, N.Y.
 Stephen Arthur Franzmeier, St. Paul
 Donald Merrill Garland, St. Paul, CUM
 LAUDE
 Trevor Roy Gettelman, Minneapolis
 Karl Jerome Grahek, A.A., Ely, CUM
 LAUDE
 Calvin DeWitt Gruver, Two Harbors
 William Richard Hendrickson, Minne-
 apolis
 Jude Ervin Hermesen, Little Chute,
 Wis.
 Grace Peterson Hinrichs, Red Wing,
 CUM LAUDE
 Alfred Charles Holte, St. Louis Park
 Ralph Herman Ingerson, St. Paul
 Alicia Clara Johnson, Minneapolis
 Roger Warren Kelly, Minneapolis
 Leland Paul Krebs, Jr., St. Paul
 Clifford Martin Kuehne, A.A., Man-
 kato, CUM LAUDE
 George Frederic Kuettner, Jr., A.L.A.,
 St. Paul
 James Reeve Lambert, Sioux City,
 Iowa
 Nancy Bernadine Landeene, Alex-
 andria
 Barbara Joan Lee, Mound
 Roger H. Lee, Stillwater
 Janna Orletta B. Leffingwell, Minne-
 apolis
 Ann Clare Lindholm, St. Paul
 Larry F. Lindsay, Wayzata
 Janet Smith Logan, Minneapolis
 Stephan Luciw, Minneapolis
 Eleanor Vaill MacRostie, Minneapolis,
 CUM LAUDE
 Clarice Cochran Mattson, St. Paul
 Edward Eugene McCullough, Minne-
 apolis
 Olive Elizabeth McDowall, St. Cloud
 Charles Theodore Mockenhaupt,
 St. Paul
 Richard Jerome Myers, Mankato
 James Ralph Nelson, Minneapolis
 Eric Hans Nielsen, Askov, CUM LAUDE
 James Orville Norby, Appleton
 Harold Anker Olsen, St. Cloud,
 MAGNA CUM LAUDE
 Milton George Patka, Winton
 Duane Adolph Paulsen, Luck, Wis.
 Bruce Dale Pelletier, Minneapolis
 John Lancaster Pennington, Minne-
 apolis
 John Edward Petroske, Hibbing
 Lola R. Weinkauff Quam, Minneapolis
 Jerry Keith Randall, Grand Rapids
 Donald John Reinhardt, Owatonna
 William Monroe Robbins, Pierre, S.D.
 David Bernard Ruprecht, Eden Valley
 Ina Sarkans, Riga, Latvia
 Sharon Kay Schlechter, Thief River
 Falls
 Donald Howard Schmoldt, Grand
 Forks, N.D.
 Kazuko M. Shimada, Tokyo, Japan
 Harriet Jean Slater, Minneapolis, CUM
 LAUDE
 Robert Francis Stadvold, Crookston
 Joseph Bernard Steen, Jr., Minneapolis
 James Elwyn Strand, Bayport

Frank Michael Streitz, Jr., Minne-
apolis
Lucille Kincheloe Sukalo, St. Paul
Trilby Taylor, Minneapolis
Herbert Gene Lincoln Troester,
McGregor, Iowa
Roselyn Dorothy Voelzke, Minne-
apolis, CUM LAUDE

Clifford Allen Waters, Mound
Arthur Thomas Wefen, Minneapolis
William Charles Wendt, Winona
Lenore Annette White, Minneapolis,
MAGNA CUM LAUDE
Margaret Emily Whitehill, Knox, Pa.,
CUM LAUDE
Joy Darlene Winkie, Excelsior

UNIVERSITY COLLEGE

Bachelor of Arts

Robert Earl Fredell, A.A., Minneapolis Joyce Ann Matejcek, St. Paul

Bachelor of Science

Lynn Elbert Bowe, Elk River

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Donald Maynard Davidson, Emmons, Andrew R. McFarland, Carlton,
WITH DISTINCTION WITH DISTINCTION

Bachelor of Architecture

George Leilani Ah Tou, B.A., John Reichard Miller, Minneapolis,
Hilo, Hawaii WITH DISTINCTION
Ronald Wayne Pontinen, Duluth

Bachelor of Chemistry

Lyle Ferdinand Elmquist, St. Paul Donald Eugene Wald, St. Paul

Bachelor of Civil Engineering

Robert Henry Cartford, Jr., Moose Donald Richard Peterson, Centuria,
Lake Wis.
Charles Howard Michaelson, St. Paul Robert Ted Schroeder, Mankato
William George Mueller, Watertown Douglas Joseph Shoemaker, St. Paul

Bachelor of Science in Electrical Engineering

George M. Lange, Decatur, Ill.**

Bachelor of Industrial Engineering

Robert Laurence DeVries, St. Cloud
Bruce Duncan McLellan, Hastings

Richard T. Swan, North St. Paul

Bachelor of Mechanical Engineering

Robert Arthur Almer, St. Cloud
LeDell Earl Benson, Minneapolis
James Dale Bratsch, Le Sueur
Merlin Bennett Christianson, Austin
John Edward Hahn, Boyd, WITH DIS-
TINCTION

James Dorman Jackson, St. Louis Park
Kenneth William Macek, Hopkins
Roman Smulka, Minneapolis
Paul Arthur Swanson, St. Paul

Bachelor of Mining Engineering

Richard Einar Husby, Montevideo

Lawrence Kenneth Moran, Robbins-
dale

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

Civil Engineer

Olav K. Normann, B.C.E. '28, University of Minnesota, thesis, "Construction of Concrete Pavements using Powered Roller to Compact Freshly Placed Concrete."

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

Bachelor of Science

Celia Norling Anderson, Minneapolis, Home Economics
Donald Lavane Becker, Chatfield, Agriculture
Margaret Mary Beer, St. Peter, Home Economics
Russell K. Bjorhus, Ulen, Agriculture

Joan Ellen Borgeson, Anoka, Home Economics
Richard Jerome Call, Minneapolis, Forest Management
Dorothy Jean Gillie Castle, Williams, Home Economics

** Degree conferred as of June 13, 1927.

- Robert Remer Davidson, West Allis, Wis., Forest Management
 Donald Paul Franzneier, Norwood, Science Specialization, WITH HIGH DISTINCTION
 Thomas Patrick Ginnaty, Jr., St. Paul, Forest Management
 James Henry Hammill, Minneapolis, Agriculture
 Walter George Hartman, Minneapolis, Forestry
 Phillip Harold Jaquith, Milwaukee, Wis., Forest Management
 Allyn Earl Johnson, Winona, Fishery and Wildlife Management
 Marlin Oscar Johnson, Hallock, Agriculture, WITH DISTINCTION
 Jerry Robert Kline, Minneapolis, Science Specialization, WITH DISTINCTION
 George Clayton Lampman, St. Paul, Forest Management
 Robert A. Lueth, Schiller Park, Ill., Agriculture
- Charles Ervin McDonald, Reads Landing, Forest Management
 John Harrison Munn, Minneapolis, Fishery and Wildlife Management
 Lester Netwal, Jr., La Crosse, Wis., Forestry
 Edward Francis Nuebel, St. Paul, Dairy Industry
 John Hamilton Ohman, St. Paul, Forest Management, WITH DISTINCTION
 Barry Leon Peterson, St. Paul, Fishery and Wildlife Management
 William Anthony Schipferling, Menasha, Wis., Forest Management
 Edward Charles Schwab, St. Paul, Dairy Industry
 Duane Miles Smith, La Porte, Ind., Agriculture
 Dennis Crienus Van Beek, Holland, Agriculture
 Richard Harvey Waring, Glen Ellyn, Ill., Forest Management, WITH DISTINCTION
 Jack Allen Weissling, Lakeville, Forest Management

COLLEGE OF EDUCATION

Bachelor of Science

- Priscilla Aftreth, Minneapolis
 Fred Isador Badiner, A.A., Minneapolis
 Nancy Ann Bowen, South St. Paul, WITH HIGH DISTINCTION
 Constance L. Chivers Bowman, B.A., Minneapolis
 Roland A. Brenner, Minneapolis
 Mary Margaret Machula Carlson, Minneapolis
 Mary Jean Carsey, Flint, Mich.*
 Dorothy Wynelda Cavanaugh, Santa Ana, Calif., WITH HIGH DISTINCTION*
 Dorothy Mae Chartrau, New Madrid, Mo., WITH DISTINCTION*
 Darrell Royce Cochran, Rochester
- Gerhard David Cohn, A.A., St. Paul
 Ronald Lee Craven, Huntley
 Ann Margaret J. Crisp, Ironwood, Mich.
 Joseph Melvin Elliott, Minneapolis
 Harry Verne Evans, Jr., Minneapolis
 Sarah Ann Frost, Oak Terrace, WITH DISTINCTION
 Gail LaVonne Grewe, St. Cloud
 Estelle Gladys Griffen, Morris
 Francis Charles Haeg, St. Louis Park
 Glen William Hambleton, Isle, WITH DISTINCTION
 Mary A. Wojtas Harmon, Minneapolis
 Barbara Ann Holte, A.A., Minneapolis
 Rhoda Joyce Schonberg Johnson, Minneapolis

* Nursing Education Curriculum

Mary Ann Lenhard, Minneapolis
Charles William Martin, A.A., Rochester, WITH DISTINCTION
 Marcella Koerber Mathews, Ph.B., Minneapolis
 Jane Tsuyako Matsuura, Minneapolis
Lois Marie Crosby McConnell, St. Paul, WITH DISTINCTION
 Robert Terral Meredith, Minneapolis
Marcelyn Alice Mohn, Excelsior, WITH DISTINCTION
 Karin Elizabeth Nelson, St. Paul
Walton Charles Nelson, Willmar, WITH DISTINCTION
 Marilyn Beth Nordstrom, Minneapolis, *WITH DISTINCTION*
 Mary Helen Olsen, Minneapolis

Marion Thora Overboe, Minneapolis
 Gordon Bernard Palmer, New Ulm
 Jean Lorraine Parks, Ulysses, Neb.*
 Sally Ann Pearson, Sheridan, Wyo.
 Larry Kent Petterson, Minneapolis
 Edward Gerald Prohofskey, Minneapolis
 Lola Ann Roberts, Waterville, Iowa
 Elissa Rolnick Rubinstein, B.A., St. Paul
 Beverly Jane Cole Schmidt, B.A., Minneapolis
 Barbara Grace Smith, Minneapolis
 Deon Marie Strandberg, Minneapolis
 Kathleen Carol Thompson, Excelsior
 Mary Louise Wieger, St. Paul*
 Patricia Alice Yahnke, Good Thunder

Master of Education

Merle Wilk McFeters, B.S., Minneapolis*
 George Frederick Muenchow, B.S., Minneapolis

Margaret Frances Seckman, B.S., Clarksburg, W.Va.

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

Bachelor of Science

James Leonard App, Fairmont, Agricultural Education
 Oscar Selmer Breiland, Thief River Falls, Agricultural Education
 Nickolas Alfred Bresson, Morris, Agricultural Education
 Arthur Marvin Clementson, Grantsburg, Wis., Agricultural Education
 Joseph L. Fox, Rosemount, Agricultural Education
 Donald Ellsworth Gustafson, Proctor, Agricultural Education
 Arthur John Hanson, Braham, Agricultural Education

Louise Barbara Hopp, Wadena, Home Economics Education
 Rollis Odell Larson, Mabel, Agricultural Education
 Arthur William Nielsen, Hutchinson, Agricultural Education
 Sharyn Esther Gallagher Salzman, Montevideo, Home Economics Education
 Rebecca Ann Wirt, Lewiston, Home Economics Education, *WITH DISTINCTION*

* Nursing Education Curriculum

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

- Allen Engvald Anderson, Aitkin
Gordon John Bailey, Newport
Fred Dana Baldwin, Edgerton
Walter Henry Bernhardson, Minneapolis
Charles Young Brock, Hastings
Lawrence John Chlebeck, St. Paul
Bernie Wilson Coderre, Marshall
Robert Earl Costigan, Minneapolis
John Robert Cox, Corinth, Miss.
John Leroy Daigle, Minneapolis
Ansis Luis Darzins, Bahia-Brazil, WITH DISTINCTION
Vance Donald De Long, Minneapolis
Richard Elwyn Dolby, St. Paul
Richard Albert Fillmore, Excelsior
John Duane Flakne, A.L.A., Minneapolis
Lonny Herbert Flemmer, A.L.A., Minneapolis
Donald James Gibb, Minneapolis
Allan John Gummert, Minneapolis
Gerald Michael Herron, Easton
Milton Henry Hildebrandt, St. Paul WITH DISTINCTION
Charles Eldon Hilstad, Kenyon
Wend Thomas Kadrlik, East Grand Forks
Vernon Anton Knutson, Minneapolis
Donald Clarence Larson, Minneapolis
John M. Lord, St. Paul
Kenneth Jerome Maas, Jr., St. Paul
Donald Marvin Mattsson, B.S., Minneapolis
Walter Lee Moline, Minneapolis
Carol Leigh Morris, Tampa, Fla., WITH DISTINCTION
Allan Nylin Nash, Tracy
Charles Raymond Oase, St. Paul Park
George Allan O'Connor, White Bear Lake
Robert Gordon Oie, Robbinsdale
Gerald Joseph Olerud, A.A., Rochester, WITH DISTINCTION
William Jerome Oxtan, Finley, N.D.
William Raymond Park, A.L.A., St. Paul
Aldo Frank Pertile, Chisholm
Roger LeRoy Rustad, Minneapolis
John Jerome Sampson, St. Paul, WITH HIGH DISTINCTION
Donald George Schlachter, Minneapolis
Spencer James Sokolowski, Minneapolis
George William Sornson, Minneapolis
Arne Paul Stovring, Askov
Robert Elmer Swanson, Cherokee, Iowa
Clifford Douglas Swedenburg, Minneapolis
Ronald Hisao Tamanaha, Wailuku, Hawaii
Lawrence Edward Tomai, St. Paul
James Lowell Tonius, Duluth
Harlow Emerson Van der Boom, Platte, S.D.†
Thomas Crawford Webb, Minneapolis
Ronald Herman Widenhoefer, Minneapolis

LAW SCHOOL

Bachelor of Science in Law

Gordon L. Davis, Minneapolis

† Degree conferred as of December 16, 1937.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing**

- Marian Hedvig Anderson, Minneapolis
Marian Ruth Anderson, A.A., Virginia
Yvonne Helen Bakken, Bismarck,
N.D.
Janet Mary Beske, Minnesota Lake
Janet Marie Billings, Franklin
Hope Elizabeth Bouvette, Hallock,
WITH DISTINCTION
Jacqueline Kaye Bucklen, Bemidji
Barbara Jane Young Clancy, Duluth,
WITH DISTINCTION
Margaret Janet Colebank, Minne-
apolis, WITH HIGH DISTINCTION
Mary Paavola Dalla Lana, Hibbing
Carol Larson Ekelund, Glen Lake,
WITH DISTINCTION
Elissa Dickey Guderyahn, Sioux Falls,
S.D., WITH DISTINCTION
Jennie Lee Gustavson, Olivia
Audrey Jean Hagen, Minneapolis
Sarah Louise Nordstrom Hanna, A.A.,
Minneapolis, WITH DISTINCTION
Jean Lois Hansen, Minneapolis
Heather Ann Hanson, Walker, WITH
DISTINCTION
Yvonne Fredrickson Hargens, Litch-
field
Joyce Gwendolyn Hillestad, South
St. Paul, WITH HIGH DISTINCTION
Dagny Arlene Hopper, Minneapolis,
WITH DISTINCTION
Margaret Nourse Hulbert, Brainerd,
WITH DISTINCTION
Marlyn Sonia Jackson, Minneapolis,
WITH HIGH DISTINCTION
Mary Patricia Jaeger, Darfur, WITH
HIGH DISTINCTION
Doris Lenora Kersting, Cohasset, WITH
HIGH DISTINCTION
Carol LaVonne Knutson, Hallock
Marilyn Ann Lande, Minneapolis
Elaine Joanne Lindbeck, A.A., Ely
Jean Anne Loomer, Elbow Lake
Cynthia Mayhew Lund, Minneapolis,
WITH DISTINCTION
Carol-Anne Macomber, Chevy Chase,
Md.
Arlene Erickson Mann, Kelliher
Martha Jane McGuire, Minneapolis
Carolee Ruth Mickelson, Mound,
WITH HIGH DISTINCTION
Nancy Ann Morris, Denver, Colo.
Carol Ruth Niemann, New Ulm
Mary Vendela Peterson, Duluth, WITH
DISTINCTION
Barbara Jim Reid, Sisseton, S.D.
Susan Jane Richards, Eau Claire, Wis.,
WITH DISTINCTION
Janice Lee Rupert, Ford City, Pa.
Sharon Oswald Schamber, New Ulm,
WITH DISTINCTION
Patricia Larane Short, A.A., Pelican
Rapids
Mary Kay Swedenburg, Glenwood
Martha Glesne Thompson, Fort
Dodge, Iowa, WITH HIGH DISTINC-
TION
Mary Ann Turner, Lakeville
Dorolyn Mary Tuttle, Medford, WITH
DISTINCTION
Roberta Treby White, St. Paul, WITH
DISTINCTION
Audrey Gladys Wohlers, Lake City
Ruth Evangeline Ylvisaker, Moorhead,
WITH DISTINCTION

** These degrees are conferred subject to the satisfactory completion of nursing practice prior to June 15, 1957.

Bachelor of Science in Nursing Administration

Joan Margaret DeMarce, Benson
Donna Elizabeth Domer, Minneapolis,
WITH DISTINCTION
NancyLee Arbutus Hartig, Duluth,
WITH DISTINCTION
Wanda Fay Keller, Lemmon, S.D.,
WITH DISTINCTION

Elizabeth Meehan, Minneapolis, WITH
DISTINCTION
Janie Annaretta Sinclair, Strathclair,
Manitoba, Canada, WITH DISTINC-
TION
Beverly Joyce Thoren, Minneapolis,
WITH DISTINCTION

Bachelor of Science

Signe Adele Hanson Christensen, Min-
neapolis, Public Health Nursing
Anne Gerlovich, Duluth, Public
Health Nursing
Patricia Ann Hass, Duluth, Public
Health Nursing
Marion Jensen Hudak, Minneapolis,
Public Health Nursing
Bertha Emelia Kukulski, New Kensington,
Pa., Public Health Nursing
Alice Ann McGown, Aitkin, Public
Health Nursing, WITH DISTINCTION

Marian Luella McReavy, Minneapolis,
Public Health Nursing
Eileen Larson Tjepkema, Minneapolis,
Occupational Therapy
Eleanore Kathryn Tschida, St. Paul,
Public Health Nursing
Shirley M. Veith, Red Wing, Public
Health Nursing
Agnes Anne Wiens, R.N., Delft, Pub-
lic Health Nursing
Everene Randall Wolcott, R.N., Hast-
ings, Public Health Nursing

Master of Public Health

Miriam Edna Shaffer, B.S., Minneapolis

GRADUATE SCHOOL

Master of Arts

Val E. Arnsdorf, Minneapolis
B.S. '50, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

John Richard Aura, Minneapolis
B.S. '50, University of Minnesota. Field of
Concentration: Educational Administration.

John Montgomery Bell, St. Paul
B.A. *cum laude* '54, University of Minnesota.
Major: English. Minor: French. Thesis: As-
pects of Animal Imagery in Jonathan Swift.

Karwyn St. Onge Bissonnette, St. Paul
B.S. '53, University of Minnesota. Field of
Concentration: Educational Psychology.

Franklyn George Bonn, Jr., St. Paul
B.A. *summa cum laude* '54, University of
Minnesota. Field of Concentration: Political
Science.

Dorvan Harold Breitenfeldt, Perham
B.S. with distinction '55, University of Minne-
sota. Major: Speech Pathology. Minor: Psy-
chology. Thesis: A Comparative Study of Stu-
dents with Diagnosed Speech Defects Who
Voluntarily Seek Therapy With Those Who
Do Not.

Richard Bradley Burtis, Minneapolis
B.A. *magna cum laude* '52, University of Min-
nesota. Field of Concentration: History.

William E. Cahill, Minneapolis

B.A. *magna cum laude* '47, University of Minnesota. Major: Anthropology. Minor: Psychology. Thesis: The Gabe Hollow Rock Shelter and the Gabe Hollow Spring Village Site Near South Garryowen in Jackson County, Iowa.

Thomas Paul Carlson, Minneapolis

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

David Wen-Wei Chang, China

B.A. '55, Southwestern at Memphis. Field of Concentration: International Relations.

Chun Chien, Hangchow, Chekiang, China

B.A. '51, National Taiwan University. Major: Economics. Minor: Business Administration. Thesis: Monetary Expansion: A Study of Note-Issue and Its Regulation.

John B. Forbes, Minneapolis

B.A. *cum laude* '52, Harvard College. Field of Concentration: Library Science.

Reed G. Geiger, Lakewood, Ohio

B.A. '54, College of Wooster. Major: History. Minor: Political Science. Thesis: Enclosure by Private Act of Parliament: A Study in Administration.

Somnath Ghei, New Delhi, India

B.A. '45, Edwardes Mission College; B.T. '46, Islamia College; M.A. '51, East Punjab University College. Field of Concentration: Psychology.

James Robert Glennon, Park Forest, Ill.

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

Curtis H. Hanson, Richfield

B.S. '54, Eau Claire State Teachers College. Field of Concentration: Curriculum and Instruction.

Gerald Noble Hardtke, Northfield

B.A. '46, Pacific Lutheran College. Field of Concentration: Educational Administration.

William Richard Harmer, Mankato

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

David Sprague Herreshoff, Minneapolis

B.A. '52, University of Akron. Major: English. Minor: Comparative Literature. Thesis: The Historical Context of Milton's *Of Education*.

Katharine Marie Holum, Minneapolis

B.A. '46, Luther College; B.S. in L.S. '50, University of Minnesota. Field of Concentration: Music.

Milton James Hughes, Minneapolis

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

Daniel Isaak, Dinuba, Calif.

B.A. '50, Tabor College. Major: Zoology. Minor: Botany. Thesis: A Study of the Thermal Tolerance of a Terrestrial Oligochaete, *Eisenia foetida* (Savigny).

Clarence Edwin Jacobson, Rush City

B.E. '46, Superior State Teachers College. Field of Concentration: Educational Administration.

Henry Frank Janzen, Minneapolis

B.S. '48, St. Cloud State Teachers College. Field of Concentration: Educational Administration.

Julius Edward Jorgenson, St. Paul

B.A. '34, St. Olaf College. Field of Concentration: Curriculum and Instruction.

Herbert Christian Karsten, Minneapolis

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

George William Kartak, Belle Plaine

B.S. '50, College of St. Thomas. Field of Concentration: Educational Administration.

Susan Curtis Lebeck, Minneapolis

B.A. *cum laude* '54, Carleton College. Field of Concentration: American Studies.

David Barnett Leonard, Minneapolis

B.A. '50, Carleton College. Field of Concentration: History.

Robert Orval Lindsay, Minneapolis

B.A. '53, University of Nevada. Field of Concentration: Library Science.

Lowell Claude Linnes, Hoffman

B.A. '53, Gustavus Adolphus College. Field of Concentration: Educational Psychology.

Anne Warrick Lommel, West
Lafayette, Ind.

B.S. '52, Purdue University. Major: History. Minor: Political Science. Thesis: The Struggle for the St. Lawrence Seaway—A Preliminary Study.

Margery Low, Minneapolis

B.S. '39, University of Minnesota. Major: Sociology. Minor: Agricultural Education. Thesis: An Evaluation of the Rural Community Nursing Experience in the Nursing Curriculum.

Regina Kisch Margitic, Minneapolis

B.A. '53, Barnard College. Field of Concentration: Linguistics and Comparative Philology.

Harriet Lillian Miller, St. Paul

B.A. '46, North Central College. Field of Concentration: Educational Psychology.

Edwin Richard Nelson, Rush City

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

Joan Catherine Newcomer, El Dorado,
Kan.

B.S. '51, Kansas State College. Field of Concentration: Educational Psychology.

Simon Thomas O'Loughlin, Minneapolis

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

Robert R. Pinches, Ames, Iowa

B.S. in Agr. '40, Ohio State University. Major: Sociology. Minor: Agricultural Economics. Thesis: A Study of the Group Activity Interests Among a Sample of Rural Young Adults in Minnesota.

Peter Austin Randall, Minneapolis

B.A. '52, Harvard College. Field of Concentration: Economics.

Georgia Beryl Roberts, Pullman,
Wash.

B.A. with honors '32, B.S. '40, The State College of Washington. Field of Concentration: Educational Psychology.

Anita Schlebusch, Pretoria, Union of
South Africa

B.A. '52, M.A. '54, University of Pretoria. Field of Concentration: Psychology.

John William Thiele, Jr., Maynard,
Iowa

B.S. '51, Iowa State College. Field of Concentration: Industrial Relations.

Peter Larsen Thorslev, Jr., Blair, Neb.

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

Gary Fred Traynor, Minneapolis

B.S. '50, Wisconsin State College. Field of Concentration: Educational Administration.

Thomas Phillip Vaaler, Cannon Falls

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

Gordon Carl Vail, Robbinsdale

B.S. '45, University of Michigan; B.S. '51, University of Minnesota. Field of Concentration: Educational Administration.

Jefferson Trowbridge Warren, Minneapolis

B.A. *magna cum laude* '47, University of Minnesota. Major: Art. Minor: Anthropology. Thesis: The Sword in Antiquity.

Bryce Charles Wheeler, Austin

B.S.L. '56, University of Minnesota. Field of Concentration: Industrial Relations.

Helen Edith Woods, St. Paul

B.A. '26, Hamline University. Field of Concentration: Curriculum and Instruction.

Richard Glenn Woods, Tulsa, Okla.

B.S. in Bus. Adm. '55, University of Tulsa. Field of Concentration: Industrial Relations.

Master of Arts in Public Administration

Robert Herron Atwell, Minneapolis
B.A. '53, College of Wooster. Field of Concentration: Public Administration.

Grant Jewett Merritt, Duluth
B.A. *cum laude* '55, University of Minnesota. Field of Concentration: Public Administration.

Bruce John Broady, Jr., St. Paul
B.A. '47, Hamline University. Major: Public Administration. Thesis: A Metropolitan Police Force for Ramsey County.

Master of Business Administration

Rishi Raj Gupta, Fazilka, India
B.A. '53, East Punjab University. Field of Concentration: Business Administration.

Master of Forestry

Thomas Daniel Rudolph, Bowls
B.S. '55, University of Minnesota. Field of Concentration: Forestry.

Master of Science

Harold Nicholas Benson, Milaca
B.S. with distinction '55, University of Minnesota. Field of Concentration: Poultry Husbandry.

Ijaz Hussain Chaudhri, Lahore,
Pakistan

B.S. '54, University of Punjab. Field of Concentration: Botany.

Doris Jean Cloud, Springfield, Mo.
B.S. in Ed. with distinction '53, Southwest Missouri State College. Field of Concentration: Home Economics.

Robert Louis Geronime, Rosemount
B.S. *magna cum laude* '50, College of St. Thomas. Field of Concentration: Physics.

Lynn Douglas Klinkenborg, Alexandria
B.S. '52, University of Minnesota. Field of Concentration: Poultry Husbandry.

Charles Edward Lofgren, Moose Lake
B.S. '51, University of Minnesota. Field of Concentration: Agricultural Education.

Lawrence Raymond Mangen, Minneapolis

B.S. with distinction '55, University of Minnesota. Major: Geology. Minor: Physical Chemistry. Thesis: Age Relationships of Igneous and Metamorphic Rocks of the Minnesota River Valley.

Murray Morris Neilson, Fredericton,
New Brunswick, Canada

B.Sc. '53, University of New Brunswick. Major: Entomology. Minor: Biostatistics. Thesis: The Measurement of Spruce Budworm Mortality Caused by Disease.

Yutaka Okinaka, Tokyo, Japan

B.S. '48, Tohoku University. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: A Fundamental Study of the Rotated Dropping Mercury Electrode in Polarography.

J. David Radford, Minneapolis

B.S. '53, University of Minnesota. Field of Concentration: Dairy Husbandry.

Robert Nelson Remund, Minneapolis

B.S. with distinction '52, University of Minnesota. Field of Concentration: Mathematics.

Navinkumar N. Shah, Bombay, India
B.Sc. (Agr.) with honours '50, University of Poona. Major: Entomology. Minor: Plant Pathology. Thesis: The Possible Discrimination of Insecticides by Exposing Larvae of *Aedes aegypti* L. to Narrow Wavelengths of Light.

Joseph Edwin Sizer, Minneapolis
B.S. '51, University of Minnesota. Major: Animal Husbandry. Minor: Agronomy. Thesis: Various Combinations of Corn Silage and Alfalfa Silage for Wintering Beef Calves.

Philip Lee Snowden, Medford, Mass.
B.S. '50, Howard University. Major: Entomology. Minor: Botany. Thesis: The Life History of *Polyplax spinulosa*.

Clifford LaVar Wilcox, Thornton, Idaho
B.S. '51, Utah State Agricultural College. Field of Concentration: Dairy Husbandry.

Master of Science in Aeronautical Engineering

Ervin Roy Bartle, Minneapolis
B.S. '55, University of Minnesota. Field of Concentration: Aeronautical Engineering.

Master of Science in Agricultural Engineering

Han Yeol Ryu, Soowon, Korea
B.S. '52, Seoul National University. Field of Concentration: Agricultural Engineering.

Master of Science in Chemical Engineering

Roger Thomas Johnson, Milwaukee, Wis.
B.S.Ch.E. '53, University of Wisconsin. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Statistical Evaluation of Mixing Effectiveness in a Continuous Flow Stirred Tank Reactor.

Jack Kenneth Rosemary, Turtle Creek, Pa.
B.S. '55, Pennsylvania State University. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: The Frequency Response of Pneumatic Transmission Lines.

Master of Science in Civil Engineering

Jong Wan Choi, Seoul, Korea
B.S. in C.E. '50, Seoul National University. Field of Concentration: Civil Engineering.

Yun-chang Ku, Anhwei, China
B.S. in C.E. '43, National Wu-Han University. Field of Concentration: Civil Engineering.

John Bronislaw Herbich, Montreal, Quebec, Canada
B.S. in C.E. '49, University of Edinburgh. Field of Concentration: Civil Engineering.

Deane Marcellus Wenger, Minneapolis
B.C.E. '53, University of Minnesota. Major: Civil Engineering (Highway Engineering and Soils Mechanics). Minor: Civil Engineering (Structural Engineering). Thesis: Accident Experience at 4-Way Stops.

Master of Science in Electrical Engineering

Ewald Gerhard Eichler, Wien
(Vienna) Austria

Graduate '54, Vienna University of Technology. Major: Electrical Engineering. Minor: Physics. Thesis: The Transmission of Acoustic (0,1)-Waves Through Thin Rectangular Plates.

Albert Archie Sorensen, Anoka

B.S. with high distinction '55, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of an Analog-To-Digital Converter.

Master of Science in Mechanical Engineering

Lowell Curtis Domholdt, Minneapolis
B.S. with high distinction '55, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Application of a Variable-Area Intake Manifold to a Four-stroke Gasoline Engine.

LaVerne William Rees, Minneapolis
B.S. with distinction '55, University of Minnesota. Field of Concentration: Mechanical Engineering.

Master of Science in Medicine

Henry Webster Blackburn, Jr.,
St. Paul

B.S. '47, University of Miami; M.D. '48, Tulane University. Major: Medicine. Minor: Physiological Hygiene. Thesis: The Total QRS Duration in the Electrocardiogram.

Peter Stuart Hetzel, Adelaide,
Australia

M.D. '48, University of Adelaide. Major: Medicine. Minor: Physiology. Thesis: The Influence of the Injection Site Upon Arterial Indicator Dilution Curves.

Master of Science in Pediatrics

Arthur Charles Smid, Chicago
Heights, Ill.

B.S.M. '46, M.D. '48, Creighton University. Major: Pediatrics. Minor: Hematology. Thesis: Acquired Idiopathic Hemolytic Anemia in Children: A Clinical Study with Special Morphologic Peripheral Blood, Differential Bone Marrow and Necropsy Studies.

Master of Science in Proctology

Markham John Anderson, Jr.,
Rochester

B.S. '43, M.D. '47, University of Minnesota. Major: Proctology. Minor: Surgical Pathology. Thesis: Perianal Hidradenitis Suppurativa—A Clinical and Pathological Study.

Joachim Hans Wittoesch, Insterburg,
East Prussia, Germany

M.D. '49, University of Wurzburg. Major: Proctology. Minor: Surgical Pathology. Thesis: Melanosis Coli.

Master of Science in Surgery

Franklin John Squires, Toronto,
Ontario, Canada

B.A. '40, United College; M.D. '44, University of Manitoba. Major: Surgery. Minor: Surgical Pathology. Thesis: A Clinico-pathological Study of Diastatic and Local Perforations of the Malignant Colon.

Doctor of Philosophy

Robert John Adrian, Cedar Falls, Iowa
B.A. '46, University of Illinois; M.A. '51, University of Minnesota. Major: Educational Psychology. Minor: Child Welfare. Thesis: The Relationship of Parental Personality Structures to Child Adjustment and Adoption Selection. Major Adviser: Prof. C. J. Hoyt.

Paul Severt Anderson, Cherry
B.B.A. '46, M.A. '48, University of Minnesota. Major: Economics. Minor: Mathematics. Thesis: An Empirical Test of the Acceleration Principle: A Study of the Relationship Between Gross Property and Sales. Major Adviser: Prof. C. L. Nelson.

Julio Bird-Piñero, Santurce, Puerto Rico

B.S. '48, University of Puerto Rico; M.S. '50, University of Minnesota. Major: Plant Pathology. Minor: Horticulture. Thesis: Mosaic of *Jatropha gossypifolia* in Relation to the Leaf-curl Virus of Tobacco in Puerto Rico. Major Adviser: Prof. T. H. King.

Jack Robert Cole, Los Angeles, Calif.

B.S. with distinction '53, University of Arizona. Major: Pharmaceutical Chemistry. Minors: Organic Chemistry and Pharmacology. Thesis: A Preliminary Phytochemical Investigation of *Digitalis lutea* First Year Growth. Major Adviser: Prof. Ole Gisvold.

Burton William DeVeau, Athens, Ohio

B.S. '47, Iowa State College; M.S. '48, Cornell University. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Ways in Which Educational Personnel, Parents, Pupils, and Other Citizens Participate in Secondary School Curriculum Development in Ohio. Major Adviser: Prof. N. L. Bossing.

Donald Dwight Dickenson, Paris, Ill.
B.S. '49, M.S. '50, University of Illinois. Major: Plant Genetics. Minor: Plant Pathology. Thesis: The Characteristics of Six Bromegrass (*Bromus inermis* Leyss.) Clones, Their Polycross and Single Cross Progeny. Major Adviser: Prof. H. L. Thomas.

Richard Earl Dickerson, Charleston, Ill.

B.S. '53, Carnegie Institute of Technology. Major: Physical Chemistry. Minor: Physics. Thesis: The Molecular Structure of B_6H_{12} . Major Adviser: Prof. W. N. Lipscomb.

Henry Eugene Fritz, St. Paul

B.S. with honors '50, M.A. '51, Bradley University. Major: History. Minor: Speech. Thesis: The Humanitarian Background of Indian Reform, 1860-1890. Major Adviser: Prof. E. S. Osgood.

Moishe Golubchuk, Portage Prairie, Manitoba, Canada

B.A. '49, B.Sc. (honors) '51, M.Sc. '52, University of Manitoba. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Relation of Molds and Mold Products to "Sick Wheat" and Other Types of Damage in Stored Wheat. Major Adviser: Prof. W. F. Geddes.

Don Ladoyt Good, Manhattan, Kan.

B.S. '47, Ohio State University; M.S. '51, Kansas State College of Agriculture and Applied Science. Major: Animal Husbandry. Minor: Agricultural Economics. Thesis: The Effects of Diethylstilbestrol Administered by Implantation and by Ingestion on Growth, Fattening, and Carcass Characteristics of Beef Steers. Major Adviser: Prof. L. E. Hanson.

George Sigurd Hage, Minneapolis

B.A. *magna cum laude* '38, M.A. '50, University of Minnesota. Major: American Studies. Thesis: Anti-Intellectualism in Newspaper Comment on the Elections of 1828 and 1952. Major Adviser: Prof. R. L. Jones.

Gordon Harold Hanson, Vancouver, British Columbia, Canada

B.A. '49, M.A. '51, University of British Columbia. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of Noise in Transistors. Major Adviser: Prof. Aldert van der Ziel.

Chikara Hirayama, Honolulu, Hawaii

B.S. '46, M.S. '48, University of Hawaii. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: I. Preliminary Investigation on the Role of Transition Metal Complexes in Nitrogen Fixation; II. Stereochemistry of Coordination Compounds: a. Solvent Effects in Optical Absorption. An Examination and Clarification of Spectra in Aqueous and Non-Aqueous Media; b. The Cis-Trans Isomerization of Dichlorobis(Ethylenediamine)Cobalt(III) Chloride and Dichlorobis(Propylenediamine)Cobalt(III) Chloride in Alcohols. Major Adviser: Prof. R. C. Brasted.

Pauline Helen Isaacson, Spring Valley, Wis.

B.E. '32, River Falls State Teachers College; M.A. '42, University of Wisconsin. Major: Speech. Minor: History. Thesis: Robert Alphonso Taft—An Assessment of a Persuader. Major Adviser: Prof. W. S. Howell.

Andrew O. Jensen, Minneapolis

B.E.E. with distinction '50, M.S. in E.E. '53, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Utilization of Piezoelectric Levitation in Studies of Piezoelectric Quartz Crystals. Major Adviser: Prof. R. F. Lambert.

Arne Kalervo Kemp, Nacogdoches, Tex.

B.S.F. '48, University of Georgia; M.F. '49, Duke University. Major: Forestry. Minor: Agricultural Economics. Thesis: A Study of Factors Associated with the Development of Collapse During Kiln Drying of Aspen Lumber. Major Adviser: Prof. L. W. Rees.

Ronald Avron Kroman, Minneapolis

B.A. *cum laude* '49, M.A. '54, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: An Investigation of an Hereditary Melanotic Tumor in *Drosophila melanogaster*: tu^{mf}. Major Adviser: Prof. D. J. Merrell.

Vincent James Landis, San Diego, Calif.

B.S. '50, State College of Washington. Major: Inorganic Chemistry. Minor: Analytical Chemistry. Thesis: Anomalous Optical Properties of Some Metal Complex Ions. Major Adviser: Prof. R. C. Brasted.

Lester Leroy Larson, White Bear Lake

B.S. with high distinction '50, D.V.M. '53, M.S. '53, University of Minnesota. Major: Veterinary Medicine. Minor: Bacteriology. Thesis: Neuroanatomical and Neurophysiological Studies of the External Genitalia of the Bull and Ram. Major Adviser: Prof. R. L. Kitchell.

Vaidyanatha Mahadevan, Trivandrum, India

B.Sc. '42, University of Travancore; M.A. '48, University of British Columbia. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Dilatometric Behavior of Tristearin, Triolein, and Mixtures Thereof. Major Adviser: Prof. W. O. Lundberg.

Gene Roland Medinnus, Austin

B.A. '51, M.S. '53, University of Minnesota. Major: Child Welfare. Minor: Speech Pathology. Thesis: An Investigation of Piaget's Concept of the Development of Moral Judgment in Six- to Twelve-Year-Old Children from the Lower Socio-Economic Group. Major Adviser: Prof. M. C. Templin.

José Méndez, Guatemala, Guatemala

B.S. '47, University of San Carlos; M.S. '48, University of Illinois. Major: Physiological Hygiene. Minor: Physiological Chemistry. Thesis: The Composition of the Body and Its Estimation by Indirect Methods. Major Adviser: Prof. Ancel Keys.

Harry Caesar Morris, New Orleans, La.

B.A. '49, M.A. '50, University of Miami. Major: English. Minor: Art. Thesis: Nineteenth and Twentieth Century Criticism of Shakespeare's Problem Comedies. Major Adviser: Prof. W. V. O'Connor.

James Robbs Nichols, Jackson, Tenn.

B.S. '49, University of Tennessee; M.S. '55, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: Superovulation and Ova Transplantation in the Bovine. Major Adviser: Prof. W. E. Petersen.

Charles Robert Olien, Hibbing

B.A. *cum laude* '50, M.S. '55, University of Minnesota. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: Studies on Necrosis in the Infection of Khapli Emmer by the Stem Rust Fungus. *Puccinia graminis* var. *tritici*. Major Advisers: Profs. Helen Hart and J. B. Rowell.

George Constantinos Papavizas,
Boston, Mass.

Graduate '47, University of Thessaloniki; M.S. '53, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Factors Influencing Invasion of Stored Wheat Seed by *Aspergillus* spp. and the Effects of Such Invasion on Germination and Amount of Germ Damage. Major Adviser: Prof. C. M. Christensen.

Glenn Arthur Peterson, Valley City,
N.D.

B.S. with honor '52, North Dakota Agricultural College. M.S. '56, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Statistical Evaluation of Early Generation Testing in a Barley Cross Using Related F_3 , F_4 , and F_5 Lines Grown Simultaneously. Major Adviser: Prof. J. W. Lambert.

Shree Krishna Prasad, Patna, Bihar,
India

B.Sc. Ag. '48, Kanpur Government Agricultural College; Graduate '52, Indian Agricultural Research Institute. Major: Entomology. Minor: Agronomy. Thesis: The Nature and Extent of Damage to Crucifers and Potatoes in Relation to Density of Insect Populations. Major Adviser: Prof. A. C. Hodson.

Robert Charles Rathburn, Chicago,
Ill.

B.A. with distinction '41, M.A. '42, Northwestern University. Major: English. Minor: French. Thesis: Dickens' Periodical Essays and Their Relationships to the Novels. Major Adviser: Prof. W. V. O'Connor.

Theodore Paul Reiling, St. Paul

B.S. '51, University of Minnesota; M.S. '53, Iowa State College. Major: Plant Pathology. Minor: Horticulture. Thesis: Studies on Virus Diseases of Canning Peas in Minnesota. Major Adviser: Prof. T. H. King.

Ranbir Singh Sandhu, Amritsar, Punjab,
India

B.Sc. '48, Khalsa College; B.Sc. '50, M.Sc. (Hons.) '52, Punjab University. Major: Plant Genetics. Minor: Botany. Thesis: Mutagenic Effects of 2,4-D in Barley and Wheat. Major Advisers: Profs. W. M. Myers and E. R. Ausemus.

Cherng Jiann Shiuc, Pin-nan, Fukien,
China

B.S. '44, Fukien College of Agriculture; M.F. '55, University of Minnesota. Major: Forestry. Minor: Botany. Thesis: The Anatomical and Physiological Effects of Chlorophenoxyacetic Acid Derivatives on Trembling Aspen (*Populus tremuloides* Michx.) with Special Reference to the Application of Such Chemicals as Debarking Agents. Major Adviser: Prof. R. M. Brown.

Armas Wayne Tamminen, Minneapolis

B.S. '40, M.A. '49, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: An Evaluation of Changes in Parents' Attitudes Toward Parent-Child Relationships Occurring During a Televised Program of Parent Panel Discussions. Major Advisers: Profs. C. J. Hoyt and W. W. Cook.

Robert Ralph Twelves, Salt Lake City,
Utah

B.S. '50, M.A. '52, University of Utah. Major: Organic Chemistry. Minor: Chemistry. Thesis: Negatively Substituted Methanes as Carbene Precursors. Major Adviser: Prof. W. E. Parham.

Robert George Vanderwater, Pekin,
Ill.

B.S. '50, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: An Analysis of Burnout in Two-Phase, Liquid-Vapor Flow. Major Adviser: Prof. H. S. Isbin.

Virgil Roy Walker, Minneapolis

B.S. with distinction '28, M.A. '33, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Utilization of Machine Punched Card Procedures in Large City Public School Systems. Major Adviser: Prof. O. E. Domian.

Ray A. Wigen, Menomonie, Wis.

B.S. '30, M.A. '33, University of Minnesota.
Major: Education. Minor: Industrial Education. Thesis: Technical Offerings for Industrial Arts Teachers at the Graduate Level. Major Adviser: Prof. W. J. Micheels.

Doctor of Philosophy in Dermatology and Syphilology

**Richard Knisely Winkelmann,
Rochester**

B.S. '43, University of Akron; M.D. '48, Marquette University. Major: Dermatology and Syphilology. Minor: Pathology. Thesis: The Neuroanatomy of Human Skin: A Morphologic Basis for Sensation. Major Adviser: Dr. R. R. Kierland.

Doctor of Philosophy in Medicine

Fouad Anis Bashour, Tripoli, Lebanon
B.S. '42, B.A. '44, M.D. '49, American University of Beirut. Major: Medicine. Minor: Anatomy. Thesis: Study of Uroporphyrin Metabolism with Special Reference to Conditions Other Than Porphyria. Major Adviser: Dr. C. J. Watson.

Academic Costume

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

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

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

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

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

(In the order of march)

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

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

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



UNIVERSITY OF MINNESOTA

Senior Reception

March 1957

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. J. L. Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the main ball-room of the Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Morrill, Dr. and Mrs. George A. Selke, and Miss Barbara Drongeson, Senior Coordinator, All-University Congress.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identification.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1957.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.

THE
UNIVERSITY OF MINNESOTA

Announces Its

June Commencement

1957

MEMORIAL STADIUM
SATURDAY EVENING, JUNE 15
AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

This Is Your University

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

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

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

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the University Artists Course, the Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

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

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

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

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

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

The summary financial statement of 1955-56 showed that the University received \$61,304,737.40 and spent \$61,305,615.38. This includes, of course, \$10,303,699.34 received from student tuition and fees, hospital and other departmental receipts; \$1,211,490.47 from intercollegiate athletics; \$10,666,778.11 from such services as dormitories and dining halls, printing, the laundry, University Press, Concerts and Lectures, University Theater, and Health Service and from the revolving funds; and \$13,145,587.04 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research, prizes, scholarships, and the care of the sick, as well as from the Permanent University Fund derived from land set aside by the Federal Government and the occupational tax on iron ore. Also, \$1,897,551.05 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$61,304,737.40, which the University received for 1955-56, \$24,079,631.39 came from the state.

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

Order of Events *

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

PRELUDE CONCERT: From 7:30 to 8:00 p.m., the University of Minnesota Concert Band and the University of Minnesota Men's Glee Club, Mr. Gerald R. Prescott, Associate Professor of Music and Bandmaster, conducting.

Selections from *Carmen* - - - - - Georges Bizet

Selections from *My Fair Lady* - - - - - Frederick Loewe

Selections from *Romberg* - - - - - MacLean-Beeler

French Military Marching Song—The Desert Song—Deep in My Heart, Dear—Your Land and My Land—One Alone—Golden Days—Softly, As in a Morning Sunrise—One Kiss—Stouthearted Men

Soloists: Jance Rittmaster, Larry Tradup, Mitchell Wisniewski, Robert Erickson, and Marvin Bloomquist.

The Men's Glee Club was formed in the fall quarter of 1955. It is currently a choir of 70 male voices, volunteers from all colleges and schools, selected by Mr. Richard Paige, Assistant Professor of Music.

PROCESSIONAL: Professor Prescott conducting.

"Marche Militaire Francaise" from

Suite Algerienne - - - - - Camille Saint-Saens

"March" from *Tannhauser* - - - - - Richard Wagner

PROCESSION: The procession, made up of Regents, faculty members, and candidates for degrees, will march from Northrop Field and will enter the Stadium at exactly 8:00 p.m. The line of march will be in the following order: Department of Military Science and Tactics; General Extension Division; General College; College of Science, Literature, and the Arts; University College; Institute of Technology; Institute of Agriculture; College of Education;

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

Order of Events

School of Business Administration; College of Pharmacy; Law School; School of Dentistry; College of Medical Sciences; and the Graduate School. University faculty members, Regents, and distinguished guests will be last in the line of march. Marshals will be Dr. Wendell L. Bartholdi, Associate Professor of Dentistry, School of Dentistry; Dr. Charles V. Netz, Professor of Pharmacy, College of Pharmacy; and Dr. William S. Howell, Professor and Chairman of Speech and Theater Arts, College of Science, Literature, and the Arts.

PRESENTATION OF COLORS: Following the procession, the color guard, made up of University Army, Air, and Navy ROTC Cadets and Midshipmen, will enter the Stadium. The audience will then rise and remain standing for the National Anthem and for the Invocation.

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

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

INVOCATION (the audience still standing): The Reverend E. Clayton Burgess, Adviser to Methodist Students and Staff Members on the Minneapolis Campus of the University.

CONFERRING OF AN HONORARY DEGREE: Dean Spilhaus will present Dr. Walter H. Brattain to President Morrill for the honorary degree, Doctor of Science.

WALTER H. BRATTAIN

BORN in China of American parents; graduate of Whitman College and the University of Oregon, and recipient of a Doctor of Philosophy Degree from the University of Minnesota; already a physicist of distinction at the beginning of World War II, he became a member of the National Defense Research Project at Columbia University and there made notable contributions to the study of the magnetic detection of submarines; now a leading international physicist who can look back on 26 years as a productive and inspiring member of the staff of the Bell Telephone Laboratories; acclaimed by the world of science and scholarship when he received in 1956, with Dr. John Bardeen and Dr. William Shockley, the Nobel Prize in Physics in recognition of his part in the development of the basic principles from which resulted the invention of the transistor, a revolutionary component of electronic circuits—

Order of Events

BECAUSE your scientific achievements have added in ways that are fundamental and epochal to an understanding of electron-physics, and thereby have strengthened our ability to maintain the national security; and because what you have done in your brilliant career enhances the well-being of men wherever scientific knowledge has impact on human lives, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Walter H. Brattain, the degree of Doctor of Science, *honoris causa*, with all the rights and privileges pertaining to that degree.

