

THE  
UNIVERSITY OF MINNESOTA

Announces Its

*March Commencement*

*1960*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, MARCH 17

AT EIGHT-THIRTY O'CLOCK



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. Laurence R. Lunden, Secretary

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The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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As a courtesy to those attending functions, and out of respect for the character of the building, be it resolved by the Board of Regents that there be printed in the programs of all functions held in the Cyrus Northrop Memorial Auditorium a request that smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms, 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 ninth 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 physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—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 146,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 26,000 students on its Minneapolis, St. Paul, and Duluth Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, 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, 4-H Club agents, and recreation and health consultants give effective 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 the diverse research laboratories on its three campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists at any one moment are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with such matters as cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, nuclear energy, school surveys, and new varieties of grains, fruits, and flowers, 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, Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. 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 disease. Further contributions have made it possible for the University to build the Masonic Memorial Hospital and the Veterans of Foreign Wars Cancer Research Center and are making it possible to construct Diehl Hall (which will house the biological-medical library and additional medical research facilities).

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 number 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 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1959-61 biennium. In addition, the University will receive \$8,879,748 for University Hospitals; \$4,141,355.69 for special appropriations, including special extension and research activities; and \$14,457,150 for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is 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 1958-59 showed that the University received \$88,524,771.68 and spent \$88,520,513.75. This includes a total of \$14,333,868.14 received from student tuition and fees, hospital and other department receipts; \$1,205,359.98 from intercollegiate athletics; \$13,941,035.89 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from the revolving funds; and \$1,205,359.98 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. Also, \$3,176,924.03 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$88,524,771.68 which the University received for 1958-59, \$38,410,936.10, or 43.4 per cent, came from the state.

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

## Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University from 7:45 to 8:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Miss Helen Garvey, '60, Carillonneur. Admission to the March commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

**PRELUDE CONCERT:** From 8:00 to 8:30 p.m., the University Concert Band Ensemble, conducted by Instructor in Music and Bandmaster Gale L. Sperry, Ph.D., will play:

*Jericho Rhapsody* - - - - - Gould

*Hartshorn* - - - - - Whear

*Folk Song Suite* - - - - - Williams

1. *March, Seventeen Come Sunday*
2. *Intermezzo, My Bonny Boy*
3. *March, Folk Songs from Somerset*

### PROCESSIONAL:

*Perstare et Praestare* - - - - - James

**ON THE STAGE:** As candidates for degrees enter the Auditorium at 8:30 p.m., the curtain will be opened. Seated on the stage, from left to right, are: Professor Ole Gisvold, Ph.D., College of Pharmacy, Marshal; Assistant Professor Olaf E. Kolari, Ph.D., Institute of Agriculture, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Associate Dean Huntington Miller, LL.B., General Extension Division; Associate Dean J. William Buchta, Ph.D., College of Science, Literature, and the Arts; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Colonel Robert O. Bowen, USMC, Professor of Naval Science; Dean of Students Edmund G. Williamson, Ph.D.; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Harold Macy, Ph.D., Institute of Agriculture; Dean Robert E. Summers, M.S., M.E.; President Arthur S. Adams, Sc.D., American Council on Education, Commencement Speaker; President James Lewis Morrill, LL.D., University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; The Reverend H. A. Guiley, Adviser to Episcopal students and staff members on the Minneapolis Campus of the University; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Horace T. Morse, Ph.D., General College; Dean Walter W. Cook, Ph.D., College of Education; Professor John C. Kidneigh, Ph.D., Graduate School; Colonel Arthur W. Dern, USAF, Professor of Air Science; Assistant Dean Richard J. FitzGerald, LL.B., Law School; Colonel Roy K. Kauffman,

## *Order of Events*

USA, Professor of Military Science and Tactics; Professor Roy A. Schuessler, M.M., Music; Professor Ernest H. Henrikson, Ph.D., College of Science, Literature, and the Arts, Marshal.

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

THE NATIONAL ANTHEM: The entire audience and Professor Schuessler:

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 H. A. Guiley.

SPEAKING FOR THE UNIVERSITY: President James Lewis Morrill.

COMMENCEMENT ADDRESS: President Arthur S. Adams, American Council on Education, "Principle Comes First."

CONFERRING OF ROTC CERTIFICATES: Dean Summers will introduce Colonel Kauffman, Colonel Bowen, and Colonel Dern, who will present the candidates for commissions in their respective branches of the armed services. The certificates of ROTC completion will be presented by President Morrill.

PRESENTATION OF CANDIDATES: Dean Summers 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 Miller for the General Extension Division; Dean Morse for the General College; Associate Dean Buchta for the College of Science, Literature, and the Arts, and for University College; Dean Spilhaus

## Order of Events

for the Institute of Technology; Dean Macy for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Dean Kozelka for the School of Business Administration; Assistant Dean FitzGerald for the Law School; Dean Howard for the College of Medical Sciences; Professor Kidneigh for the Graduate School.

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

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

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

**HAIL! MINNESOTA,** the University's Alma Mater song. The audience and Professor Schuessler:

Minnesota, hail to thee!	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:**

*Fanfare and Allegro* - - - - - Williams

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

## *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the 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**

Richard P. Ahlberg, St. Paul

William O. Snipes, Mahtomedi

#### **Second Lieutenant, Army Intelligence Corps**

Paul E. Anhalt, Minneapolis

Carlyle R. Hennen, Eagle Bend

#### **Second Lieutenant, Artillery**

David R. Selken, Minneapolis

Morton D. Silverman, Minneapolis

#### **Second Lieutenant, Finance Corps**

Gregory B. Kujawa, St. Paul

#### **Second Lieutenant, Infantry**

Vitalij Garber, Minneapolis

Robert E. Tanner, Minneapolis

#### **Second Lieutenant, Medical Service Corps**

Jerrold I. Leeson, Golden Valley

#### **Second Lieutenant, Transportation Corps**

George A. Dean, Minneapolis

Lawrence A. Wilson, Minneapolis

### DEPARTMENT OF NAVAL SCIENCE

#### **Ensign, USN**

Gary LaVerne Carlson, Red Wing



**DEPARTMENT OF AIR SCIENCE**  
**Second Lieutenant, USAF Reserve**

Denis J. Lambert, Minneapolis

Robert L. Taus, Crookston

*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 Administration Certificate**