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

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

CONFERRING OF DEGREES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Assistant Dean Huntington Miller, LL.B., General Extension Division; Associate Dean Alfred L. Vaughan, Ph.D., General College; Dean E. W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Dean J. W. Buchta, Ph.D., University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Harold Macy, Ph.D., Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean Charles H. Rogers, Sc.D., College of Pharmacy; Dean William B. Lockhart, S.J.D., Law School; Dean W. H. Crawford, D.D.S., School of Dentistry; Dean H. S. Diehl, M.D., College of Medical Sciences; and Associate Dean John G. Darley, Ph.D., Graduate School.

PRESENTATION OF THE CLASS TO THE ALUMNI ASSOCIATION: Dr. Edwin L. Haislet, Director of Alumni Relations and Secretary of the University of Minnesota Alumni Association, will present members of the graduating class to Mr. Glenn E. Seidel, President of the Alumni Association, who will welcome them.

PRESENTATION OF DIPLOMAS: With Dean of Students Edmund G. Williamson, Ph.D., presiding, all members of the June graduating class will pass across the stage in columns of four and will receive their diplomas. Assisting the deans of the colleges or their representatives in the presentation of diplomas are: Assistant Professor Robert C. Slater, B.S., Assistant Director of Mortuary Science, General Extension Division; Associate Professor G. Gordon

Order of Events

Kingsley, Ed.D., General College; Assistant Dean Roger B. Page, Ph.D., College of Science, Literature, and the Arts; Assistant Dean Russell M. Cooper, LL.D., University College; Professor John H. Williams, Ph.D., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., Institute of Agriculture, and Assistant Dean W. T. S. Thorp, D.V.M., Director, School of Veterinary Medicine, Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Assistant Dean Robert J. Holloway, Ph.D., School of Business Administration; Professor Earl B. Fischer, Ph.D., College of Pharmacy; Clinical Professor Mark O. Pattridge, D.D.S., School of Dentistry; Assistant Dean H. Mead Cavert, Ph.D., College of Medical Sciences; and Professor Maurice B. Visscher, Ph.D., Head of Physiology, for the Graduate School.

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

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

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

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

TAPS: The University Concert Band.

(There will be no Recessional.)

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Adjutant General Corps

Charles Aronson, St. Louis Park
John L. Giefer, St. Paul
Paul M Joyce, Minneapolis

Garry K. Russel, Evan
Mayer S. Tapper, Minneapolis

Second Lieutenant, Armor

Arthur N. Grove, McIntosh

James C. Tracy, Minneapolis

Second Lieutenant, Army Security Agency

Richard D. Huseuth, Anoka
David W. Lange, Minneapolis

Donald A. Smith, Hudson, Wis.
Burton L. Wyss, Minneapolis

Second Lieutenant, Artillery

John E. Akins, Watertown
Carl R. Bergquist, Jr., Minneapolis
Clinton J. Dawes, Robbinsdale
John R. Ferlita, Aitkin
Burton C. Genis, Minneapolis
John Hauschild, Minneapolis
Edward E. Kirkbride, Philadelphia,
Pa.

Robert D. Olson, Minneapolis
Bernard D. Reisberg, Minneapolis
James P. Roles, St. Louis Park
Roger A. Wahldick, Arlington
Winslow E. Wedin, Minneapolis

Second Lieutenant, Corps of Engineers

William T. Erickson, Crosby

John R. Osberg, Minneapolis

Second Lieutenant, Infantry

Donald K. Barnes, St. Paul
Martin W. Gold, Indianapolis, Ind.

Robert M. Larson, Minneapolis
Donald I. Mueller, Minneapolis

Second Lieutenant, Medical Service Corps

Maynard C. Berland, Spring Grove
Roger D. Gabbert, Minneapolis
Gene P. Johnson, Cloquet
Terry C. Klas, St. Paul
John W. McTaggart, Minneapolis

Jerry K. Miller, Valley City, N.D.
Donald C. Nelson, Minneapolis
Robert E. Nordeen, Mora
Robert G. Shulze, Sauk Centre

Second Lieutenant, Military Intelligence

Max W. Frescoln, Winner, S.D.
Herbert F. Johnson, St. Paul
Larry W. Johnson, Princeton

Gene R. Sommers, Minneapolis
Gerald L. Thoreen, Minneapolis
John H. Wicks, Sioux Falls, S.D.

Second Lieutenant, Military Police Corps

Roderick D. Blanchard, Edina
Ronald E. Sullivan, Minneapolis

Gary G. Widell, Minneapolis

Second Lieutenant, Ordnance Corps

Donn P. Barber, Minot, N.D.
Richard J. Hakanson, Minneapolis
Harlow O. Johnson, St. Paul
Joseph H. Lamon, Jr., Austin
Scott W. McBurney, Minneapolis

David J. Moline, Minneapolis
John D. Overbye, Grafton, N.D.
Ronald P. Saunders, St. Paul
George T. Scott, Minneapolis
Philip G. Snyder, St. Paul

Second Lieutenant, Quartermaster Corps

John T. Coyne, St. Paul
Jerome P. Pederson, Minneapolis

Ramon L. Stave, Minneapolis
Robert E. Willow, Excelsior

Second Lieutenant, Signal Corps

James M. Foley, Excelsior
Gerald E. Frisch, St. Paul
Russell L. Hoehn, Princeton

Walter D. Mailand, Spring Valley
Russel J. McNaughton, St. Paul
Gordon L. Nylen, Minneapolis

Second Lieutenant, Transportation Corps

Charles A. Fredrick, St. Paul
Richard R. Hansen, Minneapolis

Robert N. Wige, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Walter G. Beckwith, Houston, Tex.
Paul L. Chapdelaine, St. Paul
Richard W. Ekblad, Forest Lake
Dennis R. Jordan, Minneapolis
David L. Mericle, St. Paul

Robert W. Puschinsky, St. Paul
Thomas E. Rohricht, St. Paul
Dennis N. Schafer, Lake City
Robert P. Tema, Minneapolis

Ensign, USNR

Sheldon D. Ajax, Minneapolis
Bradley K. Jones, Minneapolis
Ronald C. Ness, Minneapolis

Lawrence P. Schlernitzauer, Minneapolis

Ensign, SC, USN

James H. Malecki, Minneapolis

Ensign, SC, USNR

Robert M. Beaubaire, Minneapolis
Frederick L. Biederman, Osseo
Richard G. Eikos, Minneapolis

Ronald G. Harber, Minneapolis
Robert M. Knox, Minneapolis
Dean W. Petersen, Minneapolis

Second Lieutenant, USMC

Fred L. Cisewski, Winona

Second Lieutenant, USMCR

Robert C. Dick, Wayzata

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

John D. Anderson, Ironton
Richard F. Beggs, Minneapolis
Michael J. Evers, Theilman
Donald E. Fink, Jr., Milwaukee, Wis.
Donald J. Fremming, Fairmont
Robert G. Gerlach, Robbinsdale
Richard G. Hable, Milwaukee, Wis.
Donald J. Hankins, Cleveland
Neil A. Ludvigson, Austin
James R. Milner, Willernie
William D. Moran, Minneapolis

Thomas W. Murray, St. Paul
John A. Nelson, Spring Valley
Glen M. Personius, Fairmont
Eugene G. Sander, Dodge Center
Daryl D. Scheerhoorn, St. Paul
Donald H. Schmoltdt, Grand Forks,
N. D.
William J. Sharratt, Ogilvie
Kenneth W. Smith, Jr., St. Paul
James C. Thorp, Minneapolis

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Certificate

Donald Hilton Branstad, Minneapolis
Byron Joseph Greenwood, Duluth
Fred Daniel Johnston, Minneapolis
Robert L. Kern, Duluth
Harold James Martin, Milwaukee,
Wis.

Donald Raymond Nagel, St. Paul
Glenn Clifton Nelsen, St. Paul Park
Kenneth Clark Newcomb, St. Paul
Howard Elvin Norgaard, St. Paul

Engineering Certificate

Robert John Cairns, Hopkins
Thomas Arthur Kalogerson, Minne-
apolis

Richard Ferdinand Schauer, St. Paul

Industrial Engineering Certificate

John Austin Strom, St. Paul

Associate in Mortuary Science

David James Anderson, Villard
Richard Arthur Bjostad, A.L.A.,
St. Paul
Patrick Arthur Bolger, Minocqua,
Wis.
John Richard Breitlow, B.A., Winona
Maurice Eugene Byron, Wascea
Gerald Robert Cook, M.A., Farm-
ington
Alfred Milton Engh, Pine City
Michael George Fagen, Dyer, Ind.
Donald J. Grafenstein, Stillwater
Robert Charles Gunderson, Osage,
Iowa
Don George Hasson, Elk Point, S.D.
Charles John Hogan, Mason City,
Iowa
Hosea Pellon Hudson, Rensselaer, Ind.

William Charles Jackson, Rensselaer,
Ind.
Richard Charles James, A.A.,
Mason City, Iowa
Charles Miller King, B.A.,
West Salem, Ill.
Barbara Jane Kirby, Crosby
Rolland DeLouis Kjos, B.A., Clark-
field
Kenneth Martin Kolconay, Chicago,
Ill.
James Arthur Lohman, Goodhue
John William Mohs, Webster, S.D.
Stuart Laird Nichols, Rapid City,
S. D.
Bruce Warren Nilson, Alcester, S. D.
Thomas Paul O'Connell, St. Paul
James Darrel Paulson, Dassel

Stanley Ross Petersen, Harlan, Iowa
Frederick Dennis Selin, A.A.,
Pasadena, Calif.
Barry Freed Silverman, A.A., B.A.,
Los Angeles, Calif.
Arthur A. Simonet, Jr., Little Falls

Orville Eugene Smith, Grinnell, Iowa
Adrian Alfon Tolzmann, Minnesota
Lake
Frederic Rahm Wefelmeyer III,
Minneapolis
George Charles Wetzell, Curtis, Neb.

GENERAL COLLEGE

Associate in Arts

Joyce Irene Anderson, St. Paul
Louis Carl Baker, Hopkins
Ronald Phillip Bambenek, Minne-
apolis
Stanford Howard Bang, Benson
Richard Robert Bauer, Bloomington
John Carl Beaudin, Kent
Donald Nicholas Besky, St. Paul
Dale Fredrick Bistodeau, Minneapolis
Verdi Georgio Blonigen, Robbinsdale
Patricia Ann Boudewyns, St. Paul
Patricia R. Burke, Minneapolis
James Terrence Burns, Minneapolis
Dennis Basil Bureson, Lambertson
David James Butler, Robbinsdale
Carol Jean Butz, St. Paul
Douglas Harold Buystedt, Minneapolis
Byron John Carlson, Hopkins
Sally Ann Carlson, St. Paul
Don Joel Challman, St. Paul
Robert Hawley Claffin, St. Paul
Allan Edward Clarine, Pillager
Michael Owen Comer, Minneapolis
Clifford Edwin Comfort, Jr., St. Paul
James Ray Cordell, Minneapolis
Carl Gordon Culp, Mound
Aloysius Kenneth Cybyske, Jr., Minne-
apolis
Gerald William Dale, Center City
Kathleen Mary Dalheimer, Delano
John Leo Delmore III, Roseau
Robert William Delorey, Weymouth,
Mass.
William Francis Denardo, Minne-
apolis
George Roland Earl, St. Paul
Raymond Ernest Ecklund, Minne-
apolis
Yvonne Ardyce Edstrom, Minneapolis

Gene Austin Eherenfeldt, Minne-
apolis
Bruce Paul Ellis, Minneapolis
Jack Blair Erickson, Thief River Falls
John Alfred Ericson, Minneapolis
Edward Norman Evenson, Marshall
Edwin LeRoy Ferguson, Circle Pines
Frederick Lewis Fleagle, Minneapolis
Harvey Louis Fontaine, Minneapolis
Neil Peter Forsberg, Minneapolis
Edward Malloch Fraser, Winnebago
Rogers Calvin Frederickson, Willmar
David William Friele, Birchwood,
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 William Herbert Wolden, Minne-
 apolis
 Joseph Anthony Wolking, Donnelly
 Richard Allyn Wright, Minneapolis
 Burton LeRoy Wyss, Bovey, CUM
 LAUDE
 Paul Bernard Ylvisaker, A.A., Hartland
 Shirley Mae Young, St. Paul
 Mary Josephine Youngquist, Minne-
 apolis, MAGNA CUM LAUDE
 Lois Yvonne Yungner, Minneapolis
 Hannalee Silverman Zelle, St. Paul
 Willard Raymond Zemlin, Two
 Harbors
 Arthur John Ziegler, Minneapolis
 William Ranslow Zuber III, St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Stanford Owen Anderson, Minne-
apolis, MAGNA CUM LAUDE
Fernand Ben Baer, Jr., St. Paul
Bernard Harold Burstein, St. Cloud,
CUM LAUDE
Elizabeth Keller Finn, St. Paul
James David Gainsley, A.A., Minne-
apolis
Delores Mae Keller, G.D.H.,
St. Louis Park
Charles Devereux McCarthy, Way-
zata

Patricia Ann McCulloch, Bismarck,
N. D.
Phyllis Diane Orbeck, Chisago City
Sandra Lee Rothchild, Minneapolis
Joyce Arline Saarela, G.D.H., Minne-
apolis
Dora Mae Sine Sorensen, Baudette,
CUM LAUDE
Susan Mary Stone, Minneapolis
Barbara Lou Van Hollen, Anoka,
CUM LAUDE

Bachelor of Science

Harriette Ruth Chatterton, Edina, CUM LAUDE

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Robert Freeman Asleson, New Ulm,
WITH DISTINCTION
Jere Thomas Bishop, Park Rapids
Richard Gregory Brasket, Tracy, WITH
DISTINCTION
Norman William Brueske, Parkers
Prairie
Ronald Milton Canner, Jr., St. Paul,
WITH DISTINCTION
Larry William Carlson, Grand Rapids,
WITH DISTINCTION
Richard Clarence Catura, Jordan,
WITH DISTINCTION
Ray Whiting Chamberlain, Minne-
apolis
Donald Merrill DeHart, St. Paul,
WITH HIGH DISTINCTION
Leland Lapham Dibley, Caledonia,
WITH DISTINCTION
Paul John Diethelm, Victoria
Richard LaFountain Englund, Minne-
apolis, WITH HIGH DISTINCTION
Ross Allan Fiedler, Osseo, Wis.
Edward John Fleege, Park Rapids,
WITH DISTINCTION

Gerald Joel Gustafson, Eau Claire,
Wis., WITH HIGH DISTINCTION
Frank John Halfen, St. Paul, WITH
DISTINCTION
Robert Duane Hanson, Albert Lea,
WITH DISTINCTION
John Patrick Hanton, St. Paul, WITH
HIGH DISTINCTION
Richard David Huseth, Elk River,
WITH HIGH DISTINCTION
De Wayne Carl Johnson, Brainerd,
WITH HIGH DISTINCTION
John Walter Johnson, White Bear
Lake, WITH DISTINCTION
Kurt Albert Kaiser, Minneapolis, WITH
HIGH DISTINCTION
Charles Donald Kavaloski, South
St. Paul, WITH DISTINCTION
Harold Burton Kennedy, Minneapolis,
WITH DISTINCTION
Kenneth Lee Kliever, Mountain Lake,
WITH HIGH DISTINCTION
Harold Winfred Krueger, St. James
Anton Edward LaBonte, Minneapolis,
WITH HIGH DISTINCTION

Floyd Walter Larsen, Minnctonka Beach, WITH DISTINCTION
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 Bruce Carl Lindahl, Minneapolis, WITH DISTINCTION
 Clarence Adams Lysdale, Madison Lake, WITH HIGH DISTINCTION
 Daniel Little McFadden, Salisbury, N. C., WITH HIGH DISTINCTION
 William Douglas McNeil, Minneapolis, WITH HIGH DISTINCTION
 Owen Lloyd Nelson, International Falls, WITH DISTINCTION
 Ronald Goodman Nelson, A.A., Brainerd, WITH DISTINCTION
 Robert James Oakes, Minneapolis, WITH HIGH DISTINCTION
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 Milton Walter Reed, Minneapolis, WITH HIGH DISTINCTION

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 Rodger David Thuras, Minneapolis, WITH DISTINCTION
 Leon David Wald, St. Paul, WITH DISTINCTION
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 Frederick John Wilmers, Duluth, WITH DISTINCTION

Bachelor of Aeronautical Engineering

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 James H. Clark, Minneapolis
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 John Warren Erickson, Brandon, WITH DISTINCTION
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 James Joseph Grant, Minnetonka Beach
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 Gordon Oscar Handberg, Robbinsdale
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 Ronald Charles Ness, Minneapolis
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 John Martin Peterson, B.A., Minneapolis
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 Kenneth William Smith, Jr., St. Paul
 Franklin Wallace Steinmetz, Chipewewa Falls, Wis.
 Wayne Harold Tempelman, Minneapolis
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 Lloyd Allen Wood, Minneapolis
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Bachelor of Agricultural Engineering

James Elbert Gruye, Worthington

William John Sharratt, Ogilvie

Bachelor of Architecture

Roger David Anderson, Fergus Falls
Lloyd Frederick Bergquist, B.A.,
Moose Lake

Frank Edward Brust, Lead, S. D.
Loren David Carlander, B.A., Moor-
head

Edward Lee Deloney, Willmar
Robert Warren Froemming, Preston
Jack Geretz, Minneapolis
Patrick Francis McGuire, Osage,
Iowa

Elston LeRoy Nelson, Minneapolis
John Richard Peterson, B.A., North-
field

Frank Lundberg Reese, Albert Lea
William Mathew Rova, Ely
Charles Michael Seitz, Racine, Wis.
Wesley Paul Simons, B.A., Bemidji
Winslow Elliott Wedin, B.A., Minne-
apolis

Bachelor of Chemical Engineering

Garfield William Broman, Atwater
Oluchukwu Ekechukwu, B.S., Nigeria
Donald Walter Fair, Winona
Norton Fredlund, Minneapolis
Dennis Robert Jordan, Minneapolis
*John F. Koenig, St. Paul, WITH DIS-
TINCTION*

F. Richard Linow, Alexandria
Robley Evans Mangney, Minneapolis
John Arne Manisto, Cloquet
Robert Edwin Martinson, B.A., Hib-
bing
William Arthur McMahon, St. Paul

David Jerome Moline, Minneapolis
Charles John Pearson, Sandstone
Dennis Nathan Schafer, Lake City
George Thomas Scott, Minneapolis
Richard Lionel Seaberg, St. Louis
Park

Philip Gould Snyder, St. Paul
Norman William Swanson, Ely
Charles Frederick Vanzwol, Worth-
ington
Willis Wilmer Weber, Mankato
Alby Henry Wolf, Jordan

Bachelor of Chemistry

Jerry Keith Miller, Valley City, N. D.

Bachelor of Civil Engineering

Richard Wayne Anderson, Minne-
apolis
Robert Irving Appelquist, Jr., Dunnell
*Leonard James Belk, Bismarck, N. D.,
WITH HIGH DISTINCTION*
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Rochester

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*Leonard Gerald Hayes, St. Paul, WITH
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Heights

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Ramon Eugene Lind, Brainerd
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*John Stafford Oberg, St. Paul, WITH
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Dewaine Lowell Osman, St. Louis
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Perry Clifford Plank, Minneapolis

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Bachelor of Electrical Engineering

Willard Gene Ackmann, White Bear Lake
Paul Kennedy Allison, St. Paul
Maynard Norman Asmus, Gaylord
Richard Francis Beggs, Minneapolis
Robert Berg, A.L.A., Minneapolis
Richard James Buska, South St. Paul
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Alan Lawrence Cohn, Minneapolis,
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John Jerome Davis, St. Paul
James William Deblack, Chisholm,
WITH DISTINCTION
James Joseph Dech, B.A., St. Paul
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Victor Ludwig Falkner, Eau Claire,
Wis., WITH DISTINCTION
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James Maurice Foley, Excelsior, WITH
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Philip Longfellow Fullerton, St. Paul,
WITH HIGH DISTINCTION
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Milton Wayne Gore, St. Paul
Ronald Bruce Goycr, Minneapolis
Raymond Anthony Grygar, Minneapolis
Alan Lyle Halvorson, Redwood Falls
Roger Eugene Handberg, Minneapolis,
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Milton Eugene Hanson, Minneapolis,
WITH DISTINCTION
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John Alton Johnson, Duluth
Ronald Carl Johnson, Eveleth
Donald Richard Kilimann, Duluth
Robert Milton Knox, Minneapolis,
WITH DISTINCTION
Leroy Langseth, Fergus Falls

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Charlie Lou, Duluth
James Burton Lundquist, Taylors Falls
Walter Darrel Mailand, Spring Valley
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WITH DISTINCTION
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WITH DISTINCTION
Leonid Riabokin, St. Paul
Alan Dale Ritacco, Eveleth
Louis Osmund Sanden, St. Paul
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Norman Adolf Schamber, Parkers
Prairie
Aljo Leo Scherf, Isle
Frank Roland Schiebc, Minneapolis
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John Edward Spar, Minneapolis, WITH
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Norman Bruce Talsoc, Duluth
Frank Louis Wendt, South St. Paul

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Bachelor of Geological Engineering

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Michael Joseph Fitzgerald, Minneapolis Joseph Anthony Slaby, St. Paul

Bachelor of Geophysics

Russell Leonard Hoehn, Princeton Duane Edward Soland, Minneapolis

Bachelor of Industrial Engineering

William Edward Cook, Minneapolis Francis George Patka, Virginia
Robert Michael Dahlke, Stillwater Ronald Paul Saunders, St. Paul
George A. Messing, St. Paul Roger Ramon Sonstegard, New
Leslie Mynard Oare, Wayzata London
Robert M. Olker, Hayward, Wis. Frederick Everett Winker, Randall

Bachelor of Mechanical Engineering

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Jon Robert Ambrozich, Chisholm,
WITH DISTINCTION Robert Harold Hanson, Minneapolis
Raymond Ernest Bade, New Ulm *Ronald Gene Harber, Austin,* WITH
Walter Granger Beckwith, Houston, HIGH DISTINCTION
Tex. Stephen Raiter Holstad, Minneapolis
James Lee Benedict, Grand Rapids Theodore William Henry Holsten,
Burton Orville Benson, Minneapolis Minneapolis
Gerald Axel Bruins, Minneapolis Robert Bruce Jacobsen, Minneapolis
George Donald Bukovich, Buhl Norman Eugene Jensen, Askov
David Charles Burgeson, Austin, WITH Daniel Leroy Johnson, St. Paul
DISTINCTION Harlow Orrin Johnson, St. Paul
Donald Stuart Campbell, B.S., Minne- Lee Willis Johnson, St. Paul
apolis Melvin Fred Kanninen, Duluth
Melvin Carl Carlson, Belview Thomas Blake Kent, Minneapolis
Paul Louis Chapdelaine, St. Paul John Martens Koepcke, Minneapolis
Eugene Winthrop Clark, Minneapolis John Howard Kopischke, Waseca
Wayne Sherwood Classon, Edina John Jerome Kreuthmeier, St. Paul
Donald Howard Craighead, St. Paul *Roger Todd Lambert, Virginia,* WITH
William Richard Cronkrite, Virginia DISTINCTION
James Fredrick Eide, Red Wing *Harold Joseph Lamon, Jr., Austin,*
Richard George Eikos, Minneapolis, WITH HIGH DISTINCTION
WITH DISTINCTION Robert Norman Lee, Minneapolis,
Richard William Ekblad, Forest Lake WITH DISTINCTION
Clark Borglum Ewald, Minneapolis *John Leschisin, Jr., Minneapolis,* WITH
Kurt Fay Garoutte, Windom DISTINCTION
Richard Mahlon Geary, St. Paul James Emmert Lilligren, Minneapolis
Ellsworth Eugene Gerrels, Pillager *Charles Wayne Lindberg, Fosston,*
WITH DISTINCTION

Bruce Richard Lockway, Minneapolis
 James Evans Loughrea, Coleraine
 Allan Cedric Lyon, Duluth
 John McClure Wagner, Minneapolis
 Scott Ward McBurney, Minneapolis
 John Thomas McManmon, Jr.,
 St. Paul
 Thomas Glenn Mcier, St. Paul
 David Lee Mericle, St. Paul
 Frank B. Morgan, Biwabik
 Donald Maurice Nelson, Minneapolis,
 WITH DISTINCTION
 Peter Floyd Niesen, Jr., Mound
 Leonard Waldimar Ohlsson, Duluth,
 WITH DISTINCTION
 Richard Bruce Olwin, St. Paul
 Robert Edwin Omoth, B.A., Minne-
 apolis
 George Anthony Pagnucco, Virginia
 Lynn Dell Peeler, Rochester
 James Paul Pilger, Minneapolis
 Joseph Ferdinand Poellinger, St. Paul
 Joseph William Reber, St. Paul
 Ronald Theodore Reiling, St. Paul,
 WITH DISTINCTION

Jerome Joseph Roban, Minneapolis
 Richard Donald Rudecn, Golden
 Valley
 Leo Charles Ryan, Minneapolis
 Richard Clair St. John, Mankato
 Donald Lee Shore, Minneapolis
 Stanley John Skytte, Minneapolis
 Edward Harlan Smith, Minneapolis
 Michael Sokolski, Minneapolis
 Daniel Milton Stenoien, Minneapolis
 Carl Harley Tetzloff, Janesville
 Gerard Wayne Thorgeson, Albert Lea
 James Conrad Thorp, Minneapolis
 Mark Carl Thorpe, Minneapolis
 Robert Duane Thulin, Litchfield
 Harlan Julius Vatland, Mabel
 Allen Akerson Wahlgren, Lindstrom
 Dayton Joseph Walker, Lewiston
 Alson Dale Wendland, Minneapolis
 Paul Melvin Wester, Minneapolis
 Ted Clark Williams, Willmar
 Donald Franklin Wright, St. Paul,
 WITH DISTINCTION
 George Anthony Wyfker, Minneapolis

Bachelor of Metallurgical Engineering

Robert Hocking Emanuelson, Babbitt
 Thomas Richard Harrington, St. Paul
 Lowell Jacob Moen, Minneapolis
 Stanley Ray Nelson, Minneapolis
 Roy Patton Zeman, St. Paul

Bachelor of Mining Engineering

William Theodore Erickson, Crosby
 William Nelson Marr, Jr., Grand
 Rapids
 Gregory Vance Parker, Minneapolis
 Jack Stanley Rother, Rochester
 Glenn Edward Webster, Rochester

Bachelor of Physics

Charles Donald Butter, Minneapolis
 Bernard Thomas Johnson, Brainerd

Civil Engineer

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

Olav K. Normann, B.C.E. '28, University of Minnesota, thesis, "Construction of Concrete Pavements Using Powered Roller to Compact Freshly Placed Concrete."

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

Bachelor of Science

- Mary Carolyn Ahlberg, St. Paul, Home Economics
John Everett Akins, Watertown, Agriculture
Donald Kay Barnes, Excelsior, Science Specialization
Joel Marvin Barsness, Glenwood, Agriculture
Diana Marie Bayoff, St. Louis Park, Home Economics
Frederick James Becker, Adrian, Forestry
Gunars Peteris Bekeris, Minneapolis, Forestry
William Ernest Benjamin, Hastings, Agriculture, WITH DISTINCTION
Dale E. Blank, Janesville, Agriculture
Edward Elsworth Brugler, St. Paul, Dairy Industry
Donald Einar Carlson, Alexandria, Agriculture
Marcia Faith Carlson, A.A., Minneapolis, Home Economics
Wayne Elroy Carlson, Hallock, Science Specialization, WITH DISTINCTION
Reinold Clair Chase, Bemidji, Forestry
Kent Thomas Churchill, Necedah, Wis., Forestry
Richard Lynn Cottrell, St. Paul Park, Agriculture
Karen Joan Anderson Dolven, Minneapolis, Home Economics
Rollo Lee Ehrich, Blue Earth, Agriculture
John Reginald Ellavsky, Minneapolis, Forestry
Frank Everette Ellison, Monticello, Forestry
Wayne Clifford Fehr, Bloomer, Wis., Dairy Industry
Elizabeth Julia Fink, Minneapolis, Home Economics
Suzanne Ellingson Fredeen, Cambridge, Home Economics
William Fredrick Gannaway, St. Paul, Forestry
Ivan Charles Gibbs, Minneapolis, Agriculture
Kenneth Robert Hakes, Jr., Springfield, Agriculture
Edwin Ludwig Hamann, Lafayette, Agriculture
Patricia Susan Hamilton, St. Paul, Home Economics, WITH DISTINCTION
Jeanine Boyd Hansel, St. Paul, Home Economics
Dale Lloyd Harthan, Ball Club, Forestry
Thomas Eugene Hawkins, Windom, Agriculture
Karl Melvyn Hegg, St. Paul, Forestry
Vernon Arnold Helbig, St. Paul, Fishery and Wildlife Management
Robert LeRoy Herbst, Minneapolis, Forestry
Frances Caroline Heurkens, St. Paul, Home Economics
Howard James Hope, Nerstrand, Agriculture
Monroe Eugene Howell, Minneapolis, Agriculture
Charlene Joanne Hudgins, Minneapolis, Home Economics, WITH DISTINCTION
Theodore Lee Hullar, Minneapolis, Forestry
Sarah Jane Jacobson, Minneapolis, Home Economics
Marcia Lucile James, Minneapolis, Home Economics, WITH DISTINCTION
Barbara Ann Jensen, Minneapolis, Home Economics
Curtis John Johnson, Alexandria, Agriculture
I. Elrene Johnson, Minneapolis, Home Economics

- Leland Curtis Johnson, St. Paul, Agriculture
- Margaret Jeanette Johnson, B.A., Virginia, Home Economics
- Robert Earl Johnson, Minneapolis, Forestry
- Roy Richard Johnson, St. James, Forestry, WITH DISTINCTION
- Patricia Ann Kennedy, St. Paul, Home Economics
- Donald Arthur Kimmel, St. Paul, Agriculture
- Doris Schechter Kirschner, St. Paul, Home Economics
- Timothy Bushnell Knopp, Winona, Forestry and Wildlife Management, WITH HIGH DISTINCTION
- Robert Gordon Knutson, Frost, Forestry
- Theodore Vincent Kubitz, Staples, Forestry
- Jean Elaine Kutcher, Virginia, Home Economics, WITH DISTINCTION
- Nodiva Marsha Lange, St. Paul, Home Economics
- Nels A. Lilja, Jr., Minneapolis, Forestry
- Marjorie Rasmussen Lucas, Duluth, Home Economics
- Leanne Berle Ludford, Minneapolis, Home Economics
- Valerie Jane Macosek, Minneapolis, Home Economics, WITH DISTINCTION
- Richard Jordan Manly, Allwood, Clifton, N. J., Forestry
- Kathryn Helen Mayer, St. Paul, Home Economics
- Aloys Mathias Mayers, Mcrose, Agriculture
- Karl Frank Mecklenburg, South St. Paul, Forestry and Wildlife Management
- Maxine Miriam Melbo, St. Charles, Home Economics, WITH DISTINCTION
- Donald James Mellon, St. Paul, Forestry
- Clyde Willis Moser, LeSueur, Dairy Industry
- Donald Ira Mueller, Minneapolis, Agriculture
- Kenneth Harold Mullin, Elgin, Agriculture, WITH DISTINCTION
- Robert Mullin, Bertha, Agriculture, WITH HIGH DISTINCTION
- Paul R. C. Nyberg, Kennedy, Agriculture
- Nancy Elizabeth Palmer, Minneapolis, Home Economics
- Eva Mildred Pearson, St. Paul, Home Economics
- John Walter Peterson, Brainerd, Agriculture, WITH DISTINCTION
- Donald Mathew Pinska, St. Paul, Forestry
- Julianne Elizabeth Read, Minneapolis, Home Economics
- Richard Alphonse Redder, Canby, Agriculture
- Floyd Francis Reinemann, Kohler, Wis., Forestry
- Thomas William Roessler, Rochester, Forestry
- James Peter Roles, St. Louis Park, Forestry
- Floyd Douglas Rudy, St. Paul, Forestry
- William Burton Rugg, Austin, Agriculture
- George William Sandberg, Minneapolis, Forestry
- Eugene George Sander, Dodge Center, Science Specialization
- Daryl Duane Scheerhoorn, Pipestone, Agriculture
- Marshall Richard Schneider, Minneapolis, Science Specialization
- Franklin Paul Schoberg, B.A., St. Paul, Forestry, WITH DISTINCTION
- David Bruce Schroeder, South St. Paul, Forestry
- Robert Einar Sheppard, Minneapolis, Forestry
- Donald Robert Sherper, Minneapolis, Agriculture
- Harlan Wayne Siewert, Zumbro Falls, Agriculture, WITH HIGH DISTINCTION
- Jenelle Ann Skare, Mondovi, Wis., Home Economics

Clifford Thomas Solberg, Bagley, Forestry
 Alan Dean Spanjer, Remer, Agriculture
 Nancy Lucille Swanson, Willow River, Home Economics
 Ralph William Taylor, Olivia, Agriculture
 Edward Thom, Jr., Minneapolis, Science Specialization
 Lois Jean Thomas, St. Paul, Home Economics
 Marlys Naomi Thorsgaard, Minneapolis, Home Economics
 John Allen Vaselaar, Adrian, Agriculture
 Lynn Lucienne Wagener, St. Paul, Home Economics
 Nancy Lee Wagner, Minneapolis, Home Economics
 Stuart Homer Warrington, Austin, Agriculture
 Jeanette Lillian Wasti, Minneapolis, Home Economics
 Jerome Bernard Weber, LeCenter, Agriculture
 Roger Milton Wilkowske, Morristown, Agriculture
 Robert William Williams, A.A., Rochester, Forestry
 Richard Olaf Wilner, Grove City, Agriculture
 Richard Edward Winbigler, St. Paul, Forestry

SCHOOL OF VETERINARY MEDICINE OF THE INSTITUTE OF AGRICULTURE

Bachelor of Science

Norbert Edward Algiers, Hartford, Wis., WITH DISTINCTION
 Carsten David Anderson, Fertile
 Martin Elisha Bergeland, Jr., Dawson, WITH HIGH DISTINCTION
 James Allen Burns, Richland Center, Wis.
 Raymond Clarence Callstrom, Jr., Red Wing, WITH HIGH DISTINCTION
 Richard Ernest Dierks, Flandreau, S. D.
 Charles William Extrand, Brainerd
 Charles Joseph Farho, South St. Paul
 Delmar Roy Finco, Kettle River, WITH HIGH DISTINCTION
 Robert James Fischer, Shawano, Wis.
 Peter Harold Franz, Bingham Lake
 Joseph Micheal Glenn, St. Paul
 Thomas Joseph Hagerty, Janesville
 Dale Lary Haggard, Luverne
 Edward Francis Jankus, St. Paul, WITH DISTINCTION
 Roland Stanley Jeans, Osceola, Wis.
 David Conrad Johnson, Fairmont
 Robert Rothnick Jorgensen, Columbus, Wis.
 James Robert Juhl, Luverne
 James Nathaniel Kamp, Minneapolis
 John Carl Landman, Larimore, N. D., WITH HIGH DISTINCTION
 Eugene Schrae LaPlante, Slayton, WITH DISTINCTION
 James Andree Libby, Minneapolis
 George Robert Nelson, Mankato
 Jerome Eugene Palet, B.S., Green Bay, Wis.
 Donald Person, Montevideo
 Hans Dennis David Peterson, Glenwood
 Thayer Eugene Porter, St. Louis Park
 Dennis Peter Rahn, Mountain Lake
 William Paul Rogers, Chippewa Falls, Wis., WITH HIGH DISTINCTION
 William Thomas Thompson, Montevideo
 Alfred Clair Trumble, Long Prairie
 John M. Turnbull, Rockdale, Wis., WITH DISTINCTION

Lloyd Franklin Van Pelt, Austin
George Theodore Walters, Stewart-
ville
Thomas William Wanous, Owatonna
Robert Jerome Weincr, Columbus,
Wis.

Robert Anthony Wescott, Chippewa
Falls, Wis.
Shannon Carl Whipp, Gary, S. D.,
WITH DISTINCTION
Thomas M. Willmus, St. Paul
Wilford Alfred Wohlin, St. Paul

Doctor of Veterinary Medicine

Arthur Lawrence Aronson, B.S.,
Annandale
Roger A. Asplin, B.S., Dassel
Harold Thomas Balas, B.S., Danvers
Wayne Edmund Barcus, B.S., Grand
Rapids
Alvin Mortin Becker, B.S., Milwaukee,
Wis.
James Leonard Bringgold, B.S., West
Concord
Charles Richard Carlson, B.S., Grants-
burg, Wis.
F. Willard Carlson, B.S., Mahtowa
John Ewer Chasc, B.S., Minneapolis
David Kenneth Chester, B.S., Fari-
bault
Lawrence H. Davis, B.A., Delavan,
Wis.
Ralph Emery Day, B.S., Rewey, Wis.
Paul Gordon Eischen, B.S., Sioux
Falls, S. D.
Joseph Micheal Glenn, St. Paul
Charles Marshall Guthrie, Jr., B.S.,
Minneapolis
Michael H. Hansen, B.S., Rockville
Elroy Donald Hexum, B.S., Pelican
Rapids
Clinton J. Hof, B.S., Hewitt
Stephan Hrenchyshyn, St. Paul
Walter Henry Huber, Freeman, S. D.
Paul Erik Jensen, Brookings, S. D.
Burton Lotus Johnson, B.S., Minne-
apolis
Darrel Ellsworth Johnson, B.S.,
Scandia
Alan John Kenyon, B.S., Eau Claire,
Wis.

Melvin Fredrick Kirchhoff, B.S.,
Gibbon
Franklin Harold Kricwaldt, B.S.,
St. Paul
Delmont Delano Lieske, B.S.,
Franklin
John Secrest McCallum, B.S., Clinton
David Daniel Myers, B.S., Morris
Wendell H. Niemann, B.S., Ogilvie
Roland Clark Olson, B.S., New Ulm
Lawrence R. Pederson, B.S., Cumber-
land, Wis.
Peter Earl Poss, B.A., Franklin
Jack William Register, B.S., Stillwater
William Allan Roduner, B.S., Edger-
ton
Marvin Lester Rohm, B.S., Seymour,
Wis.
Gerald Marvin Rosen, B.S., Milwau-
kee, Wis.
Robert C. Sartori, B.S., Kendall, Wis.
Charles George Schlotthauer, B.S.,
Rochester
LaVerne Michael Schugel, B.S., New
Ulm
Stanley Cecil Skadron, B.S., St. Paul
Darold Lee Strandberg, B.S., Mahtowa
Ronald Edward Werdin, B.S., Minne-
apolis
Robert Anthony Wescott, Chippewa
Falls, Wis.
J. Willis Wesley, B.S., Elysian
E. Gene Whceler, B.S., Raymond,
S. D.
Donald Andrew Witzel, B.S., Kasson
Donald Stuart Wyand, B.S., St. Paul

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

Bachelor of Science

- Jarvis Walter Anderson, Milaca, Agricultural Education
- Jean Ann Anderson, Biwabik, Home Economics Education
- Merry Carol Elizabeth Armstrong, Welch, Home Economics Education
- Angeline Freitag Barduson, St. Paul, Home Economics Education
- Linnea Irene Johnson Barrott, Forest Lake, Home Economics Education
- Lila Mae Benrud, B.A., Zumbrota, Home Economics Education, WITH HIGH DISTINCTION
- Phyllis Jeanne Breberg, Dawson, Home Economics Education, WITH DISTINCTION
- Lois Margaret Burnison, Fairmont, Home Economics Education
- Doris Jean Carlson, Beltrami, Home Economics Education
- Lee Keith Daby, Warren, Agricultural Education
- Wilma Frances Deal, Walnut Grove, Home Economics Education
- Richard Franklin Donat, Upsala, Agricultural Education
- Marianne Sharon Dunham, Minneapolis, Home Economics Education
- Marian Joan Fairbanks, Minneapolis, Home Economics Education
- John Charles Fostvedt, B.S., St. Paul, Agricultural Education
- Arthur Norris Grove, McIntosh, Agricultural Education
- Donald James Hankins, Cleveland, Agricultural Education
- Harold William Hansen, Barron, Wis., Agricultural Education
- Yvonne Jean Haslerud, Rushford, Home Economics Education
- Delores JaAnn Hassie, St. Paul, Home Economics Education
- Ruth Marie Heideck, Minneapolis, Home Economics Education
- Robert Cecil Hendrickson, Frazee, Agricultural Education
- Donald Reuben Holtz, Chaska, Agricultural Education
- Mary Alice Towler Hook, Redwood Falls, Home Economics Education
- Judith Oseid Huber, Baudette, Home Economics Education
- LaVerne Dale Ingvalson, A.A., Austin, Agricultural Education
- Cynthia Lu Jackson, Shafer, Home Economics Education
- Melva Claire Jacobson, Alcester, S.D., Home Economics Education, WITH DISTINCTION
- John Fred Januschka, Little Falls, Agricultural Education
- Doris Gamel Johnson, Isanti, Home Economics Education, WITH DISTINCTION
- Barbara Lorraine Jungas, Mountain Lake, Home Economics Education, WITH HIGH DISTINCTION
- Florence Billie Kempf, Willmar, Home Economics Education
- Helen Goldie Kjos, Thief River Falls, Home Economics Education
- Ernest Ralph Knudson, Hartland, Agricultural Education
- Jacquelin Kay Kobs, St. Louis Park, Home Economics Education
- Kareen Ann Krenik, Cleveland, Home Economics Education, WITH DISTINCTION
- Rosemary Jean Lenhart, Minneapolis, Home Economics Education, WITH DISTINCTION
- Barbara Lee Loveless, Wells, Home Economics Education
- Mary Ellen Marcotte, Marshall, Home Economics Education

Robert Duane Monson, A.A., Lake Mills, Iowa, Agricultural Education
Alyce Ann Muck, Buhl, Home Economics Education, WITH HIGH DISTINCTION

II. Eugene Munson, Savage, Agricultural Education

Mary Jeanne Olien, Hibbing, Home Economics Education, WITH DISTINCTION

Carole Arlene Owens, Crookston, Home Economics Education, WITH HIGH DISTINCTION

Beverly Jean Peterson, Monterey, Home Economics Education

Barbara Ann Pfenning, St. Paul, Home Economics Education

Carl Roger Pierson, Jr., Lafayette, Agricultural Education

Vandora Gynncath Pierson, Isle, Home Economics Education, WITH DISTINCTION

Margaret Elizabeth Polski, Minneapolis, Home Economics Education, WITH DISTINCTION

Rita Andeline Reishus, Biwabik, Home Economics Education, WITH DISTINCTION

Sally Ann Restad, Robbinsdale, Home Economics Education

Florine Angeline Rittenour, Benson, Home Economics Education

Giles LeRoy Roehl, Odessa, Agricultural Education

Joan Kay Ryan, Mabel, Home Economics Education

Lauren Melvin Sansness, Cyrus, Agricultural Education

Sharon Anne Selander, Minneapolis, Home Economics Education

Bonnie Swensen Tanquist, Swanville, Home Economics Education

Harold Carl Ulrich, Courtland, Agricultural Education

Meta Virginia Wood, Roseville, St. Paul, Home Economics Education

Marie Norman Zinn, Hovland, Home Economics Education

Arvin Arnold Zinter, Minneapolis, Agricultural Education

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

Bachelor of Agricultural Business Administration

Donald Earl Meline, St. Paul
Russell Glenwood Thompson, A.A.,
Rushmore, WITH HIGH DISTINCTION

Lawrence Edward Wogensen, Litchfield

COLLEGE OF EDUCATION

Bachelor of Science

Rodney Gaylord Aaberg, Bloomington
Lois Jane Ackland, Minneapolis
Louise Jean Altowitz, Minneapolis
Audree Ann Anderson, Cokato
Clyde Bailey Anderson, Minneapolis

Douglas Harry Anderson, B.E.E.,
Minneapolis
Katherine Marie Anderson, Cloquet
Lorraine Adele Cahlander Anderson,
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Margery Susan Anderson, St. Paul
 Marianne Baum Anderson, B.A.,
 Minneapolis
 Mary Louise Anderson, B.S., Minne-
 apolis
 Muriel Ann Jacqueline Anderson,
 R.N., Rugby, N.D., WITH DISTINC-
 TION*
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 Gayle H. Johnson Andrs, Minneapolis
 Barbara Obenauf Auten, St. Louis
 Park
 Faye Gerardy Awes, B.S., Minneapolis
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 Richard Webster Barsness, Eau Claire,
 Wis., WITH HIGH DISTINCTION
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 Robert Dwight Berglund, A.A.,
 Minnetonka Beach
 Anna E. Bergstrom, Minneapolis
 Ann Louise Cartwright Bernhard,
 Rochester
 Carla Fay Bicknese, Wykoff
 Lillian Bisbecos, Minneapolis
 Eleanor Jean Blakeslee, B.A., Minne-
 apolis
 Beata Karen Blood, Minneapolis, WITH
 DISTINCTION
 Barbara Ann Boberg, North St. Paul,
 WITH DISTINCTION
 Harold Bobgan, Minneapolis
 Sharon Lee Deadrick Bobgan, Pipe-
 stone, WITH DISTINCTION
 Harriet Gail Borg, Minneapolis
 Janet Gertrude Bowman, Minneapolis,
 WITH DISTINCTION
 Ronald Clarence Bragg, A.A., Minne-
 apolis, WITH DISTINCTION
 Alice Garland Brauer, St. Louis Park
 Carol Ann Brevik, Ada, WITH DISTINC-
 TION
 Patricia Ann Brink, Minneapolis
 Janet Louise Brucss, St. Paul
 Magdalen Susan Bruhl, Faribault
 Mary Kay Burger, A.L.A., St. Paul
 Patricia Ann Burke, Hibbing
 Janice Ellen Burnson, Pine River
 Paula Dorothy Bursch, Minneapolis
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 Carolyne Evelyn Campbell, A.L.A.,
 Minneapolis, WITH DISTINCTION
 Ethel Charlotte Carlson, Minneapolis,
 WITH DISTINCTION
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 Marie Julie Carlson, Minneapolis
 Philip Robert Carlson, B.A., St. Paul
 Joan Comley Carmichael, Minneapolis
 Cheryl Ann Carroll, Waterloo, Iowa
 Mary Beth Cartier, Minneapolis
 Dorothy Wynelda Cavanaugh, Santa
 Ana, Calif., WITH HIGH DISTINC-
 TION*
 Janet Marian Cedar, St. Paul, WITH
 DISTINCTION
 Barbara Joan Champine, Fairmont,
 WITH HIGH DISTINCTION
 Mary Ann Chantler, Minneapolis
 Mary Schaffer Choiniere, Windom,
 WITH DISTINCTION
 Patricia Marie Christel, St. Louis Park
 Betty Ann Christenson, Wayzata
 Nancy Ann Christiansen, Minneapolis
 John Robert Claessens, Minneapolis
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 St. Paul
 Shirlee Alice Clark, Minneapolis
 Virginia Mae Clark, Lakewood, Ohio,
 WITH DISTINCTION
 Donna Jean Clausen, Wayzata
 Gaile Loreen Cochran, Annandale
 Robert Cochran, Sparta, Wis.
 Evelyn Cohen, New York, N. Y.
 Phyllis Cohen, Appleton, Wis., WITH
 DISTINCTION
 William Howard Condon, A.A.,
 Orono
 Diane Catherine Conoryea, St. Paul
 Mary Lou Cook, St. Paul
 John William Couture, Ironton

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Donna Jean Darelius, Minneapolis
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Muricl Ann Dickinson, Verdale
Daniel Raymond Diethelm, Victoria
Carolyn Anne Dodd, Minneapolis
Jo Janice Doeksen, Minot, N. D.
Genevieve Marie Dombrosky, St. Paul
Donald Roger Draayer, Albert Lea,
 WITH HIGH DISTINCTION
Mary Ann Dube, Minneapolis
Frances Colette Dunning, A.A.,
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Shirley Ann Dworakowski, Wayzata
Mirdza Zelma Eglitis, Minneapolis
Judith Bryant Ehrenberg, B.A.,
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Charlotte Evans Eielson, Minneapolis
Wynette Leonore Ekoncn, Winton
Jo-Ann Barbara C. Elcvitch, Duluth,
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Christa Kosswig Elguther, St. Paul,
 WITH HIGH DISTINCTION
Carol A. Elmburg, Minneapolis
Sylvia Mae Elthon, Fertile, Iowa,
 WITH DISTINCTION
Winifred Ruth Emerson, Minneapolis
Dorothy Ann Engen, A.A., Downers
 Grove, Ill.
Carolyn Kay Engquist, Aitkin
Margaret Ann Erickson, Center City
Sally Machael Erickson, Willmar
Sandra Elizabeth Erickson, Minne-
 apolis, WITH HIGH DISTINCTION
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Richard Alan Estelle, Stillwater
Lois Marie Ewert, Minneapolis, WITH
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Curtis Fauth, B.A., St. Paul
Richard Gale Fawcett, Minneapolis,
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Charles Aaron Fein, Minneapolis
Charles Francis Ferrall, Wayzata
Gerald Ross Fladeland, Minneapolis
Annamarie Martinson Flattum,
 Minneapolis
Gwendolyn Ann Folstad, Barron, Wis.
Beverly Jean Forinash, Minneapolis
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Kathleen J. Hausken Foster, Annan-
 dale
Barbara Jean Frank, Omaha, Neb.
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Jean Rosalie Gallagher, St. Paul
James Austin Gamble, Sandstone,
 WITH DISTINCTION
Betty Jean Gardner, Bagley
Bennett James Garner, Jr., West
 St. Paul
Bill Frank Garner, Longville
Stanley Lewis Getchell, Osseo, WITH
 DISTINCTION
Marie Frances Gibson, Sioux City,
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Richard Glad, Minneapolis
Marilyn Ann Glass, Minneapolis
Robert Leland Glass, B.S., Reno, Nev.
Sheila Glass, Minneapolis, WITH DIS-
 TINATION
Donna Rae Goehring, B.A., St. Cloud
Barbara Ann Sigrid Goemer, Litchfield
Cathryn Signe Babcock Good, Mark-
 ville, WITH DISTINCTION
Patricia Ann Gooley, Minneapolis,
 WITH DISTINCTION
Becky Elaine Gotfredson, Mora
Carol Sue Goulet, Minneapolis
Lorna Goyns, Durham, England,
 WITH HIGH DISTINCTION
Donna Lee Mary Graff, Minneapolis
Jean Germaine Graham, A.A., Minne-
 apolis
Donna Jean Green, St. Paul
Evelyn Green, B.A., Aberdeen, S. D.
Gary Jule Green, Minneapolis
Lucy Wade Griffith, Minneapolis,
 WITH DISTINCTION
ElMaureen Dianne Grove, Aberdeen,
 S. D.
Inez Elaine Gunberg, Minneapolis
Gordon Champion Gunlock, Wayzata
Richard William Gunlogson, Clark-
 field, WITH DISTINCTION

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 Ruth Harriet Hagg, Hector
 Glen William Hambleton, Isle, WITH DISTINCTION**
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 Kathleen Adelle Hanson, Fergus Falls
 Kayla Mae Hanson, Blue Earth
 Sandra Hope Harding, A. A., Rochester
 Richard James Harriman, Stevens Point, Wis.
 Lawrence Alan Hartman, St. Paul
 Faylis Ramona Hasti, Osseo
 Idabelle Goldie Hawkins, Robbinsdale
 Maureen Ann Heck, St. Paul, WITH DISTINCTION
 Barbara Louise Hedren, Winthrop
 Carol Louise Heier, Minneapolis
 Vincent Alan Heig, Slayton, WITH DISTINCTION
 Joan Delores Heins, Lake City, WITH HIGH DISTINCTION
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 Mildred Ann Heyer, Minneapolis
 John Wesley Hickman, Minneapolis
 Margaret Louise Hilger, St. Paul
 Gretchen Ann Hoefs, Mazeppa
 Roger William Hoel, Minneapolis
 Mary Johannah Hoffert, Edina
 Donna Mae Hollen, Willmar
 Karen Ruth Holmgren, St. Paul
 Carol Elaine Holmquist, St. Louis Park
 Irene Christine Ingeborg Holmquist, Minneapolis
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 Myrna Beth Huckaby, Minneapolis
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 Glenn Roger Janson, Albert Lea
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 Caryl Jeanne Johannsen, Pipestone
 Dale William Johnson, Isanti
 Dawayn Herbert Johnson, Red Wing
 Jo-Anne Johnson, Minneapolis
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 Muriel Rae Johnson, Minneapolis
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 William Wayne Johnson, Minneapolis, WITH DISTINCTION
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 Frances Joanne Jugovich, Eveleth, WITH DISTINCTION
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 Caryl Jean Kelly, Devils Lake, N. D., WITH DISTINCTION
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 Beverly Mae Kero, Eveleth

* Nursing Education Curriculum

** Degree conferred as of March 21, 1957.

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 Patricia Joan Kileen, Superior, Wis.
 Carole Jean King, Brainerd, WITH DISTINCTION
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 Thomas Daniel Kloskowski, St. Cloud
 Thomas Edward Knauer, Austin, WITH DISTINCTION
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 Marlys Janet Kosmalski, St. Paul
 Georgia Catherine Kosmas, Minneapolis
 Barbara Diane Krieser, Minneapolis
 Adrienne Joyce Kroman, Minneapolis, WITH HIGH DISTINCTION
 Roger Arthur Kuhn, Stillwater
 Reinold Eli Lampi, Eben, Mich.
 Dorothy Isobel Langum, Minneapolis
 Suzanne Phyllis Lappin, Milwaukee, Wis.
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 Milton Warren Legg, Champlin, WITH DISTINCTION
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 Rachel Serene Anderson Leonard, B.A., Winnebago
 Lars Engdal Lervik, Minneapolis
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 Ella A. Dick Lindberg, Minneapolis, WITH DISTINCTION
 Janice Lee Lindberg, Minneapolis
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 James Bernard Lingwall, Minneapolis, WITH DISTINCTION
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 Shirley Evon Lofsness, Minneapolis
 Robert Charles Lucas, Minneapolis, WITH HIGH DISTINCTION
 Paul Elwin Lühring, Faribault
 Suzanne Mae Lund, B.S., Minneapolis
 James Earl Lundeen, A.A., Cokato
 Gene Kathryn Luren, St. Louis Park
 Marissa Lyone, St. Paul
 Nancy Elaine Wallgren Maas, St. Paul
 Rodney LeRoy Magnuson, Jr., St. Paul
 Shirley Marie Nelson Mahowald, Minneapolis
 Joan Elcanor Marble, St. Paul
 Hazel Maxine Markland, Hibbing, WITH DISTINCTION
 Neil A. Markus, St. Paul, WITH HIGH DISTINCTION
 Rudolf Martignacco, St. Paul
 Dolores Irene Massie, St. Paul
 Caryl Ann Matzke, Princeton, Wis., WITH DISTINCTION
 Richard Eugene Maxwell, Minneapolis
 Arlene Jean McCue, Rochester
 Shiela Anne McDermott, New Richmond, Wis.
 Robert Felix McGuire, Minneapolis
 Marilyn J. Apland McQuarrie, A.A., Minneapolis
 Carol Ann Mehrtens, Minneapolis
 Susan Katherine Mentzer, Minneapolis
 Richard Otis Meredith, Minneapolis
 Doris Ann Meyer, South St. Paul
 Joanne Finkel Meyers, Hopkins
 Stephen Joseph Miletich, Duluth
 Mary Ann Miller, B.B.A., Minneapolis
 Myrtle Lawrence Miller, St. Cloud
 Sandy Julia Miller, B.B.A., Sauk Rapids
 Betty Ann Minar, Minneapolis

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Diane Mary Moeglein, Minneapolis
 Joan Lee Moilanen, St. Paul
 Judith Anne Moilanen, Minneapolis,
 WITH DISTINCTION
 Paul Seltz Molnau, St. Paul
 Emily Margreta Boyd Monroe,
 Minneapolis
 Harold Lloyd Montzka, Grey Eagle
 Rosemary Ann Moon, A.A., Rochester
 Bella E. Dworsky Moore, B.A.,
 Minneapolis
 Doris Crystal Moritz, Buffalo Lake
 Joan Marie Murphy, Minneapolis
 Harry Webster Nash, Wheaton
 Peter James Nekola, Minneapolis
 Armi Maydell Koskinen Nelson,
 Superior, Wis.
 Helen Marie Nelson, Svea
 Lois Marie Nelson, Minneapolis
 Marion Elizabeth Nelson, St. Paul,
 WITH DISTINCTION
 Marjorie Esther Nelson, Minneapolis
 Maryvl Carolyn Nelson, Minneapolis,
 WITH DISTINCTION
 Marlene Joyce Neslund, Minneapolis
 James Reynold Newman, Fairmont
 Stella Seaton Newman, Coon Rapids
 Daniel Edward Newton, Minneapolis
 Noelyn Joyce Nicholls, St. Paul
 Janice Marie Rics Nielson, St. Paul
 Mary Ann Noer, Colfax, Wis.
 Daniel Jacob Nordgren, Jr., St. Paul
 Paul William Noreen, Jr., Minne-
 apolis, WITH DISTINCTION
 Glen Ray Nurkka, Nashwauk
 William Terrell O'Brien, Minneapolis
 Patricia Joyce Olin, Minneapolis
 Alis M. Mortensen Olsen, Minne-
 apolis
 Ruby Janette Olsen, Minneapolis
 Anita Beth Taino Olson, Minneapolis
 JoAnn Catherine Heebl Olson,
 Minneapolis
 Lloyd Clifford Olson, Jr., Minneapolis
 Phyllis EmmaGene Orstad, Robbins-
 dale
 Nancy Louise Page, Minneapolis
 Richard Edward Papke, Waseca, WITH
 DISTINCTION
 Juanita Gay Pattridge, Minneapolis
 Jean Patricia Pecchia, Nashwauk
 James Arnold Petersen, Minneapolis
 Mildred L. Magnuson Petersen,
 St. Paul
 William Leo Petersen, Minneapolis
 Claudia Lee Peterson, Minneapolis,
 WITH DISTINCTION
 Eric Carl Peterson, B.A., St. Paul
 Marian Elizabeth Peterson, Minne-
 apolis
 Richard Eugene Piotraschke, Minne-
 apolis, WITH DISTINCTION
 Regina Agnes Pomije, Shakopee, WITH
 DISTINCTION
 Marjorie May Jewell Porter, St. Louis
 Park
 Ruth Mary Rademacher, Austin, WITH
 HIGH DISTINCTION
 Evelyn Morris Radford, Minneapolis,
 WITH HIGH DISTINCTION
 Sandra Nadine Marsh Radin, Minne-
 apolis
 John Michael Rafter, Jr., St. Paul
 Janice Marie Ranallo, Minneapolis
 Janet Marie Cook Rank, St. Paul
 Helen Mary Teesdale Rask, Rochester,
 WITH DISTINCTION
 Audrey Shirley Minett Reichstadt,
 Ruthton
 Lois Ann Reisberg, Minneapolis
 Helen Louise Ripley, Minneapolis
 LeVaun Swartz Risdon, Minneapolis
 De Ann Rowe Roberts, St. Louis Park
 Douglas Grey Robertson, Minneapolis
 Elwin Eugene Rogers, Minneapolis,
 WITH DISTINCTION
 Jon Stanley Rohe, A.A., Minneapolis
 Roger Alan Rood, A.A., Rochester,
 WITH DISTINCTION
 Kenneth Earl Rosland, Minneapolis
 Carol Ann Ross, Montrose
 Elizabeth Anne McElroy Roy, Minne-
 apolis, WITH HIGH DISTINCTION
 MaryLu Anderson Rudquist, Minne-
 apolis
 Lynette Yvonne Russ, Blue Earth,
 WITH DISTINCTION
 Gary Kinney Russell, Evan
 Patricia Ann Russell, Grand Marais
 Janet Kay Rutherford, Winnipeg,
 Manitoba, Canada

- Marjorie Josephine Baum Ryncarson, Minneapolis
- Nancy Lou Sampson, Columbia Heights, WITH HIGH DISTINCTION*
- Joanne Marie Sandbo, St. James
- Barbara Ann Sandell, Minneapolis
- Nancy Ann Sandell, Minneapolis
- Virginia Canfield Schafer, Minneapolis, WITH DISTINCTION
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- Genevieve Anne Scholtes, Minneapolis*
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- Leo Joseph Schwartz, St. Paul, WITH DISTINCTION
- Lois Theresa Shafer, Minneapolis, WITH DISTINCTION
- Jacqueline Anne Shimpach, Owatonna
- Dale Victor Shuldes, B.S., Chicago, Ill.
- Alfred Paul Siftar, Bethlehem, Pa.
- Jaquelin Ann Silker, Onamia
- Sandra Joy Silver, St. Paul
- John Stephen Simmons, B.A., Gloucester, Mass.
- Athalia V. Skaug, Minneapolis
- Bertha Mae Smith, Des Moines, Iowa
- Janice Romelle Peterson Smith, St. Croix Falls, Wis., WITH DISTINCTION
- Jean Helen Smith, Minneapolis, WITH DISTINCTION
- Sonya Karen Albrightson Smith, New Richmond, Wis., WITH HIGH DISTINCTION
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- Janice Elizabeth Steege, Hopkins, WITH DISTINCTION
- Gretchen Suzanne Steinke, Sleepy Eye
- Marlene Bonita Stene, Minneapolis
- Nan Stevning, Minneapolis
- Mary Jean Stockdill, Triumph
- Marlene E. Mattila Stoehr, A.Ed., Minneapolis, WITH DISTINCTION
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- Maria Helen Strenglis, St. Paul
- Dorothy Jean Strudwick, Minneapolis
- Audrienne Stueve, Minneapolis
- Joan Marjorie Sutton, St. Paul
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- Harold Otto Swanson, South Milwaukee, Wis., WITH DISTINCTION
- Sally Sylvia Ann Swanson, Minneapolis
- Sarah L. Taylor Swanson, B.A., Minneapolis
- Marguerite Jeanne Swenson, R.N., Goodhue*
- Beverly Elaine Tetzlaff, Minneapolis, WITH DISTINCTION
- Katherine P. Thom, A.L.A., Minneapolis
- Carmen Elaine Thompson, Redwood Falls
- Carol Ann Schmeling Thoreson, Minneapolis
- Roger Wayne Thyr, Onamia
- Marian Annabelle Torgelson, Milan
- James Erick Tormoen, Minneapolis, WITH DISTINCTION
- Erma Carlson Townley, Sioux City, Iowa, WITH DISTINCTION
- James Carr Tracy, Minneapolis
- Sandra Ann Tweed, Minneapolis
- Gerald Clarence Ubben, Minneapolis
- Donald M. Uhlenberg, Minneapolis
- Irene E. Urashi, Minneapolis
- Gretchen Elisabeth Urnes, Minneapolis, WITH DISTINCTION
- Florence Elenor Varberg, B.A., St. Paul

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 Virginia Mae Volk, Minneapolis
 Lillian E. VonOsten, A.A., Eyota
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 Sally Wallace, Minneapolis
 Eileen Walsh, St. Paul
 Lois Ann Wannarka, Fairmont
 Shirley Fay Warren, Minneapolis
 Philip Julian Weiler, St. Paul, WITH
 DISTINCTION
 Henning V. Westberg, A.A., Minneapolis
 Charles Edward White, B.B.A., Still-
 water
 Carol Elisabeth Whitmore, Colum-
 bia, Mo., WITH DISTINCTION
 Joan Helen Whittemore, Minneapolis
 Charles Elden Wiberg, Kansas City,
 Mo., WITH HIGH DISTINCTION
 Marian Elizabeth Wicker, Minne-
 apolis

Robert Newell Wige, St. Paul
 Barbara Ann Wiggins, Minneapolis
 James Gordon Wigney, Long Beach,
 Calif.
 Clifford Homer Wiklund, Virginia
 Barbara Jean Wilson, Faribault, WITH
 DISTINCTION
 Marjorie Jeanne Wilson, Rockwell
 City, Iowa
 Richard LeRoy Wilson, Wayzata,
 WITH DISTINCTION
 Anita Rose Winick, Des Moines, Iowa
 Barbara Jo Cowan Winthrop, Duluth,
 WITH DISTINCTION
 Grace Evelyn Thom Wohlin, Minne-
 apolis
 Louis Anthony Wojack, Minneapolis
 Constance Lovelace Woodward,
 Minneapolis
 Mary Gayle Wozniak, Minneapolis
 Rose Marie Yanisch, South St. Paul,
 WITH DISTINCTION
 Rene Jane Ziegler, St. Paul
 Alan Zuckert, St. Paul

Master of Education

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 apolis
 Joyce Elaine Miller, B.S., Minneapolis
 Mary Alice Nofziger, B.S., Wauseon,
 Ohio

Robert David Odegard, B.A., Minne-
 apolis
 Jerome John Schempf, B.S.,
 Kimball**
 Ruth Eleanor Smith, B.S., Rochester

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

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 Elton Anderson, Essex, Iowa
 Gerald William Anderson, Lake Nor-
 den, S. D.
 Vernon Elroy Anderson, Bagley
 Richard Donald Archer, Minneapolis
 Robert Earl Armstrong, St. Paul, WITH
 DISTINCTION
 Jack Wayne Askelson, Spring Grove

James Allan Bakken, Moorhead
 Bruce Allen Barrett, Detroit Lakes
 Frank Walter Baseman, Glencoe
 Robert Maurice Beaubaire, Minne-
 apolis
 Charles Ernest Benda, Minneapolis
 Richard Thomas Bennett III, Minne-
 apolis
 Carl Rutherford Bergquist, Jr., Minne-
 apolis

** Degree conferred as of March 21, 1957.

Roy Justus Bestland, Jr., Wood Lake
 Frederick Lee Biederman, Osseo
 Ronald Duane Bjork, Dodge Center
 Donald Bottolfsen, Superior, Wis.
 Ralph Aloysius Boudewyns, Jr.,
 St. Paul
Robert Lyle Brenner, Minneapolis,
 WITH DISTINCTION
 Robert Stanley Browne, St. Louis
 Park
 George General Burke, Mankato
 August Charles Burmeister, Redwood
 Falls
 James Alfred Cameron, Minneapolis
David Irving Carlsen, Glen Ellyn, Ill.,
 WITH DISTINCTION
 Jon Berglund Charlsen, Stillwater
 Cortlen G. Cloutier, B.S.L., Minne-
 apolis
Alan Lawrence Cohn, Minneapolis,
 WITH DISTINCTION
 Charles Sidney Conway, Austin
 George Roger Cook, Farmington
John Alan Copper, Minneapolis, WITH
 DISTINCTION
 John Michael Cracraft, Minneapolis
 Andrew Paul Czajkowski, St. Paul
 Jack Francis Daly, Jr., B.S.L., Minne-
 apolis
 John Lionel Davis, Minneapolis
 Robert Albert Deden, Red Wing
 Roger Alan Derksen, Mountain Lake
 Donald Milton Dick, St. Paul
 Donald Dosen, Minneapolis
 David Peter Edstrom, St. Paul
 James Walter Erickson, Minneapolis
 Michael J. Evers, Theilman
 John Edward Fahning, Waterville
 Mary Annette Fechan, Gaylord
 Charles Wesley Fisher, Mankato
 Edward Joseph Foley, Minneapolis
 Charles Alvin Fredrick, St. Paul
Philip Longfellow Fullerton, St. Paul,
 WITH DISTINCTION
 Roger Dale Gabbert, Minneapolis
 Kenneth Cunningham Gay, Moose
 Lake, WITH DISTINCTION
 Martin William Gold, Indianapolis,
 Ind.
 William Johnstone Graham, Brainerd
 Thomas William Green, Plainview
Richard David Gregoire, Eau Claire,
 Wis., WITH DISTINCTION
 Robert William Guetzlaff, Minne-
 apolis
 Dennis Glenn Gustafson, Minneapolis
 Harold Thomas Hallin, Minneapolis
 Carl Christian Hansen, Jersey City,
 N. J.
 Fred Chatfield Hansen, A.A., St. Paul
 Richard Rebne Hansen, Minneapolis
 Robert Harold Hanson, Minneapolis
Ronald Gene Harber, Austin, WITH
 DISTINCTION
 John Hauschild, Minneapolis
 Thomas Robert Hawn, Minneapolis
 Howard Clare Healey, Rochester
 James Creighton Hedges, Minneapolis
Douglas Paul Herr, Wishek, N. D.,
 WITH HIGH DISTINCTION
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 Eau Claire, Wis.
 Richard Carlton Hinze, Jr., Sarasota,
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 Howard James Hope, Nerstrand
 Howard Jon Hornquist, Brainerd
 Brian N. Humphrey, St. Paul
 Thomas Lee Jacobson, Minneapolis
 Donald Arthur Johnson, Virginia
 Duane Harlan Johnson, St. Paul
 James Lyle Johnson, Fairmont
 Kenneth Allen Johnson, Fort Dodge,
 Iowa
 Kenneth Eastman Johnson, Morris
Marvin John Johnson, Tintah, WITH
 DISTINCTION
 Robert Victor Johnson, Mora
 David Charles Johnston, St. Paul
 Dudley Richard Johnston, Shafer
 William John Kochevar, Eveleth
 Matt Alarick Kojo, Floodwood
 George James Kotsonas, A.A., Minne-
 apolis
 Virginia Ann Kroening, St. Paul
Harold Joseph Lamon, Jr., Austin,
 WITH DISTINCTION
 Edward Willis Libby, St. Paul
Charles Wayne Lindberg, Fosston,
 WITH DISTINCTION
Paul Elmer Lindholm, Ortonville,
 WITH HIGH DISTINCTION

John Andrew Lindquist, Faribault
 Myron James Loula, Montgomery
 Neil Albert Ludvigson, Austin
 Richard Coulter Lund, St. Paul
 Gerald Henry Lynch, Minneapolis
 James Henry Malecki, Minneapolis
 Charles Edmund Malmberg, South
 St. Paul
 Paul Frederick Markgren, Cumber-
 land, Wis.
 William Lyle Martin, Alexandria
 Albert Chester Mathes, Mount Holly,
 N. J.
 Marjorie Frances McClure, B.A.,
 Minneapolis
 Arthur Waldemar Milberg, Duluth
 Forrest W. Miller, Jr., A.A., Minne-
 apolis
 Michael Frank Mortl, A.L.A., Minne-
 apolis
 Dennis James Murphy, Minneapolis
 Daniel Richard Murray, Wahpeton,
 N. D.
 Douglas Gordon Nelson, Minneapolis
 Rollin Matz Nelson, Fulda
 George Wayne Nichols, Great Falls,
 Mont., WITH DISTINCTION
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 Bruce E. Nordin, Minneapolis
 James Francis O'Keefe, Minneapolis
 Robert Donald Olson, Minneapolis
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 John David Overbye, Grafton, N. D.
 Gordon LeeRoy Overland, St. Paul
 Jerome Philip Pederson, Appleton
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 City, Utah, WITH HIGH DISTINCTION
 Robert Melvin Peters, Minneapolis
 Dean Wesley Petersen, Minneapolis
 George Petroff, Chicago, Ill.
 Paul Keith Petterson, LaSalle
 Julia Mary Porter, Milwaukee, Wis.
 Truman White Porter, St. Paul
 Hollis William Rademacher, Water-
 ville, WITH DISTINCTION
 Marlyn Burton Reishus, Cottonwood
 Darrell Kay Roehl, Odessa
 Beatrice Florizel Ronning, Willmar
 Steven James Rosing, Minneapolis
 Cyril Edward Roy, St. Paul
 James Henry Russell, B.S.L., Minne-
 apolis
 Donald Blethen Sanberg, Minneapolis
 Louis Osmund Sanden, St. Paul
 Gerald Joseph Santers, Minneapolis
 Lawrence Phillip Schlernitzauer,
 Minneapolis
 Gerald Joseph Schmelke, Minneapolis
 Delores Rose Schmidt, Harvey, N. D.
 Donald John Schoen, Murdock
 John Michial Schorn, A.L.A., Minne-
 apolis
 Roger Ronald Allen Schreder, A.L.A.,
 Minneapolis
 Barbara Jeanne Scott, Minneapolis,
 WITH DISTINCTION
 George Thomas Scott, Minneapolis
 Stuart J. Seiler, Duluth
 Roger William Seltz, Thief River Falls
 Alan Lee Sherr, Minneapolis
 Robert George Shulze, Sauk Centre
 Rhoda Lee Silver, St. Joseph, Mo.
 David Joseph Simecek, St. Paul
 Oscar Fredrick Sjoberg, Jr., Hendrum
 Bruce Richard Smith, Minneapolis,
 WITH DISTINCTION
 Kenneth John Smith, Estherville,
 Iowa
 Thomas Milford Smith, Minneapolis
 Robert Lewis Smitten, Minneapolis
 John Elling Soli, Austin
 Roger Ramon Sonstegard,
 New London
 Charles Cap Souders, Minneapolis
 James Richard Spevacek, Minneapolis
 Gehardt August Splittstoesser, Rock-
 ford
 Glenn Howard Steinke, St. Paul
 Marilyn Dorothy Stern, St. Paul
 Richard Edward Stieger, St. Paul
 Kenneth Stocke, Minneapolis
 Alfred William Stoess, B.A., Hayward,
 Wis.
 Donald LeRoy Swanson, Minneapolis,
 WITH DISTINCTION
 Richard John Swindal, Minneapolis
 Francis George Sydejko, Chippewa
 Falls, Wis.
 John Akira Takekawa, Minneapolis
 James Walter Taylor, Mankato
 William Hargrave Teeter, Minneapolis

Robert Owen Tolstad, Lewiston
 Torje Kristen Torjesen, Minneapolis
 Edmund Phillip Tschimperle,
 Hopkins
 Jerry William Tygeson, Thief River
 Falls
 Robert William Vanasse, Minneapolis
 Phillip John Vennewitz, Sauk Centre
 Ronald Robert Wagner, Minneapolis,
 WITH DISTINCTION
 Roger Alan Wahldick, Arlington
 Lester Howard Wakefield, Minne-
 apolis
 Herbert William Wakeford, Minne-
 apolis, WITH HIGH DISTINCTION
 William Cyril Warner, Minneapolis
 John Frederick Webber, Minneapolis

Edson Roland Weeks, Jr., Minne-
 apolis
 John William Weimer, St. Paul
 Michael Davis Weinberg, Minne-
 apolis, WITH HIGH DISTINCTION
 Hilbert Seymour Weiner, Minneapolis
 Loren Vern Westman, Minneapolis
 Dale Ernard Whinnery, Minneapolis
 Richard Kenneth Wolfson, St. Paul,
 WITH DISTINCTION
 Judith E. Moore Woodward, Good-
 hue
 Willard Philip Wredberg, North
 Branch
 Edward Zamansky, St. Paul
 Donald Allen Zerr, Minneapolis
 Joseph Dominic Zwak, Minneapolis

Bachelor of Science in Business

Waldo Erland Marston, Adrian**

Bachelor of Science in Economics

DeWayne Gordon Amundsen, Minne-
 apolis
 Fred Louis Cisewski, Winona
 Ross Todd Dunlop, Owatonna

Darrel James Guzy, Minneapolis
 Lu Verne Ardell Jertson, Harmony
 Arthur Wendell Thorwick, Minne-
 apolis

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Maynard Charles Berland, Spring
 Grove
 Russell Arthur Boogren, Jr., St. Paul
 Donald Victor Busse, St. Paul
 Henry Talavera Capiz, St. Paul
 James R. DeFore, Robbinsdale
 Richard M. Dorn, A.M.S., Hendricks
 Gary Lee Folsom, Ogilvie
 Howard Wayne Goldenberg, Minne-
 apolis
 Theodore Edward Gram, Minneapolis
 Royal Ray Gustafson, Fairmont
 Harry M. Iverson, B.A., St. Paul
 Robert Neely Jensen, Hutchinson
 Gene Paul Johnson, Cloquet

Donald Cameron Johnstone, A.A.,
 Minneapolis
 Richard Charles Karp, Faribault
 Thomas Stewart Kassmir, Minneapolis
 Gerald Francis Koch, Minneapolis
 Robert John Kolb, St. Paul
 Bruce Jay LaMere, Waseca
 Jon Richard Lindquist, Minneapolis
 Joan Ann Macker, Dubuque, Iowa
 Alan Frederick Mahler, Waterville
 James Joseph McJilton, River Falls,
 Wis.
 David Alfred Medhaug, Rushford
 Paul Robert Mueller, St. Paul
 Donald Carl Nelson, Minneapolis

** Degree conferred as of June 20, 1923.

Robert Earl Nordeen, Mora
Leonid Papara, Lwiw, Ukraine
Andrew Gardner Sanders, Albert Lea
Daniel Santarsiero, White Bear Lake
Donald Henry Scholten, Jr., Minneapolis
Jackie Ronald Sikora, Morton

Leon Haskin Skoogman, Hopkins
Lawrence Edward Stangler, Kilkenny
Wolodymira Taraszuk, Minneapolis
Ellsworth O. Ulven, Spring Grove
Robert Floyd Volk, Mankato
James N. Weber, Le Center
Barbara Rieschl Wolf, B.A., Jordan

LAW SCHOOL

Bachelor of Science in Law

Roderick Dean Blanchard, Edina
Frederick Joseph Boyne, Mankato
Douglas Wayne Briggs, Minneapolis
Charles R. Edelstein, Hibbing
Richard Joseph Fitzgerald, Minneapolis
Stuart Eugene Gale, St. Paul
Jay Herbert Goldberg, Minneapolis
David Miller Hunt, A.A., Rochester
John Norman Inglis, Iowa Falls, Iowa
Larry Walter Johnson, Princeton
Terry Clark Klas, St. Paul
Ryan Clifford Knapp, Worthington
Richard Joseph Menke, Jordan
Robert J. Miller, St. Cloud
Marlene Germaine Mitchell, Minneapolis
Charles Duane Nyberg, Henning
Wayne Albin Pokorny, Silver Lake

Manson Reedal, Minneapolis
Avron Samuel Rosenberg, St. Louis Park
Stephen Cooper Samels, Minneapolis
Leslie Stanley Shapiro, Duluth
Sheldon Edward Silver, Minneapolis
Charles Mather Skinner, Jr., Minneapolis
Gene Raymond Sommers, Minneapolis
Robert Clarence Swenson, A.L.A., Minneapolis
Ancy L. Tone, International Falls
Wayne Theodore Valentine, Minneapolis
Kurt Fredrick Walther, Minneapolis
Gary George Widell, Minneapolis
Robert Edward Willow, Excelsior
Ronald Jerome Wolf, Minneapolis

Bachelor of Laws

James Ayre Abbott, B.A., St. Paul
Victor Anderson, Alnwick, England
Sydney Berde, B.S., M.S., St. Paul
Carl John Bradshaw, B.S.L., Minneapolis
Michael Eugene Bress, B.A., Minneapolis
Leonard Herbert Bucklin, B.S.L., Anoka
John Thomas Burns, B.S.L., St. Cloud
Thomas Robert Butler, Jr., B.A., Mankato
John Carl Carleen, B.S.L., Minneapolis
Cortlen G. Cloutier, B.S.L., Minneapolis

Lawrence David Cohen, B.S.L., St. Paul
Guenter S. Cohn, B.S.L., St. Louis Park
Roland Walter Comstock, B.A., Mankato
John Francis Corcoran, B.A., Minneapolis
Charles Alfred Cox, B.S., M.A., Minneapolis
Mary Jeanne Coyne, B.S.L., Minneapolis
Jack Francis Daly, Jr., B.S.L., Minneapolis
Robert Lee Davidson, B.S.L., Minneapolis

Richard Lee Desmond, B.S.L.,
St. Paul

John Peter Dosland, B.A., Moorhead

Milan M. Dostal, B.B.A., Hutchinson

Willard DeWayne Dover, B.S.L.,
Minneapolis

Milton G. Dunham, Minneapolis

John Donald Durfee, B.S.L., Duluth

Thomas True Dwight, B.A., Mound

George Alan Emslie, B.B.A., St. Paul

Donald Jackson Fraley, B.B.A.,
Minneapolis

Stuart Eugene Gale, St. Paul

Michael John Galvin, B.A., St. Paul

Leigh Joseph Gard, B.A., Red Wing

Roland Douglas Graham, B.B.A.,
Minneapolis

Melvin Hubert Grell, B.A., Pierz

Charles Joseph Habergarten, B.A.,
Waconia

John Ireland Halloran, B.A., Jackson

Leo John Harris, B.A., Minneapolis

Karl Joseph Herman, B.S.L., St. Paul

David Miller Hunt, A.A., Rochester

Clyde Milton Illg, B.B.A., Detroit
Lakes

Douglas Raymond Jordal, B.S.L.,
Minneapolis

Alvin Larry Katz, B.S.L., St. Paul

Paul Allan Kief, Montevideo

Leonard Kne, Chisholm

Thomas Robert Krcensky, B.A.,
Mankato

Arthur Patrick Leighton, Jr., Austin

Jerome Howard Lewis, B.S.L., St. Paul

Ernest A. Lindstrom, B.S.C., Litch-
ville, N.D.

John Bernard McCarthy, B.S.L.,
Minneapolis

John Alexander McHardy, Jr., B.S.L.,
Minneapolis

John C. McNulty, B.A., Minneapolis

Paul David McRoberts, B.S.L.,
St. Paul

Ronald Ivan Meshbesher, B.S.L.,
Minneapolis

Shuichi Miyasaki, B.S., Minneapolis

John Francis Murphy, B.B.A.,
St. Cloud

John Alfred Murray, B.A., St. Paul

Richard John Oldfield, B.B.A., Minne-
apolis

James Charles O'Neill, B.A., M.A.,
Minneapolis

Richard Lee Pemberton, B.S., Blue
Earth

Richard Prescott, B.A., Minneapolis

Manson Recdal, Minneapolis

Bernard Duane Reisberg, B.S.L.,
Minneapolis

James William Remund, B.S., Waseca

John D. Rendahl, B.A., Moorhead

Milton Alvin Rosenblad, B.S.L.,
Minneapolis

James Henry Russell, B.S.L., Minne-
apolis

Loren William Sanford, B.S.L.,
Princeton

Ralph S. Schneider, B.B.A., Minne-
apolis

Milton Sidley, B.A., St. Paul

Ronald Lee Simon, B.B.A., St. Paul

Gerald Morrell Singer, B.S.L., Minne-
apolis

Theodore Myron Stone, B.S.L.,
Minneapolis

James Alvin Struthers, B.S., Minne-
apolis

Ross Abbott Sussman, B.S.L., Minne-
apolis

Harlan G. Sween, B.S.L., St. Paul

Gerald Leonard Thoreen, B.S.L.,
Minneapolis

James Richard Tuthill, B.S.L., Minne-
apolis

Stephen Francis Varichak, B.S.L.,
Minneapolis

Dwight Richard Witt, B.S.L.,
Rochester

Master of Laws

Hilario Garcia Fusilero, D.V.M., LL.B.,
Paranaque, Rizal, Philippines

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Carol Joan Baker, B.A., LaGrange, Ill.
Nancy L. Bechtle, Minneapolis
Cynthia Anne Becker, Adrian
Patricia Louise Brown, Fort Madison,
Iowa
Arlene Defren, Robbinsdale
Romanus Jean Donelan, Montrose,
S. D.
Nancy Ellen Edstrom, St. Paul
Lillian Jempsa Eid, B.A., Minneapolis
Ann Marie Fanning, Laramie, Wyo.
Patricia Gayle Finnegan, New Prague
Charleen Rae Gorell, Eau Claire, Wis.
Marianne Gregus, D.D.S., Cologne,
Germany
Judith Lee Hanson, Perham

Jean Elaine Herby, Minneapolis
Barbara Ruth Kaatiala, Grand Rapids
Joyce Eileen King, Minneapolis
Kathryn Ruth Lindstedt, Minneapolis
Jean Ann Morton, Minneapolis
Vivian Jean Okerstrom, Minneapolis
Marcia June Oslund, Minneapolis
Patricia M. Reeves, Minneapolis
Carole Ann Roetman, St. Paul
Jane Beverly Schonberg, Minneapolis
Janet Elaine Sims, St. Louis Park
Barbara Fern Stucky, Pine Island
Martha Marie Stultz, Cannon Falls
Carol Renee Sutherland, Monticello
Helen Elizabeth Towle, St. Paul

Bachelor of Science

Walter J. Ackerman, Minneapolis
Wayne Douglas Benson, Red Lake
Falls
Dennis Joseph Brandstetter, Hopkins
Jack Leroy Brinkman, Kalispell, Mont.
Neil Curtis Brownlow, Spring Valley
Richard Raymond Ciebiera, Duluth
Lloyd William Cooper, Lead, S. D.
Leonard David Crockett, A.A.,
Rochester
Robert Lynn DeValois, Zumbrota
Ronald Elwood Geistfeld, St. James
Clarence Victor Gorder, Poplar,
Mont., WITH DISTINCTION
Lyle Glenn Grosz, Beulah, N. D.
James Patrick Haas, Sleepy Eye
James Mateland Herbert, Sioux Falls,
S. D.
Robert Reich Hoover, Minneapolis,
WITH DISTINCTION
William Wesley Jacobi, B.A., Owa-
tonna
Kenneth Fremont James, Minneapolis
Clinton Charles Johnson, B.A., Hector
Orlen Norman Johnson, Sioux Falls,
S. D., WITH HIGH DISTINCTION
William Richard Johnson, St. Paul
James Franklin Kline, Anoka

Andrew Kristo, Red Wing, WITH DIS-
TINCTION
Ralo Hugo Kuhl, Sherwood, N. D.
Reuben Dale Larson, B.A., Minne-
apolis
David William Longworth, Monti-
cello
Paul Munson Lundeberg, Minne-
apolis
Donald Clyde McNevin, Minneapolis
Richard Perry Meyer, Minneapolis,
WITH HIGH DISTINCTION
William Francis Mullally, Aberdeen,
S. D.
Edward Theodore Nelson, Kenneddy,
WITH HIGH DISTINCTION
John Franklin Nelson, Buhl, Idaho,
WITH DISTINCTION
Herbert Jaeger Nygren, Minneapolis
Brendan Weldon O'Brien, Belle
Plaine
Lloyd Eugene Pearson, Minneapolis,
WITH HIGH DISTINCTION
Edward Charles William Schutte,
Austin
Thomas Pifer Serene, Larimore, N. D.
Rolf Ivar Skyberg, Canton, S. D.
Robert Newton Staley, Huron, S. D.

John Watson Starr, Tracy
Gregory W. Stende, Princeton
Gerald Dean Stordal, Minot, N. D.,
WITH DISTINCTION
Ralph Frizner Swenby, Wausau, Wis.

James Masaru Toda, B.A., Honolulu,
Hawaii, WITH HIGH DISTINCTION
John Julius Wandmaker, Jr., Proctor
Harold Lenik Weisberg, Minneapolis

Doctor of Dental Surgery

Fred Johnson Anstrom, Bismarck,
N. D.
Jerald Lee Armstrong, B.S., Sioux
Falls, S. D.
Donald Lewis Baker, Minneapolis
Wayne Douglas Benson, Red Lake
Falls
John Francis Betlach, B.S., Owatonna
Dennis Joseph Brandstetter, Hopkins
Dale E. Brick, B.S., Mansfield, S. D.
Neil Curtis Brownlow, Spring Valley
James S. Brudvik, Mayville, N. D.
Kenneth Leonard Carlson, Minne-
apolis
George Marinus Christensen, B.S.,
Ruthton
Richard Raymond Ciebiera, Duluth
Lloyd William Cooper, B.S., Lead,
S. D.
James Jerome Diehl, B.S., St. Paul
David John Fihn, Braham
George F. Frisch, B.S., Winona
Ronald E. Geistfeld, St. James
James J. Genova, B.S., Cheyenne,
Wyo.
Richard Bruce Hancock, A.L.A., B.A.,
B.S., Minneapolis
Glenn Maurice Haugan, B.S., Water-
town, S. D.
Donald Leroy Haugen, Larimore,
N. D.
Elvin Fredrick Heiberg, B.S., North-
field
Robert Reich Hoover, Minneapolis
William Edward Horn, Sacramento,
Calif.
Ward Allison Hulbert, Minneapolis
George Lewis Humphrey, B.A., B.S.,
Moorhead
Dale Ralph Hurd, Hibbing
Lawrence Harlo Irgens, B.A., B.S.,
Fergus Falls
Robert Francis Janu, B.S., New Prague

Clinton Charles Johnson, B.A., Hector
Graydon Morris Johnson, Fertile
Wayne Russell Kelley, B.S., Minne-
apolis
James Franklin Kline, Anoka
Andrew Kristo, Red Wing
Cory H. Kruckenberg, A.A., B.S.,
Hartley, Iowa
Robert Earl Krumholz, B.S., Hallock
John William Kuntz, B.A., Minne-
apolis
Fahey DuWayne Law, Randolph
Glenn Charles Lilleskov, B.S.,
Rochester
Richard Michael Madden, B.S.,
Minneapolis
Roger Vincent Majerus, B.S.,
Goodhue
Richard James McConnell, Minne-
apolis
William Leo McDonald, B.S., New
Prague
Donald C. McNevin, Minneapolis
Robert Ellis Mecklenburg, B.S.,
Minneapolis
Maurice Wesley Meyer, B.S., Minne-
apolis
Ronald Keith Miller, B.S., B.A.,
Aitkin
William Francis Mullally, Aberdeen,
S. D.
Albert Nobuyuki Muronaka, B.S.,
St. Paul
Lee Stuart Nelson, B.S., Minneapolis
Herbert Jacger Nygren, Minneapolis
Jon David Palmquist, Minneapolis
Lloyd Eugene Pearson, Minneapolis
Ivan John Peterson, Jr., B.S., Sidney,
Mont.
Dean Douglas Quale, Willmar
Omer Keith Reed, B.S., Minneapolis
Frederick Claire Requa, B.S., Austin

Richard John Rozehnal, B.S., River Falls, Wis.
 Roland Howard Rue, B.S., Lakota, N. D.
 Alfred Howard Sather, B.S., McGregor
 Richard George Schaefer, B.A., Albany
 Earl Elmer Schatz, B.S., South Haven
 Roger Kenneth Schroeder, B.S., B.A., Minneapolis
 Eugene Myles Sebald, B.S., Moose Lake
 Ralph Loyd Sonstegard, B.S., New London
 John Watson Starr, Tracy

John Anthony Stemper, B.S., St. Paul
 Gregory W. Stende, Princeton
 Susumu Tamanaha, B.A., Honolulu, Hawaii
 Robert Sylvester Torgerson, B.S., M.S., Hudson, Wis.
 Homer Wendell Vandine, Lead, S. D.
 James F. L. Venables, B.S., St. Paul
 Jack Kellett Walker, B.A., Hutchinson, Kan.
 John Julius Wandmaker, Jr., Proctor
 Arne Reuben Westerback, St. Paul
 Hugo Martin Wolf, B.S., Minneapolis
 John Morgan Young, B.A., B.S., Fargo, N. D.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Robert Arthur Aller, Tomah, Wis., Physical Therapy, WITH DISTINCTION
 Carole Grace Anderson, St. Paul, Physical Therapy
 Inez Margaret Aspelund, Wilmot, S. D., Public Health Nursing, WITH DISTINCTION
 William W. Baak, B.A., Minneapolis, Medicine
 Janice Arlene Beck, Minneapolis, Medical Technology***
 John Alexander Berman, B.A., Sacramento, Calif., Medicine
 Robert LeRoy Bollinger, Eau Claire, Wis., Occupational Therapy
 Margaret Mary Burke, Minneapolis, Physical Therapy
 Leland Roger Christenson, B.A., Marshall, Medicine
 Espenna Andrae Christnagel, Minneapolis, Occupational Therapy, WITH DISTINCTION
 Barbara Goldborg Cohen, St. Paul, Medical Technology, WITH DISTINCTION***

Leota Ann Desonia, Virginia, Physical Therapy
 Jane Elise Dunning, St. Paul, Occupational Therapy, WITH HIGH DISTINCTION
 John Craig Edgerton, B.A., St. Paul, Medicine
 Nancy Jean Thorpe Elstad, Minneapolis, Medical Technology***
 E. Duane Engstrom, B.A., Alexandria, Medicine
 Joseph H. Eusterman, B.A., Rochester, Medicine
 Doris Ruf Fink, Spooner, Wis., Public Health Nursing, WITH DISTINCTION
 Jane Heidelberger Froemming, Minneapolis, Medical Technology***
 Mary Jean Fuller, Amboy, Occupational Therapy, WITH DISTINCTION
 Sharon Jean Gemmill, St. Paul, Medical Technology***
 M. Melvin Goldfine, B.A., Duluth, Medicine
 Alan Lawrence Goldstein, B.A., St. Paul, Medicine

*** These degrees are conferred subject to the satisfactory completion of practical work prior to December 19, 1957.

- Kathleen Marie Goranson, St. Paul, Occupational Therapy, WITH HIGH DISTINCTION
- Gordon Lee Graham, Wells, Physical Therapy, WITH DISTINCTION
- Mary Bradley Grwe, Minneapolis, Physical Therapy, WITH DISTINCTION
- Violet Victoria Gyler, St. Paul, Public Health, WITH DISTINCTION
- David George Haney, B.A., Minneapolis, Medicine
- Bonnie Jean Marilyn Hansen, Morgan, Occupational Therapy
- Gretchen B. Hansen, Virginia, Occupational Therapy
- Pauline Lillian Hay, Worthington, Physical Therapy
- Loretta Ann Hendrickson, Minneapolis, Medical Technology***
- Robert Tolan Hilker, B.A., St. Paul, Medicine
- Vincent Wordsworth Hoversten, B.A., Marshall, Medicine
- Lois May Jaeger, Minneapolis, Occupational Therapy
- Beverley Ann Jarmuth, Richey, Mont., Medical Technology***
- Frederick William Jensen, Jr., B.A., Duluth, Medicine
- Carolyn Faith Johnson, Minneapolis, Public Health Nursing
- Doris I. Johnson, B.A., Minneapolis, Medicine
- Susan Elaine Johnson, A.A., Bridger, Mont., Physical Therapy
- Wendell August Johnson, B.A., North Mankato, Medical Science
- Yvonne Louise Kellner, Minneapolis, Physical Therapy
- Beverly Jean Kreitinger, A.A., Redlands, Calif., Public Health Nursing
- Clair Gene LeCaptain, St. Paul, Physical Therapy
- Dale David Lindholm, B.A., Duluth, Medicine
- Richard Roy Lund, B.A., Minneapolis, Medical Science
- Joan Mary Lundquist, Hibbing, Physical Therapy
- Fred Alexander Lyon, B.A., Minneapolis, Medicine
- Thomas James Markovich, A.M.S., Ely, Physical Therapy
- Margaret Joan McCall, Regina, Saskatchewan, Canada, Physical Therapy
- JoAnn Louise Mercil, Minneapolis, Medical Technology***
- Janette Carol Milbrandt, Marshall, Medical Technology***
- MaryLee Milton, Minneapolis, Occupational Therapy
- Nancy Lou Mix, Mountain Iron, Physical Therapy
- Joseph Paul Mlinar, B.A., Spring Valley, Medicine
- Jerome Herbert Modell, B.A., St. Paul, Medicine
- Margaret Ellen Monson, St. Paul, Physical Therapy, WITH DISTINCTION
- Gene Carleton Muchow, B.A., Minneapolis, Pre-Medicine
- John Edward Mulvahill, B.A., Minneapolis, Medicine
- Nancy Jean Munter, Hibbing, Physical Therapy
- Anna Kay Nelson, Brainerd, Physical Therapy
- Andrew Adolf Nielsen, B.A., Euclid, Medicine
- John Anton Nilsen, B.A., Rothsay, Medicine
- Robert Henry Olin, Duluth
- Martin Walter Orbuch, B.A., St. Paul, Medicine
- Lia Ozols, Minneapolis, Medical Technology***
- Richard Charles Pembroke, St. Paul, Physical Therapy, WITH HIGH DISTINCTION
- Charles Allan Peterson, B.A., Virginia, Medicine
- Paul H. Pobor, B.A., Los Angeles, Calif., Medicine

*** These degrees are conferred subject to the satisfactory completion of practical work prior to December 19, 1957.

- Elaine Portlas, Hibbing, Physical Therapy
- Herbert Walter Post, St. Paul, Occupational Therapy, WITH DISTINCTION
- Anne Bell Pribyl, Chicago, Ill., Public Health Nursing, WITH DISTINCTION
- Karyne Kathleen Quast, Long Prairie, Occupational Therapy, WITH DISTINCTION
- Marilyn Lavonne Reinke, Wilton, Medical Technology***
- Arthur James Rushay, B.A., Minneapolis, Medicine
- John S. Rydberg, B.A., Bovey, Medicine
- Jerome Henry Sacks, B.A., Minneapolis, Medicine
- Norman Joseph Sacks, B.A., St. Paul, Medicine
- Joanne Judith Samuelson, A.A., Chicago Heights, Ill., Medical Technology***
- Keith Duddley Sayther, B.A., Mound, Medicine
- Rosamond Ann Schliep, Superior, Wis., Occupational Therapy
- Leonard Dean Schloff, St. Paul, Medicine
- Gretchen Marie Schmalz, St. Paul, Occupational Therapy
- Janet Elizabeth Schmidt, New Ulm, Occupational Therapy, WITH DISTINCTION
- Stanley William Shapiro, B.A., Minneapolis, Medicine
- Diane Marie Singer, Minneapolis, Occupational Therapy
- Rita Loraine Smith, A.A., Minneapolis, Occupational Therapy, WITH DISTINCTION
- Lilja A. Snyder, Cavalier, N. D., Public Health, WITH DISTINCTION
- Stanley Carol Sollie, B.A., Fertile, Medicine
- Anton Francis Spraitz, Jr., B.A., South St. Paul, Medicine
- Joyce Ann Stefan, Ironton, Medical Technology***
- Lloyd Willard Stein, B.S., Richfield, Physical Therapy
- Judith Richards Stoeckmann, Rock Springs, Wis., Public Health Nursing
- Maija Astrida Stumbris, B.S., Riga, Latvia, Medical Technology, WITH DISTINCTION***
- Florence Amalia Toussaint, B.A., Fulda, Medicine
- Gisela Charlotte Truestedt, Berlin, Germany, Physical Therapy
- Frank W. Van De Water, B.A., St. Paul, Medicine
- Martha Elsie Wehrly, Kane, Ill., Public Health Nursing
- Robert Wayne Wilken, B.A., Fairmont, Medicine
- Regina Lee Williams, St. Paul, Medical Technology***
- Patricia Jean Winjum, Albert Lea, Physical Therapy
- Sandra Diane Wonderly, Hopkins, Occupational Therapy
- Solomon Joseph Zak, B.A., Minneapolis, Medicine
- Patricia Jean Zimmerman, Minneapolis, Occupational Therapy, WITH HIGH DISTINCTION

Master of Hospital Administration

- Donald Frank Andrews, B.S., Minneapolis
- J. Richard Arnzen, B.A., Westport, Mass.
- Paul Churchill Balcom, B.S., Pelham, N. H.
- George H. Cowen, Jr., B.S., Platteville, Colo.