Leo Joseph O'Brien, Minneapolis

Edward Joseph Sullivan, Minneapolis

**Engineering Science Certificate**

Forrest Clayton Huyck, Minneapolis

**General Engineering Certificate**

Richard Earl Brings, St. Paul

Edward Joseph Ryan, St. Paul

Kenneth Lyle Olson, Minneapolis

**Industrial Engineering Certificate**

David Blair, Minneapolis

**GENERAL COLLEGE**

**Associate in Arts**

Dennis Walter Anderson, Minneapolis

David Walter Archibald, Deerwood

Marion Eugene Atkins, St. Paul

Gerald Jerome Bachman, Minneapolis

Verdean August Baerenwald, St. Paul

Merwin George Beckelman, Minneapolis

John Lawrence Bell, Edina

Jay Weston Brask, Minneapolis

Philip Romain Buer, Atwater

Bruce Oliver Burud, Minneapolis

Jack William Canfield, St. Paul

Gerald Stanley Carlson, Minneapolis

James Edward Carlson, Minneapolis

Mark Crocker Case, Mound

Carolyn Therese Cecka, Minneapolis

Paul David Chader, Minneapolis

Paul James Dahle, Spring Grove

Mark Alan Denny, Long Lake  
 David Dennis Dick, Wayzata  
 Daniel Howard Duboff, Minneapolis  
 Gene Robert Dumas, Minneapolis  
 Bradley Elling Dybevic, Blue Earth  
 Kent Roger Ellison, Minneapolis  
 Jerry Vincent Farley, Rochester  
 Kenneth Lyle Foster, St. Paul  
 Duane Olaf Froistad, St. Paul  
 Herschel Burroughs Fryberger III,  
 Duluth  
 Melvyn Joseph Gantman, St. Paul  
 Thomas Page Gray, Minneapolis  
 Peter Jurg Grossenbacher, Switzerland  
 Roger Gunnard Gustafson, Minne-  
 apolis  
 John Boothroyd Harlis, Red Wing  
 Donald Michael Harvey, St. Paul  
 Nancy Sue Helseth, Minneapolis  
 George Maurice Henningsen, Minne-  
 apolis  
 Roger William Humola, Minneapolis  
 David Kay Humphrey, St. Paul  
 Mary Ellen Irish, St. Paul  
 Daniel Joseph Ivory, St. Paul  
 Arthur Hammond Jewett, Minneapolis  
 Roger Noel Johnson, Minneapolis  
 Richard Raymond Kempfer, Minne-  
 apolis  
 George John Kempton, Jr., Minne-  
 apolis  
 Robert McGill Krueger, St. Paul  
 Harold Charles Kusske, Mayer  
 Mailand Earl Lane, Jr., Minneapolis  
 Richard William Lange, St. Paul  
 Peter LeRoy Marcy, Columbia Heights  
 John Raymond Martin, Minneapolis  
 Bruce John McKusick, Minneapolis  
 Charlotte Ann McNutt, Minneapolis  
 James Walter Nelson, St. Paul  
 Edward Watts Noble, Minneapolis  
 Mary Jeannette Oberg, Lake City  
 Mary Jo O'Dwyer, St. Paul  
 Allan G. Ofstedahl, Minneapolis  
 Douglas B. O'Rielly, South St. Paul  
 Paul Daniel Pederson, Minneapolis  
 Leonard Bernette Peterson, Ogilvie  
 Denis Leon Polley, Cook  
 Robert Edward Pouti, Minneapolis  
 Richard Allen Redner, St. Paul  
 Carol Howard Reeve, Zumbrota  
 Joan Preston Riedesel, Rockford, Ill.  
 John Benedict Roemer, Minneapolis  
 Antonette Rynders, Minneapolis  
 Thomas Edward Saltz, Mendota  
 Kenneth Bernard Sanville, Minne-  
 apolis  
 Roger Merrill Schoen, St. Paul  
 Sanford Maurice Serulnic, Minneapolis  
 David Bitner Sisco, Minneapolis  
 Willard Leo Smith, Minneapolis  
 Sylvan Earl Stephani, Austin  
 Edward Walter Stephens, St. Paul  
 Robert Anthony Swanson, Hastings  
 Tom Tennant, Minneapolis  
 Gerald Fay Thomas, Minneapolis  
 Anthony Alan Thompson, Minne-  
 apolis  
 Ronald Joseph Werness, Hopkins  
 Dennis Henry Weston, Minneapolis  
 Delina M. J. Williams, Nashwauk  
 Donald Carl Williamson, Minneapolis  
 Carmen Evon Wronski, Minneapolis

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Olive Frances Caldbeck, Stewartville  
 Marjorie Edith Edelman, Minneapolis  
 Delores Olga Fuchs, Hopkins  
 Judith Ann Gardner, St. Paul  
 Alfred Richard Henriksen, Minne-  
 apolis  
 Pauline Frieda Kocourek, Eden Prairie  
 Kathleen Sharon Larkin, Minneapolis  
 David Bruce Nelson, Minneapolis  
 Guy Edward O'Grady, Minneapolis  
 Peter M. Prins, Minneapolis  
 Leonard Gregory Soroka, Minneapolis  
 Robert Eugene Swanson, Stillwater  
 Evelyn Arlene Thode, Minneapolis  
 Karen Gayle Weed, Kalispell, Mont.