*** These degrees are conferred subject to the satisfactory completion of practical work prior to December 19, 1957.

Lloyd Fraser Detwiller, B.A., M.A.,
Victoria, B.C., Canada
Roger Gran Dvorak, B.B.A., St. Paul
Bruce Elwood Fischer, B.S., Wahpeton,
N. D.
Robert Juan Fitzsimmons, B.S., Denver,
Colo.
Gerard William Frawley, B.A.,
Minneapolis
Herbert Lyle Fromm, B.S., Clear
Lake, S. D.
Alan Morse Gilbert, B.A., Lakewood,
Ohio
Elbert Edmund Gilbertson, Jr., B.A.,
Minneapolis
Andrew Allen Hain, B.B.A., Mound
Peter Robbins Haviland, B.A., Norwich,
Vt.
John Richard Jefferies, B.S., Salt Lake
City, Utah
Robert Louis Jepsen, B.S., Seattle,
Wash.
Edward Randall Lynn, B.S., West-
chester, Ill.
William Howard Maloy, B.S., Syracuse,
N. Y.
Robert George Michaels, B.S., Minneapolis
Clarence Willard Palmateer, Jr., B.S.,
Seaside, Ore.
Mark Hopkins Tibbetts, B.A., Duluth
Harold Vincent Weed, B.A., Stratford,
Iowa
Frederick R. Wolf, B.S., St. Paul
Donald F. Zuercher, B.S., Fort
Wayne, Ind.

Master of Public Health

Ernest Arthur Ager, B.S., M.B., M.D.,
Minneapolis
James Edward Akers, B.S., Macon,
Mo.
Ivan Ray Baker, B.S., Greenville, Ohio
Rosalina D. Belmonte-San Juan,
M.D., C.P.H., Manila, Philippines
Thomas Payne Blair, B.S., Portland,
Ore.
Irma Aurelia Block, B.S., Bismarck,
N. D.
Satya Ranjon Chatterji, M.B., B.S.,
Patna Bihar, India
Kathleen Margaret Cirese, B.S., Berkeley,
Calif.
Betty Cohen, B.S., Youngstown, Ohio
Warren Edward Eldridge, B.S.,
Seattle, Wash.
Elisea Mangasi Fabia, C.P.N., B.N.,
Quezon City, Philippines
Ann Dycr Farrell, B.S., Bakersfield,
Calif.
Sidney Finkelstein, B.S., Bemidji
Warren Hartley Gullen, B.A., B.S.,
M.D., Minneapolis
Sang Tae Han, M.D., Seoul, Korea
Elsayed Hamdan Hassan, M.B.,
B.C.H., Cairo, Egypt
Harold Robert Irvin, B.A., Omaha,
Neb.
Ralph Andrew Jackson, B.S., Topeka,
Kan.
Betty Henrietta Krippene, B.S., Oshkosh,
Wis.
Arthur Leo Lewis, D.V.M., Jacksonville,
Fla.
Julia Ilene Martin, B.S., Pasadena,
Calif.
Mauricio Martins da Silva, M.D.,
Minneapolis
Esther Jane McNeil, B.S., Sigel, Pa.
Donald Edward Olson, B.S., Ralston,
Neb.
Otmar O. Olson, B.S., Williston,
N. D.
Freda Katherine Parks, B.S., G.N.,
Kansas City, Mo.
Genevieve Rose Potochnik, B.S., Milwaukee,
Wis.
George Edward Prime, B.A., Rock
Port, Mo.
Dulce T. Quebral-Geaga, M.D.,
C.P.H., Quezon City, Philippines
Seth Thomas Reese, Jr., B.S., College
Park, Md.
Patrocinio Pabello Reynoso, M.D.,
Lucena, Quezon, Philippines
John Raymond Snyder, B.S., D.D.S.,
Minneapolis

Lillie Mae Steadman, B.S., Cleveland,
Ohio
Gunnar Eugene Sydow, B.A., D.D.S.,
Dell Rapids, S. D.
Maria Silvana Teixeira, B.S.,
Sao Paulo, Brazil

Elwood Edward Wedman, D.V.M.,
St. Paul
Elmer Clyde Willoughby, B.S.,
Omaha, Neb.
Evelyn Jane Witte, B.S., Milwaukee,
Wis.

Doctor of Medicine

Allen Merle Anderson, B.S., Elk River
Daniel Clarence Anderson, B.A., Elk
River
William W. Baak, B.A., Minneapolis
Jerome Menuhim Bach, B.S., St. Paul
Lucy June Balian, B.A., B.S., M.A.,
St. Paul
George Bucher Bauder, B.A., Minne-
apolis
John Harkness Beggs, B.S., Pequot
Lakes
Paul Garnett Belau, B.S., Blue Earth
Avi Ben-Or, B.A., B.S., Minneapolis
LaVonne B. Bergstrom, B.A., B.S.,
Wadena
John Alexander Berman, B.A., Sacra-
mento, Calif.
George Conley Bingham, B.S.,
Rochester
William Edward Bradley, B.S.,
Minneapolis
Paul E. Brenk, B.S., Frazee
Bancroft Morgan Brooks, B.A., B.S.,
St. Paul
Charles Talcott Brown, B.A., B.S.,
Luverne
Frank Thomas Brown, B.A., B.S.,
Madison Lake
John J. Casey, B.A., Wahpeton, N. D.
George Robert Chapman, B.S., M.A.,
Royalton
Leland Roger Christenson, B.A., Mar-
shall
George Michael Crow, B.A., South
Bend, Ind.
Richard Donald Cunningham, B.S.,
Rochester
Walter John Dawson, Jr., B.S.,
M.H.A., Bedford, Ohio
James Patrick Dudley, B.S., St. Paul
John Craig Edgerton, B.A., St. Paul

S. Paul Ehrlich, Jr., B.A., B.S., Minne-
apolis
E. Duane Engstrom, B.A., Alexandria
Joseph Huntimer Eusterman, B.A.,
Rochester
Leland L. Fairbanks, B.A., B.S.,
Minneapolis
Peter Eilert Fehr, B.A., East Grand
Forks
Robert Russell Foley, B.A., St. Cloud
Joseph Geller, Minneapolis
John Sanford Gletne, B.A., B.S.,
Minneapolis
M. Melvin Goldfine, B.A., Duluth
Alan Lawrence Goldstein, B.A.,
St. Paul
Thomas Henry Gonor, B.A., B.S.,
Minneapolis
Gary Daniel Good, B.S., Minneapolis
Asa Briggs Graham, B.A., M.S.,
St. Paul
David George Haney, B.A., Minne-
apolis
Donald S. Harder, B.S., Mountain
Lake
Jerome Leo Harty, B.A., B.S., Minne-
apolis
Carl Blixseth Heggstad, B.A.,
Windom
Robert Tolan Hilker, B.A., St. Paul
Norman Mather Horns, B.S., Minne-
apolis
Vincent Wordsworth Hoversten, B.A.,
Marshall
George Edward Jackish, B.A., B.S.,
Minneapolis
Dwight E. Jaeger, B.S., Darfur
Frederick William Jensen, Jr., B.A.,
Duluth
Paul Alan Jensen, B.A., Arlington,
S. D.
Doris I. Johnson, B.A., Minneapolis

Wendell August Johnson, B.A., Mankato
 Harold Wrenn Keairnes, A.A., B.A., Minneapolis
 Michael John Kozak, Minneapolis
 Gerald Kent Kvistberg, B.A., B.S., Minneapolis
 Ronald Rudolph Kyllonen, B.A., Duluth
 Dean Weston Larson, B.A., Osakis
 Moses Lichtig, B.S., St. Paul
 William Lloyd Lifson, B.S., Minneapolis
 Dale David Lindholm, B.A., Duluth
 Richard Roy Lund, B.A., Minneapolis
 Richard Patrick Lynch, B.S., St. Paul
 Fred Alexander Lyon, B.A., Minneapolis
 Merle Stanley Mark, B.A., B.S., Minneapolis
 Roland Willatz Matson, B.A., B.S., Nashwauk
 Arthur Merritt McGuire, B.S., B.A., Minneapolis
 James Lee Michie, B.A., B.S., Hibbing
 Joseph Paul Mlinar, B.A., Spring Valley
 Jerome Herbert Modell, B.A., St. Paul
 Walter Wyatt Moe, B.A., Minneapolis
 Gene Carleton Muchow, B.A., Minneapolis
 John Edward Mulvahill, B.A., Minneapolis
 Jack Albert Naros, B.A., Hibbing
 Som Nath Nayyar, Ph.D., Minneapolis
 Andrew Adolf Nielsen, B.A., Minneapolis
 John Anton Nilsen, B.A., Rothsay
 Robert Joseph Olson, B.S., Carpio, N. D.
 Richard Henry Opheim, B.A., B.S., Minneapolis
 Martin Walter Orbuch, B.A., St. Paul
 Ausma Velta Oss, B.A., M.T., Limbabi, Latvia
 Charles Allan Peterson, B.A., Virginia
 John Alfred Peterson, B.S., Monterey
 Paul H. Pobor, B.A., Los Angeles, Calif.
 John William Pollard, B.A., B.S., Minneapolis
 Curtis C. Reemsnyder, A.A., B.S., Rochester
 Charles Albert Roach, B.A., B.S., Austin
 James Parker Robinson, B.A., B.S., Minneapolis
 Arthur James Rushay, B.A., Minneapolis
 John S. Rydberg, B.A., Bovey
 Jerome Henry Sacks, B.A. *summa cum laude*, Minneapolis
 Norman Joseph Sacks, B.A., St. Paul
 Keith Duddley Sayther, B.A., Mound
 Jerome John Scherek, B.S., St. Paul
 George John Schroepfer, Jr., B.S., Minneapolis
 Stanley William Shapiro, B.A., Minneapolis
 John Ronald Shefveland, B.A., Rochester
 Donald Albert Shumrick, B.S., M.S., Newark, N. J.
 Henry Nippert Smith, B.A., B.S., St. Paul
 Stanley Carol Sollie, B.A., Fertile
 Anton Francis Spraitz, Jr., St. Paul
 Lennart Elmer Suther, B.S., Minneapolis
 Edwin John Tanquist, Jr., B.S., B.A., Alexandria
 Wayne William Thompson, B.S., Forest Lake
 Florence Amalia Toussaint, B.A., Fulda
 Romil Valgema, Minneapolis
 Frank W. Van De Water, B.A., St. Paul
 Paul Samuel Van Puffelen, B.S., Howard Lake
 Ralph Frederick Wells, B.S., Minneapolis
 Robert Wayne Wilken, B.A., Fairmont
 Joseph Orville Young, B.S., Duluth
 Solomon Joseph Zak, B.A., Minneapolis

GRADUATE SCHOOL

Master of Arts

Virginia Johnson Anderson, St. Paul
B.S. with honors '43, Winona State Teachers College. Field of Concentration: Curriculum and Instruction.

Bruce Arthur Aune, Minneapolis
B.A. *magna cum laude* '55, University of Minnesota. Major: Philosophy. Minor: English. Thesis: The Cognitive Content of Literary Art.

Bertram Barer, Laurelton, N.Y.
B.S. *cum laude* '51, Syracuse University. Major: Speech. Minor: English. Thesis: Paddy Chayefsky's Concept of Realism as Exemplified in Six of His Television Plays.

George Linwood Barney, St. Paul
B.A. '46, Taylor University. Major: Anthropology. Minor: Linguistics. Thesis: Christianity: Innovation in Meo Culture—A Case Study in Missionization.

Rex Thaddeus Beach, Stillwater
B.A. '48, B.S. '49, University of Minnesota. Field of Concentration: Educational Psychology.

Grace Virginia Benz, St. Paul
B.S. with distinction '29, University of Minnesota. Field of Concentration: Education.

Mary Lou Biddlestone, McKeesport, Pa.
B.S. '50, Slippery Rock State Teachers College. Field of Concentration: Physical Education.

Mary Ann Bieter, St. Paul
B.A. '52, College of St. Catherine. Major: Art. Minor: French. Thesis: The Drawings of Pontormo and Rosso in the United States.

Kathryn Santa Blackwell, Minneapolis
B.S. '45, B.A. '56, University of Minnesota. Field of Concentration: Library Science.

L. Roger Boerger, St. Cloud
B.A. '49, B.S. '50, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Theodore Earl Brandt, Rosemount
B.S. '41, River Falls State Teachers College. Field of Concentration: Educational Administration.

James Howard Bridges, Minneapolis
B.A. '53, University of Minnesota. Field of Concentration: Psychology.

Philip Norman Brown, Mandan, N.D.
B.A. '53, University of Minnesota. Field of Concentration: Speech.

Donald Frederick Buch, Superior, Wis.
B.S. '49, Wisconsin State College. Field of Concentration: Industrial Relations.

Thomas Ripley Buran, Minneapolis
B.S. '53, University of Minnesota. Field of Concentration: Educational Psychology.

Cornelius Baird Canon, Truman
B.S. '55, Mankato State Teachers College. Field of Concentration: Music.

Austin Baldwin Caswell, Jr., St. Paul
B.A. '53, Amherst College. Field of Concentration: Music.

Audrae Beth Clarke, Anoka
B.S. '53, St. Cloud State Teachers College. Field of Concentration: Child Welfare.

Roger Vincent Crary, Minneapolis
B.S. with distinction '54, University of Minnesota. Field of Concentration: Music.

Donald Gene Davenport, Topeka, Kan.
B.A. '53, Baker University. Field of Concentration: Psychology.

Henry Drewes, Floodwood
B.A. '39, Mayville State Teachers College. Field of Concentration: Educational Administration.

Danuta Ehrlich, New York, N.Y.
B.A. '53, Queens College. Major: Psychology. Minor: Statistics. Thesis: Expressed Confidence Level, Uncertainty about Subsequent Information and "Intolerance of Ambiguity."

Joseph T. Evans, Duluth
B.A. '48, University of Minnesota. Field of Concentration: Curriculum and Instruction.

James John Figge, Pipestone

B.E. '35, St. Cloud State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Gordon Flattum, Minneapolis

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

Daniel James Fleischhacker, St. Paul

B.A. '53, B.S. '56, University of Minnesota.
Field of Concentration: Speech.

Robert Dana Foulke, Deephaven

B.A. *magna cum laude* '52, Princeton Univer-
sity. Field of Concentration: English.

Rita Vivian Frankiel, Riverdale, N.Y.

B.A. *magna cum laude* '54, Syracuse University.
Major: Child Welfare. Minor: Psychology.
Thesis: A Quality Scale for the Goodenough
Draw-a-Man Test.

James Russell Frawley, Jr., Minne-
apolis

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

Eric Freidus, Minneapolis

B.A. '52, Cornell University. Field of Concen-
tration: Educational Psychology.

Alex Gene Fremling, Brainerd

B.A. *cum laude* '53, Carleton College. Field of
Concentration: Political Science.

Russell Lee Gerber, Fulda

B.S. '50, The Stout Institute. Field of Con-
centration: Industrial Education.

Harriet F. Goldfine, Duluth

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

Sheldon Goldstein, St. Paul

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

Philip Bruce Gough, St. Cloud

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

Dottelle Van Rossum Hagens, Ft.
Benning, Ga.

B.A. '42, Michigan State College. Field of
Concentration: Educational Psychology.

Maurice Jesse Hale, Portsmouth, Va.

B.S. '50, Hampton Institute. Field of Concen-
tration: Industrial Education.

Harold Sherman Harris, Glen Burnie,
Md.

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

Ann Marilyn Henrikson, Teaneck, N.J.

B.A. '52, Mount Holyoke College. Field of
Concentration: Botany.

Per Holting, Randers, Denmark

B.A. '56, University of Western Ontario.
Major: Journalism. Minor: Psychology. Thesis:
An Investigation of the Influence of Sponsors
on the Content of Local T.V. News Shows of
118 T.V. Stations in the United States and
Canada.

Edward Mant Hood, Jr., Ft. Walton
Beach, Fla.

B.A. *magna cum laude* '56, Washington and
Lee University. Field of Concentration: Eng-
lish.

John Michael Hyde, New Castle, Del.

B.A. *magna cum laude* '56, Williams College.
Major: History. Minor: Political Science.
Thesis: Marshal Petain—Guardian of the Re-
public.

Lynne Iglitzin, Minneapolis

B.A. *cum laude* '53, Barnard College. Field of
Concentration: Political Science:

John Quinn Imholte, St. Paul

B.A. '52, Washington and Lee University.
Field of Concentration: History.

Maria Cornelia Janssen, Rotterdam,
Holland

Graduate '51, University of Amsterdam. Major:
Child Welfare. Minor: Psychology. Thesis:
Visual-Haptic Orientation in Children's Draw-
ings.

Arthur Lennart Kalleberg, Minne-
apolis

B.A. *cum laude* '52, University of Minnesota.
Field of Concentration: Political Science.

John Drenan Kelley, Belmont, Mass.

B.A. *magna cum laude* '50, Harvard University.
Major: Sociology. Minor: Anthropology. Thesis:
Effects of Background and Experience on
Knowledge and Attitudes of Youth Concern-
ing American Business Structure: A Cross-
sectional and Longitudinal Study of 687 Min-
nesota Youths as High School Seniors and
Three Years Later.

Arturs Klavins, St. Paul

B.A. '55, University of Minnesota. Field of Concentration: Area Studies: Russia.

Lothar Karl Klein, Minneapolis

B.A. '54, University of Minnesota. Major: Music. Minor: German. Thesis: Concerto for Winds, Timpani, and Strings.

Marcia Nannette Koth, Minneapolis

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

Edith Kromer, Olivia

B.A. *magna cum laude* '53, Hamline University. Field of Concentration: Library Science.

Willis George Kunze, St. Paul

B.A. '37, Macalester College. Field of Concentration: Physical Education.

Garth Everett Lappin, Anoka

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

Richard Allen Lebrun, Langdon, N.D.

B.A. '53, St. John's University. Field of Concentration: History.

Beverly Mason Lillquist, Minneapolis

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

John Albert Lindberg, Jr., Brooklyn, N.Y.

B.S. '54, Wagner College. Major: Mathematics. Minor: Physics. Thesis: On Composite Field Extensions and Separable Field Extensions.

Charles William Loufek, Jr., Minneapolis

B.S. '48, Massachusetts Institute of Technology. Field of Concentration: Business Administration.

Milford Burton Lytle, Jr., Minneapolis

B.A. *cum laude* '50, M.S.W. '51, University of Minnesota. Field of Concentration: Psychology.

James Earl Marcell, Minneapolis

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

Marlys May Marshall, Minneapolis

B.A. *magna cum laude* '54, Luther College. Field of Concentration: English.

Helen Martens, Winnipeg, Manitoba, Canada

B.A. *cum laude* '55, University of Minnesota. Field of Concentration: Music.

John Reynolds McAllister, Duluth

B.S. '53, University of Minnesota. Field of Concentration: Educational Psychology.

Donald James McDonell, Duluth

B.A. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Judith Hobson McDowell, Chicago, Ill.

B.A. '53, University of Oregon. Field of Concentration: English.

Verna Vognild Melum, Dawson

B.A. '30, St. Olaf College; B.S. '36, University of Minnesota. Field of Concentration: Library Science.

Elizabeth Kubota Miller, Tokyo, Japan

B.A. '54, Wheaton College. Field of Concentration: Library Science.

Roy Charles Okan, Minneapolis

B.S. '50, St. Cloud State Teachers College. Field of Concentration: Educational Psychology.

Raymond Milton Olstad, Minneapolis

B.S. '55, Northern States Teachers College. Field of Concentration: History and Philosophy of Education.

Lawrence Andrew Pearson, Grove City

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

Barbara Kristine Peterson, Farmington

B.A. *magna cum laude* '56, Dana College. Field of Concentration: Library Science.

J. Douglas Peterson, Westbrook

B.A. '54, University of Minnesota. Field of Concentration: Industrial Relations.

Philip Peter Petrou, Minneapolis

B.A. '50, Carleton College. Field of Concentration: Political Science.

Charles Singleton Poston, Jr., Edina

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

Harlen Dean Rese, Moorhead

B.S. *magna cum laude* '52, University of North Dakota. Field of Concentration: Psychology.

Daniel Edgar Rider, Haines Falls,
N.Y.

B.A. *cum laude* '49, New York State College for Teachers. Field of Concentration: American Studies.

Felix A. Roux, Nice, France

Graduate '53, Institut d'Etudes Littéraires; Graduate '54, de l'Université d'Aix-Marseille. Major: French. Minor: English. Thesis: L'Oeuvre Romanesque de Thyde Monnier.

Manindra Nath Roy, Calcutta, India

B.Sc. '40, Lucknow University; Graduate '50, London Institute of Mechanical Engineers. Field of Concentration: Industrial Education.

Mary Louise Saul, Minneapolis

B.S. with distinction '55, University of Minnesota. Field of Concentration: Education.

Robert Joseph Scheuer, Stillwater

B.A. '52, St. John's University. Field of Concentration: Educational Psychology.

Jeanette Leone Schley, Dunnell

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

George L. Shapiro, Sioux Falls, S.D.

B.S. '53, University of Wisconsin. Field of Concentration: Speech.

Mary Jon Johnson Sheldon, Oklahoma
City, Okla.

B.S. '47, University of Oklahoma. Field of Concentration: Educational Psychology.

Haya Spiegel, Tel Aviv, Israel

B.S. '54, Columbia University. Field of Concentration: Educational Psychology.

Richard Ryle Stephenson, Minne-
apolis

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

Charles Emil Stortroen, Fergus Falls

B.A. '50, Luther College. Major: Anthropology. Minor: Sociology. Thesis: The Bryan Site: A Prehistoric Village in Southern Minnesota.

Dean Nathan Torgeson, Minneapolis

B.A. '47, St. Olaf College; M.S. '50, State University of Iowa. Field of Concentration: Business Administration.

Dale Elthon Varberg, Minneapolis

B.A. *magna cum laude* '54, University of Minnesota. Field of Concentration: Mathematics.

Eugene Richard Vikingson, Minne-
apolis

B.A. *magna cum laude* '54, University of Minnesota. Major: International Relations. Thesis: Sources of Authority in International Air Transport.

Anna Dale Volkin, St. Paul

B.A. '46, Marshall College. Field of Concentration: Curriculum and Instruction.

Kenneth Lee Walsh, Minneapolis

B.A. '48, Augsburg College. Field of Concentration: Education.

Chia-ling Wang, China

B.A. '55, National Taiwan University. Field of Concentration: Library Science.

Rae Elaine Wilbur, Minneapolis

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

Juanita Grace Williams, Duluth

B.S. '29, B.M. '33, Fort Hays Kansas State College; B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

John William Workman, Jr., Bloom-
ington

B.A. '49, Drake University; B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Master of Business Administration

Anker Valdemar Andersen, Minne-
apolis

B.B.A. with distinction '55, University of Minnesota. Field of Concentration: Business Administration.

Edward Paul Clark, St. Paul

B.B.A. '53, University of Minnesota. Field of Concentration: Business Administration.

David Kent Halstead, Aberdeen, S.D.
B.S. in M.E. '53, Northwestern Technological
Institute. Field of Concentration: Economics.

Walter Edgar Meadley, Jr., Minne-
apolis
B.A. '53, University of Minnesota. Field of
Concentration: Business Administration.

Systla Bhaskara Rao, Ambaji Peta,
Andhra Pradesh, India
B.Com. '52, Andhra University. Field of Con-
centration: Business Administration.

Udham Singh, Prag Pur, Jullundur,
Punjab, India
B.A. '50, Doaba College; M.A. '55, University
of Minnesota. Field of Concentration: Business
Administration.

Robert Vanatta Willhite, St. Paul
B.S.C. '51, State University of Iowa. Field of
Concentration: Business Administration.

Master of Fine Arts

Arthur Howard Hansen, Seattle,
Wash.
B.A. '52, University of Washington. Major:
Art. Minor: Philosophy. Thesis: The Woodcut
and Die Brücke.

Léone Shirley Lewensohn, Minne-
apolis
B.A. '53, University of Minnesota. Major: Art.
Minor: Classics. Thesis: Modes of Composi-
tion in Metopes, Friezes, and Pediments from
the Seventh Century to 435 B.C.

Master of Science

Ruth Elnor Abrahamson, Canton
B.S. with distinction '54, University of Minne-
sota. Field of Concentration: Home Economics
Education.

J. Bradley Aust, Jr., Minneapolis
M.D. '49, University of Buffalo. Major: Physi-
ology. Minor: Surgery. Thesis: Studies on
Tumor Homograft Tolerance in Inbred Strains
of Mice.

Thomas Lee Avery, Martin, Tenn.
B.S. '56, University of Tennessee. Field of
Concentration: Dairy Husbandry.

Robert Hellmuth Barton, Canton,
N.Y.
B.A. '53, Brooklyn College. Major: Geology.
Minor: Aeronautical Engineering. Thesis: Peri-
glacial Features in the Lake City Area, South-
eastern Minnesota.

Charles Relling Bolmgren, Minne-
apolis
B.S. with distinction '54, University of Minne-
sota. Major: Physics. Minor: Mathematics.
Thesis: Differential Cross Section Measure-
ments for the Elastic Scattering of Protons
by N¹⁴.

Earl Howard Brown, Montevideo
B.S. with distinction '56, University of Minne-
sota. Field of Concentration: Agricultural Eco-
nomics.

James Richard Brownell, Jeannette,
Pa.
B.S. '54, Pennsylvania State University. Major:
Soils. Minor: Agronomy. Thesis: The Effect
of Rate, Ratio and Time of Fertilizer Appli-
cation on the Yield and Longevity of Alfalfa
and on the Chemical and Moisture Status of
the Soil.

Chai Moo Cho, Suwon, Korea
B.S. '53, Seoul National University. Major:
Soils. Minor: Agricultural Biochemistry. Thesis:
Available Phosphorus and Forms of Phosphorus
in Several Soils of Minnesota.

Lyle Merle Christenson, Black River
Falls, Wis.
B.S. '48, University of Minnesota. Major: Fish-
ery and Wildlife Management. Minor: Botany.
Thesis: Some Characteristics of the Fish Popu-
lations in Backwater Areas of the Upper Missis-
sippi River.

William Masashi Doizaki, Ft. Lupton, Colo.

B.S. with distinction '53, Purdue University. Major: Agricultural Biochemistry. Minor: Botany. Thesis: Acetylcholinesterase Studies in Relation to the Possible Etiology of Bloat.

Jen-Ho Fang, Tainan, Formosa

B.S. '54, National Taiwan University. Field of Concentration: Geology.

Marco Aurelio Flores, Guatemala, Guatemala

B.S. '52, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Biology and Control of Coffee Stem Canker Caused by *Nectria* Canker.

Frederick William Foss, Jr., Pontiac, Mich.

B.S. (Chem.) '55, University of Michigan. Field of Concentration: Inorganic Chemistry.

M. Melvin Goldfine, Duluth

B.A. '50, University of Minnesota. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: A Study of the Excretion of Urinary Pregnanediol in the Human.

Hervey Jacob Hauser, Monroe, Wis.

B.S. '48, University of Wisconsin. Field of Concentration: Agricultural Education.

Peter George Helmberger, Perham

B.S. with high distinction '55, University of Minnesota. Field of Concentration: Agricultural Economics.

Merlin Roy Jennings, Bayport

B.S. '47, Wisconsin State College. Field of Concentration: Agronomy.

Loyal Wilson Joos, St. Clair

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

James Albert Knox, Farmington, Me.

B.A. '55, Dartmouth College. Major: Geology. Minor: Mining and Petroleum Engineering. Thesis: Mineralogy of the Ambrosia Lake Uranium Deposits, McKinley County, New Mexico.

Roy Axel Larson, Cloquet

B.S. '53, University of Minnesota. Major: Horticulture. Minor: Plant Pathology. Thesis: A Study of the Adaptability of University of Minnesota Garden Chrysanthemums to Pot Plant Culture.

Ernest Arthur Ray Liscombe, St. Paul

B.S.A. '49, University of Manitoba. Major: Entomology. Minor: Plant Pathology. Thesis: The Determination and Evaluation of Losses Resulting from Milling Insect Infested Wheat.

Russell James Lorenz, Bismarck, N.D.

B.S. '52, North Dakota Agricultural College. Major: Agronomy. Minor: Plant Pathology. Thesis: Effect of Row Spacing and Nitrogen Fertilization on the Forage Yield and Nitrogen Content of Irrigated Russian Wildrye (*Elymus junceus* Fisch).

Robert Paul Marvin, Faribault

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

Mary Anne Morgan, Tallahassee, Fla.

B.A. '53, Oberlin College. Major: Organic Chemistry. Minor: Physiological Chemistry. Thesis: A Study of Menthone: Re-examination of the Bromination of Menthone and of the Reactions of Dibromomenthone.

Dorothy Nedrelew Ness, Minneapolis

B.S. in Med. Tech. '50, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: An Analysis of the Procedures Used in a Hospital Bacteriology Laboratory.

Elmer Reinhold Norberg, Grand Rapids

B.S. '51, Oregon State College. Major: Fishery and Wildlife Management. Minor: Botany. Thesis: White-Tailed Deer Movements and Foraging on the Cedar Creek Forest, Minnesota.

Neal Linton Person, Hector

B.S. with distinction '54, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Theory and Development of an Electromagnetically Excited Damping Machine.

Mary Elizabeth Pollock, Helena, Mont.

B.A. '41, Montana State University. Major: Bacteriology. Minor: Physiological Chemistry. Thesis: Comparative Studies of HeLa Cells Propagated in Horse Serum Media: Growth Patterns and Susceptibility to Polioviruses.

Raymond Charles Read, Minneapolis
M.A. '44, Cambridge University; M.D. '51,
University of Minnesota. Major: Physiology.
Minor: Surgery. Thesis: Circulatory Responses
to the Interruption and Re-establishment of
Blood Flow.

Robert Lee Roberson, Goldthwaite,
Tex.
B.S. '55, Texas Technological College. Field
of Concentration: Animal Husbandry.

Spencer Burt Schuldt, St. Paul
B.A. *magna cum laude* '51, University of Min-
nesota. Major: Physics. Minor: Mathematics.
Thesis: A Least Squares Analysis for the Opti-
cal Model Scattering Program.

Vinodkant Chunilal Shah, India
B.Sc. '52, M.Sc. '54, University of Baroda.
Field of Concentration: Zoology.

James Herbert Skala, St. Paul
B.S. '50, Beloit College. Field of Concen-
tration: Poultry Husbandry.

Mahmoud Taher, Cairo, Egypt
B.Sc. '40, University of Cairo. Major: En-
tomology. Minor: Organic Chemistry. Thesis:
The Effect of Sublethal Doses of DDT on the
Oviposition and Survival of the Confused Flour
Beetle *Tribolium confusum* Duv.

Ronald Earl Taven, Duluth
B.A. with high distinction '54, University of
Minnesota. Field of Concentration: Horticul-
ture.

Harry Lawrence Taylor, Fort William,
Ontario, Canada
B.S. '54, Michigan College of Mining and
Technology. Major: Geology. Minor: Geo-
physics. Thesis: Geology and Mineralogy of
Coldstream Copper Mines.

Judith R. Tennant, Miami, Fla.
B.A. '40, Ohio Wesleyan University. Major:
Bacteriology. Minor: Cancer Biology. Thesis:
Studies on Mouse Leukemia: The Lymphoid
Neoplasms of the C58 Inbred Mouse Strain.

Edgar Lewis Turcotte, Carlton
B.A. '51, University of Minnesota. Major:
Plant Genetics. Minor: Botany. Thesis: The
Use of Translocations in Analysing the In-
heritance of Brittle Rachis and Dehiscent Awns
in Barley.

Dale William Vogt, Collinsville, Ill.
B.S. '56, Southern Illinois University. Field of
Concentration: Dairy Husbandry.

Thomas Dean Wyllie, San Diego,
Calif.
B.A. '52, San Diego State College. Major:
Plant Pathology. Minor: Entomology. Thesis:
The Effect of Time, Temperature, Moisture
Content, and Molds on the Deterioration of
Wheat Seed in Storage.

Tuk Sik Yun, Seoul, Korea
B.S. '49, Ewha Women's University. Major:
Pharmaceutical Chemistry. Minor: Organic
Chemistry. Thesis: Paper Chromatographic
Studies on the Cardiac Glycosides.

Master of Science in Agricultural Engineering

Chul Choo Lee, Seoul, Korea
B.S. '54, Seoul National University. Major:
Agricultural Engineering. Minor: Mechanical
Engineering. Thesis: Design of a Rice Trans-
planter.

Louis Allen Liljedahl, Minneapolis
B.S. in Aero.E. '50, Iowa State College. Major:
Agricultural Engineering. Minor: Mathematics.
Thesis: Measurement of Spray Deposits by the
Use of Fluorescent Chemicals.

Master of Science in Chemical Engineering

Tae Hee Hahn, Inchon, Korea
B.S. '50, M.S. '53, Seoul National University.
Field of Concentration: Chemical Engineering.

Won Hee Park, Seoul, Korea
B.S. in Eng. '55, Seoul National University.
Field of Concentration: Chemical Engineering.

Woong Ki Kang, Seoul, Korea
B.S. '55, Seoul National University. Field of
Concentration: Chemical Engineering.

Master of Science in Civil Engineering

Marghoob Ahmed, Karachi, Pakistan
B.E. (Civil) '54, University of Karachi. Field of Concentration: Civil Engineering.

Wang-Shiong Chiang, Taipei, Formosa
B.S. in Eng. '55, National Taiwan University. Field of Concentration: Civil Engineering.

James Keith Elletson, St. Cloud
B.C.E. '55, University of Minnesota. Field of Concentration: Civil Engineering.

Hyder Ali Jinnah, Karachi, Pakistan
B.S. '48, M.S. '50, Sind University; B.S. in C.E. '53, University of Karachi. Field of Concentration: Civil Engineering.

Armand Stanford Johnson, Madison, Wis.
B.S. in C.E. '43, University of New Mexico. Major: Civil Engineering (Sanitary Engineering). Minor: Civil Engineering (Hydraulic Engineering). Thesis: An Analysis of Water Works Financial Data.

Ronald William Johnson, Minneapolis
B.S. with distinction '56, University of Minnesota. Field of Concentration: Civil Engineering.

Wei-Jen Lin, Taipei, Taiwan, China
B.S. '53, Taiwan College of Engineering. Field of Concentration: Civil Engineering.

Marlin Ray Lindquist, Willmar
B.S. with distinction '56, University of Minnesota. Field of Concentration: Civil Engineering.

Ricardo Andres Nitrosso, Montevideo, Uruguay
C.E. '53, University of Uruguay. Field of Concentration: Civil Engineering.

Paul Allen Seaburg, St. Paul
B.S. with high distinction '56, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: An Experimental and Analytical Analysis of a Horizontal Space Frame.

Charles Thomas Vasilius, St. Paul
B.C.E. '51, Marquette University. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

George Christopher Lawther, St. Paul
D.D.S. '50, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Relationships of Periodontal Instruments to Soft Tissues of Periodontal Pockets.

Donald Henry Nelson, Minneapolis
B.S. '52, D.D.S. '52, University of Minnesota. Major: Dentistry. Minor: Physiology. Thesis: Effects of Postural Change on the Electromyographic Activity of the Temporal and Suprahyoid Musculature during Elevation and Depression of the Mandible.

Angus Ronald Stoesz, Minneapolis
B.S. '55, D.D.S. '55, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: 9 α -Fluorocortisol and Cortisol in Relation to Mitosis in Immature Mouse Liver.

Master of Science in Dermatology and Syphilology

Jack Eugene McCleary, San Francisco, Calif.
M.D. '51, Stanford University. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: Xanthomata Associated with Hyperlipemia in Children; Classification, Treatment, and Prognosis.

William B. Reed, Washington, D.C.
B.S. '48, Pennsylvania State College; M.D. '52, Columbia University. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: Vascular Studies on Chronically Inflamed Skin.

Master of Science in Electrical Engineering

Norman John Braaten, Minneapolis
B.E.E. '48, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Design of a Suppressed-Carrier Modulator for Feedback Control Systems.

Kun Chan Cho, Seoul, Korea
B.S. in Eng. '51, M.S. in Eng. '54, Seoul National University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Analytical and Mechanical Methods for Solving A-C Power System Transient Stability Problem.

Dale Roy Palmer, Alexandria
B.S. with high distinction '54, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Deactivation of Oxide Coated Cathodes Resulting from Electron Bombardment of the Anode.

Master of Science in Industrial Engineering

Richard Hunter MacLeod, Minneapolis
B.S. with distinction '56, University of Minnesota. Field of Concentration: Industrial Engineering.

Master of Science in Mechanical Engineering

James Roger Latick, Chisholm
B.S. with distinction '55, University of Minnesota. Field of Concentration: Mechanical Engineering.

Frank A. Massey, Jr., St. Paul
B.B.A. with distinction '55, B.I.E. with distinction '55, University of Minnesota. Field of Concentration: Mechanical Engineering.

William Edward Welsh, Minneapolis
B.S. with distinction '55, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Investigation of the Velocity Distribution in Air Flow Between Two Concentric Rotating Disks.

Master of Science in Medicine

Homer Richard Goehrs, Rochester
M.D. '50, Baylor University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Heart Lesions in Rheumatoid Arthritis.

William Joseph Johnson, Woodstock, Conn.
B.S. '48, Wheaton College; M.D. '52, Yale University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Unrecognized Myocardial Infarction.

John Roland Keys, Dayton, Ohio
M.D. '50, University of Cincinnati. Major: Medicine. Minor: Physiology. Thesis: Indicator Dilution Curves at the Left Atrium and Radial Artery in Man with Particular Reference to the Effects of Valvular Heart Disease.

John Joseph Massarelli, Jr., Rochester
M.D. '50, Georgetown University. Major: Medicine. Minor: Pathology. Thesis: The Liver in Systemic Lupus Erythematosus.

John Warren McKay, Wichita, Kan.
B.A. '46, M.D. '50, University of Kansas. Major: Medicine. Minor: Pathology. Thesis: Infarcts of the Pancreas: An Analysis of Forty-one Cases.

George William Morrow, Jr., Kankakee, Ill.
B.A. '48, M.D. '52, University of Illinois. Major: Medicine. Minor: Hematology. Thesis: The Clinical, Hematological and Pathological Features of the Terminal Phase of Chronic Myelogenous Leukemia.

Everett Newton Rottenberg, Detroit, Mich.

B.A. '48, M.D. '52, University of Michigan. Major: Medicine. Minor: Pathologic Anatomy. Thesis: The Heart in Progressive Systemic Sclerosis: A Clinical Pathologic Study.

John William Soshea, Chicago, Ill.

B.S. '45, Purdue University; M.D. '49, Northwestern University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: The Influence of Corticotropin on Cortisone-Induced Adrenal Cortical Atrophy.

Master of Science in Metallurgical Engineering

Thomas Aldon Kilburn, Bellevue, Wash.

B.S. in Ch.E. '49, Gonzaga University. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Studies on Residual Stresses Caused by Carburizing Heat Treatments.

Master of Science in Neurosurgery

Raymond Rattray Strang, Sydney, Australia

M.D. '51, University of Sydney. Major: Neurosurgery. Minor: Neuropathology. Thesis: The Effects of Stellate Ganglionectomy on Experimentally Induced Cerebral Infarctions in Dogs.

Master of Science in Ophthalmology

Raymond LeRoy Erickson, St. Paul

B.A. *cum laude* '38, Pacific University; M.D. '44, University of Oregon. Major: Ophthalmology. Minor: Anatomy. Thesis: The Refractive State of the Eye After Cataract Extraction: A Statistical Study Including An Evaluation of Two Techniques of Wound Closure.

Master of Science in Psychiatry

Shervert Hughes Frazier, Rochester

B.S. '41, M.D. '43, University of Illinois. Major: Psychiatry. Minor: Basic Neurologic Sciences. Thesis: Normal Depth Electroencephalograms in Cats.

E. Jane Watson, Rochester

B.A. '45, Duke University; M.D. '49, University of Michigan. Major: Psychiatry. Minor: Basic Neurologic Sciences. Thesis: The Emotional Significance of Acquired Physical Disfigurement in Children.

David Bancroft Robinson, Rochester

B.S. '44, Pennsylvania State College; M.D. '49, University of Pennsylvania. Major: Psychiatry. Minor: Basic Neurologic Sciences. Thesis: Evaluation of Certain Drugs in Geriatric Patients: Effects of Chlorpromazine, Reserpine, Pentamethylenetetrazol and Placebo in 84 Female Geriatric Patients in a State Hospital.

Master of Science in Radiology

Robert William Petersen, Denver,
Colo.

B.A. '43, Dartmouth College; M.D. '49, University of Colorado. Major: Radiology. Minor: Surgical Pathology. Thesis: Radiation Dosage to the Thyroid Gland in Patients with Diffuse Toxic Goiter Treated with Radioiodine.

George Elwood Plum, Tunnelton,
W.Va.

M.D. '51, Harvard University. Major: Radiology. Minor: Surgical Pathology. Thesis: Roentgenologic Aspects of Benign Chondroblastoma of Bone.

Master of Science in Surgery

Robert Aaron Collins, Jr., Americus,
Ga.

M.D. '48, University of Georgia. Major: Surgery. Minor: Surgical Pathology. Thesis: Comedomastitis.

Frank Gaffney Gatchell, Guthrie,
Okla.

M.D. '48, University of Oklahoma. Major: Surgery. Minor: Surgical Pathology. Thesis: Intracystic Carcinoma of the Breast: A Clinicopathologic Study of Forty-eight Cases.

George Francis Pratt, Rhinelander,
Wis.

M.D. '48, Harvard University. Major: Surgery. Minor: Surgical Pathology. Thesis: Tumors of the Scapula and Clavicle.

Melvin Mitchell Reeves, Brainerd

B.S. '44, Hamline University; M.D. '47, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Total Body Cooling in Critically Ill Febrile Patients.

Meredith Parks Smith, Rochester

B.S. '45, St. Lawrence University; M.D. '49, University of Maryland. Major: Surgery. Minor: Surgical Pathology. Thesis: Adrenocortical Tumors with Special Reference to the Criteria for Malignancy.

Master of Science in Urology

David Charles Utz, Rochester

M.D. '50, St. Louis University. Major: Urology. Minor: Surgical Pathology. Thesis: Squamous Cell Carcinoma of the Kidney.

Master of Social Work

May Elizabeth Anfang, St. Mary's
Point

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

James Theodore Bjornson, Minne-
apolis

B.A. '53, University of Minnesota. Field of Concentration: Social Work.

Eldon Julian Bjornstad, Detroit Lakes

B.S. '49, Moorhead State Teachers College. Field of Concentration: Social Work.

James Howard Bridges, Minneapolis

B.A. '53, University of Minnesota. Field of Concentration: Social Work.

Alice Louise Bronk, St. Paul

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

John Anthony Caticchio, Minneapolis

B.A. '50, College of St. Thomas. Field of Concentration: Social Work.

- Lawrence Merlin DeBilzan, Bismarck, N.D.
B.A. '51, University of South Dakota. Field of Concentration: Social Work.
- Anita Bernadine Ergang, Milwaukee, Wis.
B.A. '49, University of Wisconsin. Field of Concentration: Social Work.
- Meryl Audrey Gilman, Hopkins
B.A. '52, University of Minnesota. Field of Concentration: Social Work.
- Sang Nak Ha, Seoul, Korea
B.A. '42, Chuo University. Field of Concentration: Social Work.
- Philip Carrol Hovda, Minneapolis
B.A. '54, Bethel College. Field of Concentration: Social Work.
- Gordon E. Jereczek, St. Paul
B.B.A. '54, University of Minnesota. Field of Concentration: Social Work.
- Merle Wendell Johnson, Minneapolis
B.A. '55, Hamline University. Field of Concentration: Social Work.
- Hak Mook Kim, Seoul, Korea
B.A. '38, Korea University. Field of Concentration: Social Work.
- Kenneth Ernst Krause, St. Paul
B.A. '53, Hamline University. Field of Concentration: Social Work.
- Curtis Harvey Krishef, Minneapolis
B.A. '49, University of Minnesota. Field of Concentration: Social Work.
- Richard James Kunz, White Bear Lake
B.A. '53, Hamline University. Field of Concentration: Social Work.
- Robert Milton Lageson, Minneapolis
B.A. '51, Concordia College. Field of Concentration: Social Work.
- Harriett Adelaide Lane, Minneapolis
B.A. '46, University of Minnesota. Field of Concentration: Social Work.
- Wayne LeRoy Larson, Garretson, S.D.
B.A. '49, Augustana College. Field of Concentration: Social Work.
- Kenneth Edward Lunzer, St. Paul
B.A. '55, College of St. Thomas. Field of Concentration: Social Work.
- Larry Nobuo Matsuura, Minneapolis
B.A. '54, Gustavus Adolphus College. Field of Concentration: Social Work.
- Joyce Elaine Mickelsen, Longville
B.A. '54, Concordia College. Field of Concentration: Social Work.
- Joyce Elaine Peltzer, St. Paul
B.A. '54, Macalester College. Field of Concentration: Social Work.
- Stewart Fredrick Rosoff, Minneapolis
B.A. '55, University of Minnesota. Field of Concentration: Social Work.
- Minna Gerber Shapiro, St. Paul
B.A. *cum laude* '53, University of Minnesota. Field of Concentration: Social Work.
- Nancy Charlotte Tenenbaum, Golden Valley
B.A. '55, University of Minnesota. Field of Concentration: Social Work.
- Dallas Clark Voran, Belmont, Kan.
B.A. '43, Bethel College. Field of Concentration: Social Work.
- John William Winkelman, Minneapolis
B.A. '53, University of Minnesota. Field of Concentration: Social Work.

Specialist in Education

Ernest Milo Thomsen, White Bear Lake

B.E. '38, Mankato State Teachers College;
M.A. '49, University of Minnesota. Field of Concentration: Educational Administration.

Doctor of Philosophy

Irvamae Vincent Applegate, Princeton
B.S. '41, North Dakota Agricultural College;
M.A. '52, University of Minnesota. Major:
Education. Minor: Educational Psychology.
Thesis: A Survey of Selected Inservice Practices
in Minnesota Public Schools with Implications
for the Organization of Inservice Education
Activities. Major Adviser: Prof. N. L. Bossing.

Eleanor Berman, Duluth

B.S. with honors '42, Superior State Teachers
College; M.S. '50, University of Minnesota.
Major: Pharmacology. Minors: Physiological
Chemistry and Anatomy. Thesis: The Phar-
maco-Hematology of Certain Carbamates.
Major Adviser: Prof. H. N. Wright.

Galen Broecker, Minneapolis

B.A. '50, University of Wyoming; M.A. '51,
University of Oregon. Major: History. Minor:
Political Science. Thesis: The Problem of Law
and Order in Ireland, 1812-1836. Major Ad-
viser: Prof. A. L. Burt.

Harriet Durkee Broecker, Cheyenne,
Wyo.

B.A. '50, University of Wyoming; M.A. with
honors '52, University of Oregon. Major: Eng-
lish. Minor: History. Thesis: The Influence
of *Othello* in Jacobean and Caroline Drama.
Major Adviser: Prof. Huntington Brown.

Dorothy Madsen Clay, St. Paul

B.A. *cum laude* '50, Macalester College; M.A.
'52, University of Minnesota. Major: Greek.
Minor: Linguistics. Thesis: A Formal Analysis
of the Vocabularies of Aeschylus, Sophocles
and Euripides. Major Adviser: Prof. D. C.
Swanson.

Edward Clifford, Amherst, Mass.

B.A. '49, Roosevelt College; M.A. '50, Uni-
versity of Chicago. Major: Child Welfare.
Minor: Psychology. Thesis: Discipline in the
Home: A Controlled Observational Study of
Parental Practices. Major Adviser: Prof. J. E.
Anderson.

James Iverne Dowie, Wahoo, Neb.

B.A. '36, Augustana College; M.A. '39, Uni-
versity of Chicago. Major: History. Minor:
English. Thesis: Luther Academy, 1883 to
1903; a Facet of Swedish Pioneer Life in
Nebraska. Major Adviser: Prof. C. A. Cham-
bers.

Alf Ingvald Eikaas, Nordfjord, Norway
Graduate '47, University of Oslo; M.A. '50,
University of Minnesota. Major: Educational
Psychology. Minor: Curriculum and Instruc-
tion. Thesis: A Study of Personality Dimen-
sions Related to Teacher-Pupil Rapport. Major
Adviser: Prof. C. J. Hoyt.

Wallace Elmer Erickson, Rush City

B.S. '50, University of Minnesota. Major: Dairy
Husbandry. Minor: Veterinary Physiology.
Thesis: Studies Concerning Frozen Bovine
Spermatozoa. Major Adviser: Prof. W. E.
Petersen.