## Bachelor of Arts

- Richard Paul Ahlberg, A.L.A., St. Paul  
 Charles Gregory Algiers, Hartford,  
 Wis.  
 Sylvia Bess Allen, Minneapolis  
 Helen Jean Axtell, Minneapolis  
 Igor Serge Babichev, A.L.A., Kiev,  
 Russia, CUM LAUDE  
 Warren Sanders Balfany, Minneapolis  
 Gerald Duane Baxter, Minneapolis  
 Sumner Cutter Benson, Minneapolis  
 Sally Sullivan Berg, A.L.A., Minne-  
 apolis  
 Gerald John Bias, Wells  
 Barbara Christine Boosalis, Minne-  
 apolis  
 Loren Dean Boutin, Willmar  
 Sarah Elizabeth Bowman, Los Angeles,  
 Calif.  
 Frank Anthony Bracchi, Minneapolis  
 Gale Ruth Brower, Minneapolis, CUM  
 LAUDE  
 Eugene Melvyn Byland, St. Paul  
 Gary LaVerne Carlson, Red Wing  
 Eugene Willard Carroll, Arlington,  
 Va.  
 Thomas Henry Correll, St. Paul  
 Leigh Fletcher Countryman, St. Paul  
 George Arthur Dean, A.A., Minne-  
 apolis  
 Le Roy Thomas Ditsch, Minneapolis  
 Emmert Henry Dose, Lester Prairie  
 Dale John Dowdal, Minneapolis  
 Leonard Graves Edelen, Jr., Sioux  
 Falls, S.D.  
 John William Egan, Jr., St. Paul  
 Myrna Irene Eickhoff, Fountain, CUM  
 LAUDE  
 Kathleen O. Johnson Erickson, Minne-  
 apolis, CUM LAUDE  
 Maria Casas Faunce, Minneapolis  
 Edwin Le Roy Ferguson, A.A., Circle  
 Pines  
 James Robert Fink, Victoria  
 Susan Jean Freeman, Minneapolis,  
 CUM LAUDE  
 Mark Johnson Fuhrman, A.A., Perham  
 Ruth Jeanette Kathan Gillis, Minne-  
 apolis  
 Wayne Gilbert Graner, St. Paul  
 Larry Charles Grove, Dawson, SUMMA  
 CUM LAUDE  
 William J. Gutches, Minneapolis  
 Roger Evan Haaheim, Minneapolis  
 LaDonna Virginia Halvorsen, Minne-  
 apolis  
 Roberta Jean Harris, Minneapolis  
 James Robert Helfmann, St. Paul  
 Carlyle Raymond Hennen, Eagle Bend  
 Bernie Herman, Minneapolis  
 Gerald William Holl, Minneapolis  
 James Peter Horgen, A.A., Twin Lakes  
 Bohdan Hreszczak, St. Paul  
 John Clyde Hunkins, Minneapolis  
 Margo Lynn Irizarry, A.A., Edina,  
 CUM LAUDE  
 Jean Dawn Jacobson, Lanesboro  
 Robert Henry Johnsen, Minneapolis  
 Betty Ogren Johnson, St. Paul  
 Sharon Ann Jorgensen, St. Paul  
 Warner Eugene Kachel, Fairmont  
 David Armand Kangas, Coleraine  
 Elisabeth Anne Kanrich, Evanston,  
 Ill., CUM LAUDE  
 Diane Marcia Katz, Minneapolis, CUM  
 LAUDE  
 Joyce Karen Kessel, Lamoure, N.D.  
 Daniel Carl Kieselhorst, Minneapolis,  
 CUM LAUDE  
 John William Kitson, Minneapolis  
 Sonja Knudsen, A.A., Maywood, Ill.,  
 CUM LAUDE  
 Robert Allin Kolstad, Albert Lea  
 Ross Mitsuo Kumagai, Minneapolis  
 Stanley Warren Kummer, St. Cloud  
 Jacqueline JoAnne Larson, Minne-  
 apolis  
 John Stanley Lawrence, St. Paul  
 Jerrold Irwin Leeson, A.A., Golden  
 Valley  
 Sheldon Mace Levin, St. Louis Park  
 Rubell Alice Lindman, Benson,  
 MAGNA CUM LAUDE  
 Emilie Loss, North St. Paul  
 Martin Joseph Loula, Jr., Minneapolis  
 Hubart Stouex Lovewell, Jr., A.A.,  
 Hopkins  
 Nancy Virginia Low, St. Paul  
 Rosalie Lorraine Marsh, Minneapolis

*Diane Lucille McCleary, St. Paul, CUM LAUDE*  
*Margarette Susan Monson, LaCrosse, Wis., CUM LAUDE*  
*William James Mraz, Brainerd*  
*Joel David Nash, St. Paul, CUM LAUDE*  
*Phillip Dean Nelson, St. Paul, MAGNA CUM LAUDE*  
*Christopher Opstad, Minneapolis*  
*Loring Swift Palmer, St. Louis Park*  
*James Arthur Perkins, Chatfield*  
*Daniel Perlmutter, Minneapolis*  
*James Harold Peterson, Minneapolis*  
*William Asa Phelps, Minneapolis*  
*Evelyn Marie Powers, Walker*  
*Jane Quale, Minneapolis, MAGNA CUM LAUDE*  
*Paul Trelstad Quello, St. Paul*  
*John Burton Rachie, Minneapolis*  
*Milton Robert Ravensborg, Minneapolis*  
*Thomas Henry Raymond, International Falls*  
*Ralph Lee Vurne Rickgarn, Hadley, CUM LAUDE*  
*Albert Eugene Rindfleisch, St. Paul*  
*Beverly June Rodger, Minneapolis*  
*Roger Lind Rovick, Edina*  
*Nile Richard Runge, Wayzata*  
*Sandra Elaine Samson, New Brighton*  
*Roger William Schoenecker, St. Paul*  
*James Jerome Schulte, St. Paul*

*David Ray Selken, A.A., Minneapolis*  
*Christian Klebo Skjervold II, Westbrook*  
*Mitchell Eldred Smilanich, Minneapolis*  
*William Oliver Snipes, Mahtomedi*  
*Stephen J. Sobilloff, Topeka, Kan., CUM LAUDE*  
*Patricia Marie Solberg, A.L.A., Minneapolis, CUM LAUDE*  
*Beverly Eva Joyce Starr, New York Mills*  
*Charles Porter Stone, Jr., Minneapolis, CUM LAUDE*  
*Roberta Agnes Strauss, St. Paul*  
*Roberta Wileman Stroebel, Rochester, CUM LAUDE*  
*Paul Kendell Thompson, Minneapolis*  
*Hugh James Tierney, Jr., St. Paul*  
*Clair Duane Vopava, Minneapolis*  
*Diane Frances Warrington, Austin, CUM LAUDE*  
*Katharine Sigrid Waters, Minneapolis*  
*Inna Wdowenko, Minneapolis*  
*Paul Cornelisen White, St. Paul*  
*Phyllis Beverly Wiegand, St. Paul*  
*Allan James Willis, Minneapolis*  
*Claire Delphine Wilson, Rochester*  
*Franklin Eugene Witso, A.A., Minneapolis*  
*James Warren Wolner, Turton, S.D.*

## UNIVERSITY COLLEGE

### Bachelor of Arts

Suzanne Mary Perrizo, Benson

### Bachelor of Science

Morton Douglas Silverman, B.B.A., Minneapolis

## INSTITUTE OF TECHNOLOGY

### Certificate in Science

James Edward Kelley, Minneapolis

Keith Lewis Mueller, Arlington

## Bachelor of Science

LeRoy Thomas Boyer, Ada  
Robert Dean Holtz II, St. Louis Park  
George Bruce Mattson, Minneapolis,  
WITH DISTINCTION

Halbert Louis Mork, Minneapolis,  
WITH HIGH DISTINCTION

## Bachelor of Aeronautical Engineering

Carl James Dahn, Le Sueur

## Bachelor of Agricultural Engineering

Frederick Gordon Bergsrud, Spring Grove

## Bachelor of Architecture

Ronald Arthur Melander, St. Paul

## Bachelor of Civil Engineering

Lloyd Wayne Darg, Albert Lea  
Robert Arthur Fiss, St. Paul  
Harry Edward Harvey, Grand Rapids,  
WITH DISTINCTION  
Richard Howard Harvey, Virginia  
Marvin Lars Helgeson, A.A., Wood  
Lake  
James John Hill, Staples  
Clarence Dale Korn, Hastings  
Martin Joseph Kroening, Minneapolis  
Eugene Allen Lindholm, Harris  
Duane Ralph Miedtke, Fairmont