Floyd Orville Flom, Minneapolis

B.A. '42, Hamline University; M.A. in P.A.
'51, University of Minnesota. Major: Political
Science. Minor: Economics. Thesis: The Leg-
islative Process: A Case Study of the Passage
of the Minnesota Youth Conservation Act with
Emphasis on the Role of the Individual. Major
Adviser: Prof. L. M. Short.

John Furlong, Bovey

B.S. '54, M.A. '55, University of Minnesota.
Major: Education. Minor: Industrial Educa-
tion. Thesis: Case Studies of Beginning Trade
and Industrial Instructors in a Vocational
Evening School. Major Adviser: Prof. W. J.
Micheels.

Clayton Frederick Giese, Minneapolis

B.S. with high distinction '53, University of
Minnesota. Major: Physics. Minor: Mathe-
matics. Thesis: The Atomic Masses of the
Stable Isotopes of the Elements from Phos-
phorus through Manganese. Major Adviser:
Prof. A. O. C. Nier.

Royal Clarence Gilkey, Minneapolis

B.A. with distinction '41, Cornell University;
M.A. '47, Columbia University. Major: Political
Science. Minor: History. Thesis: Mr. Justice
Frankfurter and Civil Liberties as Manifested
in, and Suggested by, the Compulsory Flag
Salute Controversy: A Study of Fifteen Years
of Supreme Court Opinions, 1939-1953. Major
Adviser: Prof. William Anderson.

Patricia Eileen King-Ellison Good,
Columbia Heights

B.A. *magna cum laude* '53, University of Min-
nesota. Major: Psychology. Minor: Neuropsy-
chiatry. Thesis: A Psychological Study of the
Effects of Regressive Electroshock Therapy.
Major Adviser: Prof. W. A. Russell.

William Alfred Gregory, Jr., Tawas
City, Mich.

B.S. '46, Central Michigan College of Education; M.A. '50, Michigan State College. Major: Speech. Minor: English. Thesis: A Rite-Role Analysis of Thirteen Ibsen Plays. Major Adviser: Prof. D. W. Thompson.

Luther Guy Hagard, Jr., Canyon, Tex.

B.A. '43, M.A. '47, Southern Methodist University. Major: Political Science. Minor: History. Thesis: The Quest for Constitutional Equality among the States in the United States. Major Adviser: Prof. William Anderson.

George Harlan Hallman, Clarksville,
Ind.

B.S. '34, M.A. '46, University of Minnesota. Major: Social Science. Minor: Education. Thesis: The Content and the Interrelations of the Social Sciences in General Education Programs in Selected Colleges in the South. Major Adviser: Prof. H. T. Morse.

John Olof Einar Hardin, East Lansing,
Mich.

B.B.A. '45, University of Commerce and Economics (Gothenburg, Sweden); M.A. '47, University of Minnesota. Major: Economics. Minor: Psychology. Thesis: A Study in Production Planning. Major Adviser: Prof. H. G. Heneman.

Stanley Warren Harris, St. Paul

B.S. with honors '50, M.S. '52, The State College of Washington. Major: Fishery and Wildlife Management. Minor: Botany. Thesis: Ecological Effects of Drawdown Operations for the Purpose of Improving Waterfowl Habitat. Major Adviser: Prof. W. H. Marshall.

Glover Gillette Hatheway, West
Hartford, Conn.

B.A. '51, Yale University. Major: History. Minor: Political Science. Thesis: The Neutral Indian Barrier State: A Project in British North American Policy, 1754-1815. Major Adviser: Prof. A. L. Burt.

Paul John Heideman, St. Paul

B.S. '43, M.A. '48, University of Omaha. Major: Education. Minor: Psychology. Thesis: A Study of the Relationship between Tele-viewing and Reading Abilities of Eighth Grade Students. Major Adviser: Prof. G. L. Bond.

Sam Chung Hsieh, Taipei, Taiwan,
China

B.S. '43, M.S. '45, National Central University. Major: Agricultural Economics. Minor: Economics. Thesis: Rice and Sugarcane Competition on Paddy Land in Central Taiwan. Major Adviser: Prof. G. A. Pond.

Lawrence Lloyd Inman, Oelwein,
Iowa

B.S. '47, Iowa State College. Major: Plant Genetics. Minor: Horticulture. Thesis: Studies on the Methods of Production and Theoretical Applications of Large Rings of Chromosomes in Maize. Major Adviser: Prof. C. R. Burnham.

Robert K. Jaedicke, Hanover, Kan.

B.A. *cum laude* '52, M.B.A. '53, University of Washington. Major: Business Administration. Minor: Law. Thesis: The Guaranteed Annual Wage and Accounting for Decision Making. Major Adviser: Prof. C. L. Nelson.

Olaf E. Kolari, St. Paul

B.S. '48, University of Minnesota. Major: Animal Husbandry. Minor: Veterinary Science. Thesis: Factors Affecting the Digestibility of Flax-Plant Feed *In Vitro* and *In Vivo*. Major Adviser: Prof. L. E. Hanson.

Robert Edwin Larsen, Janesville, Wis.

B.A. '44, Luther College; M.A. '52, University of Minnesota. Major: Philosophy. Minor: English. Thesis: The Relation between Logic and Ontology: with Special Reference to Morris R. Cohen. Major Adviser: Prof. P. L. Holmer.

Florian Isadore Lauer, St. Paul

B.S. with distinction '51, University of Minnesota. Major: Horticulture. Minor: Plant Genetics. Thesis: Recovery of Recurrent Parent Characters from Crosses of *Solanum Demissum* x *S. Tuberosum* in Successive Backcrosses. Major Adviser: Prof. F. A. Krantz.

Bertha Ann Lcwis, Lewisville

B.Ch. '49, M.S. '54, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on Periodate Oxidation Products of Carbohydrates. Major Adviser: Prof. Fred Smith.

William Mason Lewis, College
Station, Tex.

B.S. '52, Texas Agricultural and Mechanical College; M.S. '56, University of Minnesota. Major: Plant Genetics. Minor: Botany. Thesis: Combining Ability of Alfalfa Clones for Seasonal Growth Responses and Forage Yield. Major Adviser: Prof. W. M. Myers.

Mary Jane Loso, St. Joseph

B.A. '40, College of St. Benedict; M.A. '47, University of Minnesota. Major: English. Minor: History. Thesis: John Addington Symonds: Nineteenth-Century Historian of the Italian Renaissance. Major Adviser: Prof. G. R. Stange.

John King Love, Minneapolis

B.A. '38, Swarthmore College. Major: Physiology. Minor: Pharmacology. Thesis: A Study of Transtubular Movements of Urea in the Doubly Perfused Bullfrog Kidney. Major Adviser: Dr. Nathan Lifson.

Howard TenBroeck Lutz, Northfield

B.A. '45, Haverford College; M.A. '49, University of Minnesota. Major: History. Minor: Area Studies: Scandinavia. Thesis: The Protestant Reformation in Finland to 1539. Major Adviser: Prof. L. D. Steefel.

Barry Alan Marks, Barrington, R.I.

B.A. '48, Dartmouth College; M.A. '49, University of Minnesota. Major: American Studies. Thesis: The Idea of Propaganda in America. Major Adviser: Prof. Bernard Bowron.

Francis Norbert Mayer, St. Paul

B.S. with distinction '42, University of Minnesota; M.Mus. '47, Northwestern University. Major: Music. Minor: History. Thesis: A History of Scoring for Band—The Evolution of Band Scoring in the United States. Major Adviser: Prof. P. M. Oberg.

James Harrington McRandle, Duluth

B.A. with honors '49, Montana State University; M.A. '50, University of Michigan. Major: History. Minor: English. Thesis: The Cities of Destruction—A Study of the Nature and Structure of the National Socialist Ideology and Its Influence on the German War Effort, 1939 to 1945. Major Adviser: Prof. H. C. Deutsch.

Walter David Mink, Minneapolis

B.A. '50, Hiram College. Major: Psychology. Minor: Neuropsychiatry. Thesis: Semantic Generalization as Related to Word Association. Major Adviser: Prof. W. A. Russell.

Robert Leland Nickelson, Bozeman, Mont.

B.S. in Ch.E. with honors '51, M.S. in Ch.E. '52, Montana State College. Major: Chemical Engineering. Minor: Mathematics. Thesis: Some Effects of Heat Transfer Surfaces Observed in Natural Convection and Nucleate Pool Boiling Heat Transfer. Major Adviser: Prof. G. W. Preckshot.

Richard Lincoln Nickeson, Pittsburgh, Pa.

B.S. '51, Pennsylvania State College. Major: Horticulture. Minor: Plant Pathology. Thesis: Selection for Combining Ability in a Male-Sterile Tomato Line Having Two Recessive Seedling Genes. Major Adviser: Prof. T. M. Currence.

Roger Noel Pederson, Minneapolis

B.S. with distinction '52, M.S. '53, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: On the Unique Continuation Theorem for Certain Elliptic Partial Differential Equations. Major Adviser: Prof. A. N. Milgram.

John Douglas Ross, Minneapolis

B.A. '47, University of British Columbia; M.S. '54, University of Minnesota. Major: Bacteriology. Minor: Cancer Biology. Thesis: Application of Manometry to Kinetic Analysis of Mammalian Cell Multiplication in Stationary Monolayer Culture. Major Adviser: Dr. J. T. Syverton.

John Raymond Rowley, Santa Cruz, Calif.

B.A. '50, University of California at Los Angeles; M.A. '53, University of Oregon. Major: Botany. Minor: Zoology. Thesis: The Fine Structure of the Pollen Wall in the *Comelinaceae* Reichenb. Major Adviser: Prof. A. O. Dahl.

Elmer Al Rutledge, Winnipeg, Manitoba, Canada

B.S.A. '50, University of Manitoba. Major: Animal Husbandry. Minor: Veterinary Science. Thesis: A Study of Protein and Calcium Requirements of Baby Pigs. Major Adviser: Prof. L. E. Hanson.

Frank Sauer, Stouffville, Ontario, Canada

D.V.M. '51, Ontario Veterinary College; M.S. '53, University of Minnesota. Major: Veterinary Medicine. Minor: Agricultural Biochemistry. Thesis: Studies of the Oxygen Uptake by Liver Homogenates from Normal and Ketotic Cows. Major Adviser: Prof. H. H. Hoyt.

Allen Brian Schlesinger, Omaha, Neb.

B.A. *cum laude* '49, M.S. '51, University of Minnesota. Major: Zoology. Minor: Agricultural Biochemistry. Thesis: The Structural Significance of the Avian Yolk in Embryogenesis. Major Adviser: Prof. N. T. Spratt.

Edwin Arthur Schmall, Buffalo, N.Y.
B.S. '51, Northwestern University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Part I—An Investigation of the Structure of Trichlorogermene; Part II—A Mechanism of Substitution of Some Triarylgermeryl Halides. Major Adviser: Prof. O. H. Johnson.

Lloyd K. Sines, St. Paul

B.A. *magna cum laude* '52, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: An Experimental Investigation of the Relative Contribution to Clinical Diagnosis and Personality Description of Various Kinds of Pertinent Data. Major Adviser: Prof. William Schofield.

Mary Lee Spence, Kyle, Tex.

B.A. with high honors '47, M.A. '48, University of Texas. Major: History. Minor: Political Science. Thesis: British Interests and Attitudes Regarding the Republic of Texas and Its Annexation by the United States. Major Adviser: Prof. E. S. Osgood.

Ruth Frances Stickney, Houston, Tex.

B.S. '45, M.A. '47, University of Houston. Major: English. Minor: Philosophy. Thesis: Formal Verse Satire from Lodge to Jonson, with Particular Reference to the Imitation of Classical Models. Major Adviser: Prof. Huntington Brown.

Lavon John Sumption, Longville

B.S. with distinction '51, M.S. '55, University of Minnesota. Major: Animal Husbandry. Minor: Zoology. Thesis: An Analysis of the Early Development of the Minnesota No. 3 Inbred Line of Swine. Major Advisers: Profs. L. E. Hanson and W. E. Rempel.

Leslie Francis Stokes Upton, England

B.A. '54, University of Oxford. Major: History. Minor: Political Science. Thesis: William Smith, Chief Justice of New York and Quebec, 1728-1793. Major Adviser: Prof. A. L. Burt.

Bartholomeus van't Riet, Arnhem, Netherlands

B.Sc. '50, Vrije University. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Precipitation Mechanism of Lead Sulfate. Major Adviser: Prof. I. M. Kolthoff.

Jere Shanor Veilleux, Minneapolis

B.S. '51, Northwestern University; M.A. '52, University of Minnesota. Major: Speech. Minor: English. Thesis: An Analysis of the Rhetorical Situation and Rhetorical Character Types in Selected Plays of George Bernard Shaw. Major Adviser: Prof. D. W. Thompson.

Lloyd Wilbur Woodruff, Vermillion, S.D.

B.A. '43, University of South Dakota; M.S. '47, University of Denver. Major: Political Science. Minor: Economics. Thesis: The Wisconsin County Boards of Supervisors—A Study of Their Organizational and Operational Characteristics. Major Adviser: Prof. William Anderson.

Doctor of Philosophy in Medicine

Ananda Shiva Prasad, Patna, India

B.Sc.(hons.) '46, M.B.B.S. '51, Patna University. Major: Medicine. Minor: Anatomy. Thesis: Studies on Ultrafiltrable Calcium. Major Adviser: Dr. E. B. Flink.

Doctor of Philosophy in Neurology

John A. Logothetis, Minneapolis

M.D. '50, University of Thessaloniki. Major: Neurology. Minor: Physiological Chemistry. Thesis: A Study of Free Aminoacids in the Human Cerebrospinal Fluid. Major Adviser: Dr. A. B. Baker.

Doctor of Philosophy in Surgery

Lloyd Douglas MacLean, Minneapolis
B.S. '47, M.D. '49, University of Alberta.
Major: Surgery. Minor: Physiology. Thesis:
Some Observations on the Hematological Function
of the Stomach. Major Adviser: Dr. O. H.
Wangensteen.

Thomas Ogden Murphy, Tacoma,
Wash.

B.S. '46, Willamette University; M.D. '49,
Johns Hopkins University. Major: Surgery.
Minor: Pathology. Thesis: The Progression of
Experimental Atherosclerosis Following Lumbar
Sympathectomy. Major Adviser: Dr. R. L.
Varco.

Summary of Degrees Conferred by the University During the Academic Year 1956-1957

Conferred July, August, and December, 1956; March, 1957.....	2,237*
Conferred June, 1957 (subject to completion of requirements).....	<u>2,999</u>
Total degrees conferred 1956-1957.....	5,236

* Includes 84 conferred at Duluth.

ACADEMIC COSTUME

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

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

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

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

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

(In the order of march)

General Extension Division	white
General College	crimson and white
College of Science, Literature, and the Arts	white
University College	old gold and white
Institute of Technology	orange

Institute of Agriculture

College of Agriculture, Forestry, and Home Economics	maize
School of Veterinary Medicine	gray
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

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

THE
UNIVERSITY OF MINNESOTA

Announces Its

July Commencement

1957

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, JULY 18

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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

This Is Your University

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

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

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

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the University Artists Course, the Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

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

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

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

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

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

The summary financial statement of 1955-56 showed that the University received \$61,304,737.40 and spent \$61,305,615.38. This includes, of course, \$10,303,699.34 received from student tuition and fees, hospital and other departmental receipts; \$1,211,490.47 from intercollegiate athletics; \$10,666,778.11 from such services as dormitories and dining halls, printing, the laundry, University Press, Concerts and Lectures, University Theater, and Health Service and from the revolving funds; and \$13,145,587.04 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research, prizes, scholarships, and the care of the sick, as well as from the Permanent University Fund derived from land set aside by the Federal Government and the occupational tax on iron ore. Also, \$1,897,551.05 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$61,304,737.40, which the University received for 1955-56, \$24,079,631.39 came from the state.

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As candidates for degrees at this evening's commencement and their friends and relatives reach the Minneapolis Campus of the University from 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial bells being played from Northrop Memorial Auditorium, Miss Kathryn Simpson, SLA '58, carillonneur. Admission to the July commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

ORGAN RECITAL: From 7:30 to 8:00 p.m. Mr. Edward Berryman, Assistant Professor of Music and University Organist, will play.

Trumpet Voluntary	-	-	-	-	-	-	-	-	-	-	Purcell
In Dulci Jubilo	-	-	-	-	-	-	-	-	-	-	Bach
Cantabile	-	-	-	-	-	-	-	-	-	-	Franck
Choralprelude	-	-	-	-	-	-	-	-	-	-	Brahms
Toccata	-	-	-	-	-	-	-	-	-	-	Boëllmann

PROCESSIONAL: Concerto in F Major - - - - - Handel

PROCESSION: As candidates for degrees enter the Auditorium at 8:00 p.m., the curtain will be opened. Seated on the platform, left to right, are: Dr. Ole Gisvold, Professor of Pharmacy, Marshal; Dr. Ralph L. Kitchell, Professor of Veterinary Anatomy, Marshal; Dr. N. L. Gault, Jr., Assistant Dean of the College of Medical Sciences; Dr. Robert J. Holloway, Assistant Dean of Business Administration; Dr. Austin A. Dowell, Assistant Dean of the Institute of Agriculture; Dr. J. William Buchta, Chairman of the University College Committee; Dr. Horace T. Morse, Dean of General College; Colonel Dean M. Benson, USA, Professor of Military Science; Mr. True E. Pettengill, University Recorder; Dr. Rufus A. Putnam, Superintendent of Minneapolis Schools; Dr. E. W. Ziebarth, Dean of Summer Session; Dr. R. E. Summers, Dean of Admissions and Records; the Rev. Alvin G. Lewis, adviser to Lutheran students and staff members at the St. Paul Campus of the University of Minnesota; Dr. Martin L. Snoke, Assistant Dean of Students; Captain Fred C. Wagner, USAF, Assistant Professor of Air Science; Dr. Errett W. McDiarmid, Dean of the College of Science, Literature, and the Arts; Dr. Athelstan F. Spilhaus, Dean of the Institute of Technology; Dr. Walter W. Cook, Dean of the College of Education; Dr. John G. Darley, Associate Dean of the Graduate School; Mr. Roy A. Schuessler, Professor of Music; and Dr. Ambert B. Hall, Professor of Dentistry, Marshal.

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

Order of Events

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

INVOCATION: The Reverend Alvin G. Lewis, M.Th., adviser to Lutheran students and staff members at the St. Paul Campus of the University of Minnesota.

SPEAKING FOR THE UNIVERSITY: Dr. E. W. Ziebarth, Ph.D., Dean of Summer Session.

COMMENCEMENT ADDRESS: Dr. Rufus A. Putnam, Ed.D., Superintendent of Minneapolis Public Schools, "Science, Invention, and Education."

CONFERRING OF COMMISSIONS: Dean Robert E. Summers, Ph.D., Dean of Admissions and Records, will introduce Colonel Dean M. Benson, USA, Professor of Military Science, who will present the candidates for commissions in the branches of the Armed Services. The oath of office will be given by Colonel Benson; the commissions by Dean Ziebarth.

CONFERRING OF DEGREES: Dean Summers will introduce the several deans or their representatives, who will present the candidates for degrees in their respective colleges. These, in order of their introduction, are: Dean Horace T. Morse, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Dean J. W. Buchta, Ph.D., University College; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Assistant Dean Robert J. Holloway, Ph.D., School of Business Administration; Assistant Dean N. L. Gault, M.D., College of Medical Sciences; and Associate Dean John G. Darley, Ph.D., Graduate School.

PRESENTATION OF DIPLOMAS: With Assistant Dean of Students Martin Snoke, Ph.D., presiding, all members of the July graduating class will pass across the stage to receive their diplomas.

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

Order of Events

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

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

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

RECESSIONAL: Mr. Berryman, Organist

Symphony II - - - - - Widor
Finale

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

Candidates for Commissions

Subject to the completion of all curriculum requirements at the close of the first term of the Summer Session, commissions will be 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, Infantry

William G. Peters, Glenwood

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Arlo W. Gambell, Jr., Northfield

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

John Ferm Carlson, Minneapolis
Don Louis Curtis, Minneapolis
Eugene Arthur Fernstrom, Minneapolis

Paul Edwin Lofgren, Jr., Aitkin
James Harold Rosenwinkel, Fairmont

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Dennis Michael George, Minneapolis Sheldon Bernard Goldman, St. Paul

Bachelor of Arts

Keith Owen Anderson, Sacred Heart
Louis Arlan Ashbaugh, Minneapolis
Louis Allan Bank, Minneapolis
Richard Edward Barrett, A.A., Minneapolis
Richard Socialino Biagi, Richmond, Calif.

Bertin Allen Bisbee, Jr., Marshall
Gretchen Weidner Boos, Wayzata
Barbara Ann Boyes, Minneapolis
Stanley Carl Carlson, Jackson
John Burton Davidson, Minneapolis
David Wattis Ellingson, Edina
Walter Cole Ellingson, Minneapolis
Marianne Willson Engebretson, Minneapolis, CUM LAUDE
Dennis Wayne Erickson, A.L.A., St. Paul

Wendell George Geary, Pemberton
Wayne Charles Gilbert, Jr., St. Paul
Larry Herbert Goldman, Ironwood, Mich.

Rodger William Greengo, Albert Lea
Barry Grundland, Minneapolis
Irving Truman Gunderson, Albert Lea
Richard Glen Gustafson, St. Paul
Dale Louis Hansen, Racine, Wis.
Hillard Clark Hastings, Minneapolis
John Alan Hedberg, St. Paul
Robert Wayne Hiller, Granada
Donald Robert Johnson, Minneapolis, CUM LAUDE

Terry David Johnson, B.B.A., Robbinsdale
Valere Annette Johnson, Minneapolis
Gerald Dean Kahlert, North Mankato
Robert Charles Kirby, Minneapolis
William R. La Bissoniere, Minneapolis
Kay Milton Lockhart, Minneapolis
Everett Winslow Lovrien, Minneapolis
Ralph Sidney McCrae, St. Paul
William Bartley McCrea, Minneapolis
Mary E. Moen, St. Paul
Daniel Burnett Nelson, Alexandria
James Edwin Nelson, Jr., Minneapolis
Donald Carlisle Norris, Minneapolis
William Giller Peters, Glenwood
Lawrence Charles Pratt, Jr., Minneapolis

Lawrence Richard Pray, Minneapolis
Lucian Edward Soltvedt, Minneapolis
Gary Stewart Spranger, Fergus Falls
Donald Bruce Steinmetz, Stillwater, CUM LAUDE

John Michael Tomsich, Gilbert, MAGNA CUM LAUDE
Michael George Ubl, Minneapolis
Grantland I. Warfield, St. Paul
Elizabeth Ruth Wells, Austin, CUM LAUDE

Willis John Wood, St. Cloud
Patricia Frances Wurst, Shakopee

UNIVERSITY COLLEGE

Bachelor of Arts

LeRoy William Hesse, Hartley, Iowa

Bachelor of Science

John A. Forchas, Minneapolis

INSTITUTE OF TECHNOLOGY

Bachelor of Science

David Walter Bargaen, Northfield,
WITH HIGH DISTINCTION

Ronald Albert Iwasko, Saginaw

Bachelor of Applied Mathematics

Thomas George Heinke, Minneapolis Delroy James Sowada, Holdingford

Bachelor of Chemical Engineering

Kurt Frederick Pfeiffer, Olivia John Lawrence Urness, Fertile

Bachelor of Chemistry

Arland Eugene Oleson, Claremont Rudolph William Youngquist, Minneapolis

Bachelor of Civil Engineering

Richard Joseph Hawkins, St. Paul Richard Sands Nelson, Minneapolis
Roy M. Kuha, Virginia John A. Rudberg, B.M.E., St. Paul
Jerome Bernard Nelson, Minneapolis

Bachelor of Electrical Engineering

James Richard Hansberger, Dawson

Bachelor of Mechanical Engineering

Donald Wallace Munson, Jordan, John Gustav Seashore, Minneapolis
WITH HIGH DISTINCTION

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

Bachelor of Science

Virginia L. Donohoo, Minneapolis, Barbara Virginia Marti, Minneapolis,
Home Economics Home Economics
Dorothy Gladys Holleschau, Austin, Erling Milton Severtson, Kenneth,
Home Economics Agriculture, WITH DISTINCTION
Marilyn Joanne Holton, Granite Falls, Beverly Nelson Vangsness, Kenyon,
Home Economics Home Economics
Charles Joseph Krebs, St. Louis, Mo.,
Agriculture, WITH HIGH DISTINCTION

COLLEGE OF EDUCATION

Bachelor of Science

Lydia R. L. Alward, South Bend, Ind. Phyllis Marie J. Bakke, Minneapolis,
Richard Dean Ashmun, B.A., WITH DISTINCTION
Brainerd, WITH DISTINCTION

- Vincent Ronald Bastien, A.A., Minneapolis, WITH DISTINCTION
 Josephine Kolb Buckley, Wayzata
 Robert Edward Burke, A.A., St. Paul
 Helen Titelmaier Clark, B.A., Minneapolis
 Leatrice Joy Clauson, B.A., Kennedy, WITH DISTINCTION
 Marlys Jean Dobie, Mapleton
 Glen Michael Eaton, Hibbing*
 Ruth Jean Elliott, Minneapolis
 Hilda Frances Erickson, A.L.A., Minneapolis
 Ann M. McLeod Felling, Albert Lea
 Helen Joyce Fenstermacher, Spring Valley*
 Neal LeRoy Foker, Minneapolis
 Richard James Garcia, St. Paul
 Ronald Roger Graham, Hudson, Wis.
 Betty Groothuis, Maynard
 Joanne Guemmer, Sioux Falls, S.D.
 Clara P. Harkness, Minneapolis
 Myrle Carolyn Jensen, Minneapolis
 Carol Suzanne Johnson, Minneapolis
 Thomas Arthur Kitto, Tower
 Virginia Leslie Kivo, Minneapolis
 Dale Alan Kreitz, Minneapolis
 Walter Earl Kroll, Glenwood City, Wis.
 Margaret Irene Larsen, Seattle, Wash.
 Murray Jerome Lewis, B.I.A., St. Paul
 Lois Ruth Luebke, Cologne
 Kallitsa Katherine Mavroulis, Minneapolis
 Charlotte LaVerne Miller, A.L.A., St. Paul
 Evelyn Bothman Munding, Excelsior
 William Francis Murray, Minneapolis
 David Irving Myers, Dodge Center
 Barbara Jean Nichols, Everett, Wash., WITH DISTINCTION*
- Edna Sparrow Olson, Minneapolis, WITH DISTINCTION
 Patricia Katherine O'Neil, Minneapolis, WITH DISTINCTION*
 Lily Perry Pfeiffer, Granada Hills, Calif.
 Carol Eyberg Pomroy, B.S., Minneapolis
 Angeline George Rallis, Sioux Falls, S.D.
 Ellen Stockwell Reeker, Minneapolis
 Charlotte Gretchen Greene Roberts, Minneapolis
 Lucille May F. Sanders, St. Louis Park
 Virginia Hill Schmeckpeper, Arlington, WITH DISTINCTION
 Joan Lou Schneider, Winona
 Agnes Grace Searl, St. Paul
 Vicki Sandra Forer Shink, Minneapolis
 Vivian Judith Simpson, Beresford, S.D.
 Estelle M. Snyder Stillman, Minneapolis
 Colette Carrell Stone, St. Paul, WITH DISTINCTION
 Curtis Lee Swenson, Owatonna
 Marie Constance Thomason, Minneapolis
 Lillian Paulson Tracy, Minneapolis
 Florene Tweeten Trentman, Forest City, Iowa, WITH HIGH DISTINCTION
 Donna Claire Tuveson, Harvey, Ill.
 Florence Hattie Tykeson, Kennedy, WITH DISTINCTION*
 Susan M. Weir, Excelsior
 Louise Jessie Wilson, Minneapolis
 Gloria Gwen Wirtanen, A.A., Hibbing

Master of Education

- Jeanne Catherine Blanchette, B.S., Marshall*
 June Marie Miller Goemer, B.S., Darwin
 Frances Marie Heinicke, B.S., Northfield*
 Madalyn Davies Jones, B.S., Paris Station, N.Y.*

* Nursing Education Curriculum.

James Victor Lundbohm, B.S., Roseau
Matthew Joseph Malikowski, B.S.,
Frazee
Frank John Masterjohn, B.E.,
Spooner, Wis.

Virgil Clayton Sandvig, B.A., Dell
Rapids, S.D.
Norman Peter Schroeder, B.S.,
Wayzata
Mark Michael Sivanich, A.A., B.S.,
Minneapolis

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

David Lindsay Bowers, Minneapolis
Edward George Brandt, St. Paul
Merlin Roy Bretzman, Lakefield
Richard Allen Budahl, St. Paul
Clarence Carl Carlson, Minneapolis
Douglas Joseph DesLauriers, Minne-
apolis
Sheldon Vernon Durtsche, Minne-
apolis
James Alden Eddy, Minneapolis
Donn Byron Flaa, Minneapolis
Thomas Eugene Fournier, Minne-
apolis
James Richard Hansberger, Dawson
Roy Charles Harper, Minneapolis
Edward Joel Hentges, St. Paul
James Patrick Hinton, Minneapolis
Richard Lowell Jensen, Minneapolis
Marvin Elmer Johnson, Chippewa
Falls, Wis.
Samuel Louis Kaplan, St. Paul, WITH
DISTINCTION

Richard Allen Klingen, Rosemount
Charles Fredric Mark, Minneapolis
Norman Richard Matson, Minne-
apolis, WITH HIGH DISTINCTION
Robert Nicholas McGinty, Minne-
apolis
Donald Wallace Munson, Jordan,
WITH HIGH DISTINCTION
Jerold Douglas Murphy, Minneapolis
Robert Joseph Nielsen, Minneapolis
Donald Otto, Isanti
Chei-Min Paik, Seoul, Korea
Kurt Frederick Pfeiffer, Olivia
Roland A. Ramey, Hill City
James Peter Schmitt, St. Paul
William G. Scott, A.A., Rochester
Calvin Charles Serviss, St. Paul
Daniel Benedict Sullivan, Minneapolis
Kenneth S. Utter, Jr., A.L.A., Minne-
apolis

LAW SCHOOL

Bachelor of Science in Law

Gary Jon Meyer, Robbinsdale

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Patricia Ann McDonald, Duluth, WITH DISTINCTION

Bachelor of Science in Nursing Administration

Joanne Alice Skinner, Wells

R. Eunice Welandar, Sycamore, Ill.,
WITH DISTINCTION

Bachelor of Science

- Dale LaVern Anderson, Austin, Medicine
- John Doyle Banovetz, Duluth, Medicine
- Richard Phillip Bendel, Minneapolis, Medicine
- Marilyn Mae Davies, Minneapolis, Public Health Nursing
- Michael William Davis, B.A., Minneapolis, Medicine
- David Karl Drill, B.A., Hopkins, Medicine
- Alan Dean Espelien, St. Paul, Medicine
- Benjie Lawrence Goldfarb, Duluth, Medicine
- Lawrence Miles Greenberg, B.A., Minneapolis, Medicine
- Barry Grundland, Minneapolis, Medicine
- Dagmar Hildegaarde Johnson, Little Falls, Public Health Nursing, WITH DISTINCTION*
- Franklin Leroy Johnson, Duluth, Medicine
- Thomas Russell Johnson, B.A., LeSueur, Medicine
- Stephen Aaron Kieffer, B.A., St. Paul, Medicine
- Arthur Tilden Lindeland, B.A., Minneapolis, Medicine
- Thomas Litman, B.A., Minneapolis, Medicine
- Sue Ann Maris, Jacksonville, Ill., Public Health Nursing
- Raymond Marvin Martinson, Eveleth, Medicine
- James Andrew McKinnon, B.A., Virginia, Medicine
- Richard Andrew Meland, Minneapolis, Medicine
- Ronald John Nelson, B.A., Minneapolis, Medicine
- Thomas Owen Nichols, B.A., St. Paul, Medicine
- Richard Robert Oslund, A.A., B.A., Cass Lake, Medicine
- William Edward Prickman, Rochester, Medicine
- Ricard Reino Puumala, B.A., Cloquet, Medicine
- Gerald Ratinov, B.A., Minneapolis, Medicine
- Franklin Delano Roller, A.A., Rochester, Medicine
- Robert Leslie Sadoff, B.A., Minneapolis, Medicine
- William Randolph Schmalhorst, Stillwater, Medicine
- Gerald Francis Tuohy, Chatfield, Medicine

GRADUATE SCHOOL

Master of Arts

- Ella Bervin Anderson, Mankato
B.E. with honors '43, Mankato State Teachers College. Field of Concentration: Library Science.
- John Robert Anderson, Minneapolis
B.A. *magna cum laude* '54, Concordia College. Field of Concentration: Industrial Relations.
- Clair Duane Bartosh, Minneapolis
B.E. '31, River Falls State Teachers College. Field of Concentration: Curriculum and Instruction.
- Norbert Raymond Berg, St. Paul
B.S. '55, St. John's University. Field of Concentration: Industrial Relations.
- James Andrew Bikkie, Brainerd
B.S. '56, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.
- Gaylen Harry Bonnell, Minneapolis
B.S. '48, Milwaukee State Teachers College. Field of Concentration: Educational Psychology.

- Barbara Callender, Minneapolis
B.A. '54, Carleton College. Field of Concentration: English.
- Maurice Gene Chenoweth, Minneapolis
B.A. '54, Earlham College. Field of Concentration: Political Science.
- Rufus John Christgau, Minneapolis
B.S. '25, M.S. '39, University of Minnesota. Field of Concentration: Educational Psychology.
- Richard Donald Conner, Lamberton
B.A. '53, University of Minnesota. Field of Concentration: Psychology.
- Paul Daten Corliss, Beardsley
B.A. '52, B.S. '52, Bemidji State Teachers College. Field of Concentration: Educational Administration.
- Ton DeVos, Driebergen, Netherlands
B.A. '50, Phillips University. Major: International Relations. Thesis: Recent Developments in International Private Commercial Arbitration.
- Spencer Ralph Drake, Minneapolis
B.A. '55, Augsburg College. Field of Concentration: Curriculum and Instruction.
- William Harold Forsberg, Minneapolis
B.S. '50, University of Minnesota. Field of Concentration: Educational Administration.
- Michael Joseph Fortune, Stevens Point, Wis.
B.S. '49, Central State Teachers College. Field of Concentration: English.
- Millard Louis Gieske, St. Paul
B.A. *magna cum laude* '53, Hamline University. Field of Concentration: Political Science.
- Jane Skiles Griggs, St. Paul
B.A. *cum laude* '36, Smith College. Major: Child Welfare. Minor: Psychology. Thesis: A Study of Attitudes of "Successful" and "Unsuccessful" Mothers from Three Broad Socio-Economic Levels.
- Diane Lee Henze, Delano
B.S. with high distinction '56, University of Minnesota. Field of Concentration: Educational Psychology.
- Edward Adolph Howe, Minneapolis
B.A. '49, University of Minnesota. Field of Concentration: Political Science.
- Vernon Christian Humbert, Minneapolis
B.S. '53, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.
- Earl Duane Jacobsen, Albert Lea
B.S. in Law '48, B.S. with distinction '50, University of Minnesota. Field of Concentration: Industrial Education.
- Screen Ulrich Kane, Brainerd
B.S. with distinction '52, University of Minnesota. Field of Concentration: Art Education.
- Paul Myron Kjeldergaard, St. Paul
B.A. '54, University of Minnesota. Field of Concentration: Psychology.
- Marilyn Rena Koren, Brooklyn, N.Y.
B.A. *cum laude* '53, Syracuse University. Field of Concentration: English.
- Paruchuri Rama Krishnaiah, Gruntur, India
B.Sc. (Hons.) '54, University of Madras. Field of Concentration: Statistics.
- Roger George Krohn, Blue Earth
B.A. '53, St. Olaf College. Major: Sociology. Minor: Anthropology. Thesis: The Social Role of the Revolutionary Leader.
- John Patrick Lamb, Minneapolis
B.A. '49, College of St. Thomas; B.S. '51, University of Minnesota. Field of Concentration: American Studies.
- David Clare Lee, Minneapolis
B.A. '54, University of Wisconsin. Field of Concentration: Journalism.
- Anna Marie Ling, Shanghai, China
B.A. '55, Pacific Union College. Field of Concentration: English.
- George J. Lockwood, Lake George, N.Y.
B.A. '53, Syracuse University. Major: Journalism. Minor: Political Science. Thesis: A Study of American Political Caricature and Selected Contemporary Cartoonists.

Brendan John McDonald, Regina,
Saskatchewan, Canada

B.S. '54, St. Cloud State Teachers College.
Field of Concentration: Educational Psychology.

Bette Barbara McVay, Minneapolis

B.S. '40, Wisconsin State College at River Falls. Field of Concentration: Curriculum and Instruction.

Frank Richard Mehle, Chisholm

B.A. '50, College of St. Thomas; B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Mable Ottena Melby, Minneapolis

B.E. '35, Milwaukee State Teachers College. Field of Concentration: Curriculum and Instruction.

Anne Clark Middlebrook, Wayzata

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

Joseph Arthur Miller, Minneapolis

B.A. *cum laude* '55, University of Minnesota. Field of Concentration: History.

Gottfried Carl Mohr, Berlin, Germany

Graduate '53, Free University of Berlin. Major: History. Minor: Economics. Thesis: The Minnesota State Board of Equalization, 1860 to 1909.

David Anthony Music, London,
England

B.A. '56, Cambridge University. Major: Economics. Minor: History. Thesis: Soviet Economic Relations with Eastern Europe after the Second World War, 1944-1956.

Raymond Stanley Nelson, Maple
Plain

B.A. *magna cum laude* '56, University of Minnesota. Field of Concentration: English.

Irene Palmer Norell, St. Paul

B.S. '45, University of Minnesota. Field of Concentration: Library Science.

Grace M. Norris, Minneapolis

B.A. '47, B.S. '51, University of Minnesota. Field of Concentration: Child Welfare.

Anastasia Pappas, Fort Dodge, Iowa

B.A. '50, State University of Iowa. Field of Concentration: Library Science.

Mary Louise Paskvan, Chisholm

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

Joseph Anthony Polunc, Minneapolis

B.A. '50, College of St. Thomas; B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Donald Porter Richardson, St. Paul

B.A. '54, Bethel College. Field of Concentration: Speech and Theater Arts.

Hyman Rosenstein, Minneapolis

B.A. '55, University of Minnesota. Field of Concentration: Industrial Relations.

Howard Clemens Rosenwinkel, Little Falls

B.A. '50, B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Alice Myrtle Rydeen, Lynwood, Calif.

B.A. *summa cum laude* '31, Gustavus Adolphus College. Field of Concentration: Library Science.

Charles Albert Samson, New Brighton

B.S. '54, Bemidji State Teachers College. Field of Concentration: Curriculum and Instruction.

Neil Bradley Sandberg, Rochester

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Marjorie Jones Saxon, Minneapolis

B.A. '28, Wellesley College. Field of Concentration: Curriculum and Instruction.

Dale Victor Shuldes, Chicago, Ill.

B.S. '52, University of Illinois. Field of Concentration: Psychology.

Norman Silberberg, Brooklyn, N.Y.

B.A. '53, Syracuse University. Field of Concentration: Psychology.

John Stephen Simmons, Gloucester,
Mass.

B.A. '53, Boston University. Field of Concentration: Curriculum and Instruction.

Jacob Somerman, Minneapolis

Graduate '39, University of Lvov. Field of Concentration: History and Philosophy of Education.

Stanley Stark, Minneapolis

B.S. '48, M.S. '49, City College of New York;
Ph.D. '54, University of Cincinnati. Field of
Concentration: Industrial Relations.

Jean Baker Trousdale, Fergus Falls

B.A. *cum laude* '55, University of Minnesota.
Field of Concentration: Psychology.

Michael Daniel True, Lawton, Okla.

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

William Theodore Welch, White
Bear Lake

B.A. '53, Hamline University. Field of Con-
centration: Educational Psychology.

David Leroy Westby, Ashland, Wis.

B.S. '51, University of Wisconsin. Major: So-
ciology. Minor: Philosophy. Thesis: The Social
Organization of a Symphony Orchestra, with
Special Attention to the Informal Associations
of Symphony Members.

Master of Forestry

Jack Stubbs, Dalton, N.Y.

B.S. with honor '53, Michigan State College.
Field of Concentration: Forestry.

Master of Science

Neil Albert Anderson, Minneapolis

B.S. '51, University of Minnesota. Major:
Plant Pathology. Minor: Plant Genetics.
Thesis: Studies on the Epidemiology and Con-
trol of the Oak Wilt Fungus, *Endoconidio-
phora fagacearum* Bretz.

Richard Raymond Angus, Farmington

B.S. '53, University of Minnesota. Field of
Concentration: Agricultural Economics.

Joseph George Cvancara, Jr., Ross,
N.D.

B.S. '55, North Dakota Agricultural College.
Field of Concentration: Agricultural Educa-
tion.

Lourdes De La Isla, Querétaro,
Mexico

B.S. '50, Colegio Labastida; Agr. Eng. '55,
Instituto Tecnológico de Monterrey. Major:
Plant Pathology. Minor: Plant Genetics.
Thesis: Variability in the Species of *Stemphy-
lium* on Red Clover and Alfalfa.

Robert William Goth, Phillips, Wis.

B.S. '54, Wisconsin State College at Superior.
Major: Plant Pathology. Minor: Botany. Thesis:
Behavior of Interspecific Crosses in the Genus
Sphacelotheca.

Charles Oliver Ingamells, Minne-
apolis

B.A. '39, University of Western Ontario.
Major: Analytical Chemistry. Minor: Physical
Chemistry. Thesis: Determination of Micro-
gram Quantities of Tellurium Using an In-
duced Reaction.

Morris Arnold Kaufman, Nashua,
N.H.

B.A. '55, Dartmouth College. Field of Con-
centration: Geology.

Muhammad Israil Khan, Dacca,
Pakistan

G.V.Sc. '35, Bengal Veterinary College. Field
of Concentration: Veterinary Bacteriology.

Marjorie Kate Lavers, Collingwood,
Ontario, Canada

B.A. '53, University of Toronto. Major: Home
Economics. Minor: Physiological Chemistry.
Thesis: The Effect of Thiamine Deficiency on
the Secretary Response of Vagally Innervated
Gastric Mucosa.

David Carl Nelson, Ventura, Calif.

B.S. '54, University of Redlands. Major: Ana-
lytical Chemistry. Minor: Physical Chemistry.
Thesis: Photometric Acid-Base Titrations with
Indicators.

Panagiotis G. Papathanassiou,
Tripolis, Greece

B.S. '54, Wisconsin State College at Eau
Claire. Field of Concentration: Organic Chem-
istry.

Zin Hwan Park, Seoul, Korea

Graduate '55, Seoul National University. Field
of Concentration: Agricultural Economics.

Martin Abraham Piehl, Medford, Wis.

B.S. '55, University of Wisconsin. Field of
Concentration: Botany.

Vivencio Leones Salcedo, Dagupan
City, Philippines

B.S. '48, University of Santo Tomas. Field of
Concentration: Animal Husbandry.

Sister Daniel Stensrud, St. Paul

B.S. '52, College of St. Catherine. Field of
Concentration: Home Economics.

Edward Woodward, Jr., Staunton, Va.

B.A. '43, Harvard University; M.D. '51, Medi-
cal College of Virginia. Major: Physiology.
Minor: Medicine. Thesis: The Influence of
Valvular Insufficiency on Indicator Dilution
Curves in Patients with Mitral Valvular Dis-
ease.

Master of Science in Aeronautical Engineering

Jon Roger Geer, Rule, Tex.

B.S. in Aero.E. '56, United States Naval Post-
graduate School. Major: Aeronautical Engi-
neering (Aerodynamics). Minor: Aeronautical
Engineering (Aircraft Structures). Thesis: A
Study of the Wake at Supersonic Air Flow
of an Elliptical Body-Flat Disk Combination
Using Hydraulic Analogy to Compressible Air
Flow.

Mansop Hahn, Seoul, Korea

B.S. in Aero.E. '54, Seoul National University.
Field of Concentration: Aeronautical Engi-
neering.

Joseph Richard Hawvermale,
Berkeley Springs, W.Va.

B.S. '47, United States Naval Academy; B.S. in
Aero.E. '56, United States Naval Postgraduate
School. Major: Aeronautical Engineering (Jet
Propulsion). Minor: Aeronautical Engineering
(Aircraft Structures). Thesis: An Investigation
of the Effects of Air Temperature on Benzene
Spray Vaporization.

John Amiel Hess, Darien, Conn.

B.S. '47, Brown University; B.S. in Aero.E.
'56, United States Naval Postgraduate School.
Major: Aeronautical Engineering (Jet Propul-
sion). Minor: Aeronautical Engineering (Air-
craft Structures). Thesis: Fuel Vaporization in
the Pre-Ignition Zone of a Gas Turbine Com-
bustion Chamber.

Edelbert Eugene Irish, Kansas City,
Mo.

B.S. in Aero.E. '45, University of Kansas; B.S.
in Aero.E. '56, United States Naval Post-
graduate School. Major: Aeronautical Engi-
neering (Aerodynamics). Minor: Aeronautical
Engineering (Aircraft Structures). Thesis: In-
teraction Between Shock Waves and Turbulent
or Transitional Boundary Layers at Mach
Number 3.

William Willard Koepcke, Jr.,
LaCrosse, Wis.

B.S. in Aero.E. '56, United States Naval Post-
graduate School. Major: Aeronautical Engi-
neering (Aerodynamics). Minor: Aeronautical
Engineering (Aircraft Structures). Thesis: In-
teraction Between Laminar Boundary Layers
and Shock Waves with Separation of Flow.

Harold Eugene Roland, Jr., Lincoln,
Neb.

B.S. in Aero.E. '56, United States Naval Post-
graduate School. Major: Aeronautical Engi-
neering (Aerodynamics). Minor: Aeronautical
Engineering (Aircraft Structures). Thesis: An
Investigation of a Method of Increasing the
Mach Number Range of a Subsonic Wind
Tunnel by Means of an Internal Nozzle in
the Test Section.

Master of Science in Chemical Engineering

Hector Antonio Rodriguez, Guadala-
jara, Mexico

B.S. '55, University of California. Major:
Chemical Engineering. Minor: Physical Chem-
istry. Thesis: Void Fractions in Two-Phase,
Steam-Water Flow.

Master of Science in Civil Engineering

M. Anandakrishnan, Vaniyambadi,
Madras, India

B.E. '52, University of Madras. Field of Concentration: Civil Engineering.

John Stephen Braun, St. Cloud

B.C.E. with distinction '56, University of Minnesota. Major: Civil Engineering (Highway Engineering and Soils Mechanics). Minor: Civil Engineering (Structural Engineering). Thesis: A Study of Frost Penetration into Fine-Grained Soils Beneath Bituminous Pavements in Southeastern Minnesota.

Keith Richard Johnson, St. Paul

B.A. '53, University of Minnesota. Major: Civil Engineering. Minor: Architecture. Thesis: A Theoretical and Experimental Analysis of a Hyperbolic Paraboloid: A Doubly Curved Thin Shell Surface.

Jerome Milton Miller, St. Paul

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

Master of Science in Dentistry

Theodore H. Dedolph, Jr., Minneapolis

D.D.S. '50, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: A Histologic Study of Mucoperiosteal Flap Healing.

William John Dresser, Arlington

B.S. '52, D.D.S. '52, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: A Study of Tissue Response to Polyvinyl Resin Sponge Implants in the Jaws of Dogs.

Dean Daniel Gaffney, Waterloo, Iowa

B.A. '48, Loras College; D.D.S. '52, St. Louis University. Major: Dentistry. Minor: Oral Pathology. Thesis: Acetone-Preserved Bank Bone in Mandibular Ridge Reconstruction.

Bryce Allen Gilbertson, St. Paul

B.S. '52, D.D.S. '52, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: A Study of the Effects of Implantation of Cultured Calf Bone Paste in Extraction Sockets of Rats.

Norman Oscar Holte, Minneapolis

B.S. in Phcy. '39, D.D.S. '47, University of Minnesota. Major: Dentistry. Minor: Pharmacology. Thesis: Metaraminol (Aramine): A Study of Its Vasoconstrictor Effect in Prolonging the Duration of Local Procaine Anesthesia.

Albert Dominic Sparrow, Calgary,
Alberta, Canada

L.D.S. '45, D.D.S. '45, University of Toronto. Major: Dentistry. Minor: Pathology. Thesis: The Effect of Hyaluronidase on the Postoperative Swelling Following Oral Surgical Procedures.

Master of Science in Dermatology and Syphilology

Smith Hyson Gibson, Evarts, Ky.

B.S. '47, M.D. '50, University of Kentucky. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: Melanotic Whitlow.

Jose Maria de Moragas, Barcelona,
Spain

M.D. '49, University of Barcelona. Major: Dermatology and Syphilology. Minor: Histopathology. Thesis: Keratoacanthoma.

Master of Science in Electrical Engineering

Meredith Kemper Eick, Marshall
B.E.E. with distinction '51, University of
Minnesota. Field of Concentration: Electrical
Engineering.

John Mitchell Reid, Minneapolis
B.E.E. '50, University of Minnesota. Major:
Electrical Engineering. Minor: Mathematics.
Thesis: Study of Focusing Ultrasonic Lenses.

John Prescott Sturtz, Albert Lea
B.S. with high distinction '55, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Optical Absorp-
tion in Single Crystals of Magnesium Oxide.