Charles Calvin Modisette, Detroit  
Lakes  
Kenneth Henry Nass, Belle Plaine  
Robert Frank Otto, Minneapolis  
Victor Gayden Perry, Carroll, Iowa  
John Walter Seemann, Minneapolis  
Hilary Michael Theisen, Park Rapids  
Richard Edison Turner, St. Charles,  
WITH DISTINCTION  
Thomas Neil Tweeton, Minneapolis  
Donald John Valento, White Bear  
Lake

## Bachelor of Electrical Engineering

Elmer Marvin Lalli, St. Paul

## Bachelor of Mechanical Engineering

Allan Dennis Abel, Breckenridge  
Kenneth Alfred Aho, Gilbert  
John Russell Anderson, St. Paul  
Robert Charles Brecht, Minneapolis  
Daniel Leo Ficker, Minneapolis

Willis Carl Freested, B.S., Minne-  
apolis  
George Anthony Gregori, Minneapolis  
Donavon Eugene Grenier, B.S.,  
Minneapolis

Clyde Dale Heeler, Minneapolis  
Larry John Hink, Grand Rapids  
Richard Charles LaSell, Minneapolis  
Thomas Charles Olson, Mound  
David Owen Saucier, Minneapolis

Frank John Snidarich, St. Paul  
James Lynn Talmage, St. Paul  
Daniel George Tricweiler, St. Paul  
William Charles Viebahn, Duluth  
Seppo Johannes Viikinsalo, Parkville

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

### Bachelor of Science

Eugene Clifford Beam, Lakefield, Agriculture  
Guenther Carl Behrens, Arlington, Iowa, Agriculture, WITH DISTINCTION  
Dallas Frederick Bohnsack, New Prague, Agriculture  
Wilmot A. Campbell, Minneapolis, Agriculture  
MaryAnn Setre Cook, Minneapolis, Home Economics  
Walter E. Glowacki, Palos Heights, Ill., Forestry  
Douglas Dean Guenther, Alden, Agriculture  
Marie Ellen Hemen, Minneapolis, Home Economics  
James Roger Hildman, St. Paul, Agriculture  
Lee Roy W. Hinds, Akeley, Forestry  
Mary Elizabeth Wickkiser Johnson, East Grand Forks, Home Economics  
Thomas Herbert Klepperich, A.L.A., St. Paul, Forestry  
Charles Henry Lowery, North St. Paul, Forestry  
Garth Edward Miller, West Concord, Agriculture, WITH HIGH DISTINCTION

Mary Patricia Oberg, Alexandria, Home Economics  
Alvin David Offerman, Montevideo, Agriculture  
John Vere Okey, St. Paul, Agriculture  
Duane Levi Packer, Palisade, Forestry, WITH HIGH DISTINCTION  
David Raymond Pauly, Hopkins, Agriculture  
Willis Lester Peterson, Anoka, Agriculture, WITH HIGH DISTINCTION  
Arnold Patrick Schoenbauer, New Prague, Agriculture  
Mary Ann Schultz, Huron, S.D., Home Economics  
Harlan Stoehr, A.A., Elgin, Agriculture  
Lloyd Vernon Swanson, Rock Creek, Agriculture  
James Wayne Teskey, Blue Earth, Forestry  
John Fredrick Tordsen, Elbow Lake, Agriculture  
Marvin Gene Turner, Colfax, Wis., Forestry  
John Burray Watz, St. Paul, Agriculture  
Jerry Ronald Weldy, Fairfax, Agriculture

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

### Bachelor of Science

Kathryn Marie Bylund Anderson, Mora, Home Economics Education

Donald Ordell Brandt, Granite Falls, Agricultural Education

William John Feil, Byron, Agricultural Education  
 Charles Everett Furr, Waseca, Agricultural Education  
 Yvonne Marie Girard, St. Paul, Home Economics Education  
 Ronald James Hayes, Mt. Lake, Agricultural Education  
 William Edward Hohenhaus, Faribault, Agricultural Education  
 Charles Palmer Johnsen, Duluth, Agricultural Education  
 Kenneth Edward Just, Wood Lake, Agricultural Education

Dianne Louise Knutson, Houston, Home Economics Education  
 Marlene Deanna Marble, Pipestone, Home Economics Education  
 George James Rabehl, Rochester, Agricultural Education, WITH HIGH DISTINCTION  
 Russel S. Schmiesing, Minnesota Lake, Agricultural Education  
 Vernice Darlene Hovda Weber, Roseau, Home Economics Education  
 Franklin James Williams, Taylors Falls, Agricultural Education  
 Marvin Dale Ziner, Owatonna, Agricultural Education

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

### Bachelor of Agricultural Business Administration

Willis Eugene Anthony, St. Peter

Jerome Leo Malone, Wadena

## COLLEGE OF EDUCATION

### Bachelor of Science

Carol Lynne Alberts, Hopkins, WITH DISTINCTION  
 Myron Vernard Anderson, St. Peter  
 Mary Anne Bittner, Port Deposit, Md.\*  
 Don Allen Brodersen, Hopkins  
 Carol Ann Krause Budack, A.L.A., Minneapolis  
 Roger Peter Buettner, Red Wing  
 Carol Joy Carlson, Minneapolis  
 Shirley Ann Carlson, Hector  
 Gail Harriett Christmas, St. Paul, WITH DISTINCTION  
 Arlene Louise Wittke Clapp, Minneapolis  
 Victor Burton Coffman, Minneapolis  
 Jerome Elvin Dahlberg, Minneapolis  
 John Matthew Deyak, Ely

Richard Thorlief Eide, A.A., Minneapolis  
 Armand Elroy Falk, B.A., Minneapolis  
 Merlin Ardell Flattum, Clinton, WITH DISTINCTION  
 Grace Marie Frejlach, Faribault, WITH DISTINCTION\*  
 Vincent Phillips Fryer, A.A., Rochester  
 Geraldine Frances Gagnon, St. Paul  
 Nela Ann Gates, Minneapolis  
 James Lyle Gavenda, Minneapolis  
 Bernard Leon Grapp, Lakeville  
 Carol Emma Grewe Grayson, St. Paul  
 Susan Meredith Greenfield, B.A., Cokato  
 Sharon Esther Guy, Anoka

\* Nursing Education Curriculum.