Master of Science in Mechanical Engineering

John Arthur Burt, Bremerton, Wash.
B.Aero.E. '44, B.Mech.E. '50, University of
Minnesota. Major: Mechanical Engineering.
Minor: Industrial Engineering. Thesis: An In-
vestigation of Incompressible Flow Measure-
ment for Orifice Plates.

Chai Chin Suh, Seoul, Korea
B.S. in M.E. '51, Seoul National University.
Field of Concentration: Mechanical Engineer-
ing.

Master of Science in Medicine

William Patrick Crowley, Jr.,
Madison, Wis.
B.S. '50, M.D. '52, University of Wisconsin.
Major: Medicine. Minor: Physiology. Thesis:
The Effect of the Valsalva Maneuver on Tho-
racic Aortic Blood Flow in Man.

F. Hase Rodenbaugh, San Jose, Calif.
B.A. '49, M.D. '52, Stanford University.
Major: Medicine. Minor: Hematology. Thesis:
Observation on Plasmin in Human Thrombo-
embolic Disease.

Alexander Schirger, Rochester
M.D. '50, Charles University. Major: Medi-
cine. Minor: Physiology. Thesis: Barbiturate
Blood Levels and the Cold Pressor Test.

Malcolm Duncan Winter, Jr., Miles
City, Mont.

B.A. '49, Wheaton College; M.D. '53, North-
western University. Major: Medicine. Minor:
Pathologic Anatomy. Thesis: Relationship of
the Degree of Atherosclerosis of the Internal
Carotid Circulation in the Brain of Women
with Age and Coronary Atherosclerosis.

Master of Science in Neurosurgery

Peter Dennis Moyes, Vancouver,
British Columbia, Canada
B.S. '50, M.D. '50, St. Bartholomew's Hos-
pital Medical College. Major: Neurosurgery.
Minor: Neuropathology. Thesis: The Influence
of Anticoagulants on Experimental Cerebral
Infarcts in Dogs.

Master of Science in Obstetrics and Gynecology

Leonard Arthur Aaro, Rochester
B.S. '48, M.D. '50, Northwestern University.
Major: Obstetrics and Gynecology. Minor:
Surgical Pathology. Thesis: Leiomyosarcoma of
the Uterus.

Charles Frederick Wilcox III,
Los Angeles, Calif.
B.A. '48, University of Southern California;
M.D. '52, Temple University. Major: Obstet-
rics and Gynecology. Minor: Surgical Pathol-
ogy. Thesis: Blood Loss During Caesarian
Section.

Master of Science in Ophthalmology

Robert Myron Lundblad, Duluth
B.S. '47, M.D. '50, University of Minnesota.
Major: Ophthalmology. Minor: Anatomy. Thesis:
The Use of Radioactive Phosphorus in
the Diagnosis of Intraocular Tumors.

Frederick Chapman Sabin, Little Falls,
N.Y.

B.A. '48, Syracuse University; M.D. '53, Al-
bany Medical College. Major: Ophthalmology.
Minor: Surgical Pathology. Thesis: Accom-
modation-Convergence Association — Experi-
ments with Neosynephrine, Pilocarpine and
Physostigmine.

Harold A. Stein, Niagara Falls,
Ontario, Canada

M.D. '53, University of Toronto. Major: Oph-
thalmology. Minor: Surgical Pathology. Thesis:
Studies on the Choroidal Circulation.

Master of Science in Orthopedic Surgery

Richard Stephen Bryan, McAlester,
Okla.

B.S. in Chem. '43, Oklahoma Agricultural and
Mechanical College; M.D. '50, Oklahoma Uni-
versity. Major: Orthopedic Surgery. Minor:
Surgical Pathology. Thesis: The Effect of
Polyvinyl Formal (Ivalon) Sponge on Cortical
Bone Healing.

Robert Alexander Haliburton,
Toronto, Ontario, Canada

M.D. '51, University of Toronto. Major:
Orthopedic Surgery. Minor: Surgical Pathology.
Thesis: Degenerative Disease of the Patello-
Femoral Joint with Special Reference to the
Patella.

Gaston Morissette, Quebec, Quebec,
Canada

M.D. '50, Laval University. Major: Orthopedic
Surgery. Minor: Surgical Pathology. Thesis:
Plantar Neuroma or Morton's Toe.

Master of Science in Pediatrics

Richard Lyon Myers, Green Bay, Wis.
M.D. '51, St. Louis University. Major: Pedi-
atrics. Minor: Pathologic Anatomy. Thesis:
Congenital Biliary Tract Atresia: A Clinical
Pathological Study.

George Stephen Sturtz, Watertown,
N.Y.

B.S. '49, St. Lawrence University; M.D. '53,
Georgetown University. Major: Pediatrics.
Minor: Physiology. Thesis: Water Metabo-
lism After Cardiac Operations Involving Ex-
tracorporeal Circulation.

Master of Science in Psychiatry

Berthold Eric Schwarz, Montclair,
N.J.

B.A. '45, Dartmouth College; M.D. '50, New
York University. Major: Psychiatry. Minor:
Basic Neurologic Science. Thesis: Electroen-
cephalographic Studies of Animals and Human
Beings Under Hypnosis.

Master of Science in Surgery

John D. Botti, Somerville, N.J.

B.A. '48, M.D. '52, University of Pennsylvania. Major: Surgery. Minor: Surgical Pathology. Thesis: Effects of Excising, Exteriorizing and Transplanting the Pyloric Antrum to the Colon in Dogs with Heidenhain's Pouches.

Gerald Coursley, Winnipeg, Manitoba, Canada

M.D. '50, University of Manitoba. Major: Surgery. Minor: Surgical Pathology. Thesis: Mediastinal Teratomas; A Clinico-pathological Study.

Fritz Helmut Moser, Frankfurt, Ammain, Germany

M.D. '50, University of Frankfurt. Major: Surgery. Minor: Surgical Pathology. Thesis: Fecal Excretion of Fat Following Esophagogastrectomy in Dogs.

Kenneth Theodore Pawlias, Rochester

B.S. '48, Northwestern University; M.D. '52, Loyola University. Major: Surgery. Minor: Surgical Pathology. Thesis: Local Recurrent Carcinoma of the Breast Recurring in the Operative Site Five or More Years After Radical Mastectomy: A Clinicopathologic Study.

John Cooper Turner, Jr., Northport, Ala.

B.S. '47, University of Alabama; M.D. '51, Tulane University. Major: Surgery. Minor: Surgical Pathology. Thesis: Large Benign Gastric Ulcers: A Clinico-Pathologic Study.

Edwin Hoyt Updike II, Ocala, Fla.

B.A. '45, Colgate University; M.D. '49, Columbia University. Major: Surgery. Minor: Physiology. Thesis: Excretion of Free Histamine in Urine during Gastric Secretion Stimulated by Humoral Mechanisms.

Master of Social Work

John Sundell Carter, Minneapolis

B.A. '55, University of Minnesota. Field of Concentration: Social Work.

Leland Curtis Johnson, Minneapolis

B.A. '50, Augustana College. Field of Concentration: Social Work.

Johannes Pieter Krop, Amsterdam, Netherlands

Graduate '50, School of Social Work at Amsterdam. Field of Concentration: Social Work.

Kun Chil Paik, Seoul, Korea

B.S. '43, Seoul National University. Field of Concentration: Social Work.

William Pappas, Moorhead

B.A. '49, Concordia College. Field of Concentration: Social Work.

Doctor of Philosophy

Peter C. Apostolakos, Duluth

B.B.A. '40, B.S. '47, M.A. '49, University of Minnesota. Major: Educational Psychology. Minor: Statistics. Thesis: Multivariate Statistical Analysis of Cognitive and Noncognitive Factors and Use of the Analysis in an Actuarial-Clinical Prediction Study. Major Advisers: Profs. W. E. Dugan and P. O. Johnson.

James Austin Bennett, Logan, Utah

B.S. '40, M.S. '41, Utah State Agricultural College. Major: Animal Husbandry. Minor: Poultry Husbandry. Thesis: An Analysis of Birth, Weaning and Feedlot Performance Data on Beef Cattle. Major Advisers: Profs. L. E. Hanson and W. E. Rempel.

Kenneth Raymond Bromfield, Frederick, Md.

B.S. '49, Pennsylvania State College. Major: Plant Pathology. Minor: Botany. Thesis: The Effect of Temperature on Seedling Reaction of Selected Wheat Varieties to *Puccinia graminis tritici*. Major Adviser: Prof. J. J. Christensen.

Jay Lyday Clark, Wilmington, Del.

B.A. '53, University of Delaware; M.A. '55, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Generalized Secondary Reinforcement: An Experimental Confirmation. Major Adviser: Prof. W. A. Russell.

William Ghormley Cochrane,
Eau Claire, Wis.

B.E. '38, St. Cloud State Teachers College; M.A. '41, University of North Dakota. Major: History. Minor: Political Science. Thesis: Freedom Without Equality: A Study of Northern Opinion and the Negro Issue, 1861-1870. Major Adviser: Prof. E. S. Osgood.

Roy Clinton Dalton, St. Paul

B.A. '49, Bethel College; M.A. '50, University of Minnesota. Major: History. Minor: Political Science. Thesis: The History of the Jesuits' Estates, 1760-1888. Major Adviser: Prof. A. L. Burt.

John George Eriksen, Minneapolis

B.S. '42, M.A. '50, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Political Role of Church Leadership in Developing Resistance Attitudes Toward the Rise and Initial Consolidation of Power of the National Socialist Party, 1930-1933. Major Adviser: Prof. Werner Levi.

Thomas Newel Filson, Chico, Calif.

B.A. *cum laude* '54, Chico State College. Major: Educational Psychology. Minor: Psychology. Thesis: Factors Influencing the Level of Dependency in the Classroom. Major Advisers: Profs. C. G. Wrenn and N. A. Flanders.

Louis Daniel Frenzel, Jr., St. Paul

B.S. '47, M.S. '48, North Texas State Teachers College. Major: Fisheries and Wildlife Management. Minor: Botany. Thesis: A Study of Small-Mammal Populations of State Island, Basswood Lake, Minnesota. Major Adviser: Prof. W. H. Marshall.

James Mann Gaither, Chicago, Ill.

B.A. '47, M.A. '48, University of Chicago. Major: American Studies. Thesis: A Return to the Village: A Study of Santa Fe and Taos, New Mexico, as Cultural Centers, 1900-1934. Major Adviser: Prof. R. F. Spencer.

Harry Merrill Gehman, Jr., Buffalo,
N.Y.

B.S. '52, Union College; M.S. '54, Cornell University. Major: Geology. Minors: Geophysics and Physical Chemistry. Thesis: The Petrology of the Beaver Bay Complex, Lake County, Minnesota. Major Advisers: Profs. S. S. Goldich and G. M. Schwartz.

Charles Jerome Glotzbach, Paxico,
Kan.

B.S. '42, M.S. '50, Kansas State College. Major: Educational Psychology. Minor: Psychology. Thesis: Intellectual and Nonintellectual Characteristics Associated with Persistence of Women in an Elementary and Nursery School Teacher-Education Program. Major Adviser: Prof. C. G. Wrenn.

Audley Mitchell Grossman, Jr.,
Minneapolis

B.A. '47, M.A. '48, Wayne University. Major: Speech and Theater Arts. Minor: Art. Thesis: The Professional Legitimate Theater in Minneapolis from 1890 to 1910. Major Adviser: Prof. F. M. Whiting.

William Henry Gumprecht, Quincy,
Ill.

B.S. with high honors '53, University of Illinois. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Preparation and Some Typical Reactions of Simple Diazine N-Oxides. Major Adviser: Prof. C. F. Koelsch.

Bernard Van Loan Haxby, Minne-
apolis

B.E.E. with distinction '48, M.S. in E.E. '49, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Color Centers in Magnesium Oxide. Major Adviser: Prof. A. J. Dekker.

Lloyd Rulon Hunsaker, Logan, Utah

B.S. '35, Utah State Agricultural College; M.S. '48, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: The Comparative Influence of Sires Used in Artificial Insemination Versus Those Used Naturally on Butterfat Production. Major Adviser: Prof. W. E. Petersen.

Robert John Klug, St. Paul

B.S. *cum laude* '50, College of St. Thomas; M.S. '54, University of Minnesota. Major: Agricultural Botany. Minor: Botany. Thesis: Physiological Studies of Mutants of *Colletotrichum linicolum* Induced by Radiation. Major Advisers: Profs. J. B. Rowell and R. H. Landon.

Horace W. Lundberg, Salt Lake City,
Utah

B.S. '36, M.S. '47, Utah State Agricultural College; M.S.W. '52, University of California. Major: Social Work. Minor: Education. Thesis: Some Distinctive Characteristics of Students Entering Graduate Social Work Education. Major Adviser: Prof. J. C. Kidneigh.

Julian Markels, Chicago, Ill.

Graduate '49, University of Chicago; M.A. '52, University of Minnesota. Major: English. Minor: History. Thesis: The Public and Private Worlds of Shakespeare's Roman Plays. Major Adviser: Prof. L. H. Unger.

Chanchaldas Fatehchand Mataney,
Delhi, India

Graduate '43, Bombay Veterinary College; M.S. '55, University of Minnesota. Major: Veterinary Bacteriology and Public Health. Minor: Bacteriology. Thesis: Studies on the Agent of Infectious Sinusitis of Turkeys and Chronic Respiratory Disease of Chickens. Major Adviser: Prof. B. S. Pomeroy.

Walter Peter Miller, Dickinson, N.D.

B.A. *magna cum laude* '53, University of Minnesota. Major: Organic Chemistry. Minor: Chemistry. Thesis: The Participation of a Neighboring Carboxyl Group in Addition Reactions. Major Adviser: Prof. S. W. Fenton.

Donald S. Moore, College Station,
Tex.

B.S. '38, M.S. '40, Oklahoma Agricultural and Mechanical College. Major: Agricultural Economics. Minor: Economics. Thesis: A Study of the Effect of Individual Motivations and of Farm Business-Household Relationship upon the Organization and Operation of 29 South-eastern Minnesota Farms, 1928-1955. Major Adviser: Prof. G. A. Pond.

Robert Darrell Moulton, Minneapolis

B.A. '47, M.A. '49, University of Minnesota. Major: Speech and Theater Arts. Minor: Scandinavian. Thesis: Choreography in Musical Comedy and Revue on the New York Stage from 1925 through 1950. Major Advisers: Profs. F. M. Whiting and George Amberg.

Anne Winslow Oren, Minneapolis

B.A. '31, University of Minnesota; M.A. '42, University of Chicago. Major: Social Work. Minor: Sociology. Thesis: The Construction of an Instrument for the Measurement of Social Worker Attitudes Associated with Aptitude for Interpersonal Relationships. Major Adviser: Prof. J. C. Kidneigh.

Juan Orjucla-Navarrete, Bogota,
Colombia, South America

Ag. Eng. '41, University of Colombia. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Variability in Reaction of Wheats to Isolates of Races 38 and 48 of *Puccinia graminis* var. *tritici*. Major Advisers: Profs. Helen Hart and J. J. Christensen.

Nagayoshi Oshima, Tokyo, Japan

B.A. '51, Tokyo University; M.S. '53, Colorado Agricultural and Mechanical College. Major: Plant Pathology. Minor: Botany. Thesis: Physiology of *Hypoxylon pruinatum* (Klot.) Cke. Major Adviser: Prof. D. W. French.

William Harry Penney, Kenyon

Pet. Ref. Eng. '51, Colorado School of Mines. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Ethylation of Benzene Extractive Reaction. Major Adviser: Prof. E. L. Piret.

Kenneth George Picha, Atlanta, Ga.

B.S. in M.E. '46, M.S. in M.E. '48, Georgia Institute of Technology. Major: Mechanical Engineering. Minor: Mathematics and Mechanics. Thesis: An Experimental Study of the Flow Between Two Rotating Coaxial Discs. Major Adviser: Prof. E. R. G. Eckert.

Richard LeRoy Pierce, Mundelein,
Ill.

B.S. with honors '49, Michigan College of Mining and Technology; M.S. '54, University of Minnesota. Major: Botany. Minor: Geology. Thesis: Early Upper Cretaceous Plant Microfossils of Minnesota. Major Adviser: Prof. J. W. Hall.

Ernest Aleck Robbins, Boy River

B.Chem. with high distinction, '51, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Free Energy of Hydrolysis of High Energy Phosphates. Major Adviser: Prof. P. D. Boyer.

Marjorie Ryan, Detroit, Mich.

B.A. with distinction '50, M.A. '50, University of Michigan. Major: English. Minor: Philosophy. Thesis: The Tom Jones Hero in Plays and Novels, 1750-1800: A Study of Fielding's Influence. Major Adviser: Prof. L. H. Unger.

Melvin Willard Stromberg, Quamba

B.S. with distinction '53, D.V.M. '54, University of Minnesota. Major: Veterinary Anatomy. Minor: Physiology. Thesis: Studies of Congenital Tremor in Pigs. Major Adviser: Prof. R. L. Kitchell.

James Robert Thompson, Minne-
apolis

B.A. '47, M.A. '51, University of Minnesota. Major: Art. Minor: Speech and Theater Arts. Thesis: Twentieth Century Scene Design: Its History and Stylistic Origins. Major Adviser: Prof. Dimitri Tselos.

Doctor of Philosophy in Medicine

Robert Shields Abernathy, Minne-
apolis

B.S. '49, M.D. '49, Duke University. Major:
Medicine. Minor: Bacteriology. Thesis: The
Role of Bacterial Endotoxin in the Patho-
genesis of Brucellosis. Major Adviser: Dr.
W. W. Spink.

Doctor of Philosophy in Surgery

Richard Harrison Egdahl, Eau Claire,
Wis.

M.D. '50, Harvard University. Major: Surgery.
Minor: Physiology. Thesis: Studies on the
Functional Vascularization of Autografts,
Homografts, and Heterografts. Major Adviser:
Dr. R. L. Varco.



UNIVERSITY OF MINNESOTA

Senior Reception

July 1957

- The members of the Senior Class, their relatives and friends are invited by Dean and Mrs. E. W. Ziebarth to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the main ball-room of the Coffman Memorial Union.
- Those in the receiving line will be Dean and Mrs. Ziebarth, Dr. and Mrs. Rufus A. Putnam, and Miss Virginia Shisler, Senior Coordinator, All-University Congress.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identification.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1957.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.

ACADEMIC COSTUME

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

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

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

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

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

(In the order of march)

General Extension Division	white
General College	crimson and white
College of Science, Literature, and the Arts	white
University College	old gold and white
Institute of Technology	orange

Institute of Agriculture

College of Agriculture, Forestry, and Home Economics	maize
College of Veterinary Medicine	gray
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

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

THE
UNIVERSITY OF MINNESOTA

Announces Its

August Commencement

1957

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, AUGUST 22

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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

This Is Your University

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

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

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

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the University Artists Course, the Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

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

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

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

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

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

The summary financial statement of 1955-56 showed that the University received \$61,304,737.40 and spent \$61,305,615.38. This includes, of course, \$10,303,699.34 received from student tuition and fees, hospital and other departmental receipts; \$1,211,490.47 from intercollegiate athletics; \$10,666,778.11 from such services as dormitories and dining halls, printing, the laundry, University Press, Concerts and Lectures, University Theater, and Health Service and from the revolving funds; and \$13,145,587.04 from trust funds, including gifts, grants, donations, and income from endowments and research contracts for instruction, research, prizes, scholarships, and the care of the sick, as well as from the Permanent University Fund derived from land set aside by the Federal Government and the occupational tax on iron ore. Also, \$1,897,551.05 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$61,304,737.40, which the University received for 1955-56, \$24,079,631.39 came from the state.

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As candidates for degrees and their friends and relatives reach the Minneapolis Campus of the University from 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium, Miss Kathryn Simpson, SLA '58, Carillonneur. Admission to the August Commencement Exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

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

"Now Thank We All Our God" - - - - -	Bach
"Vivace" from <i>Trio Sonata No. 6 in G Major</i> - - - -	Bach
"Allegro" from <i>Concerto in A Minor</i> - - - - -	Vivaldi
"Andante" from <i>Concerto No. 1 in G Minor</i> - - - -	Handel
"Sinfonia" from <i>Solomon</i> - - - - -	Handel
"Andante" from <i>Violin Sonata No. 3</i> - - - - -	Bach

PROCESSIONAL:

"Rigaudon" - - - - -	Campra
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PROCESSION: As candidates for degrees enter the Auditorium at 8:00 p.m., the curtain will be opened. Seated on the stage, left to right, are: Dr. W. Donald Beatty, Associate Professor of History, Marshal; Dr. Selmer A. Engene, Associate Professor of Agricultural Economics, Marshal; Dr. John G. Darley, Associate Dean of the Graduate School; Dr. William B. Lockhart, Dean of the Law School; Mr. Elmer W. Johnson, Assistant Dean of the Institute of Technology; Dr. Alfred L. Vaughan, Associate Dean of General College; Lieutenant Colonel George A. Welch, Assistant Professor of Air Science; Colonel Dean M. Benson, Professor of Military Science; Mr. Romine E. Matthews, Assistant to the Recorder; Dr. Marcia Edwards, Associate Dean of the College of Education; Mr. Richard S. Davis, Director of the Minneapolis Institute of Arts; Dr. J. L. Morrill, President of the University; Dr. Malcolm M. Willey, Vice President in Charge of Academic Administration; The Honorable Charles W. Mayo, Member of the University Board of Regents; the Reverend James Boren, adviser to Presbyterian students and staff members at the Minneapolis Campus of the University of Minnesota; Dr. E. W. Ziebarth, Dean of the Summer Session; Commander Frank W. Ayers, Associate Professor of Naval Science; Dr. Russell M. Cooper, Assistant Dean of the College of Science, Literature, and the Arts; Dr. Harold Macy, Dean of the Institute of Agriculture; Dr. Richard L. Kozelka, Dean of the School of Business Administration; Dr. H. Mead Cavert, Assistant Dean of the College of Medical Sciences; Mr. Richard Halverson, Soloist; and Mr. Robert C. Slater, Director of Mortuary Science, General Extension Division, Marshal.

Order of Events

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

THE NATIONAL ANTHEM (first stanza only): The entire audience and Mr. Richard Halverson, M.M., soloist.

INVOCATION: The Reverend James Boren, B.D., adviser to Presbyterian students and staff members on the Minneapolis Campus of the University of Minnesota.

SPEAKING FOR THE UNIVERSITY: President J. L. Morrill, LL.D., President of the University.

COMMENCEMENT ADDRESS: Mr. Richard S. Davis, A.B., Director of the Minneapolis Institute of Arts, "The Arts in Daily Life."

CONFERRING OF COMMISSIONS: Dr. Malcolm M. Willey, Ph.D., Vice President, Academic Administration, will introduce Colonel Dean M. Benson, USA, Professor of Military Science; Commander Frank W. Ayers, USN, Associate Professor of Naval Science; and Lieutenant Colonel George A. Welch, USAF, Assistant Professor of Air Science, who will present the candidates for commissions in their respective branches of the Armed Services. The oath of office will be given by Lieutenant Colonel Welch; the commissions will be presented by President Morrill.

CONFERRING OF DEGREES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Associate Dean Alfred L. Vaughan, Ph.D., General College; Assistant Dean Russell M. Cooper, LL.D., College of Science, Literature, and the Arts and for University College; Assistant Dean Elmer W. Johnson, M.E., Institute of Technology; Dean Harold Macy, Ph.D., Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean William B. Lockhart, S.J.D., Law School; Assistant Dean H. Mead Cavert, Ph.D., College of Medical Sciences; and Associate Dean John G. Darley, Ph.D., Graduate School.

PRESENTATION OF DIPLOMAS: With Dr. E. W. Ziebarth, Ph.D., Dean of Summer Session, presiding, all members of the August graduating class will pass across the stage to receive their diplomas.

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

Order of Events

“HAIL! MINNESOTA,” the University’s Alma Mater song. The audience and Mr. Halverson.

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

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

RECESSIONAL: Mr. Westenburg.

“Trumpet Voluntary” - - - - - Purcell

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

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Artillery

James Ernest Bailey, St. Paul

Second Lieutenant, Infantry

Robert Milton Larsen, Minneapolis
Harold Wirkkunen, St. Paul

Second Lieutenant, Military Intelligence

Roger Erwin Papke, Minneapolis

Second Lieutenant, Military Police Corps

Edward Gerald Prohofskey, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Ralph O. Schenk, Minneapolis

Ensign, SC, USN

James B. Stoltman, St. Louis Park

Ensign, SC, USNR

Richard V. Fesler, Minneapolis

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

William C. Fowler, Minneapolis
Donald J. Fremming, Minneapolis

Leland P. Madison, Minneapolis
William J. Sharratt, Ogilvie

Candidates for Graduation

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

GENERAL COLLEGE

Associate in Arts

Joanne Aloha Chunn, Willmar
Robert Alvin Cron, Minneapolis
Donald John Hagen, Minneapolis
Fredrick Clyde Hunter, St. Paul
Vincent Theodore Olson, Minneapolis
Donald Gustav Pederson, Minneapolis

John William Potthoff, St. Paul
David Sand Warden, Minneapolis
Thomas Harvey Wilson, Jr., St. Paul
Bing Poy Wong, Minneapolis
John Frederick Wulf, Excelsior

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Judith Morrissette Brueske, Wayzata
Violet Joan Larson, Minneapolis
Hilda Fiske Morrish, St. Paul

Karin Marie Peterson, St. Paul
Evelyn Helen Ploetz, Minneapolis
Harvey Arnold Stucker, Minneapolis

Bachelor of Arts

William John Abresch, St. Paul
Denis Louis Altman, St. Paul
Howard Jay Amsterdam, Minneapolis
Frank Leland Anton, Minneapolis
Santina Bayerle, Bari, Italy, CUM

LAUDE

Robert Lyon Beech, St. Paul
Frank Stanley Berman, Minneapolis
John Leon Briska, Winona
Gerald Edwin Clement, A.A., Austin
Chester Henry Coborn, Detroit Lakes
Helen Jane Colbjornsen, Parkers Prairie

Anna Bachelder Creevy, Minneapolis,
MAGNA CUM LAUDE

Donald Charles Creevy, Minneapolis
John Anthony Dailey, Norfolk, Va.,
CUM LAUDE

John Delich, A.A., Minneapolis

Robert Carl Drake, Hayfield
Valeria Ann Engelbretson, Minneapolis
Merlyn Shields Erickson, Lansing, Ill.
Nancy Jane Freeman, St. Paul, CUM
LAUDE

Anna Fay Rodgers Friedlander, Minneapolis, CUM LAUDE
David Alan Gershaw, Milwaukee, Wis.
Marilyn Jean Grafslund, Minneapolis,
CUM LAUDE

Janet Carol Groth, Austin, CUM LAUDE
Jane Elizabeth Haik, Excelsior
Leonard Lorenz Hedman, Grand Rapids

Dale Arne Henderscheid, Minneapolis
Mary Margaret Herberger, Minneapolis
Mary Louise Hofer, Minneapolis

Helen Elizabeth Johnston, Minneapolis
 Kathleen Marie Jude, Minneapolis
 Konrad John Kaltenbach, Hibbing
 Donald Wilson Keairnes, Minneapolis
 Howard Warren Kilau, St. Paul
 Richard Eugene Kobak, Hopkins
 Jeanne Mae Eleanor Kormanik, Minneapolis
 Kathryn Striker Kuehnl, St. Paul
 John William Laing, Minneapolis
 Denis Lange, Ivanhoe
 William Paul Langford, St. Paul
 Charles Thomas Lauzon, St. Paul
 Burton David Lavine, Dover, N.H.
 James Kenny Lawson, St. Paul
 Jerome Claude Levendowski, A.A., Minneapolis
 Robert Edwin Lindberg, Fosston
 Richard Newton Long, Roxboro, N.C.
 Richard William Loughlin, St. Paul
 Carol Mae Madsen, Minneapolis, CUM LAUDE
 Harold Teruto Matsuura, Waialua, Hawaii
 John David McGill, Wayzata
 Bertram Melvin McGinty, Minneapolis
 Joseph Hugh McGivney, St. Paul
 Arthur William Mulligan, Brainerd
 Cleo Christine Anderson Nachtigall, Park Rapids

Marie Claire Nathan, Minneapolis
 Leo John Noltimier, Jr., St. Paul
 Roger Erwin Papke, Minneapolis
 Elaine Carol Pehrsson, Minneapolis
 William Grant Percy, Minneapolis
 Earl Calvin Petersen, Santa Barbara, Calif.
 Patricia Louise Ponce, St. Paul, CUM LAUDE
 John Louis Prickman, Rochester
 Ralph Kohler Quaschnick, Minneapolis
 Elmer James Ryan, Jr., St. Paul, CUM LAUDE
 Warren William Schaber, St. Paul
 Eugene Phillip Schlerman, Owatonna
 Marvin Joel Sektnan, St. Paul
 Kenneth Eugene Staack, Flandreau, S.D.
 Wayne Elmer Stechmann, A.A., Zumbrota
 James Bernard Stoltman, St. Louis Park, CUM LAUDE
 Sheldon Allen Strand, Minneapolis
 Chancy Su, Tainan, Formosa
 Ronald Edwin Sullivan, Minneapolis
 Dudley William Swedberg, Minneapolis
 George Edward Tschida, St. Paul
 Robert Noel Victorine, St. Paul
 Eva Wahlstrom, Oslo, Norway
 Harold Wirkkunen, St. Paul
 Robert Adolphus Wymore, Pine River

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Russell Stanford Nyquist, Cokato,
 WITH DISTINCTION

Ronald Leslie Sack, Minneapolis

Bachelor of Aeronautical Engineering

William Campbell Fowler, Minneapolis
 Leland Paul Madison, Adrian

James Bradley Murray, Donaldson,
 WITH DISTINCTION

Bachelor of Chemical Engineering

John Henry Clark, St. Paul

Bachelor of Chemistry

Myron Andrew Parsons, Minneapolis

Bachelor of Civil Engineering

James Leslie Daley, Pine City
Richard Dudley Harrison, Hopkins

Frederic Allen Kelley, Garden City

Bachelor of Electrical Engineering

Ronald Frank Dusing, Crystal
Kevin Michael McRaith, Belle Plaine

Richard Waldemar Roeser, St. Cloud,
WITH DISTINCTION

Bachelor of Industrial Engineering

Robert William Clarkson, Grand Rapids

Bachelor of Mechanical Engineering

Richard Glen Anderson, St. Paul
Leon Roger Ekola, St. Paul
Gerald Anthony Fern, Minneapolis
George William Fochringer, St. Paul
Keith Alfred Hanson, Red Wing
Allan Bertil Hegg, Minneapolis

Egil Hoivik, Duluth
Gerald Albert Kane, Minneapolis
Philip James Losinski, Duluth
Charles Harry Peterson, Minneapolis
Lowell Eugene Simons, St. Louis Park
Martin Andrew Virshek, Virginia

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

Bachelor of Science

Frank Douglas Bolstorff, Grand Rapids, Forestry
Joan Clark Forbes, Glenwood, Home Economics, WITH DISTINCTION
Oliver Henry Hagen, Austin, Agriculture
Sandra Child Hamilton, Maynard, Home Economics

Helen Charlotte Hickman, Pine River, Home Economics
Wilfred John Meierhofer, Watkins, Agriculture
Marvin Dale Olson, Pelican Rapids, Agriculture
William John Peters, Appleton, Wis., Forestry, WITH DISTINCTION

COLLEGE OF EDUCATION

Bachelor of Science

Yayoi Akasaka, Minneapolis
James E. Bailey, St. Paul

Vernice L. Bixby Bauer, St. Paul,
WITH HIGH DISTINCTION

Edwin Martin Bonde, Jr., Bemidji
 James M. Boo, A.A., Minneapolis
 Janice Roberta Booker, Minneapolis
 Paul Bernard Brown, A.A., Minneapolis
Blanche Eugenie M. Cook, Saskatoon,
 Canada, WITH DISTINCTION
 Dorothy Norman Davis, Minneapolis
 Sarah June Day, B.S., Compton, Calif.
Virginia E. DeBoer, Owatonna, WITH
 DISTINCTION
 Jerome Eugene Dommeyer, Slayton
 Louise S. Robinson Ewing, Osseo
 Carole Lee Flesher, Minneapolis
 Palma S. Belsaas Foss, Minneapolis
 Rochelle Celia Frisch, St. Paul
 Martha Ann Darm Frye, Duluth
 Marie Louise Goiffon, St. Paul
 Ronald Roger Graham, Hudson, Wis.
 Dent Edmond Green, Jr., Milford,
 Iowa
Eleonora May Sawyer Guzman, St.
 Paul, WITH DISTINCTION
 George Louis Hanson, Superior, Wis.
 Louise Lofgren Hartzberg, Isle
 Magna A. Haugo, Albert Lea
 Gerald Arnold Hedeau, Minneapolis
 Leona Joan Hoines, Langford, S.D.
 Ruth Margaret Humphrey, Ames,
 Iowa *
Maureen Helen Jensen, Rushford,
 WITH HIGH DISTINCTION
 Marjorie Adeline Johnson, St. Paul
Unae Karole Kilgas, Montevideo,*
 WITH DISTINCTION
 Roberta Kaye Klingensmith, Mound
 Mildred Guelda Larson Kluge, Hop-
 kins
 Evelyn Ruth Larson, Minneapolis
 Agnes Odell Lee, Minneapolis
 Ada Ludolph, Pierz

Diane Veridee Miller, Minneapolis
 Florence Edelstein Miller, St. Paul
 Jessie Stranger Murphy, A.A., Minne-
 apolis
 Carolyn Ann Nelson, St. Paul
Esthyr Pauline Nipp, South St. Paul,
 WITH DISTINCTION
 Shigeyo Sally Ohno, Minneapolis,
 WITH DISTINCTION
 Ethel Eldora Oquist, Pengilly *
 Valetta Mae Passe, Minneapolis
 Joanne Elizabeth Peterson, A.A.,
 Battle Lake
 Mary Ann Regan, Minneapolis
ZoeAnn VanAlstine Richardson, Min-
 neapolis, WITH HIGH DISTINCTION
 Vera Bonita Roeseler, Great Falls,
 Mont., WITH HIGH DISTINCTION
 Elaine M. Schlicting, Royalton
 Robert Harold Schmidt, West
 St. Paul
 Lucile Anderson Schuck, Excelsior
 Vernon Doyle Schwarzkopf, Minne-
 apolis
 Barbara Kim Shapiro, St. Paul
 Frances Marie Sullivan, Plato
 Raymond Varner Swanson, Cam-
 bridge, Ill.
 Alice Anderson Teska, Excelsior
 Lillian Lucille Thill, Minneapolis
Myrtle C. Thissen, Blooming Prairie,
 WITH DISTINCTION
 David Bernard Tucker, Superior, Wis.
 James Paul Vomhof, Lester Prairie
DeEtte Lorraine Weseloh, South
 Haven, WITH DISTINCTION
Elinor Kay Trickey Westenburg, Des
 Moines, Iowa, WITH DISTINCTION
 Irene Ruth Winslow, Minneapolis
 Ruth Velma Sipola Zimmerman,
 Robbinsdale *

Master of Education

Marjorie Hazel Daniel Bauer, B.S.N.,
 Phoenix, Ariz.
 Dorothy Irene Burke, B.S.N., Minne-
 apolis *

Elinor Jane Campodonico, B.S.,
 Delhi, Calif.
 Gordon Leigh Dingman, B.S.,
 St. Cloud

* Nursing Education Curriculum.

Gertrude Anne Dubbe, B.S., Jordan *
 Shirley Marilyn Frederickson, B.S.N.,
 East Stanwood, Wash.*
 Marjorie Ann Fredrickson, B.S., Min-
 neapolis
 Geneva Gerischer, B.S., B.A., Minne-
 apolis *
 Helen Bertine Hansen, B.S.N., Still-
 water *
 Austin Stanley Hanson, B.S., Austin
 Ruth Ann Howe, B.S., Minneapolis
 Lily Larson, B.S., New Ulm *
 Frances Daniel Moncure, B.S.N.,
 Minneapolis *
 Harriet Elizabeth Johnson Morgart,
 B.S.N., Mound *

Betty Lorine Mundt, A.A., B.S.,
 Rochester *
 Wesley John Niemi, A.A., B.A.,
 Gilbert
 Gertrude Elizabeth Scheller, B.S.,
 St. Paul *
 Sister Laurice Koering, B.A., Eau
 Claire, Wis.
 Anne Lewis Siversten, B.S.N., Minne-
 apolis *
 Dora Josephine Stohl, B.S.N., Minne-
 apolis *
 Orel Benard Vangen, B.A., Granite
 Falls
 Ona Nellie Ziehli, B.S., Belleville,
 Wis.*

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Hugo Alden Anderson, St. Paul
 Ralph Luke Banke, Stevens Point,
 Wis.
 Paul Owen Engene, Spring Grove
 Ronnie Philips Erhardt, B.A., A.A.,
 Minneapolis
 Charles Eugene Fortman, Minneapolis
 Jerome Le Roy Gaarder, Albert Lea
Lester Granville Gable, Minneapolis,
 WITH DISTINCTION
 Orin Louis Gumbrill, Minneapolis
 Herman Lewis Joern, Minneapolis
 James John Keegan, Minneapolis
 Roger Charles Lane, St. Paul
 Roy Jerome Messelt, Winger
Emmett Edward Mitchell, A.L.A.,
Minneapolis, WITH DISTINCTION

Richard Adrian Moran, Minneapolis,
 WITH HIGH DISTINCTION
 Donald Bernard Mykleby, Eldred
 John W. Olmscheid, Belton, Tex.
 Michael Dean Orensten, Minneapolis
 Roger Melvin Prestemon, Minneapolis
 Edward Carl Radi, Pipestone
 Ennis David Robertson, Minneapolis
 Arnold Jerome Sather, Minneapolis
 Ralph Orlando Schenk, Minneapolis
 Peter Hendriks Steuerwald, Taconite
 James Robert Tschida, A.A., St. Paul
 Donald Warren Wintz, St. Paul
Gaudence Lawrence Worm, Shakopee,
 WITH HIGH DISTINCTION

LAW SCHOOL

Bachelor of Laws

Verdayne W. Benson, B.B.A., Minne-
 apolis
 Howard Wilbur Dahlin, B.S.L., Min-
 neapolis

Max Wayne Frescoln, B.A., Winner,
 S.D.
 Lovell Hamilton May, Jr., B.B.A.,
 St. Paul

* Nursing Education Curriculum.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Lillian Marguerite Amstutz, Minneapolis
Elizabeth Brooke, Des Moines, Iowa
Deidre Ann Brossard, Minneapolis
Elizabeth Gay Coryell, Fargo, N.D.,
WITH HIGH DISTINCTION
Patricia Ann Crawford, Lakefield,
WITH DISTINCTION
Barbara Ann Farm, Mankato, WITH
HIGH DISTINCTION
Marlys Smith Handberg, Pine City

Ruth Leah Havighurst, Chicago, Ill.,
WITH HIGH DISTINCTION
Kathryn Ann Lindall, Westbrook
Beverly May Nordstrom, Minneapolis,
WITH HIGH DISTINCTION
Kathleen Mary Pavey, A.A., Excelsior,
WITH DISTINCTION
Beatrice Rowena Price, Hayes Center,
Neb.
Elizabeth Ann Short, Minneapolis

Bachelor of Science in Nursing Administration

William Gene Kellett, R.N., Iron-
wood, Mich., WITH DISTINCTION
Lucille Jeanette Kirstein, St. Paul,
WITH HIGH DISTINCTION

Marjorie Mary Scanlon, R.N., Minne-
apolis
Lorraine Marie Wickenheiser, St.
Paul, WITH HIGH DISTINCTION

Bachelor of Science

Shirley Esther Anderson, R.N., Chi-
cago, Ill., Public Health Nursing
John Wallace Aughenbaugh, B.A.,
Minneapolis, Medicine
Monica Katherine Bigot, Springfield,
Public Health Nursing
John Blake Campbell, B.A., Minne-
apolis, Medicine
Carl Eugene Christenson, Minne-
apolis, Medicine
Kenneth Halverson, Minneapolis,
Medicine
Marjorie Frances Healy, St. Paul,
Occupational Therapy
Charles Edward Keenan, Jr., St. Paul,
Medicine
Miles Irving Lane, Minneapolis, Medi-
cine
Eileen Shiftness Moulin, St. Paul,
Public Health Nursing
Thomas Francis Mulrooney, St. Paul,
Medicine

Leo Cleora Newman, Superior, Wis.,
Public Health Nursing
Normagene Olinger, Davenport, Iowa,
Public Health Nursing
Robert Lowell Powers, B.A., Roches-
ter, Medicine
Carol Ann Schouweiler, R.N., A.A.,
Minneapolis, Public Health Nurs-
ing, WITH DISTINCTION
Edward Louis Seljeskog, B.A., Minne-
apolis, Medicine
William Nelson Spellacy, A.L.A.,
B.A., Minneapolis, Medicine
Doris Mae Steinle, St. Paul, Public
Health Nursing
Robert Lawrence Telander, Minne-
apolis, Medicine
Solomon Joseph Zak, B.A., Minne-
apolis, Medicine

Master of Nursing Administration

- Mary Parmeter Bjerke, B.S., Minneapolis
Kimi Taguchi Hara, B.S., Minneapolis
Margaret Eleanor Hofstad Harris, B.A., B.S., Sioux Falls, S.D.
Beryl L. Ford Milner, B.S., Hastings
- Betty Marjorie Pederson, B.S., Minneapolis
Julia Sophia Randall, B.S., St. Louis Park
Sister Jeanne Teresa Deiman, B.S., Minneapolis
Sister St. John Fredricks, B.S., St. Paul

Master of Public Health

- Loretto Costello, B.A., Portland, Ore.

Doctor of Medicine

- James Lee Michie, B.A., B.S., Hibbing

GRADUATE SCHOOL

Master of Arts

- Rosalyn Sarah Aaron, St. Paul
B.A. *magna cum laude* '54, B.S. '55, University of Minnesota. Field of Concentration: Educational Psychology.
- Arthur Bruun Aarstad, Braham
B.A. '49, St. Olaf College. Field of Concentration: Political Science.
- Sharlene Agerter, West Concord
B.A. '52, Lindenwood College. Field of Concentration: Area Studies: Latin America.
- Richard Van Allenstein, Minneapolis
B.S. with distinction '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Edmund James Amidon, St. Paul
B.S. '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Eunice Morris Andrews, Dallas, Tex.
B.S. *summa cum laude* '52, Bishop College. Field of Concentration: Educational Psychology.
- Irving Henry Balow, Wabasha
B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Earl Vincent Baumgardner, Helena, Mont.
B.S. '34, Hamline University. Field of Concentration: Educational Administration.
- Yvonne Beaumont, Minneapolis
B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Wallace George Behm, Hudson, Wis.
B.S. '51, Hamline University. Field of Concentration: Educational Administration.
- Janis Schrage Benson, Minneapolis
B.A. '52, Augustana College (Rock Island). Field of Concentration: Speech and Theater Arts.
- Joseph Louis Benson, Evansville
B.A. '41, Gustavus Adolphus College. Field of Concentration: Educational Administration.
- Miyo Ruth Berger, Minneapolis
B.S. '50, University of Illinois. Field of Concentration: Library Science.
- Robert Edwin Brismaster, Oshkosh, Wis.
B.S. *cum laude* '50, Wisconsin State College (Oshkosh); M.Ed. '55, College of St. Thomas. Field of Concentration: Speech and Theater Arts.

Thomas Arthur Browne, Minneapolis
B.A. '52, University of Minnesota. Field of
Concentration: English.

Theodore Louis Brunelle, Gile, Wis.
B.S. '53, Wisconsin State College (Superior).
Field of Concentration: Educational Psychology.

Gloria Juliette Burian, West Liberty,
Iowa
B.S. '54, Iowa State College. Field of Con-
centration: Psychology.

Robert Asa Campbell, North Berwick,
Me.
B.S. in Ind. Arts '54, Gorham State Teachers
College. Field of Concentration: Industrial
Education.

Jane Ann Canavan, Fort Dodge, Iowa
B.A. '56, College of St. Catherine. Field of
Concentration: English.

Robert Milton Christianson, Albert
Lea
B.S. '48, University of Minnesota. Field of
Concentration: Educational Psychology.

Dale Willardean Clark, Madison
B.A. '49, Macalester College. Field of Concen-
tration: Educational Administration.

Gladys Elzora Cline, Glendive, Mont.
B.S. '44, Mankato State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Mary Caroline Combs, North St.
Paul
B.A. *cum laude* '56, University of Minnesota.
Field of Concentration: Library Science.

Amy Eleanore Embertson Cordes,
Bloomington
B.S. with distinction '50, University of Minne-
sota. Field of Concentration: Educational Psy-
chology.

Rose Marie Deutschman, Red Lake
Falls
B.S. '37, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Edith Brita Duckstad, Minneapolis
B.A. '55, Macalester College. Field of Concen-
tration: Library Science.

Minard Parker Edman, Clarkfield
B.S. '38, University of Minnesota. Field of
Concentration: Educational Administration.

Mary June Lothberg Estes, Minne-
apolis
B.S. '45, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Polly Catherine Bartholomew Feigl,
Minneapolis
B.A. with honors '56, B.S. '56, University of
Chicago. Field of Concentration: Statistics.

Doris Virginia Frank, Kansas City,
Mo.
B.A. with highest honors '49, Wheaton Col-
lege. Field of Concentration: English.

Esther Marie Frost, Austin
B.S. '46, Bemidji State Teachers College. Field
of Concentration: Curriculum and Instruction.

William Romaine Fuhrman, Henning
B.S. '38, M.Ed. '46, University of Minnesota.
Field of Concentration: Educational Adminis-
tration.

Robert Allen Gordon, Pueblo, Colo.
B.A. '51, Colorado State College of Education.
Field of Concentration: Industrial Education.

Florence Merrifield Gorton, Duluth
B.A. '30, Valley City State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Anne Grady, Winnipeg, Manitoba,
Canada
B.A. '41, B.E. '51, University of Manitoba.
Field of Concentration: Curriculum and In-
struction.

Joan Carol Graham, Tipp City, Ohio
B.A. '54, Ohio Wesleyan University. Field of
Concentration: Home Economics.

Anne Jeanne Gurvin, Silver Spring,
Md.
B.S. with distinction '53, University of Minne-
sota. Field of Concentration: Library Science.

Betty L. Peterson Haggstrom, Stanch-
field
B.S. with distinction '56, University of Minne-
sota. Field of Concentration: Library Science.

Lyle Willard Hanks, St. Louis Park
B.A. '52, Hamline University. Field of Concentration: Educational Administration.

Charles Edward Harwood, Moorhead
B.S. '56, Moorhead State Teachers College. Field of Concentration: Industrial Education.

Richard Lewis Heath, Minneapolis
B.A. *cum laude* '52, University of Minnesota. Major: History. Minor: Political Science. Thesis: History of the Minneapolis Fire Department, 1851-1916.

John Fedje Helling, Brainerd
B.S. '50, Hamline University. Field of Concentration: Educational Psychology.

Calvin Ray Hershner, Kansas City, Kan.
B.S. '51, University of Kansas. Field of Concentration: Educational Psychology.

Kenneth Norman Hohl, Milwaukee, Wis.

B.S. '50, Milwaukee State Teachers College. Field of Concentration: Curriculum and Instruction.

David Lee Horton, St. Paul
B.A. '55, University of Minnesota. Field of Concentration: Psychology.

Nell-Marie Hoyem, Spring Valley
B.A. *cum laude* '27, St. Olaf College. Field of Concentration: Education.

Chia-shih Hsu, Feng, Kiangsi, China
B.L. '47, National Chengchi University. Field of Concentration: Journalism.

John Albert Hutchins, Minneapolis
B.A. '51, University of Minnesota. Field of Concentration: Psychology.

Iver Paul Iversen, St. Paul
B.A. '52, Concordia College. Field of Concentration: Greek.

Adelie Roelofs Jackson, Harmony
B.A. '52, Iowa State Teachers College. Field of Concentration: Education.

James Edward Jensen, Merced, Calif.
B.S. '50, University of Minnesota. Field of Concentration: Educational Administration.

Ralph Peter Jensen, St. Paul
B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

William Russel Jensen, Friendship, Wis.
B.S. '56, Wisconsin State College (River Falls). Field of Concentration: Curriculum and Instruction.

Della Marie Johnson, Buffalo, Wyo.
B.A. '48, Marion College; B.S. '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Gene Ann Johnson, Minneapolis
B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

David Lachlan Jones, Minneapolis
B.A. '50, Pacific University. Field of Concentration: Political Science.

Edwin Gary Joselyn, Randolph, Neb.
B.S. '51, University of Nebraska. Field of Concentration: Educational Psychology.

Mary Louise Keegan, Minneapolis
B.S. '39, University of Minnesota. Field of Concentration: Art Education.

Robert Wayne Kenny, Stephenville, Tex.
B.J. with honors '53, University of Texas. Field of Concentration: History.

Shirley Strum Kenny, Tyler, Tex.
B.A. with highest honors '55, B.J. with high honors '55, University of Texas. Field of Concentration: English.

John Donald King, Minneapolis
B.A. '52, Fresno State College. Field of Concentration: Curriculum and Instruction.

Mary Frances Knowles, Morris
B.A. '54, University of Minnesota. Field of Concentration: Library Science.

Erling Harland Kolke, Moorhead
B.A. '52, Concordia College. Field of Concentration: Educational Administration.

Matthew Theodore Lahti, Eveleth
B.S.S. *cum laude* '31, St. Mary's College. Field of Concentration: Curriculum and Instruction.