- Marie Genevieve Hackert, Minneapolis  
 Barbara Amelia Hedin, Red Wing  
 Gerald Lawrence Hilsman, Minneapolis, WITH DISTINCTION  
 Dorothy Thomas Hoffman, Owatonna  
 Marshall Francis Hurley, St. Paul, WITH DISTINCTION  
 Janet Frances Johnson, Minneapolis  
 Roger Rene Johnson, Eau Claire, Wis.  
 Eugene Byron Kairies, Jr., Minneapolis  
 William John Karlson, Minneapolis  
 Marilyn Alice Katzman, Minneapolis  
 Marilyn Anne Kennedy, Willow River\*  
 Idelle Laverne Bruer Kline, Minneapolis  
 Mary Elizabeth Knudsen, Minneapolis  
 Mary Catherine Komives, St. Paul, WITH DISTINCTION  
 Sharon Lee Kovacik, Minneapolis, WITH DISTINCTION  
 Joan Rosalie Cramer Levinsohn, Minneapolis  
 Peter Mark Lindberg, B.A., Rock Island, Ill.  
 Carol Ann Mankowski, Minneapolis, WITH DISTINCTION  
 Mary Ann Marchand, Minneapolis  
 Jerome Joseph Meyer, Cold Spring  
 Richard Gregory Mraz, Brainerd, WITH DISTINCTION  
 Jean Elizabeth Naslund, Austin, WITH DISTINCTION  
 Janice Marilyn O'Connell, St. Paul  
 Ann Elizabeth Olson, Duluth  
 Eva French Olson, Wayzata, WITH DISTINCTION  
 Virginia Ann Mears Overbye, St. Paul  
 Robert Arnold Paulson, Willow River  
 Edward James Payne, Minneapolis  
 Mary Lucille Philpison, Tracy, WITH DISTINCTION  
 Karen Grace Poquette, Minneapolis  
 Dorothy M. Richter, White Bear Lake, WITH DISTINCTION  
 Anita Ann Robinson, Sioux Falls, S.D.  
 Eva J. Kosiak Robinson, Chisholm  
 Roberta Hausbach Scott, Cheyenne, Wyo.\*  
 Jerome Jay Shetler, Minneapolis  
 Ivan Merrill Shobe, Chisago City, WITH DISTINCTION  
 Robert Philip Snow, Minneapolis  
 James Leonard Steele, Minneapolis, WITH DISTINCTION  
 Marilyn Esther Stevenson, Minneapolis  
 Nancy Lee Taylor, St. Louis Park  
 Elaine Delores Voldsness, Eau Claire, Wis.\*  
 Will Carl Wachtler, St. Paul  
 Nancy Lane White, St. Paul  
 Susan Marie Guzy Wright, Minneapolis

## Master of Education

- Charles Eugene Gagnon, A.A., B.S., Minneapolis  
 William Allen Haggstrom, B.S., Minneapolis  
 David Leo Krueger, B.S., Tomah, Wis.

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

- Roger Charles Anderson, A.A., Minneapolis  
 Robert Harold Bretz, Minneapolis  
 Robert Lee Bullard, Minneapolis  
 David Arthur Cline, St. Paul  
 Roger Wilbert Durbahn, St. Paul

\* Nursing Education Curriculum.



Raymond Herman Ehlers, A.L.A.,  
 Rose Creek  
 Gerald Eugene Fenton, Minneapolis  
 Walter Peter Gardner, Jr., St. Paul  
 Arthur Peydon Guy III, Mound  
 Thomas Edward Hanson, Willmar  
 Keith Elwood Jacob, B.S., St. Paul  
 Philip Vernon Johnson, Brandon  
 Gregory Bruce Kujawa, St. Paul  
 Charles Elvig Lamberton, Redwood  
 Falls  
 James Andrew Lehet, Moose Lake  
 Gerald Herman Lenzen, Waconia  
 Ronald Gregory Liddiard, Minneapolis  
 Roland Ralph Lins, Cologne  
 Thomas Wayne Mangan, Minneapolis  
 Warren Dudley Mays, Minneapolis  
 David Allen McChesney, Cornell,  
 Wis.

Allen Douglass Michie, Austin  
 Lawrence Patrick Nelson, St. Paul  
 Steven Bruce Paschke, Blue Earth  
 Harold Edwin Peters, A.A., Minne-  
 apolis  
 Arthur Gene Peterson, St. Paul  
 John Goodchild Peterson, Minneapolis  
 Wallace Dale Rothrock, Minneapolis  
 Donald Peter Schwab, Winona, WITH  
 HIGH DISTINCTION  
 Wallace Eugene Scofield, Minneapolis  
 Hugh Willson Solberg, Minneapolis  
 Daryl Benhart Stevens, Marietta  
 Mark Arden Struble, Wyoming  
 Richard George Verket, St. Paul  
 David John Westendorf, Zumbro  
 Falls

## Bachelor of Science in Business

Hartland Owen Beck, St. Paul  
 Derald Lee Bramlett, St. Paul  
 Robert Leslie Charon, Grand Rapids,  
 Mich.  
 Norman Dwayne Dykema, Willmar  
 Richard Waldo Evenson, Bagley  
 Joel Edward Fryer, Detroit Lakes  
 John Edward Hollander, Jr., Bayport

Denis John Lambert, Minneapolis  
 Jonathan Rask Lee, Austin  
 Ronald John Nida, Minneapolis  
 James Edmund Paul, B.S., Chippewa  
 Falls, Wis.  
 David McKinlay Quilling, St. Paul  
 Gary Kenneth Sampson, Crystal  
 Elton Maurice Streeter, Buffalo Lake

## Bachelor of Science in Economics

Martin Beer, Laurelton, N.J.  
 John Freeman Bergford, Jr., Minne-  
 apolis

Scott McNeil Eddie, Hibbing, WITH  
 DISTINCTION

## LAW SCHOOL

### Bachelor of Science in Law

Craig Thomas Sawyer, Northfield

Robert Allen Stein, Minneapolis

### Bachelor of Laws

Roderick Dean Blanchard, B.S.L.,  
 Edina  
 Noel Cecil Case, B.A., Minneapolis

Roy Edwin Dean, B.A., St. Peter  
 Gerald Gunnard Eastman, B.S.L.,  
 Minneapolis

Robert Bruce Hawkins, B.A., Minneapolis, MAGNA CUM LAUDE  
 Francis Richard McArthur, B.A., St. Paul  
 Richard Joseph Menke, B.S.L., Jordan  
 John V. Norton, B.S.L., Hutchinson  
 Arnold Sanford Petersen, B.S.L., Milroy

Stephen Dodge Pugh, B.A., St. Paul  
 Craig Thomas Sawyer, Northfield, CUM LAUDE  
 Kurt Fredrick Walther, B.S.L., Minneapolis  
 Gary George Widell, B.S.L., Minneapolis

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing\*

Bonnie Lou Anderson, St. Paul  
 Jean Darlene Anderson, Powers Lake, N.D.  
 Marilyn Anita Anderson, Moorhead  
 Mary Edith Arnquist, Glenwood City, Wis, WITH DISTINCTION  
 Nancy Nunstedt Bargaen, Grand Marais  
 Barbara Jean Bebler, Marshall  
 Sharon Anastasia Birk, Buffalo  
 Dorothy Catherine Brady, Hibbing  
 Mary L. McGrew Christensen, Duluth  
 Ella Marie Coffing, Nielsville  
 Beverly Spriestersbach Collins, Pine Island  
 Loretta Isaacson Dawes, Pelican Rapids  
 Suzanne Jean Doehring, Altadena, Calif., WITH DISTINCTION  
 Joanne Mary Elliott, Stillwater, WITH DISTINCTION  
 Josephine Ann Ellsworth, Minneapolis  
 Carol Josephine Engevik, Gatzke, WITH DISTINCTION  
 Janice Marie Erickson, A.A., Trimont  
 Marilyn Mae Walter Garwood, St. Paul, WITH HIGH DISTINCTION  
 Betty Swanson Gibson, Montevideo, WITH HIGH DISTINCTION  
 Mary Kathryn Gilbert, Winona  
 Gwendolyn Rose Good, Faribault, WITH DISTINCTION  
 Evelyn Bernice Hedman, St. Paul, WITH DISTINCTION

Rosemary Hegerle, St. Bonifacius, WITH DISTINCTION  
 Rita Lucille Hoeschen, Minneapolis, WITH DISTINCTION  
 Sharon Syverson Huber, Benson  
 Mary Gay Hulin, Detroit Lakes  
 Sandra Sue Iverson, Montevideo  
 Kathryn Margaret Jensen, Brownnton, WITH DISTINCTION  
 Delores Esther Johnson, Milaca, WITH DISTINCTION  
 Donna Mae Johnson, Minneapolis  
 Phyllis Adele Jordahl, St. Paul, WITH DISTINCTION  
 Rosemary Ann Kane, St. Paul  
 Elizabeth Ann Kitchell, Ada  
 Edith Caroline Langemoe Klein, Fingal, N.D.  
 Margaret Jane Kobel, El Dorado, Kan.  
 Ruth Phyllis Bouma Kolvereid, St. Paul, WITH HIGH DISTINCTION  
 Helen Jo Moen Langevin, Minneapolis  
 Kay Diane Larson, Minneapolis  
 Marilyn Mary Ellen Larson, Duluth  
 Mary Anne Lavelle, Minneapolis  
 Joanne Katherine Lovaas, Minneapolis  
 Margaret Lowe Ludden, Duluth  
 Mary Jane Lundberg, St. Paul  
 Judith La Reine Miller, St. Paul, WITH DISTINCTION  
 Arvilla Marie Mueller, Belle Plaine  
 Hilda Costa Murray, Minneapolis, WITH HIGH DISTINCTION

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\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to June 11, 1960.

Vurnell Lynette Newgard, Minneapolis, WITH DISTINCTION  
 Nedra Ann Nicholls, St. Paul  
 Minerva Florina Norell, Remer  
 Julianna Malene Olness, Rangoon, Burma, WITH DISTINCTION  
 Lois Audrey Olsen, Reynolds, N.D.  
 Ione Edla Hultander Olson, Elbow Lake, WITH HIGH DISTINCTION  
 Sandra Gunther Parker, Excelsior, WITH DISTINCTION  
 Ann Elizabeth Paulsen, St. Paul  
 Patricia Anne Prichard, Mankato  
 Esther Alvida Romo, Minneapolis

Caroline Susan Bunker Rosdahl, A.L.A., Sauk Centre  
 Barbara Ann Schroeder, A.L.A., Wauwatosa, Wis., WITH HIGH DISTINCTION  
 Peggy O'Neil Swensen, Rochester, WITH DISTINCTION  
 Myrtle Ann E. Swenson, Hawley  
 Polly Ellen Tesch, St. Louis Park  
 Rhoda Arlene Thoreson, Pipestone  
 Judith Ann Tiede, Le Center  
 Janice Brennan Trotter, De Pere, Wis.  
 Constance Cory Youngberg, St. Paul  
 Marilyn Deanna Zahl, Robbinsdale

## Bachelor of Science in Nursing Administration

Mary Lavinia Jones, Redondo Beach, Calif., WITH HIGH DISTINCTION  
 Sylvia Rosetta Pavlovich, Kinney

## Bachelor of Science

Lillian Pearl Fredericksen, Minneapolis, Public Health Nursing  
 Rebecca Ruth Henning, Wheaton, Ill., Public Health Nursing  
 Ruth Martha Krueger, St. Paul, Public Health Nursing  
 Elizabeth Ann Lindfors, Pine River, Public Health Nursing  
 Margaret Mono Perfect Mackling, Winnipeg, Manitoba, Canada, Public Health Nursing  
 Marilyn Ohman Quernemoen, Steamboat Springs, Colo., Public Health Nursing  
 Jane Estelle Rengo, R.N., Moose Lake, Public Health Nursing, WITH DISTINCTION

## Master of Public Health

Kamal Abdul Ghafour Al-Ani, Baghdad, Iraq

## GRADUATE SCHOOL

### Master of Arts

Christian Kwaku Agbola, Leklebi Kame, Ghana, West Africa  
 B.A. cum laude '57, Mission House College. Major: History. Minor: Political Science. Thesis: The Colonial Problem at the Berlin Conference, 1884-1885.  
 Manuel Salcedo Aldana, Manila, Philippines  
 B.A. magna cum laude '56, University of the Philippines. Field of Concentration: Political Science.

Donna Mae Beernink, Redwood Falls  
B.A. magna cum laude '56, Macalester College.  
Field of Concentration: English.

Haukur Bjarni Bodvarsson, Brenna,  
Iceland

B.A. magna cum laude '58, University of Min-  
nesota. Field of Concentration: English.

Christopher Lee Bowen, Minneapolis  
B.S. in F.S. '57, Georgetown University. Ma-  
jor: International Relations. Thesis: Franco-  
Russian Relations, 1856-1863.

Thomas Richard Byrne, St. Paul

B.A. cum laude '47, College of St. Thomas.  
Field of Concentration: Educational Psychol-  
ogy.

John Chester Coulter, Mound

B.S. '51, St. Cloud State Teachers College.  
Field of Concentration: Education.

Robert William Deming, Plainview

B.Phys. '52, University of Minnesota. Field of  
Concentration: Physics.

Robert Earl Doty, Monticello

B.S. '38, Bemidji State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

John Oliver Dyrud, Jr., Newfolden

B.A. '57, University of Minnesota. Field of  
Concentration: Library Science.

Peter Arthur Fillmore, Dartmouth,  
Nova Scotia, Canada

B.S. '57, Dalhousie University. Major: Mathe-  
matics. Minor: Physics. Thesis: Some Relations  
Between Lattice Theory and Geometry.

Richard Joseph Fuller, St. Paul

B.S. '58, University of Minnesota. Field of  
Concentration: Educational Psychology.

Martha Ann Fulton, Birmingham, Ala.

B.A. '57, University of Alabama. Field of Con-  
centration: Journalism.

Guy Charles Gilman, Milwaukee,  
Wis.