William Loren Lakie, St. Charles
B.A. '50, Hamline University. Field of Concentration: Physical Education.

Paul John Lampi, Duluth

B.A. *cum laude* '50, B.S. *cum laude* '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Mary Ann Landau, St. Louis, Mo.

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

Marilyn Josephine Larson, Lindstrom

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

Basil Philip Lillestol, Barney, N.D.

B.A. *magna cum laude* '50, University of Minnesota. Field of Concentration: Music.

Alice G. Lomoe, Superior, Wis.

B.E. '32, Wisconsin State College (Superior). Field of Concentration: Curriculum and Instruction.

Frederick Charles Markwardt, Jr., Ironton

B.A. '52, Carleton College. Field of Concentration: Educational Psychology.

Melvin Louis Marr, Minneapolis

B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Nirmal Minz, Anwratoly (Ranchi) India

B.A. '50, Patna University. Major: Anthropology. Minor: Philosophy. Thesis: The Messiah or the Prophet in Nativistic Movements.

Stanley Arthur Mittelstadt, Albert Lea

B.S. '49, Mankato State Teachers College. Field of Concentration: Educational Administration.

Norman Arnold Moen, Fargo, N.D.

B.S. '54, North Dakota Agricultural College. Field of Concentration: Educational Administration.

Russell Frederick Moratz, Hartford, Wis.

B.S. '48, Oshkosh State Teachers College. Field of Concentration: Educational Administration.

Richard Arthur Morris, St. Charles

B.A. '52, Macalester College. Major: History. Minor: Education. Thesis: The Political Role of the Duke de Morny During the Second Empire.

Dorothy Ann Morrow, Erie, N.D.

B.S. '53, North Dakota Agricultural College. Field of Concentration: Speech and Theater Arts.

Charlotte Mostrom, Northfield

B.A. '29, St. Olaf College; B.S. '37, University of Minnesota. Field of Concentration: Library Science.

Mernes Marilyn Mueller, St. Paul

B.A. '55, B.S. '56, University of Minnesota. Field of Concentration: Art Education.

Harriet Anna Murray, St. Paul

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

Luella Mary Nault, Ishpeming, Mich.

B.S. *cum laude* '48, Northern Michigan College of Education. Field of Concentration: Home Economics.

Emogene Anita Nelson, River Falls, Wis.

B.S. with honors '47, Wisconsin State College (La Crosse). Major: Physical Education. Minor: Educational Psychology. Thesis: A Comparison of Two Tests of Motor Ability for College Women.

Eugene Sigfred Norlander, Duluth

B.S. *cum laude* '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

George Andrew Olkhovsky, Minneapolis

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

Rolf Gerhard Olsen, Onamia

B.A. '30, Luther College. Field of Concentration: Educational Administration.

Harry Olson, Jr., Echo

B.B.A. '45, B.S. '48, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Arthur Laurence O'Neil, Rochester

B.S. with honors '51, Winona State Teachers College. Field of Concentration: Educational Administration.

Dale Carl Paul, Ventura, Calif.

B.S. in Law '48, B.S. '50, University of Minnesota. Field of Concentration: Educational Administration.

Anna Mae Postle, Ashland, Ohio

B.S. in Educ. '40, Ohio State University. Field of Concentration: Curriculum and Instruction.

Ruth Quigley, Hibbing

B.A. '17, University of Nebraska; M.A. '35, University of Minnesota. Field of Concentration: Educational Psychology.

Rolf Carl Rasmussen, Minneapolis

B.S. '49, Dickinson State Teachers College. Field of Concentration: Educational Administration.

Edgar Carl Reinke, Valparaiso, Ind.

B.A. '28, Ph.D. '34, University of Chicago. Field of Concentration: Library Science.

John William Richey, Seattle, Wash.

B.A. '50, Seattle Pacific College. Field of Concentration: Psychology.

Edward Henry Rybnicek, Minneapolis

B.A. '49, Denison University. Major: Sociology. Minor: History. Thesis: An Approach to Differences in Cooperation Among Protestant Denominations.

Douglas Elton Sautbine, St. Paul

B.S. with distinction '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Betty Joanne Scarborough, Crete, Ill.

B.A. '51, De Pauw University. Field of Concentration: Home Economics Education.

Frank John Schneider, Minneapolis

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

William Jean Schrankler, St. Paul

B.A. '53, B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

M. Eldon Schultz, Cambridge

B.S. '49, University of Omaha. Field of Concentration: Speech and Theater Arts.

Jay Ronald Schuster, St. Paul

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

Naim Arsanious Sefein, Cairo, Egypt

B.Sc. '48, University of Cairo; B.A. '54, American University at Cairo. Field of Concentration: Educational Psychology.

Donald Stansfield Sheffield, St. Paul

B.A. '50, Hamline University. Field of Concentration: Speech and Theater Arts.

Jo Anne Shekleton, Greene, Iowa

B.S. '50, College of St. Catherine. Field of Concentration: Curriculum and Instruction.

Emil Shipka, Calumet

B.S. in Econ. '54, B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Omer James Sieben, Melrose

B.A. '40, St. John's University. Field of Concentration: Educational Administration.

Sister Marie Pierre Benoit, St. Paul

B.A. '46, College of St. Catherine. Field of Concentration: Art Education.

Sister Paula Reiten, St. Joseph

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

Elizabeth Sawatsky Smith, Minneapolis

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

Jo Anne Smith, Minneapolis

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

Ray Wallace Smith, Minneapolis

B.A. *cum laude* '37, Hamline University; M.A. '48, University of Minnesota. Field of Concentration: Library Science.

Robert Gall Smith, Montevideo

B.A. '51, Hamline University. Field of Concentration: Curriculum and Instruction.

Eugene Francis Snyder, Miami, Fla.

B.A. '51, M.S. '53, University of Minnesota. Field of Concentration: Mathematics.

Herbert W. Sommer, Minneapolis

Graduate '49, University of Marburg (Germany). Field of Concentration: German.

Elvera Mildred Springer, Golden Valley

B.S. with distinction '32, University of Minnesota. Field of Concentration: Educational Psychology.

Bernadette Elizabeth Steffes, Austin
B.E. '39, Winona State Teachers College.
Field of Concentration: Curriculum and In-
struction.

Reuben Victor Stohs, Oak Park, Ill.
B.S. '47, Concordia Teachers College. Field of
Concentration: Physical Education.

Helen Elizabeth Stub, Minneapolis
B.S. '48, University of Minnesota. Field of
Concentration: Library Science.

Lorraine Delores Sundal, Albert Lea
B.S. with distinction '51, University of Minne-
sota. Field of Concentration: Education.

Joyce Edna Truax, Minneapolis
B.S. '52, Winona State Teachers College. Field
of Concentration: Curriculum and Instruction.

Harriet Fels Vagle, Minneapolis
B.S. with distinction '51, University of Minne-
sota. Field of Concentration: Curriculum and
Instruction.

Rosemarie Van Dyck, Des Moines,
Iowa
B.A. '52, Clarke College. Major: Spanish.
Minor: French. Thesis: The Picaresque in
Goldós' Concept of Naturalism.

Roy Herbert Wahlberg, White Bear
Lake
B.S. *cum laude* '51, Gustavus Adolphus Col-
lege. Field of Concentration: Educational Ad-
ministration.

David Lee Waldemar, Rochester
B.A. '56, University of Minnesota. Field of
Concentration: Library Science.

Dawn Skarnes Wanous, Minneapolis
B.S. '54, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Robert Henry Whittier, Ventura,
Calif.
B.S. '45, Miami University. Field of Con-
centration: Curriculum and Instruction.

John Weir Willcoxon III, Richmond,
Va.
B.A. *cum laude* '52, Washington and Lee Uni-
versity. Field of Concentration: Speech and
Theater Arts.

Agnita Greisen Wright, Minneapolis
B.A. '36, New Jersey College for Women;
M.S. in Soc. Adm. '41, University of Pitts-
burgh. Field of Concentration: Curriculum and
Instruction.

Mary Jean Zamboni, Owatonna
B.S. '48, Winona State Teachers College. Field
of Concentration: Art Education.

Master of Arts in Public Administration

John Keith Franzen, Minneapolis
B.A. *magna cum laude* '56, University of Min-
nesota. Field of Concentration: Public Admin-
istration.

Master of Fine Arts

John Wynne, Minneapolis
B.A. '48, University of Minnesota. Major: Art.
Minor: English. Thesis: Color: Some Aspects
of Its Theory and Application in the Art of
Painting.

Master of Science

Edwin Ernest Anderson, Bound
Brook, N.J.

B.S. '51, Rutgers University. Major: Geology. Minor: Mining Engineering. Thesis: Petrography and Petrology of Some Bed-Rock Types in Becker and Ottertail Counties, Minnesota.

Frederick Joseph Bollag, Minneapolis

B.Aero.E. '50, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Slipping of Wedge Bodies.

Wayne Virgil Broecker, New Richland

B.S. '53, University of Minnesota. Field of Concentration: Agricultural Education.

Robert Ray Brown, Winona

B.S. *summa cum laude* '54, St. Mary's College. Major: Physics. Minor: Mathematics. Thesis: Studies in the Linearity of Electron Multipliers.

James Wheeler Chapman, Mankato

B.S. with high distinction '55, University of Minnesota. Major: Soils. Minor: Mathematics. Thesis: An Investigation of the Efficacy of Some Nitrogen Containing Fertilizer Materials Prepared from Minnesota Peat.

Paul Miller Day, Northfield

B.S. '53, University of Minnesota. Field of Concentration: Agricultural Education.

Lowell Alvin Doebbert, Glenwood

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

Alexander Douglas Drysdale, Glasgow,
Scotland

B.Sc. '55, University of Glasgow. Field of Concentration: Dairy Husbandry.

Glenn Dewey Edin, Staples

B.S. '50, North Dakota Agricultural College. Field of Concentration: Agricultural Education.

Robert Bruce Ferguson, St. Paul

B.A. '52, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Studies on the Biotin Requirements of a Mutant Strain of *Escherichia coli*.

Richard Allan Frederiksen, Belview

B.S. '55, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: The Nature and Causes of Boll Blight of Flax.

Naurine Requist Higgins, St. Paul

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

Burton Carlyle Jacobson, Vallejo,
Calif.

B.S. '46, Gustavus Adolphus College. Field of Concentration: Botany.

Roger Gayle Lambert, Minneapolis

B.S. '53, University of Minnesota. Major: Plant Pathology and Agricultural Botany. Minor: Botany. Thesis: The Effect of Certain Temperature Treatments on Fruit Development in *Pisum sativum*.

Rashad Mustafa Natour, Tulkarm,
Jordan

B.S. '55, Kansas State College. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Some Biological Properties of Extracts from Wheat Stem Rust (*Puccinia graminis* Var. *Tritici Erikss.* and *Henn.*) that Are Toxic to Wheat.

Stanley W. Nelson, Thief River Falls

B.S. '37, University of Minnesota. Field of Concentration: Agricultural Education.

Beverly Jane Paulson, Amery, Wis.

B.S. '51, University of Minnesota. Field of Concentration: Home Economics.

Donald Herbert Scott, Dearborn,
Mich.

B.S.F. with honors '56, Michigan College of Mining and Technology. Major: Forestry. Minor: Biostatistics. Thesis: The Effect of Temperature and Precipitation Upon the Radial Growth of Red Pine in Northern Minnesota.

Charlio Surasiti, Bangkok, Thailand

B.S. '50, Chulalongkorn University. Field of Concentration: Analytical Chemistry.

William Smith Teter, Bartley, Neb.

B.S. '49, University of Nebraska. Major: Animal Husbandry. Minor: Veterinary Anatomy. Thesis: The Influence of Three Week Weight on Eight Week Weight of Pigs Weaned at Three Weeks of Age.

James Tearle Threinen, St. Paul
B.S. with special honor '56, Winona State Teachers College. Major: Agricultural Botany. Minor: Botany. Thesis: The Use of Irradiation in Studying the Life History and Pathogenicity of Two Varieties of *Diaporthe phaseolorum*.

Robert White Weik, Morgantown, W.Va.

B.S. '55, West Virginia University. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: Melting Properties of Cheddar Cheese.

Master of Science in Aeronautical Engineering

Gerald Michael Hanley, St. Paul

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

Master of Science in Agricultural Engineering

Karl Alf Loken, Vollebakk, Norway
Graduate '48, Agricultural College of Norway. Major: Agricultural Engineering. Minor: Agronomy. Thesis: Silage Acid Resistance of Concrete with Admixtures.

Herbert August Peterson, Cumberland Center, Me.

B.S. in Ag.E. with highest distinction '56, University of Maine. Field of Concentration: Agricultural Engineering.

Master of Science in Civil Engineering

Lloyd Vaughn Beling, Minneapolis
B.S. '53, North Dakota Agricultural College. Major: Civil Engineering. Minor: Mathematics. Thesis: Plastic and Elastic Analysis of a Continuous Beam.

Ivan Restrepo, Colombia, South America

B.S. in C.E. '51, University of Cauca. Field of Concentration: Civil Engineering.

Hotten Arthur Elleby, Minneapolis
B.C.E. '56, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: The Structural Investigation of a 360° Circular Steel Girder (with a Hollow Rectangular Cross Section).

Russell Harry Susag, Mound

B.C.E. with distinction '56, University of Minnesota. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Jerome Howell Prah, New Ulm

B.S. '53, D.D.S. '53, University of Minnesota. Major: Dentistry. Minor: Physiological Chemistry. Thesis: A Study of "Protected" and "Unprotected" Enamel Surfaces of Teeth after Cementation of Orthodontic Bands.

Master of Science in Electrical Engineering

Guy Eugene Adams, Evansville, Ind.
B.S.M.E. '42, B.S.E.E. '49, Purdue University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Frequency Response and Harmonic Analysis of Gain Equalized Servomechanisms.

William Edward Swanson, St. Paul

B.S. with high distinction '55, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Natural Magnetic Spectrum of Some Gamma Ferric Oxide Powder and Paraffin Mixtures in the 1000 to 4000 Megacycle/second Range.

Master of Science in Medicine

Roderick Walker Cook, Jr., Harrisburg, Pa.

B.S. '44, Lock Haven Teachers College; B.S. '47, Pennsylvania State College; M.D. '51, Temple University. Major: Medicine. Minor: Pathology. Thesis: A Study of the Electrocardiographic Findings in Acute Subendocardial Myocardial Infarctions: A Clinico-pathological Study.

Richard Woolsey Hill, Lancaster, Pa.

B.S. '49, Franklin and Marshall College; M.D. '53, Jefferson Medical College. Major: Medicine. Minor: Physiology. Thesis: A Quantitative Study of the Concentration of Histamine in the Gastric Mucosa of Dogs, Tested during Secreting and Non-secreting States.

Horace Kohman Ivy, Rochester

B.S. '46, M.D. '51, Northwestern University. Major: Medicine. Minor: Physiology. Thesis: Attempts to Alter the Concentration of Melanocyte-stimulating Hormone in the Pituitary Gland of the Rat.

James Walter Messer, Watertown, S.D.

B.A. '49, University of South Dakota; M.D. '53, Johns Hopkins University. Major: Medicine. Minor: Pathology. Thesis: Causes of Death and Pathological Findings in Bronchial Asthma.

Richard Taylor Messick, Ashville, Ohio

B.A. '50, M.D. '53, Ohio State University. Major: Medicine. Minor: Pathology. Thesis: The Renal Lesions of Bacterial Endocarditis.

Inge Eleanore Mook, Goettingen, Germany

M.D. '52, University of Goettingen. Major: Medicine. Minor: Anatomy. Thesis: Ventricular Septal Defect with Pulmonary Hypertension.

Alfredo A. Ramirez de Arellano, San Juan, Puerto Rico

B.S. '45, University of Puerto Rico; M.D. '50, Harvard University. Major: Medicine. Minor: Physiology. Thesis: Measurement of Pulmonary Flow Using the Indicator-Dilution Technic in Patients with Central Arteriovenous Shunt.

Master of Science in Orthopedic Surgery

Charles Anthony Porretta, Detroit, Mich.

B.S. '47, M.D. '51, University of Michigan. Major: Orthopedic Surgery. Minor: Surgical Pathology. Thesis: Sarcoma in Paget's Disease of Bone.

Master of Science in Pediatrics

Daniel Wright Shea, Rochester

M.D. '51, St. Louis University. Major: Pediatrics. Minor: Hematology. Thesis: Lymphosarcoma and Acute Lymphatic Leukemia in Childhood: A Comparative Study with Particular Reference to Bone Marrow and Blood Smear Morphology.

Master of Science in Radiology

Gerald Norbert Hofmann, Albany

M.D. '47, Marquette University. Major: Radiology. Minor: Surgical Pathology. Thesis: Clinical and Radiological Aspects of Pleural Mesothelioma.

Frank Raymond Raynak, Rochester

B.A. '43, Washington and Jefferson College; M.D. '47, Temple University. Major: Radiology. Minor: Surgical Pathology. Thesis: The Roentgen Diagnosis of Cartilaginous Tumors of the Bony Thorax and Scapula.

Master of Science in Surgery

Robert Cote, Quebec, Canada

B.A. '46, St. Charles Garnier; M.D. '51, Laval University. Major: Surgery. Minor: Surgical Pathology. Thesis: Carcinoma of the Stomach after Gastric Resection for Peptic Ulcer.

Victor Adolph Gilbertsen, Minneapolis

B.A. '48, Hamline University; B.S. '50, M.D. '53, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Carcinoma of the Rectum: A Sixteen Year Study and an Evaluation of the Curative Achievements of Present Day Surgical Therapy.

Samuel Wynne Hunter, St. Paul

B.A. '43, Cornell University; M.D. '47, University of Rochester. Major: Surgery. Minor: Cancer Biology. Thesis: Zirconium Compounds in Vital Staining and Screening of Organic Dyes for Cancer Detection.

Master of Social Work

Constance Olson Coffland, Battle Lake

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

Catherine Woodard, Little Rock, Ark.

B.A. '52, Agricultural, Mechanical and Normal College (Arkansas). Field of Concentration: Social Work.

Specialist in Education

Inest Russell Dwayne Anderson, Two Harbors

B.A. '42, Gustavus Adolphus College; M.A. '51, University of Minnesota. Field of Concentration: Educational Administration.

Doctor of Philosophy

John Francis Borriello, Everett, Mass.

B.A. '52, M.Ed. '53, Boston University. Major: Speech Pathology. Minor: Psychology. Thesis: A Study of the Relationship Between Personal Value and the Selection of Words Presented Dichotically at a Supra Threshold Level. Major Adviser: Prof. E. H. Henrikson.

Robert N. Campbell, St. Paul

B.S. with distinction '52, M.S. '54, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Studies on the Biology of Some Wood-Staining Fungi. Major Advisers: Profs. C. M. Christensen and D. W. French.

Paul Harrison Cashman, St. Paul

B.S.L. '48, M.A. '50, University of Minnesota. Major: Speech and Theater Arts. Minor: Political Science. Thesis: A Preliminary Study of the Evaluative Acts of Fundamentals of Speech Students. Major Adviser: Prof. W. S. Howell.

Paul Myung-Ha Chung, St. Paul

B.S. in M.E. with high distinction '52, M.S. in M.E. '54, University of Kentucky. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Formation of Frost and Heat Transfer Along the Circumference of a Circular Cylinder in a Humid Air Cross Flow. Major Adviser: Prof. A. B. Algren.

Richard Drinnon, Minneapolis

B.A. *summa cum laude* '50, Willamette University; M.A. '51, University of Minnesota. Major: American Studies. Thesis: Emma Goldman: A Study in American Radicalism. Major Adviser: Prof. M. Q. Sibley.

John Eugene Haas, Upland, Calif.

B.A. *cum laude* '50, Upland College; M.A. '53, University of California at Los Angeles. Major: Sociology. Minor: Anthropology. Thesis: Role Consensus and Disharmony in Hospital Work Groups. Major Adviser: Prof. R. G. Francis.

Walden Leo Heino, Coleraine

B.S. with high distinction '53, University of Minnesota. Major: Inorganic Chemistry. Minor: Chemistry. Thesis: Metal Complexes with o-Xylylenediamine and Homo-o-Xylylenediamine. Major Adviser: Prof. R. C. Brasted.

Henry Allen Hill, Texas City, Tex.

B.S. '53, University of Houston; M.S. '56, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Experimental Determination of the p-y Angular Correlations in the $Si^{28}(d,py)Si^{29}$ Reaction. Major Adviser: Prof. J. M. Blair.

Austin Curwood Hoggatt, Poughkeepsie, N.Y.

B.S. '51, Northwestern University; M.A. '54, University of Minnesota. Major: Economics. Minor: Statistics. Thesis: Simulation of the Firm. Major Adviser: Prof. Leonid Hurwicz.

Carlo Michael Ignoffo, Chicago, Ill.

B.S. '50, Northern Illinois State Teachers College; M.S. '54, University of Minnesota. Major: Entomology. Minor: Plant Pathology. Thesis: The Life History and Gall Development of *Mordwilkoja vagabunda* Walsh, (Homoptera: Aphididae), on *Populus deltoides* Marsh. Major Adviser: Prof. A. C. Hodson.

Manly Johnson, Tulsa, Okla.

B.A. '46, University of Michigan; M.A. '50, Johns Hopkins University. Major: American Studies. Thesis: The Visual and Visionary in the Work of James Fenimore Cooper. Major Adviser: Prof. Bernard Bowron.

Linley Edward Juers, St. Paul

B.S. '53, M.S. '54, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Operating Costs of Butter-Powder Plants with Particular Reference to the Problem of Joint Costs. Major Adviser: Prof. E. F. Koller.

William James Kenny, St. Paul

B.S.Ch.E. with distinction '52, Purdue University. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Energy-New Surface Relationship in the Crushing of Solids, VII. Slow Compression Crushing of Single Particles of Glass. Major Adviser: Prof. A. J. Madden.

John Wilson Lee, Perth, Australia

B.Sc. '47, B.Sc. (Honours) '48, University of Western Australia. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Fermentation Studies on the Sponge and Dough and Stable Ferment Methods of Bread Manufacture. Major Adviser: Prof. W. F. Geddes.

George James McCutcheon, Minneapolis

B.S. with distinction '33, M.A. '45, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Analytical Study of Achievement in Grade Eight General Science and in Grade Eight General Mathematics in Minnesota Public Schools. Major Adviser: Prof. P. O. Johnson.

Robert Ernest Miller, Bryan, Tex.

B.A. with high honor '47, Northeastern University; M.A. '48, Boston University. Major: Psychology. Minor: Philosophy. Thesis: An Analysis of Certain Psychogrammatical Categories in Expository Verbal Situations. Major Adviser: Prof. J. J. Jenkins.

Orville Theodore Murphy, Jr., Louisville, Ky.

B.A. '50, University of Louisville; M.A. '51, University of Minnesota. Major: History. Minors: English and French. Thesis: French Contemporary Opinion of the American Revolutionary Army. Major Adviser: Prof. J. B. Wolf.

Ntinios Cleovoulou Myrianthopoulos,
Limassol, Cyprus

B.S. '52, George Washington University; M.S. '54, University of Minnesota. Major: Zoology. Minors: Biostatistics and Pathology. Thesis: A Genetic Study of Multiple Sclerosis in Twins and Their Relatives. Major Adviser: Prof. S. C. Reed.

Myrne Burdett Nevison, Vancouver,
Canada

B.A. '39, University of British Columbia. Major: Educational Psychology. Minor: Education. Thesis: Differing Perceptions of Residence Counseling. Major Adviser: Prof. C. G. Wrenn.

Steve Pawluk, Egremont, Alberta,
Canada

B.Sc. with distinction '53, M.Sc. '55, University of Alberta. Major: Soils. Minor: Forestry. Thesis: A Study of Some Forest Soil Characteristics and Their Relations to Jack Pine Growth. Major Adviser: Prof. H. F. Arneaman.

James Jay Ryan III, St. Paul

B.A. '51, M.A. '54, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Experimental Comparison of Response Transfer Facilitated by Meaningfully Similar and Associated Verbal Stimuli. Major Adviser: Prof. J. J. Jenkins.

Neil Elliot Salisbury, Minneapolis

B.A. '52, University of Minnesota. Major: Geography. Minor: Geology. Thesis: A Generic Classification of Landforms of Minnesota. Major Adviser: Prof. J. R. Borchert.

Allan Frank Schneider, Oak Park, Ill.

B.S. '48, Beloit College; M.S. '51, Pennsylvania State College. Major: Geology. Minor: Soils. Thesis: Pleistocene Geology of Part of Central Minnesota. Major Adviser: Prof. H. E. Wright, Jr.

Charlio Surasiti, Bangkok, Thailand

B.Sc. '50, Chulalongkorn University; M.S. '57, University of Minnesota. Major: Analytical Chemistry. Minor: Chemistry. Thesis: The Catalytic Determination of Ruthenium. Major Adviser: Prof. E. B. Sandell.

Edward Anthony Usenik, Eveleth

B.S. '50, D.V.M. '52, University of Minnesota. Major: Veterinary Medicine. Minor: Pathology. Thesis: Sympathetic Innervation of the Head and Neck of the Horse; Neuropharmacological Studies of Sweating in the Horse. Major Adviser: Prof. R. L. Kitchell.

A. Vincent Weber, La Crosse, Wis.

B.E. '50, M.S. '52, Duquesne University. Major: Botany. Minor: Plant Genetics. Thesis: Growth of the Shoot Apex in Dwarf-1 and Its Normal Segregates in Four Inbred Lines of Maize. Major Adviser: Prof. E. C. Abbe.

Brom Weber, New York, N.Y.

B.S. in S.S. '38, College of the City of New York; M.A. '55, University of Wyoming. Major: American Studies. Thesis: A Study of the Conspiracy between Elbert Hubbard and His Times. Major Adviser: Prof. Bernard Bowron.

Roy Dell Wilcoxson, Logan, Utah

B.S. '53, Utah State Agricultural College; M.S. '55, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: A Study of Penetration by *Puccinia graminis* Var. *tritici*. Major Adviser: Prof. J. J. Christensen.

David Zeitlin, Minneapolis

B.Ch.E. '45, B.B.A. '48, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Behavior of Conformal Maps Under Analytic Deformation of the Domain. Major Adviser: Prof. S. E. Warschawski.

Richard Alan Zeleny, Nutley, N.J.

B.S. with distinction '52, M.S. '54, Worcester Polytechnic Institute. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: A Study of the Dissipation of Energy in Single Particle Crushing. Major Adviser: Prof. A. J. Madden.

Raimunds Zemjanis, Jelgava, Latvia

D.V.M. '48, Royal Veterinary College (Sweden). Major: Veterinary Medicine. Minor: Pharmacology. Thesis: The Effect of Enzyme Inhibitors and Growth Factors on *Vibrio fetus*, *Proteus vulgaris* and *Pseudomonas aeruginosa* as Related to the Diagnosis of Bovine Vibriosis. Major Adviser: Prof. H. H. Hoyt.

David Mandeen Zipoy, Minneapolis

B.S. with high distinction '54, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Elastic Scattering of Protons from Carbon Thirteen. Major Adviser: Prof. G. D. Freier.

Doctor of Philosophy in Medicine

Otto Peter Schumacher, Stockton,
N.J.

B.A. '49, Dartmouth College; M.D. '52, Johns Hopkins University. Major: Medicine. Minor: Physiology. Thesis: A Study of Iodine Metabolism in Thyroid Slices of Patients with Disorders of the Thyroid Gland. Major Adviser: Dr. Alexander Albert.

Max Harry Weil, New York, N.Y.

B.A. '48, University of Michigan; M.D. '52, State University of New York. Major: Medicine. Minor: Physiology. Thesis: Investigations on Shock Due to Bacterial Infection, with Special Reference to the Role of Endotoxin from Gram-negative Microorganisms. Major Adviser: Dr. W. W. Spink.

Doctor of Philosophy in Surgery

Rene Boris Menguy, Paris, France

M.D. '49, University of Paris. Major: Surgery. Minor: Pathology. Thesis: On the Physiology of the Pancreatic and Biliary Ducts in the Dog. Major Adviser: Dr. R. L. Varco.

Academic Costume

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

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

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

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

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

(In the order of march)

General College	crimson and white
College of Science, Literature, and the Arts	white
University College	old gold and white
Institute of Technology	orange

Institute of Agriculture

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

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



UNIVERSITY OF MINNESOTA

Senior Reception

August 1957

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. James Lewis Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the main ballroom of the Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Morrill, Mr. Richard S. Davis, and Mr. Gary Fileman, Vice President, All-University Congress.
- Assisting in the Reception are members of the All-University Congress; Grey Friars and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identification.
- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed pages will be bound and preserved by the class of 1957.
- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.

THE
UNIVERSITY OF MINNESOTA

Announces Its

December Commencement

1957

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, DECEMBER 19

AT EIGHT O'CLOCK



University of Minnesota

THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. William T. Middlebrook, Secretary

Mr. Clarence E. Larson, Assistant Secretary

Mr. Laurence R. Lunden, Treasurer

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

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

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gainey, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Marjorie J. Howard, Excelsior

The Honorable Lester A. Malkerson, Minneapolis

The Honorable Charles W. Mayo, Rochester

The Honorable Karl G. Neumeier, Stillwater

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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

This Is Your University

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

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

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

THE UNIVERSITY is recognized as the cultural hub of the Northwest; it is the home of the University Artists Course, the Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

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

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

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

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

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

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

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

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As candidates for degrees and their friends and relatives reach the Minneapolis Campus of the University from 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium, Miss Kathryn Simpson, SLA '58, carillonneur. Admission to the December commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

ORGAN RECITAL: From 7:30 to 8:00 p.m. Assistant Professor of Music and University Organist Edward Berryman, M.A., will play:

"Vom Himmel hoch" - - - - -	Pachelbel
"Nun komm' der Heiden Heiland" - - - - -	Bach
"In dulci jubilo" - - - - -	Bach
Christmas—A Fantasy - - - - -	Dethier

PROCESSIONAL: Traditional Christmas Music

ON THE STAGE: As candidates for degrees enter the Auditorium at 8:00 p.m., the curtain will be opened. Seated on the stage, left to right, are: Associate Professor W. Donald Beatty, Ph.D., History, Marshal; Instructor Douglas M. Dearden, M.A., Biological Science in the General College, Marshal; Associate Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Walter W. Cook, Ph.D., College of Education; Associate Dean Benjamin J. Lazan, Ph.D., Institute of Technology; Associate Dean Alfred L. Vaughan, Ph.D., General College; Colonel Robert D. McCarten, USAF, Professor of Air Science; Colonel Dean M. Benson, USA, Professor of Military Science and Tactics; Recorder True E. Pettengill, M.A., Admissions and Records; His Excellency, the Korean Ambassador to the United States You Chan Yang, M.D.; President James Lewis Morrill, LL.D., University of Minnesota; The Reverend Anthony Coniaris, adviser to Eastern Orthodox students and staff members of the Minneapolis Campus of the University of Minnesota; Vice President Malcolm M. Willey, Ph.D., Academic Administration; Dean Edmund G. Williamson, Ph.D., Student Affairs; Colonel Robert O. Bowen, USMC, Professor of Naval Science; Assistant Dean Huntington Miller, LL.B., General Extension Division; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean Theodore C. Blegen, Ph.D., Graduate School; Professor Roy A. Schuessler, M.M., Music; Professor Charles V. Netz, Ph.D., Pharmacy, Marshal.

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

Order of Events

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

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

INVOCATION: The Reverend Anthony Coniaris.

SPEAKING FOR THE UNIVERSITY: President James Lewis Morrill.

COMMENCEMENT ADDRESS: His Excellency, Ambassador You Chang Yang, "Education and World Disorder."

CONFERRING OF COMMISSIONS: Vice President Willey will introduce Colonel Benson, Colonel Bowen, and Colonel McCarten, who will present the candidates for commissions in their respective branches of the Armed Services. The oath of office will be given by Colonel McCarten; the commissions will be presented by President Morrill.

CONFERRING OF DEGREES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Morrill the candidates for certificates and degrees. They are, in order of their introduction: Assistant Dean Miller for the General Extension Division; Associate Dean Vaughan for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts and for University College; Associate Dean Lazan for the Institute of Technology; Assistant Dean Dowell for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Dean Kozelka for the School of Business Administration; Associate Dean Howard for the College of Medical Sciences; and Dean Blegen for the Graduate School.

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

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

Order of Events

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

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

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

RECESSIONAL: Assistant Professor Berryman.

Symphony V (Toccata) - - - - - Widor

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

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Second Lieutenant, Infantry

John Fildes Mattson, Minneapolis

Second Lieutenant, Military Intelligence

Roald Waldemar Haugan, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Burton O. Benson, Minneapolis
Irwin R. Major, Minneapolis

John W. Moran, Jr., St. Paul Park
Edward J. Rice, Sioux Falls, S.D.

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Donald O. Akins, Minneapolis
Kenneth D. Houdek, Danube
Robert J. Krosgeng, St. Paul

David G. Lowery, Northome
George E. Nelson, Rose Creek

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Certificate

John Arnold Steffes, St. Paul

Engineering Certificate

Gerald Warren Everson, New Brighton
G. Ward Lund, Minneapolis

George Mahlon Schaller, Edina
Georg Stromme, St. Paul

GENERAL COLLEGE

Associate in Arts

Thomas Eggleston Adkins, Richmond,
Va.

Donald Collins Alden, Minneapolis
Raymond Lawrence Allen, Jr., Minne-
apolis

Donald Homer Almy, Richfield
Edward Elmer Anderson, Minneapolis
Roger Charles Anderson, Minneapolis
Russell Clifford Anderson, Minne-
apolis

John Albert Andraschko, Minneapolis
Janice Deane Babcock, Minneapolis
Frederick Ariel Barstow, Minneapolis
Michael Conrad Bentzen, Minne-
apolis

Kenneth Arthur Blackwell, Minne-
apolis

Robert Clair Blockhus, Blooming
Prairie

Joyce Karna Burg, St. Paul
James Allan Burt, South St. Paul
Douglas A. Cannady, Jr., Minneapolis
Michael Maier Craig, Walker
Jack Broughton Curtis, Minneapolis
George Arthur Dean, Minneapolis
Donald Norman Doran, Minneapolis

Richard Thorlief Eide, Minneapolis
Stuart Lee Ekstrand, Minneapolis
Daisy Ellene Engdahl, Bloomington
Bruce William Fletcher, Minneapolis
Marlene Lorretta Frederick, Minne-
apolis

Richard Peter Gengler, Plainview
Dennis Dale Gorman, Lake Elmo
Gilbert John Gove, St. Paul
Robert Alexander Granovsky, Minne-
apolis

Corrine Eugena Grant, St. Paul
Dale Edward Hanson, Minneapolis
Michael Charles Hendricks, Hopkins
Donald James Henry, Minneapolis
Rollin Allen Hines, Minneapolis
Guy William Hopkins, St. Paul
John Martin Hudak, Minneapolis
Robert Waldemar Hult, Minneapolis
Jon Richard Jacoby, Grand Forks,
N.D.

Bradford Victor Johnson, Lakeville
Lynn Walter Johnson, Minneapolis
Harry William Jones, Minneapolis
Barry Eugene Kassler, Minneapolis
Barbara Jean Kinley, Minneapolis

Patricia Sue Klammer, Hutchinson
 Kenneth Marshall Kobs, Minneapolis
 Jane Pantzke Kuhl, Minneapolis
 Robert Elmore Lange, Minneapolis
 James Richard Laska, Minneapolis
 William Joseph Lau, Jr., Minneapolis
 John Stanley Lawrence, St. Paul
 Tom Scott McSpadden, Minneapolis
 James L. McVay, Minneapolis
 Robert Edgar Menzel, Minneapolis
 Dallas Eugene Minnick, St. Paul
 Karl Herman Misner, Jr., St. Paul
 Ronald Duane Morstad, Minneapolis
 David Eugene Nelson, Minneapolis
 James Richard Nentwig, St. Paul
 Wendell Magnus Newgaard, Minneapolis
 Marlene Lorraine Niederhofer, Minneapolis
 Darwin Arthur Nordquist, St. Paul
 Glenn Arnold Nyquist, Minneapolis
 Thomas James Obert, Minneapolis
 Thomas Roger O'Donnell, Minneapolis
 Roger James Olson, St. Louis Park
 David Howard Lee Otterson, Minneapolis
 Roen Ingeman Paulsen, Minneapolis
 David Delano Paulson, Minneapolis
 Dorothy Marguerite Payne, St. Paul

Shirley Jean Perry, Minneapolis
 Doloris Susan Peterson, Minneapolis
 Francis Clair Peterson, Blooming
 Prairie
 James Allen Reither, Minneapolis
 Alan David Rodeberg, Minneapolis
 Charles Dennis Runcie, Minneapolis
 John Leo Ryan, New Brighton
 Martin Alvin Salute, St. Paul
 Gerald Karl Schmidt, Minneapolis
 Donald Winston Schonning, North-
 field
 Arlene Ruth Schultz, St. Paul
 John David Schultz, St. Paul
 Charles Oscar Sell, Anoka
 Willard Louis Sunday, St. Paul
 Marlene Mary Sullivan, St. Paul
 Harold Samuel Truax II, Robbinsdale
 Dale Leo Virnig, Minneapolis
 Charles Rydlun Weber, Minneapolis
 Byron Gordon Webster II, St. Paul
 Robert Thomas White, Glendale,
 Calif.
 Franklin Eugene Witso, Minneapolis
 Paul Emil Wodrich, Minneapolis
 Kareen Kay Wolertz, Minneapolis
 Joseph Ralph Wolinski, Minneapolis
 Joseph Yonak, Minneapolis
 Delano James Zeller, Minneapolis

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Anne Louise Berger, Minneapolis
 Loren Elmer Byers, Spring Valley
 Doretta Coban, Duluth
 Thomas Henry Correll, St. Paul
 Marjorie Ann Flaspeter, St. Paul
 Mary Jane Hartman, St. Paul
 Dennis Roger Jacobson, Wheaton
 Charlotte Ann Larson, Minneapolis

Lowell Ansgard Medin, Lindstrom
 James David Nesheim, Minneapolis
 Terry Therese Pierson, Milaca
 Judith Ann Serrell, Minneapolis
 Gerald Thomas Snyder, Minneapolis
 Wayne Norman Wangstad, Minne-
 apolis

Bachelor of Arts

Mary Louise Anderson, St. Paul
 Richard Erling Anderson, Minneapolis
 Gerald Edmund Ascher, Minneapolis

Wendy Louise Bach, Minneapolis
 Barbara Ann Bell, Crookston, *cum*
 LAUDE

Michael Conrad Bentzen, Minneapolis
 Sander Berman, A.A., Minneapolis
 Kenneth Carl Bjorn, St. Louis Park
 Jeremy Baker Blodgett, Wayzata
 Donald Lee Boese, St. Paul
 Cyril Paul Braegelman, Melrose
 Virginia Ann Burris, Minneapolis
 Francis Fredrick Busta, Montgomery
 John David Carlson, Detroit Lakes
 Richard Pahl Clark, Alden
 Katherine Lentino Cochran, A.A.,
 Brooklyn, N.Y.
 Larry Gordon Daniels, Minneapolis
Lenore Blake Danielson, St. Paul,
 CUM LAUDE
 David Nathaniel Deinard, Minneapolis
 Owen Paul Doyle, Minneapolis
 Yvonne Hanson Egdahl, Appleton
 Thomas Jan Erickson, A.A., Rochester
 Benjamin Ellis Ferrier, Jr., Ankeny,
 Iowa
Leonard Thomas Fielding, Mankato,
 MAGNA CUM LAUDE
 David Allen Fisher, Excelsior
Sharon Gordon Friedman, Minne-
apolis, CUM LAUDE
 Phyllis Ann Goman, Cloquet
 John Houston Helm, South St. Paul
 Harald Frithjof Hendricksen, Minne-
 apolis
 Leo Patrick Hittner, Minneapolis
 Herman George Hormel, Austin
 Janet Marion Janousek, Minneapolis
 Harold Julius Johansen, Minneapolis
Henry Edward Kalb, Rochester, CUM
 LAUDE
 Joan Alice Kallstrom, Minneapolis
 Richard Lee Kersten, Dysart, Iowa
 Donald Young Cho Kim, St. Paul
 Myron Owen Kirkeby, A.A., Minne-
 apolis
 William Lyle Knaus, West St. Paul
 Charles Frederick Koplén, Minne-
 apolis
 Lillian Ruhnau Kulenkamp, St. Paul
 Carole Ann Olson LaBelle, Duluth
 Richard Francis Lambert, Mt. Pros-
 pect, Ill.
 Daniel John Larkin, A.A., Minne-
 apolis
 Don Russell Larson, Minneapolis
 Rolland Curtis Larson, Elk River
 James Patrick Lawler, Minneapolis
 Harry Jonas Lerner, Minneapolis
Barbara Ann Lerschen, Minneapolis,
 CUM LAUDE
 Robert Fredric Lind, Niagara, N.D.
 Gary Wayne Litschke, Halbrite,
 Canada
Tsu-yi Loo, Tainan, Formosa, SUMMA
 CUM LAUDE
 Richard Henry Lutes, Jr., Mankato
 Kermit Bennett Lyslo, Redwood Falls
 John Einar Martinson, A.A., Minne-
 apolis
 Patrick Bernard Mulligan, Northfield
 Joa-Mai Naadel, Minneapolis
 Judith Mary Nelson, Minneapolis
Carl Edgar Norman, Cokato, CUM
 LAUDE
 Patrick Leo Nugent, Bemidji
 Roger Alan Pederson, Minneapolis
 William Howell Plummer, Mahto-
 medi
 Richard Curtis Powell, A.A., Minne-
 apolis
 Raymond Francis Quinn, Litchfield
 John H. Randell, A.L.A., Minneapolis
 William Rengstorf, St. Louis Park
 Curtis Copeland Richardson, Spring
 Valley
Robert Elliott Ripley, Fergus Falls,
 CUM LAUDE
 Emanuel Rosenker, Minneapolis
Leo Marcel Sabota, Browerville,
 SUMMA CUM LAUDE
 Paul Gerhard Schmid III, Granite
 Falls
 June Marie Schulz, Robbinsdale
Joan French Seeman, Oklahoma City,
 Okla, CUM LAUDE
 Milton Shaskin, Hartford, Conn.
 Alan Edward Sherman, Minneapolis
 William Silverman, Minneapolis
Don Ray Spurr, Albert Lea, CUM
 LAUDE
 John William Steen, St. Peter
 Warren Dale Stortroen, Coeur d'
 Alene, Idaho
 Charles Michael Studness, Devils
 Lake, N.D.
 Michael Leon Sugg, A.A., Rochester

Donna Katherine Swanson, Bagley
Frederick Peter Tanzer, St. Paul
Barbara Johnson Telander, St. Paul
Charles Moe Thiele, Minneapolis,
MAGNA CUM LAUDE
Bengt Torsell, Minneapolis
Philip Louis Vandermyde, Austin
Phyllis Darlene Vosbeck, Mankato,
CUM LAUDE

Kay Louise Warble, Duluth, CUM
LAUDE
Kenneth Perry Weaver, St. Paul
Mary Ann Williams, Minneapolis,
MAGNA CUM LAUDE
Thomas B. Wright, A.A., Minneapolis
James Louis Zwirner, St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Barbara Ann Barott, Olivia
David Alan Evenson, River Falls,
Wis.

Lorraine Marit Lutz, A.A., New York,
N.Y.
Ihleen Millicent Wold, Minneapolis

Bachelor of Science

Karla Jeannette Petersen, G.D.H.,
Minneapolis

Kathleen R. Terry, Minneapolis,
CUM LAUDE

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Clifford John Cremers, Minneapolis,
WITH DISTINCTION
Sedley Chester Davis, St. Louis Park,
WITH HIGH DISTINCTION

Robert Bruce Schluter, Cass Lake
Wayne William Schmaedeke, Hop-
kins, WITH DISTINCTION

Bachelor of Aeronautical Engineering

John William Moran, Jr., St. Paul Park

Bachelor of Architecture

Donald Frederick Andrews, Ankeny,
Iowa
Cecil Troyte Griffith, B.A., St. Paul
William Leon Guerin, B.A., Minne-
apolis, WITH DISTINCTION

Carl John Nordquist, Minneapolis
Paul Markus Pink, B.A., Minneapolis
Robert Morgan Quanbeck, B.A.,
Minneapolis

Bachelor of Chemical Engineering

Donald James Holtum, Boy River,
WITH DISTINCTION

Norman William Smith, Pipestone

Bachelor of Civil Engineering

Thomas A. Burns, Minneapolis
Roger Milton Hill, Chisholm

Roger Duane Schultz, Buffalo
Robert F. Svejovsky, Austin

Bachelor of Electrical Engineering

Orvin Duane Heimsness, Wildrose, N.D.

Bachelor of Geological Engineering

Ronald Loyd Haxby, St. Cloud

Joseph James Maitland, Chippewa
Falls Wis.

Bachelor of Industrial Engineering

Roald Waldemar Haugan, St. Paul

Bachelor of Mechanical Engineering

Donald Owen Akins, Minneapolis
Jere T. Bishop, Park Rapids
Robert Lee Darke, Excelsior
Donald Maynard Davidson, Emmons
Charles Lewis Friedman, Minneapolis

Dennis McCall Hammond, Minne-
apolis
Donald Edward Hofschulte, St. Paul
Thomas Richard Lidberg, Minneapolis
Arthur George Lowell, Minneapolis
Richard Frederick Merrill, St. Paul

Bachelor of Mining Engineering

Gordon Boyd McLeod, Minneapolis

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

Bachelor of Science

Donald Norval Anderson, LeRoy,
Agriculture
Michael Ross Behr, Paynesville, Agri-
culture, WITH DISTINCTION
Carl Somers Bloomberg, Park Falls,
Wis., Agriculture
Luverne Helge Bohm, St. James, Agri-
culture
LeRoy Melvin Caron, Marshall, Agri-
culture

Myron Ernest Dammann, Elkton,
Agriculture, WITH HIGH DISTINCTION
Jack Lowell Dean, Minneapolis, Agri-
culture
William John Donwen, Jackson, Agri-
culture
William Richard Dukelow, St. Cloud,
Agriculture
Patricia Mary Dunn, Minneapolis,
Home Economics in Business

- Carol Koester Fortney, Waseca, Home Economics
 James Francis Gillett, Minneapolis, Agriculture
 Clara S. Golod, Rochester, Home Economics in Business, WITH HIGH DISTINCTION
 Walter Duane Hagemo, LaCrosse, Wis., Agriculture
 Cecil Edward Hall, Atwater, Agriculture
 Kenneth Donald Houdek, Danube, Science Specialization
 Joanne Rosella Huseby, Minneapolis, Home Economics in Business
 Bernadette Brady Janitschke, St. Paul, Home Economics
 Audrey Jean Johnson, St. Paul, Home Economics in Business, WITH DISTINCTION
 Toru Kihara, Yokohama, Japan, Science Specialization
 Donald Maurice Knutson, Foley, Forestry
 Robert Jan Krogseng, St. Paul, Agriculture
 Rodney Joseph Kupsc, Cloquet
 John Giles Kuyava, Duluth, Forestry
 Otto Ingvald Lee, Badger, Agriculture
 Anne Lundquist, B.S., Duluth, Home Economics
 Margaret Ann Madden, Brainerd, Home Economics
 M. Jane Price McKinnon, White Bear Lake, Agriculture, WITH HIGH DISTINCTION
 James Joseph Murray, Eden Valley
 Rita Joan Nintemann, St. Charles, Home Economics in Business
 Aldean George Rhyner, Atwater, Agriculture
 Robert LaRue Rice, Lodi, Wis., Forestry
 Mary Ann Rybak, New Prague, Home Economics
 Loretta Lindall Saylor, Clarkfield, Home Economics
 James Carlos Scales, Wauwatosa, Wis., Forestry, WITH DISTINCTION
 John Francis Schmitz, Adams, Agriculture
 Carol Therese Schwaab, Minneapolis, Home Economics
 Keith Warren Sherper, Minneapolis, Agriculture
 Kenneth Howard Sherper, Minneapolis, Agriculture
 Laura Mae Struck, Bellingham, Home Economics
 Richard Gene White, Grand Rapids, Forestry

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

Bachelor of Science

- Charlie Millard Alsip, South St. Paul, Agricultural Education
 Anna Louise Danielson, Detroit Lakes, Home Economics Education
 Raymond Elving Hillstrom, Sturgeon Lake, Agricultural Education
 Beverly Marie Hintz, Minneapolis, Home Economics Education
 Sigrunn Kvamme, Minneapolis, Home Economics Education
 Ralph Joseph Lentz, Sauk Centre, Agricultural Education
 Louise Elizabeth Maas, St. Paul, Home Economics Education
 Marjory Malo Mecklenburg, South St. Paul, Home Economics Education, WITH DISTINCTION
 James William Nordstrom, Eagle Bend, Agricultural Education, WITH DISTINCTION

Donald Peter Penner, Mountain Lake,
Agricultural Education, WITH DIS-
TINCTION

Marvin Boyde Stotesbery, Clinton,
Agricultural Education
Donald Bernette Walker, Mt. Sterling,
Wis., Agricultural Education

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

Bachelor of Agricultural Business Administration

Frank Delbert Novachek, Moorhead

Donald Russell Swanson, Floodwood

COLLEGE OF EDUCATION

Bachelor of Science

Willard Mahlon Bailey, A.L.A.,
Minneapolis

Caryl Ruth Bannister, Robbinsdale

Robert Wayne Beaird, South St. Paul

Miriam Seeger Reay Bell, St. Paul

Sandra Camille Benna, St. Louis Park
Marilyn Jean Berglin, Minneapolis,

WITH DISTINCTION

Lloyd Lawrence Boone, A.A., Benson

Audrey Frances Brown, Minneapolis

Harry Paul Bruncke, Jr., B.A., St. Paul

William Oberg Brusewitz, A.A.,
St. Paul

Glenna Mae Callister, B.A., Minne-
apolis

June Virginia Cherne, Minneapolis

Donna Maxine Christensen, Fresno,
Calif.