B.S. '56, Wisconsin State College (Milwau-  
kee). Field of Concentration: Library Science.

John Kelly Gruenfelder, Minneapolis

B.A. with honors '54, Mankato State Teachers  
College. Field of Concentration: History.

Lonnie Lee Hammargren, Rush City  
B.A. cum laude '58, University of Minnesota.  
Major: Psychology. Minor: Biostatistics. Thesis:  
The Roles of Anticipation and Contiguous  
Imitation in the Learning of Orally Presented  
Material.

John Richard Hilborn, Minneapolis  
B.S. '56, University of Minnesota. Field of  
Concentration: Education.

Christian Robert Jaspersen, St. Paul  
B.S. '55, University of Minnesota. Field of  
Concentration: Art Education.

Charles Francis Kielkopf, St. Paul  
B.A. summa cum laude '58, University of Min-  
nesota. Major: Philosophy. Minor: Mathe-  
matics. Thesis: The Existence of Universals  
and Numbers.

Theodore Ramsay Kneebone, Aber-  
deen, S.D.

B.S. '55, Northern State Teachers College.  
Major: Library Science. Minor: Music. Thesis:  
The Tape Recording Collection in Selected  
Teachers Colleges.

Elizabeth Victoria Koenig, Minne-  
apolis

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

Jane Crawford Maher, Minneapolis

B.A. with highest distinction '57, State Uni-  
versity of Iowa. Major: History. Minor: Political  
Science. Thesis: The Trade Union Law of  
1884 in France.

Borys Malkin, Minneapolis

B.A. '51, University of Washington. Major:  
Anthropology. Minor: History. Thesis: Ethno-  
zoology of the Seri Indians of Sonora, Mexico.

Barbara S. Musgrave, Amherst, Mass.

B.A. magna cum laude '54, University of Min-  
nesota. Major: Psychology. Minor: Journalism.  
Thesis: The Effect of Verbal Context Factors  
on Cloze and Commonality Scores.

John Patrick Nagle, Minneapolis

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

Prachumpon Na Thalung, Bangkok,  
Thailand

B.A. '53, Chulalongkorn University. Field of  
Concentration: Education.

John Donald Nelson, Dresser, Wis.  
B.S. with distinction '40, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Melven Dean Nelson, Cumberland, Wis.

B.S. '56, Wisconsin State College (River Falls). Field of Concentration: Agricultural Education.

Toshikazu Niikura, Kanagawa, Japan  
LL.B. '51, Keio Gijuku University; M.A. '57, Meiji Gakuin University. Field of Concentration: English.

Ruth Swanson Nurmi, Kent, Ohio

B.S. with distinction '45, University of Minnesota. Major: Music. Minor: Art. Thesis: Frederic Chopin's Ballades: A Study of Their Structure.

Joan Nelson Olson, Canby

B.S. with distinction '53, University of Minnesota. Field of Concentration: Home Economics Education.

Hihun Pak, Seoul, Korea

B.A. '57, Gustavus Adolphus College. Field of Concentration: Political Science.

Roger Alan Peterson, Duluth

B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Raymond Cheney Preston, Minneapolis

B.S. with distinction '56, University of Minnesota. Field of Concentration: Industrial Education.

Franklin Delano Rainaldi, Eveleth

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

Sandra Ann Rasmussen, Atwater

B.S. with high distinction '58, University of Minnesota. Field of Concentration: Child Development and Welfare.

Michael Aaron Rockland, New York, N.Y.

B.A. '55, Hunter College. Field of Concentration: American Studies.

Enrique Alfredo Roldan, Quito, Ecuador

B.A. '57, University of Ecuador. Field of Concentration: Economics.

Bertram Warren Russick, Minneapolis

B.S. '46, University of Southern California. Field of Concentration: Psychology.

Herman Carl Scheurer, Minneapolis

B.A. '35, University of Minnesota. Field of Concentration: Educational Psychology.

Edward Laidlaw Smith, San Francisco, Calif.

B.A. '58, Pomona College. Field of Concentration: Zoology.

Sally Jeanne Stoppel, Minneapolis

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

Paulette Robetorye Thompson, Minneapolis

B.A. *magna cum laude* '54, Augsburg College. Field of Concentration: Spanish.

William Walton Trousdale, Minneapolis

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

Alice Ann Tuseth, Beltrami

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

Kwang-Seng Wang, Taipei, China

B.A. '53, National Taiwan University. Major: Business Administration. Minor: Economics. Thesis: Industrialization in Taiwan.

Leslie Thomas Whipp, Gary, S.D.

B.A. *cum laude* '33, University of Minnesota. Field of Concentration: English.

James R. Williams, Minneapolis

B.A. *cum laude* '57, University of Minnesota. Field of Concentration: Economics.

## Master of Arts in Public Administration

Earl Sanford Bergerud, St. Paul

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

## Master of Business Administration

Gary Dean Bringgold, Rochester

B.A. '57, Macalester College. Field of Concentration: Business Administration.

Clarence Allen Good III, Rochester

B.A. '53, Williams College. Field of Concentration: Business Administration.

## Master of Fine Arts

Carol Constance Lind, Minneapolis

B.A. *summa cum laude* '56, University of Minnesota. Major: Art. Minor: Philosophy. Thesis: The First Zen Buddhist Painters, Liang K'ai, Mu-Ch'i, and Yü-Chien, and Their Relationship to Contemporary Painting.

## Master of Science

Thomas Norton Bayer, St. Paul

B.A. '57, Macalester College. Major: Geology. Minor: Botany. Thesis: The Subsurface Bedrock Stratigraphy of Northwestern Minnesota.

George Edward Becker, Jersey City, N.J.

B.S. '56, Fordham University. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Accumulation of Free Amino Acids in Culture Filtrates of Soil Microorganisms.

Glenn Edward Bowie, Toronto, Ontario, Canada

B.S. '54, Columbia University. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Experiments on Slip Damping at Rounded Contacts.

Richard Gene Burau, Fergus Falls

B.S. with distinction '56, University of Minnesota. Major: Soils. Minor: Agronomy. Thesis: Soil Studies on Iron Chlorosis of Soybeans.

Arline Mae Campbell, Lead, S.D.

B.A. '57, St. Olaf College. Field of Concentration: Business Administration.

Lo-peh Chen, Taipei, Taiwan, China

B.A. '54, National Taiwan University. Field of Concentration: Business Administration.

John Max Crowley, Moscow, Idaho

B.S. (Ag.) with high honors '57, University of Idaho. Field of Concentration: Geography.

Larry Lee Denison, Frankfort, S.D.

B.S. '57, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Agricultural Economics.

Brian Dickens, Manchester, England

Graduate '58, Royal Technical College at Salford. Field of Concentration: Physical Chemistry.