Retha Mae Creech, St. Paul, WITH
DISTINCTION

Mary Kathryn Crook, Pipestone

Barbara Kim Shapiro Davis, St. Paul,
WITH DISTINCTION

Mary Ann Bast Doetzer, A.A., St. Paul

Marilyn Jean Evers, Minneapolis

Robert Mark Grassl, Arcadia, Wis.

Muriel Frances Buck Gronholm,
Minneapolis

Audrey L. Hamlin, Macon, Ga.

Mary Ann Dawson Hauck, Minne-
apolis, WITH DISTINCTION

Tolan Charles Helstrom, Virginia

Saundra Elizabeth Johnson, Minne-
apolis

Gordon Lambert Justus, A.A., Water-
town

Earl Richard Kenfield, Minneapolis,
WITH DISTINCTION

Barbara Ann Kincaid, International
Falls, WITH DISTINCTION

Joyce Macil Kingsley, A.A., St. Paul

Cora Wilma Benjamin Kobeska,
North St. Paul

Anna-Marie Kylander, Minneapolis

Kathleen Hannora Lannan, B.A.,
Minneapolis

Carol Ann Lehmann, Racine, Wis.

Gerald Elmer Lindsley, West De Pere,
Wis.

David George Lowery, Northome

Ralph Edward Manning, Minneapolis

Rosemary Teresa McCarthy, Colorado
Springs, Colo., WITH HIGH DISTINC-
TION

Delores Ann McManama, Minne-
apolis

Mary Ann Mork, A.A., Anoka

Carolyn Ann Nelson, St. Paul

Dorothy Gene Peck Nichols, B.A.,
Minneapolis
James Herbert Ohman, A.A., Minne-
apolis
Francis C. Onsted, Minneapolis, WITH
DISTINCTION
James Arnold Petersen, Minneapolis
Milton Donald Quiggle, Minneapolis
Jack James Rowe, St. Paul
Wayne Edward Sanders, Minneapolis
Caroline Carman Schelen, St. Paul

Robert Harold Schmidt, West St. Paul
Ralph Edward Schulz, Robbinsdale
Norman Gene Staska, Owatonna
Bernice Flowers Strane, St. Paul, WITH
DISTINCTION
Michael John Sullivan, Minneapolis
Charles Ludwig Swanum, B.B.A.,
Minneapolis
Jean Frances Tatting, Columbia
Heights
Irene Armorelle Turgeon, Minneapolis

Master of Education

Elinor Jane Campodonico, B.S., Delhi,
Calif.
Marjorie Ann Fredrickson, B.S.,
Minneapolis
Dorothy Joan Lintula, B.S.N., Duluth
Irene Kate Poppens, B.S.N., Lennox,
S.D.

Elagrace Reekie, B.S.N., Seattle,
Wash.
Thora Ethel Rose, B.S., Minneapolis
Mark Michael Sivanich, A.A., B.S.,
Minneapolis

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

John David Anderson, Rochester
Lloyd Leslie Anderson, Kasson
Owen Oliver Anderson, St. Paul
Maynard Joseph Axtell, Minneapolis
Kenneth Hall Bauman, Minneapolis
Benjamin Ralph Blesi, Excelsior
Daniel Philip Bloomdahl, Minne-
apolis, WITH DISTINCTION
Richard Arthur Burkhardt, B.S.L.,
Plainview
Wayne Everett Burmeister, Luverne
William Joseph Calguire, Minneapolis
Stanley Lawrence Cohn, A.A., St. Paul
James Anthony Daly, Minneapolis
Robert Francis Daly, Minneapolis
Carlton Bennett DeClercq, Minne-
apolis
John Stanley Farley, B.M.E., Eveleth
William Anton Ficker, St. Paul
Hugh Clayton Flatness, Minot, N.D.
Hans Theodore Hagen, Jr., White
Bear Lake
John Daniel Halvorson, St. Paul

Merritt Milton Heinonen, New York
Mills
Harvey Sigbert Hendrickson,
McGregor, WITH HIGH DISTINCTION
Theodore Yoshito Hirabayashi, A.A.
Minneapolis
Lyle Richard Hoff, Mabel
Robert Earl Hurin, Brownsville
Peter Christian Klass, Minneapolis
John Joseph Knip, Jr., Minneapolis
Thomas George Kucera, Minneapolis
Alan Zane Levey, St. Paul
Irwin Robert Major, Clifton, N.J.
Gerald Treat McCormick, Minne-
apolis
Herbert Bernard Melcher, Minne-
apolis
Melvin Eugene Miller, Pomeroy,
Wash.
Keith H. Mottet, St. Paul
John B. Munnings, Superior, Wis.
William Giles Neale, Redwood Falls
Clarence Roger Nelson, Minneapolis

George Eugene Nelson, Rose Creek
Walter Norman Olson, Mora, WITH
HIGH DISTINCTION
Thomas William Orr, Minneapolis,
WITH DISTINCTION
Marlys C. Rinken, White Bear Lake
Arnold Helge Sandberg, Robbinsdale
Marvin William Scherzer, St. Paul

Robert Leo Stans, Chaska
Robert Chris Steffenson, Minneapolis
Toshio Sudo, Tokyo, Japan
Robert Walter True, Minneapolis
James Roy Tynen, Minneapolis
John Miller Vlahos, Minneapolis
Paul Manson Widdess, Minneapolis

Bachelor of Science in Economics

Charles Allen Jewell, Pine City

LAW SCHOOL

Bachelor of Science in Law

Thomas Clark Rieke, Minneapolis

Bruce Morris Smith, Hamburg, N.Y.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Florence H. Atkinson, R.N., Mitchell,
S.D., Public Health Nursing
Gladys Garrison Cherry, South
St. Paul, Public Health Nursing,
WITH HIGH DISTINCTION
Allan Dale Davidson, B.A., Holt,
Medicine
Marie Beatrice Diekmann, College-
ville, Public Health Nursing
Sandra Ann Halverson, Atwater, Nurs-
ing, WITH HIGH DISTINCTION
Colleen Mitsuko Izawa, Honolulu,
Hawaii, Public Health Nursing
Ruby Marie Jermstad, Osseo, Wis.,
Public Health Nursing, WITH DIS-
TINCTION

Sally Lou Kiehne, Minneapolis, Medi-
cal Technology**
Muriel May Lehman, Webster City,
Iowa, Public Health Nursing, WITH
DISTINCTION
Edith Muriel May, Madison, Wis.,
Public Health Nursing
Anne Lillian Pavlich, South St. Paul,
Public Health Nursing
Adele C. Richardson, Chicago, Ill.,
Public Health Nursing
James R. Thompson, B.A., Bemidji,
Medicine

Master of Public Health

Evi Altschuler, B.S., Chicago, Ill.
Ellamae Branstetter, B.S., P.H.N.,
Phoenix, Ariz.

Piedad Esquivel, B.S., Albuquerque,
N.M.
Rosemary Johnson, B.S., Minneapolis

** These degrees are conferred subject to the satisfactory completion of practical work prior to March 20, 1958.

GRADUATE SCHOOL

Master of Arts

Hollace Wendell Adkins, Jr., Minneapolis

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

Louis John Adolphsen, Minneapolis
B.A. '39, Cornell College. Field of Concentration: Educational Administration.

Jacqueline Ann Angus, Willmar
B.A. '56, University of Minnesota. Field of Concentration: Library Science.

Jermaine Delos Arendt, St. Paul
B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Ramineni Ayyanna, Brahmanakodur, India
B.Sc. '50, Andhra Christian College; M.Sc. '53, Banaras Hindu University. Field of Concentration: Economics.

Robert Ostrom Bachelder, Stillwater
B.S. '51, University of Minnesota. Field of Concentration: Industrial Education.

Stuart Alan Bessler, Minneapolis
B.B.A. with distinction '54, B.I.E. with distinction '54, University of Minnesota. Field of Concentration: Statistics.

Vilhjalmur Thorlaksson Bjarnar, Minneapolis
B.A. *magna cum laude* '56, University of Minnesota. Field of Concentration: Library Science.

Wallace William Black, Weyburn, Saskatchewan, Canada
B.Sc. '37, B.Ed. with distinction '40, University of Saskatchewan. Field of Concentration: Educational Psychology.

Neal Roy Blum, Welcome
B.S. '49, University of Minnesota. Field of Concentration: Physical Education.

Robert Joseph Brett, Minneapolis
B.S. with distinction '48, University of Minnesota. Field of Concentration: Spanish.

Eugene L. Bristol, Wayzata
B.E. '39, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.

Artemia Bautista Cala, Moncada, Tarlac, Philippines
B.S.E. '47, National Teacher's College at Manila. Field of Concentration: Curriculum and Instruction.

LeLon Roger Capps, Minneapolis
B.S. '54, LaCrosse State Teachers College. Field of Concentration: Curriculum and Instruction.

DeWayne Thomas Chesley, Minneapolis
B.A. '48, Nebraska Wesleyan University; M.A. '54, Northwestern University. Field of Concentration: Educational Psychology.

Karl John Christiansen, Alexandria
B.A. '53, Concordia College. Field of Concentration: Education.

Jack Lowell Clark, Alden
B.A. *summa cum laude* '52, Gustavus Adolphus College. Field of Concentration: Greek.

Goldie Rose Cohen, Duluth
B.Ed. '36, Superior State Teachers College. Field of Concentration: Curriculum and Instruction.

Anthi Danilidou, Salonika, Greece
B.A. '55, University of Salonika. Field of Concentration: English.

Richard Alfred Dols, Edina
B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Helmer Gene Edwall, Mapleton
B.S. '48, Iowa State College. Field of Concentration: Educational Administration.

James Paul Erickson, Minneapolis
B.A. *magna cum laude* '55, University of Minnesota. Field of Concentration: English.

Neil Richard Fairbanks, Anoka

B.A. '40, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: Effectiveness of Communication in Employment: A Case Study.

Robert L. Findorff, Minneapolis

B.B.A. with distinction '52, University of Minnesota. Major: Industrial Relations. Minor: Psychology. Thesis: Factors Affecting Job Proficiency—Case Study, Donaldson Company, Inc., St. Paul, Minnesota.

Elaine Vivian Flathers, Waseca

B.S. with special honors '48, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction.

Walter Antrim Fogel, Fargo, N.D.

B.S. with honor '54, North Dakota Agricultural College. Field of Concentration: Industrial Relations.

Elwyn James Fonk, Kenosha, Wis.

B.Ed. '42, Wisconsin State College at White-water. Field of Concentration: Industrial Relations.

Erich Wilhelm Germelmann, Berlin, Germany

Graduate '54, Free University of Berlin. Major: English. Thesis: A Study of the English Influence on German Drama Before the Time of Lessing.

Frederick Farrar Gilbert, Richfield

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

Rodney Glenn Grubb, Alexandria

B.A. '53, Concordia College. Field of Concentration: Political Science.

Stanley Harold Gustafson, Windom

B.A. '48, Macalester College. Field of Concentration: Educational Administration.

Alice Mary Guzman, La Crosse, Wis.

B.S. '41, Mount St. Mary's College. Field of Concentration: Educational Psychology.

Helmer Melvin Halverson, Glenwood

B.A. '31, Concordia College. Field of Concentration: Curriculum and Instruction.

Betty Sargent Hammack, Minneapolis

B.A. '38, Columbia University; B.S. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Harland Keith Hilary, Minneapolis

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

Delbert Leslie Hodgkins, Mankato

B.S. '51, University of Minnesota. Field of Concentration: Agricultural Education.

Robert Elwood Hollingsworth, Duluth

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

Cole Iver Iverson, St. Paul

B.A. *summa cum laude* '56, University of Minnesota. Field of Concentration: Music.

Ann Jarvis, Minneapolis

B.A. '54, Rosary College. Field of Concentration: Psychology.

Richard Charles Jenson, Minneapolis

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

Mildred Effie Johnson, Onamia

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

Myron Louis Johnson, Askov

B.A. '51, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Thomas Paul Johnson, Remer

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

B. M. Abdul Majeed Khan, Faridpur, Pakistan

B.A. '56, Hamline University. Major: Sociology. Minor: Anthropology. Thesis: Occupational Aspirations of Northeastern Minnesota Farm Boys, 1956.

Jack Burge King, Omaha, Neb.

B.A. *magna cum laude* '53, University of Minnesota. Field of Concentration: History.

Joseph E. Knapp, Jordan

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

Dorothy Belgum Knight, Minneapolis

B.A. '52, St. Olaf College. Field of Concentration: Educational Psychology.

Allan John Kolles, Elk River

B.A. '53, St. John's University. Field of Concentration: Industrial Relations.

Walter Conrad Larsen, New England,
N.D.

B.A. '50, Concordia College. Field of Con-
centration: Educational Psychology.

Walter William Lauer, Richmond

B.S. '50, St. Cloud State Teachers College.
Field of Concentration: Educational Adminis-
tration.

Keith Raymond Legg, Elk River

B.A. *magna cum laude* '56, University of
Minnesota. Field of Concentration: Inter-
national Relations.

Carlton A. Lewis, Pine Island

B.A. '52, Luther College. Field of Concen-
tration: International Relations.

Warren Lee Lindquist, Minneapolis

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

LaDale Arden Lorenz, Minneapolis

B.S. with distinction '55, University of Minne-
sota. Field of Concentration: Curriculum and
Instruction.

John Arnold MacDiarmid, Winnipeg,
Manitoba, Canada

B.P.E. '50, University of British Columbia.
Field of Concentration: Physical Education.

Edward George Maranda, St. Paul

B.A. *cum laude* '50, University of Minnesota.
Major: Geography. Minor: Economics. Thesis:
Industrial Construction in the Twin Cities
Area—1946-1956.

Mary Jean Mayer, Minneapolis

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

Robert J. McGovern, Minneapolis

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

Ernest Lloyd Moe, New Richmond,
Wis.

B.S. '55, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Safia Ghanem Mohamed, Cairo,
Egypt

B.A. '55, University of Cairo. Field of Con-
centration: Child Welfare.

Victor Vereker Murray, Winnipeg,
Manitoba, Canada

B.A. '53, University of Manitoba. Field of
Concentration: Industrial Relations.

Mitsue Nagao, Tokyo, Japan

B.A. '53, Meiji University. Field of Concen-
tration: Curriculum and Instruction.

Marvin E. Nelson, Ladysmith, Wis.

B.S. *magna cum laude* '51, Wisconsin State
College at Eau Claire. Field of Concentration:
Curriculum and Instruction.

Neal Clinton Nickerson, Jr., Duluth

B.A. '50, Macalester College. Field of Con-
centration: Curriculum and Instruction.

Neil Ardel Ofsthun, Robbinsdale

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

Richard Wallace Olsen, Albert Lea

B.J. '35, University of Missouri. Field of Con-
centration: French.

David Mark Olson, Moorhead

B.A. '56, Concordia College at Moorhead.
Field of Concentration: Physical Education.

John Albert Oster, Minneapolis

B.S. '37, Ellendale State Normal and Indus-
trial College. Field of Concentration: Indus-
trial Education.

Ethel Ranney Oyan, Sioux Falls, S.D.

B.S. '30, General Beadle State Teachers Col-
lege. Field of Concentration: Curriculum and
Instruction.

Edward Joseph Petersen, Minneapolis

B.S. '47, Moorhead State Teachers College.
Field of Concentration: Educational Psy-
chology.

Guy Pierce, Provo, Utah

B.S. '53, Brigham Young University. Field of
Concentration: Industrial Education.

Marilyn Joan Porter, Minneapolis

B.A. *cum laude* '54, University of Minnesota.
Field of Concentration: English.

John Robert Roach, St. Paul

B.A. '43, St. Paul Seminary. Field of Con-
centration: Educational Administration.

Joseph James Robinson, Glenwood
B.A. *cum laude* '56, University of Minnesota.
Field of Concentration: International Relations.

Arvie Arnold Rosenberg, St. Paul
B.A. '54, Hamline University. Field of Concentration: Curriculum and Instruction.

Mary Margaret Ryan, Minneapolis
B.A. '52, College of St. Catherine. Field of Concentration: Curriculum and Instruction.

Harold Wilfred Satterlund, Adrian
B.S. '50, Stout Institute. Field of Concentration: Educational Administration.

George Scherb, Chicago, Ill.
B.A. '56, Northwestern University. Field of Concentration: History.

Robert Ferdinand Schmitt, Duluth
B.A. '56, University of Minnesota. Field of Concentration: Industrial Relations.

Delphin Leo Schulz, St. Paul
B.S. '49, University of Minnesota. Field of Concentration: Educational Administration.

Earl George Schwappach, Minneapolis
B.S. '50, University of Minnesota. Field of Concentration: Educational Psychology.

Arne W. Setala, St. Paul
B.S. '35, Bradley Polytechnic Institute. Field of Concentration: Industrial Education.

David Edwin Smith, Portland, Me.
B.A. '48, Middlebury College. Field of Concentration: American Studies.

Quentin Thorne Smith, Coon Rapids
B.A. '55, Northwestern Schools. Field of Concentration: Speech and Theater Arts.

Wayne Heleard Smith, Superior, Wis.
B.S. '52, Wisconsin State College at Superior. Field of Concentration: Curriculum and Instruction.

Fern King Spafford, Spooner, Wis.
B.S. '52, Wisconsin State College at Superior. Field of Concentration: Curriculum and Instruction.

Joseph Peter Spies, St. Paul
B.E. '37, St. Cloud State Teachers College. Field of Concentration: Industrial Education.

Carlton Duane Steen, Walnut Grove
B.A. *cum laude* '54, St. Olaf College. Field of Concentration: Industrial Relations.

Stephen Odell Tanner, St. Paul
B.A. '50, B.S. '51, University of Minnesota. Field of Concentration: Educational Administration.

Robert Lyle Temple, Hill City
B.S. with distinction '52, University of Minnesota. Field of Concentration: Educational Administration.

William Bryan Torp, Minneapolis
B.S. with high distinction '52, University of Minnesota. Field of Concentration: Educational Administration.

Edward Francis Vizard, Galesburg, Ill.
B.A. *cum laude* '56, University of Notre Dame. Field of Concentration: Industrial Relations.

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

Frithjof Rodney Wannebo, Grand Marais
B.A. '52, Hamline University. Field of Concentration: Political Science.

Leon Elbert Whiting, Superior, Wis.
B.S. '48, St. Cloud State Teachers College. Field of Concentration: Library Science.

Master of Arts in Public Administration

Surender Singh, Hardoi, U.P., India
B.A. '56, Macalester College. Major: Public Administration. Thesis: District Administration in Uttar Pradesh, India.

Master of Business Administration

Gerald Lloyd Cleveland, Conde, S.D.

B.S. *summa cum laude* '53, University of South Dakota. Major: Business Administration. Minor: Economics. Thesis: A Study of the Language and Content of Audit Reports.

Master of Science

Paul Gerhardt Albrecht, Minneapolis

B.S. '52, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: Studies on 5-Hydroxytryptamine: Concentration and Daily Variation in Mouse Brain Tissue and Some Biological Effects of Reserpine.

Karam Vir Batra, Bombay, India

B.Pharm. '52, Punjab University. Major: Pharmaceutical Chemistry. Minor: Pharmacognosy. Thesis: Preliminary Phytochemical Investigations of the Roots of *Larrea divaricata*, Cav.

Charles Allan Beckman, Bay Shore,
N.Y.

B.S. '51, University of Missouri. Major: Geology. Minor: Mining Engineering. Thesis: Geology of the Wimsattville Basin, Central Mining District, New Mexico.

Richard William Brand, Long Prairie

B.S. with distinction '49, University of Minnesota. Field of Concentration: Agricultural Economics.

Franklin D Byrnes, Stewartville

B.S. '54, Hamline University. Major: Physics. Minor: Mathematics. Thesis: The Earth's Magnetic Field in Vector Spherical Harmonics.

Chang-Sun Chang, Tei-Pei, Taiwan,
China

B.S. in C.E. '55, University of Illinois. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Energy Dissipation in Longitudinal Vibration.

Hoo Sup Chung, Suwon, Korea

B.S. '54, Seoul National University. Major: Plant Pathology. Minor: Botany. Thesis: Antagonistic Effects of the Microflora of Barley Leaves on the Pathogenicity of *Helminthosporium sativum*.

David Fox Conover, Morrisville, Pa.

B.S. '51, Pennsylvania State College. Major: Forestry. Minor: Botany. Thesis: Needle Length of Jack Pine as Affected by Seed Source and Other Factors.

William Edwin Crain, Duluth

B.A. '53, University of Minnesota. Major: Geology. Minor: Metallurgical Engineering. Thesis: The Areal Geology of the Red Wing Quadrangle.

Ann M. Cassidy Crowley, Minneapolis

B.S. '44, University of Minnesota. Field of Concentration: Home Economics.

Norbert Arthur Dorow, Garner, Iowa

B.S. '48, Iowa State College. Field of Concentration: Agricultural Economics.

Del Rose Marie Dubbs, Pine River

B.A. '50, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: A Comparative Study of Mice and Two Mammalian Cell Strains as Detectors of Herpes Simplex Virus: Their Use in Isolation Propagation and Assay of Virus and of Neutralizing Antibody in Human Sera.

Theodore R. Eichers, Cold Spring

B.S. with distinction '56, University of Minnesota. Major: Agricultural Economics. Minor: Soils. Thesis: Effect of Method of Summer Feeding on the Dairy Farm Organization.

Duane Gordon Erickson, Ellsworth,
Wis.

B.A. *cum laude* '53, University of Minnesota. Major: Zoology. Minor: Bacteriology. Thesis: Fish Blood Flukes of the Genus *Sanguinicola*.

Gordon Everette Ferguson, West
Concord

B.S. '50, North Dakota Agricultural College. Field of Concentration: Agricultural Education.

Harry Lee Johnson, Los Angeles,
Calif.

B.S. *magna cum laude* '52, West Coast University. Field of Concentration: Mathematics.

Whitney Larsen Johnson, Brigham
City, Utah

B.S. '54, Utah State Agricultural College. Field of Concentration: Mathematics.

George Kapusta, Max, N.D.

B.S. '54, North Dakota State College. Field of Concentration: Agronomy.

Ho Wang Lee, Seoul, Korea

M.D. '54, Seoul National University. Major: Bacteriology. Minor: Public Health. Thesis: Studies on the Propagation of Japanese B Encephalitis Virus in Tissue Culture.

Donald Edward McGannon, Jr.,
Hutchinson

B.A. '52, Syracuse University. Major: Geology. Minor: Geophysics. Thesis: A Lithofacies Study of the St. Lawrence Formation of Minnesota.

Ambat Narayanan Kutty Menon,
Madras, India

M.B., B.S. '36, D.M.R. '42, University of Madras; D.M.R.D. '49, The Royal College of Physicians of London. Major: Radiology. Minor: Pathology. Thesis: Pulmonary Manifestations of Collagen Diseases.

Kazutaka Morino, Tokyo, Japan

B. of Agr. '48, Kyushu University. Field of Concentration: Agricultural Education.

Bong Kug Ohh, Seoul, Korea

B.S. '53, M.S. '55, Seoul National University. Field of Concentration: Poultry Husbandry.

Philip Mason Opsal, Minneapolis

B.S. '56, University of Minnesota. Major: Forestry. Minor: Industrial Engineering. Thesis: A Study of the Natural Durability of Diamond Willow Heartwood.

Chung-pen Pi, Taipei, Taiwan, China

B.S. '44, National Chekiang University. Major: Plant Genetics. Minor: Botany. Thesis: Genetic Studies of Stem Rust Reaction in Crosses of Kenya Farmer Wheat with Chinese Monosomic Testers.

Thomas Love Prendergast, Jr., Ard-
more, Pa.

B.S. '55, University of Notre Dame. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Preliminary Photochemical Investigation of a Solar Energy Storage System Involving a Reversible Heterogeneous Reaction.

Dean Rodney Prestemon, Waukon,
Iowa

B.S. '56, Iowa State College. Major: Forestry. Minor: Biostatistics. Thesis: A Study of the Relationship Between the Weight/Volume Ratio and Moisture Content of Wood in a Limited Sample of Jack Pine and Quaking Aspen.

Robert Charles Purcell, St. Paul

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

Subhi Abdel-Fattah Ahmad Qasem,
Tulkarm, Jordan

B.S. '56, Kansas State College. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Studies on Deterioration of Stored Corn by Fungi.

John Hale Ramlo, La Crosse, Wis.

B.A. '53, D.D.S. '55, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: An Experimental Study of the Mechanism Producing Splenic Contraction in Dogs.

Johnie Lee Reeves, Austin, Tex.

D.V.M. '50, Agricultural and Mechanical College of Texas. Major: Physiology. Minor: Physiological Chemistry. Thesis: The Effects of Breathing High Oxygen Concentrations on the Ventilatory Function of Dogs in Non-Respiratory Alkalosis.

Sang Don Rhee, Seoul, Korea

M.D. '53, Seoul National University. Major: Physiology. Minor: Physiological Chemistry. Thesis: Metabolism of Carbon 14-Labeled Glucose by the Isolated Dog Heart.

Roger Anthony Rozendal, Sioux Falls,
S.D.

B.S. in Geol. Eng. with high honors '56, South Dakota School of Mines and Technology. Major: Geology. Minor: Geophysics. Thesis: The Upper Cretaceous Rocks of Columbia County, Arkansas.

Bo Sung Sim, Seoul, Korea

M.D. '49, Seoul National University. Major: Neurosurgery. Minors: Physiology and Anatomy. Thesis: Comparative Study of the Pyramidal Tract Following Hemispherectomy in Man, Dogs and Cats.

Padmanavha Subramanyam, Madras, India

B.V.Sc. '53, University of Madras. Field of Concentration: Veterinary Bacteriology.

James Gardner Swenson, Minneapolis

B.S. with honor '49, Winona State Teachers College. Field of Concentration: Mathematics and Mechanics.

John Walter Trank, Minneapolis

B.E.E. '51, University of Minnesota. Major: Biophysics. Thesis: A Study of the Individual Statistics of the Electromobility of Human Spermatozoa.

Kenneth R. Walker, Linstead, Jamaica, B.W.I.

B.S. '54, Tuskegee Institute. Major: Plant Pathology. Minor: Plant Genetics. Thesis: The Influence of Insecticides on the Effectiveness of Fungicides as Protectant Seed Treatments for Corn.

Master of Science in Aeronautical Engineering

Guenter Hans Schmidt, Minneapolis

B.M.E. '55, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Dynamic Strain Measurement under Combined Axial and Torsional Force.

Master of Science in Agricultural Engineering

Demeter Gawreluk, Baudette

B.Agric.E. '51, University of Minnesota. Field of Concentration: Agricultural Engineering.

Master of Science in Chemical Engineering

Walter Raymond Ellingsen, Duluth

B.A. '55, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Control System Design for a Continuous Stirred-Tank Reactor.

Harold Carl Larson, LaSalle, Ill.

B.S. '53, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: Void Fractions of Two-Phase, Steam-Water Mixtures.

Roger Sherwood Leland, Bricelyn

B.S. with distinction '56, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Frequency Response of Pneumatic Transmission Lines.

Barton Duvall Pattie, Jr., Denver, Colo.

B.Ch.E. '56, Clemson Agricultural College. Major: Chemical Engineering. Minor: Mathematics. Thesis: Two-Phase Flow—Critical Discharges and Void Fractions.

William Raymond Shupe, St. Louis, Mo.

B.S. in Ch.E. '55, Washington University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Continuous Stirred-Tank Reactor Theory Applied to a Two-Phase Reaction Process Ethylation of Benzene.

Richard Leroy Storrer, Owosso, Mich.

B.S. '54, University of Michigan. Major: Chemical Engineering. Minor: Mathematics. Thesis: Design of Staged Adiabatic Tubular Reactors.

Master of Science in Civil Engineering

Harald Dixen Frederiksen, Askov
B.S. in C.E. '53, Utah State Agricultural College. Field of Concentration: Civil Engineering.

Albert George Mercer, Vancouver,
B.C., Canada

B.A.Sc. '54, University of British Columbia. Major: Civil Engineering (Hydraulics). Minor: Civil Engineering (Soils Mechanics). Thesis: Study of Seepage from Earth Canals by Hydraulic and Electric Analog.

Madhav Fattu Naik, Poona, India
B.C.E. '54, University of Poona. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Karl N. Weiss, Salt Lake City, Utah
D.M.D. '54, University of Oregon. Major: Dentistry. Minor: Oral Pathology. Thesis: Maxillary Enclavement Cysts.

Donald Cooper Zimmerman, San Francisco, Calif.

B.A. '50, Pomona College; D.D.S. '54, College of Physicians and Surgeons. Major: Dentistry. Minor: Oral Pathology. Thesis: Fibrous Dysplasia of the Mandible and Maxilla.

Master of Science in Electrical Engineering

James Edwin Hill, Minneapolis
B.E.E. with distinction '56, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Generation-Recombination Noise in Single Crystal Germanium.

Master of Science in Mechanical Engineering

Sherman A. Sundin, St. Paul
B.S. '55, University of Minnesota. Field of Concentration: Mechanical Engineering.

Master of Science in Medicine

David Eaton Dines, Denver, Colo.
B.A. '49, University of Denver; M.D. '53, University of Colorado. Major: Medicine. Minor: Pathology. Thesis: Clinical and Pathological Correlations in Chronic Constrictive Pericarditis with Particular Reference to Myocardial Atrophy.

Matthew Burgess Divertie, Rochester
M.B., Ch.B. '47, University of Glasgow. Major: Medicine. Minor: Physiology. Thesis: A Study of the Hemodynamic Derangements Associated with Isolated Ventricular Septal Defect.

John Underhill Gardner, Rochester
B.A. '49, Princeton University; M.D. '53, New York Medical College. Major: Medicine. Minor: Physiology. Thesis: Iodine Metabolism in Goitrous Cretins.

William Danforth Gaunt, Webster Groves, Mo.
M.D. '48, Washington University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: A Quantitative Cytological Study of the Anterior Hypophysis of Infants Born of Diabetic Mothers.

Harry Natt Hoffman II, Rochester

M.D. '49, Creighton University. Major: Medicine. Minor: Physiology. Thesis: A Clinical and Experimental Study of Bile Pigments in Jaundice.

Glen Alan Lillington, Winnipeg,
Manitoba, Canada

B.Sc. '46, M.D. '51, University of Manitoba. Major: Medicine. Minor: Physiology. Thesis: Nitrogen Clearance Rates of Single Lungs Studied in Different Postures by Bronchospirometry.

Johann Christoph Moll, Munich,
Germany

M.D. '51, University of Munich. Major: Medicine. Minor: Physiology. Thesis: The Absorption of Radioactive Sodium and Potassium from the Stomach and Small Bowel of Rats.

Marc Savard, Montreal, Quebec,
Canada

M.D. '51, University of Montreal. Major: Medicine. Minor: Pathology. Thesis: A Clinico-Pathological Study of 127 Proven Cases of Aortic Stenosis with Special Reference to Co-Existing Mitral Valvular Disease.

John Bayne Selby, Lexington, Ky.

B.S. '43, M.D. '46, University of Tennessee. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Quantitative Studies of Pancreatic Islet Cell Mass in Normal and Hypophysectomized Dogs.

Robert Lee Sommerville, Rochester

B.A. '43, West Virginia University; M.D. '46, Medical College of Virginia. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Arteriosclerotic Abdominal Aortic Aneurysm—A Clinical Pathologic Study of 172 Cases.

Jean Aileen Spencer, Lebanon, Ill.

B.S. '46, University of Illinois; M.D. '50, University of Chicago. Major: Medicine. Minor: Pathology. Thesis: Lesions of the Upper Gastrointestinal Tract Associated with Intracranial Neoplasms.

Master of Science in Ophthalmology

William Bainbridge Glew, Rochester

B.S. '50, Yale University; M.D. '53, George Washington University. Major: Ophthalmology. Minor: Physiology. Thesis: An Experimental Study of the Pathogenesis of Papilledema.

Master of Science in Pediatrics

John Christian Gall, Jr., Upperville,
Va.

B.S. '50, Yale University; M.D. '53, George Washington University. Major: Pediatrics. Minor: Physiology. Thesis: Studies on Proteins and Lipoproteins in Canine Experimental Nephrosis, with Special Reference to the Effects of Coumadin, Heparin, and Nicotinic Acid.

Master of Science in Radiology

Robert Lee Tucker, Indianapolis, Ind.

B.A. '41, DePauw University; M.D. '44, Indiana University. Major: Radiology. Minor: Surgical Pathology. Thesis: The Special Roentgenographic Manifestations of Meningiomas of the Tuberculum Sellae.

Master of Social Work

Eilene Baalson Busch, Waterville,
Iowa

B.A. '54, Luther College. Field of Concentration: Social Work.

Beverly Vivienne Peterson, Willmar

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

June Harrison, Columbiana, Ala.

B.A. '54, Whitman College. Field of Concentration: Social Work.

Certificate of Specialist in Education (School Administration)

Glenn William Erickson, Minneapolis

B.S. '45, Bemidji State Teachers College;
M.A. '56, University of Minnesota. Major: Educational Administration.

Doctor of Philosophy

Dale Walker Andrews, San Luis
Obispo, Calif.

B.S. '41, University of California; M.A. '52, California State Polytechnic College. Major: Education. Minor: Curriculum and Instruction. Thesis: Problem Oriented Teaching and Pupil Achievement in Vocational Agriculture. Major Advisers: Profs. G. I. Swanson and M. J. Peterson.

Edward David Bellis, Millersburg, Pa.

B.S. '51, Pennsylvania State College; M.S. '53, University of Oklahoma. Major: Zoology. Minor: Botany. Thesis: An Ecological Study of the Wood Frog, *Rana sylvatica* Le Conte. Major Adviser: Prof. Samuel Eddy.

Clifford Sturgis Benton, Glen Ellyn,
Ill.

B.A. '41, Cornell College; M.S. '43, University of Illinois. Major: Organic Chemistry. Minor: Chemistry. Thesis: The Rearrangement of Substituted Allyl Benzimido Ethers. Major Adviser: Prof. W. M. Lauer.

Thomas Mack Barker, Minneapolis

B.A. *magna cum laude* '51, Carleton College; M.A. '52, Harvard University. Major: History. Minor: Geography. Thesis: The Historical Development of the Carinthian Slovene Minority (The Klagenfurt Basin Question). Major Adviser: Prof. H. C. Deutsch.

Charles McMurray Braden, Minneapolis

B.S. '39, Northwestern University; M.S. '50, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Harmonic, Biharmonic, and Related Partial Difference Equations. Major Advisers: Profs. Fulton Koehler and P. C. Rosenbloom.

Walter Samuel Bradfield, San Diego, Calif.

B.S. in M.E. '41, Purdue University; M.S. in A.E. '45, California Institute of Technology; Ae.E. '53, University of Michigan. Major: Aeronautical Engineering. Minor: Mathematics and Mechanics. Thesis: An Experimental Investigation of the Turbulent Boundary Layer in Supersonic Flow Around Unyawed Cones with Small Heat Transfer and Correlations with Two Dimensional Data. Major Adviser: Prof. E. R. G. Eckert.

Morton Kremen Brussel, New Haven, Conn.

B.S. '51, Yale University. Major: Physics. Minor: Mathematics. Thesis: The Elastic Scattering of 40 MEV Protons from Isotopes of Fe, Ni, and Cu. Major Adviser: Prof. J. H. Williams.

Laurent Armand Charette, Kapuskasing, Ontario, Canada

B.S.A. '48, Ontario Agricultural College; M.S. '51, University of Minnesota. Major: Animal Husbandry. Minor: Dairy Husbandry. Thesis: Effects of Sex and Age of Male Castration on Growth and Carcass Quality in Yorkshire Swine. Major Advisers: Profs. R. E. Comstock and L. M. Winters.

Nai Lin Chin, Tientsin, China

B.S. '52, Michigan State College; M.S. '54, University of Minnesota. Major: Soils. Minor: Agronomy. Thesis: The Influence of Various Nitrogen Carriers on the Availability of Fertilizer Phosphorus by Plants. Major Adviser: Prof. A. C. Caldwell.

Glenn Marvin Christensen, Proctor

B.A. '52, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Constitution of Starch Dextrins. Major Adviser: Prof. Fred Smith.

Raymond Ernest Counsell, Vancouver, B.C., Canada

B.S.P. '53, University of British Columbia. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: The Synthesis of Hydroxyquinolizidines and Some of Their Esters as Potential Therapeutic Agents. Major Adviser: Prof. T. O. Soine.

Samuel Joseph Deal, Knoxville, Tenn.

B.S. '49, M.S. '50, University of Tennessee. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: 'Malic' Enzyme Synthesis as a Measure of Nutritional Interactions in *Lactobacillus arabinosus*. Major Adviser: Prof. H. C. Lichstein.

Charles Francis Dicken, Minneapolis

B.A. magna cum laude '50, M.A. '51, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Connotative Meaning as a Determinant of Stimulus Generalization. Major Advisers: Profs. W. A. Russell and J. J. Jenkins.

Albert Harlan Ellingboe, Lakeville

B.S. '53, M.S. '55, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: A Comparative Study of Fungi that Cause Spring Blackstem of Forage Legumes, Particularly Alfalfa and Red Clover. Major Adviser: Prof. M. F. Kernkamp.

Marvin Frederick Field, Manistee, Mich.

B.A. '48, Central Michigan College of Education; M.S. '50, Michigan State College. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: A Study of the Nature of the Stimulatory Effect of Autoclaved Glucose on the Growth of Propionibacteria. Major Adviser: Prof. H. C. Lichstein.

George Francis Flanagan, New York, N.Y.

B.A. '48, M.A. '52, St. Bonaventure University; M.A. '55, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: An Investigation of Religious Attitudes among Catholic Seniors in College Who Have Had Varying Amounts of Catholic Schooling. Major Adviser: Prof. G. M. A. Mork.

Thomas Augustine Flinn, St. Paul

B.A. '47, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Policy Process: the Minnesota Governor and Legislature in 1955. Major Adviser: Prof. M. Q. Sibley.

Robert Claire Hildreth, Cheyenne,
Wyo.

B.S. '49, M.S. '50, University of Wyoming. Major: Plant Pathology. Minor: Horticulture. Thesis: Genetic Variation and Variability of *Fusarium solani* f. *pisi* and *F. oxysporum* f. *pisi* Race 2. Major Adviser: Prof. T. H. King.

Lowell Stephen Jordan, Vale, Ore.

B.S. '54, Oregon State College. Major: Agronomy. Minor: Botany. Thesis: Effects of the Interaction of Varying Temperatures and Light Intensities on the Response of Flax to 2,4-D (2,4-Dichlorophenoxyacetic Acid). Major Adviser: Prof. R. S. Dunham.

Robert Russell Jost, Muncie, Ind.

B.A. *summa cum laude* '48, Sioux Falls College; M.A. '50, University of Minnesota. Major: History. Minor: Political Science. Thesis: An Entrepreneurial Study of a Frontier Financier, 1856-1863. Major Adviser: Prof. Herbert Heaton.

Arvid Cornelius Knudtson, St. Paul

B.S. with distinction '50, M.S. '53, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of Processing Costs in Specialized Butter Plants Receiving Whole Milk. Major Adviser: Prof. E. F. Koller.

Maurice Korman, Brooklyn, N.Y.

B.A. *cum laude* '52, Brooklyn College. Major: Psychology. Minor: Neuropsychiatry. Thesis: An Investigation of Semantic Differences Among, and the Inferential Processes of, Psychiatrists, Psychologists and Psychiatric Social Workers. Major Adviser: Prof. William Schofield.

Tora Marie Larsen, Northfield

B.A. '32, St. Olaf College; M.A. '42, Columbia University; B.S. '47, Mankato State Teachers College. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Student Personnel Records at East Carolina College as Relates to Prediction in Elementary Accounting. Major Advisers: Profs. R. G. Price and C. J. Hoyt.

Arleigh Howard Laycock, Edmonton,
Alberta, Canada

B.A. '49, University of Toronto. Major: Geography. Minor: Economics. Thesis: A Physiographic Classification of Soils for Land Use Planning on the Eastern Slopes of the Canadian Rockies. Major Adviser: Prof. J. R. Borchert.

Stephen Chieh-Yuan Liu, Hunan
Province, China

B.Sc. '51, M.S. '54, National Taiwan University. Major: Plant Pathology. Minor: Botany. Thesis: Biochemical Variability, Biological Reactions of Certain Strawberry Viruses and Their Mechanical Transmission. Major Adviser: Prof. T. H. King.

Ronald Wilson Livers, Waterville,
Kan.

B.S. '48, M.S. '49, Kansas State College of Agriculture and Applied Science. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Linkage Studies with Chromosomal Translocation Stocks in Barley. Major Adviser: Prof. C. R. Burnham.

William Valjean Lumb, Fort Collins,
Colo.

D.V.M. '43, Kansas State College of Agriculture and Applied Science; M.S. '53, Agricultural and Mechanical College of Texas. Major: Veterinary Medicine. Minor: Pharmacology. Thesis: A Study of Canine Haemobartonellosis. Major Adviser: Prof. G. W. Mather.

Robert Glen Lye, Kimberly, B.C.,
Canada

B.A.Sc. '50, M.A.Sc. '52, University of British Columbia. Major: Electrical Engineering. Minor: Mathematics. Thesis: Some Investigations of Secondary Electron Emission. Major Adviser: Prof. A. J. Dekker.

Richard Russell Marsh, St. Paul

B.A. '41, M.A. '46, University of Illinois. Major: History. Minor: English. Thesis: The American Influence in German Liberalism Before 1848. Major Adviser: Prof. L. D. Steefel.

Ellicott McConnell, St. Paul

B.S. '49, University of Connecticut; M.S. '53, University of Minnesota. Major: Entomology. Minor: Bacteriology. Thesis: The Production by *Bacillus thuringiensis* Berliner of a Heat-Stable Substance Toxic for Insects. Major Adviser: Prof. A. G. Richards.

Ronald Ian Hector McKenzie, Indian
Head, Sask., Canada

B.S.A. '51, M.Sc. '54, University of Saskatchewan. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Comparison of F_2 Lines and Their Related F_1 Lines in Two Barley Crosses. Major Adviser: Prof. J. W. Lambert.

Paul Melnychyn, Big Valley, Alberta, Canada

B.Sc. in Ag. '48, M.Sc. '51, University of Alberta. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies of the Interaction of Proteins with Detergents; Effects of pH, Ionic Strength and Detergent Structure. Major Adviser: Prof. D. R. Briggs.

John Harold Miller, Shafter, Calif.

B.S. '46, University of Nebraska; M.S. '48, South Dakota State College. Major: Agronomy. Minor: Agricultural Botany. Thesis: Differential Response of Several Inbreds and Single Crosses of Corn (*Zea mays*) to 2,4-Dichlorophenoxyacetic Acid. Major Adviser: Prof. R. S. Dunham.

Warren Theodore Norman, St. Paul

B.S. with distinction '52, M.A. '55, University of Minnesota. Major: Psychology. Minor: Statistics. Thesis: A Dispersion Analysis of the Interests of 115 Occupational and Reference Groups. Major Adviser: Prof. K. E. Clark.

Kenneth Victor Olson, Aberdeen, S.D.

B.A. '42, Augsburg College; M.A. '50, University of Minnesota. Major: Education. Minor: Biological Science. Thesis: An Experimental Evaluation of a Student-Centered Method and a Teacher-Centered Method of Biological Science Instruction for General Education of College Students. Major Adviser: Prof. P. O. Johnson.

Dean Arthur Ostlie, Northfield

B.A. *cum laude* '53, St. Olaf College. Major: Organic Chemistry. Minor: Chemistry. Thesis: An Investigation Directed Towards the Synthesis of Quinodimethane Derivatives. Major Adviser: Prof. S. W. Fenton.

Walfred Hugo Peterson, St. Paul

B.A. *magna cum laude* '47, M.A. '49, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: The Foreign Policy and Foreign Policy Theory of the American Socialist Party, 1901-1920. Major Adviser: Prof. A. N. Christensen.

Willis Harold Raff, St. Paul

B.A. *cum laude* '48, Hamline University; M.A. '50, University of Minnesota. Major: American Studies. Thesis: Coercion and Freedom in a War Situation; A Critical Analysis of Minnesota Culture During World War One. Major Advisers: Profs. M. Q. Sibley and M. C. Turpie.

John Herman Randall III, Chicago, Ill.

B.A. with honors '43, Columbia University; M.A. '50, University of California. Major: English. Minor: Political Science. Thesis: Willa Cather's Search for Value: A Critical and Historical Study of Her Fiction. Major Adviser: Prof. Bernard Bowron.

Edward Roy Rang, Milwaukee, Wis.

B.S. with honors '49, M.S. '50, University of Wisconsin. Major: Mathematics. Minor: Mathematics and Mechanics. Thesis: Periodic Solutions of Singular Perturbation Problems. Major Adviser: Prof. H. L. Turrittin.

Philip W. Rivers, Lafayette, La.

B.S. '36, University of Minnesota; M.S. '39, Pennsylvania State College. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: The Influence of Type of Activation on the Fatty Acids Resulting from Milk Lipase Action. Major Advisers: Profs. J. J. Jezeski and W. B. Combs.

Harry Wendell Sartain, Roseville

B.S. '48, Bemidji State Teachers College; M.A. '49, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Effect of Workbook Use on Reading Growth of Third Grade Groups at Two Levels of Ability. Major Adviser: Prof. G. L. Bond.

Thomas Akiyoshi Seto, Tacoma, Wash.

B.S. '49, M.S. '55, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Chemical Nature of a Toxic Factor which Causes Aplastic Anemia in Calves. Major Adviser: Prof. M. O. Schultze.

Alfred Eugene Slinkard, Rockford, Wash.

B.S. '52, M.S. '54, State College of Washington. Major: Plant Genetics. Minor: Plant Pathology. Thesis: The Relationships in Two Barley Crosses Between F_2 Plants and Their Progenies Grown in Hills. Major Adviser: Prof. J. W. Lambert.

Charles Maxwell Stine, St. Paul

B.S. with honors '51, M.S. '52, Pennsylvania State College. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: A Study of Lipid Oxidation in Dry Whole Milk. Major Adviser: Prof. S. T. Coulter.

Robert Dale Turnacliﬀ, St. Paul
B.M.E. with distinction '45, M.S. in M.E. '47, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Experimental Study of Local Convective Heat Transfer and Pressure Drop for Laminar and Turbulent Flow of Air Within a Uniformly Packed Bed of Spheres at Three Different Porosities. Major Adviser: Prof. E. R. G. Eckert.

Shohachi Wada, Kanagawa-ken,
Japan

B.S. '41, University of Tokyo; M.S. '55, University of Minnesota. Major: Agricultural Biochemistry. Minor: Public Health. Thesis: Structural Studies on Soybean Hemagglutinin. Major Adviser: Prof. M. O. Schultze.

Richard Norris Walker, Greenwich,
Conn.

B.A. '49, Yale University; M.A. '51, University of Minnesota. Major: Child Welfare. Minor: Psychology. Thesis: Children's Mosaic Designs: A Normative and Validating Study of the Lowenfeld Mosaic Test. Major Adviser: Prof. D. B. Harris.

Robert Gerard Warnken, St. Cloud
B.A. '53, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Educational Background of Male Schizophrenic Patients. Major Adviser: Prof. R. F. Berdie.

Thomas George White, St. Paul

B.S. '48, University of Oklahoma; M.S. '52, Harvard University. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Further Studies on a Nonspecific Bovine Serum Agglutinin. Major Adviser: Prof. D. W. Watson.

Donald James Wynnemer, Waseca

B.Ch.E. with distinction '53, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Thermodynamic Properties of the Zinc-Cadmium System by EMF Measurements. Major Adviser: Prof. N. H. Ceaglske.

James Juei-chin Yeh, Tainan, Formosa

B.S. '50, National Taiwan University; M.A. '54, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Nonlinear Volterra Functional Equations and Linear Parabolic Differential Systems. Major Adviser: Prof. R. H. Cameron.

Doctor of Philosophy in Surgery

Raymond Charles Read, Minneapolis

M.A. '44, Cambridge University; M.D. '51, M.S. '57, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: Hemodynamic Aspects of Total Body Perfusion. Major Adviser: Dr. C. W. Lillehei.

Academic Costume

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

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

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

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

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

(In the order of march)

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

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

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



UNIVERSITY OF MINNESOTA

Senior Reception

December 1957

- The members of the Senior Class, their relatives, and friends are invited by President and Mrs. James Lewis Morrill to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the main ballroom of the Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Morrill, His Excellency, Dr. You Chan Yang, Mr. James Osterhus, President, All-University Congress, and Mr. Terry Olofson, President, Coffman Union Board of Governors.
- Christmas carols will be sung by the Men's Glee Club Ensemble, directed by Assistant Professor of Music Norman Abelson.
- Assisting in the Reception are members of the Union Board of Governors and its committees. These students wear maroon and gold ribbons.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1957.
- Punch will be served. Members of the Union Board of Governors and its committees will preside at the punch tables.