John Thomas Donovan, Jr. Minneapolis

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

Arthur McAuley Elliot, Minneapolis

B.S. '53, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Studies on the Epidemiology of Certain Races of *Puccinia graminis tritici*.

Melvyn Luverne Fahning, Wells  
B.S. '58, University of Minnesota. Field of  
Concentration: Dairy Husbandry.

Chuen-cheng Fu, China  
B.S. '56, National Taiwan University. Major:  
Mechanics and Materials. Minor: Mathematics.  
Thesis: Steady State Response of Beams with  
Translational and Rotational Damping Mo-  
tions at the Supports.

David Ralph Hoeft, Stewartville  
B.A. '57, University of Minnesota. Major:  
Geology. Minor: Petroleum Engineering. The-  
sis: The Litho-stratigraphy of the Glenwood  
and Platteville Formations of Southeastern  
Minnesota.

Jerry Robert Kline, Minneapolis  
B.S. '57, University of Minnesota. Major: Soils.  
Minor: Biostatistics. Thesis: The Effect of  
Potassium Compounds of Variable Water  
Solubility on Yield and Composition of Plants.

Joseph Raymond Lessard, Kapuska-  
sing, Ontario, Canada  
B.A. '50, B.S.A. '55, Laval University. Major:  
Agronomy. Minor: Agricultural Biochemistry.  
Thesis: The Formation of Organic Acids in  
Alfalfa Ensiled at Various Moisture Levels  
Under Controlled Environmental Conditions.

William Arthur Olson, Minneapolis  
B.S. '54, University of Minnesota. Field of  
Concentration: Dairy Husbandry.

Mary Ann Goulet Skinner, St. Paul  
B.A. '55, College of St. Catherine. Major:  
Agricultural Biochemistry. Minor: Organic  
Chemistry. Thesis: The Influence of Specific  
Molds on the Lipase Activity of Wheat.

John Alexander Thomas, Duluth  
B.A. '54, University of Minnesota. Major:  
Geology. Minor: Mineral Engineering. Thesis:  
Geology of the Cloquet Area, Northeastern  
Minnesota.

Henry Barnes Tingey, Minneapolis  
B.S. '56, Utah State Agricultural College. Field  
of Concentration: Biostatistics.

Yi Ping Tung, China  
B.S. in Ag. '54, Taiwan Provincial College of  
Agriculture. Field of Concentration: Agricul-  
tural Economics.

John Clark Wilk, Clearwater, Kan.  
B.S. '51, Kansas State College of Agriculture  
and Applied Science. Field of Concentration:  
Dairy Husbandry.

Willard Raymond Zemlin, Two Har-  
bors  
B.A. '57, University of Minnesota. Major:  
Speech Pathology. Minor: Psychology. Thesis:  
A Comparison of High Speed Cinematography  
and a Transillumination-Photoconductive Meth-  
od in the Study of the Glottis During Voice  
Production.

## Master of Science in Agricultural Engineering

Shu-tung Chu, Hwang Mei Co., Hu  
Pao Province, China  
B.S. '56, National Taiwan University. Field  
of Concentration: Agricultural Engineering.

Robert Alan Young, Battle Lake  
B.S. in Ag.E. '56, Purdue University. Field of  
Concentration: Agricultural Engineering.

## Master of Science in Anesthesiology

Norbert Schnelle, Rochester  
M.D. '51, University of Mainz. Major: Anes-  
thesiology. Minor: Physiology. Thesis: Effects  
of Succinyl-Di-Choline on Respiration and  
Their Correlation with Changes of the Elec-  
trical Activity in Various Groups of Skeletal  
Muscle in the Cat.

## Master of Science in Civil Engineering

John Darrell Bakken, Pierre, S.D.  
B.S. '52, North Dakota Agricultural College.  
Field of Concentration: Civil Engineering.

Kai-tih Wang, Anking, Anhwei, China  
B.S. '53, Taiwan College of Engineering. Field  
of Concentration: Civil Engineering.

Kaare Erdal, Bergen, Norway  
B.S. in C.E. '58, South Dakota School of  
Mines and Technology. Field of Concentra-  
tion: Civil Engineering.

Fay Ing Yin, Shangton, China  
B.S. '54, National Taiwan University. Field  
of Concentration: Civil Engineering.

Eytan Kremer, Haifa, Israel  
B.S. in C.E. *cum laude* '54, Ingenieur (C.E.)  
'55, Israel Institute of Technology. Field of  
Concentration: Civil Engineering.

## Master of Science in Dentistry

Fred John Hammerly, Minneapolis  
B.S. '56, D.D.S. '56, University of Minnesota.  
Major: Dentistry. Minor: Anatomy. Thesis:  
The Effect of Partial Calvariectomy upon the  
Growth and Development of the Skull and  
the Dental Relationship in the Albino Rat.

## Master of Science in Mechanical Engineering

James Andrew Brandt, Minneapolis  
B.S. with distinction '58, University of Minne-  
sota. Major: Mechanical Engineering. Minor:  
Mathematics. Thesis: A New Method for the  
Experimental Determination of the Total  
Hemispherical Emissivity with Results for Pure  
Iron from 300 to 500° R.

Andrew Russel McFarland, Carlton  
B.S. with distinction '57, University of Minne-  
sota. Field of Concentration: Mechanical Engi-  
neering.

Mark Andrew Mathews, Jr., Minne-  
apolis  
B.Mech.E. with distinction '50, University of  
Minnesota. Field of Concentration: Mechani-  
cal Engineering.

David Crispin Paulson, Minneapolis  
B.S. with distinction '58, University of Minne-  
sota. Major: Mechanical Engineering. Minor:  
Physics. Thesis: Distortion of a Fluid Lamina  
Approaching an Aspirating Probe in a Uniform  
Fluid Stream.

## Master of Science in Orthopedic Surgery

Marco Antonio Lazcano, Mexico City,  
Mexico  
M.D. '53, National University of Mexico.  
Major: Orthopedic Surgery. Minor: Pathology.  
Thesis: Insertion of Vascular Prosthesis into  
Aorta of Dogs Receiving Dicumarol.



## Master of Social Work

Alice Beatrice Cone, St. Paul

B.A. '34, Hamline University. Field of Concentration: Social Work.

## Certificate of Specialist in Education

Eunice Grant Ryan, St. Paul

B.A. *cum laude* '29, M.A. '39, B.S. in L.S. '51, University of Minnesota. Field: School Psychological Services.

## Doctor of Philosophy

Bruce Arthur Aune, Minneapolis

B.A. *magna cum laude* '55, M.A. '57, University of Minnesota. Major: Philosophy. Minor: English. Thesis: Sensations and Human Behavior: A Conceptual Study. Major Adviser: Prof. Herbert Feigl.

John Frederick Bates, Minneapolis

B.S. '51, M.S. '52, Ohio University. Major: Inorganic Chemistry. Minor: Metallurgy. Thesis: Part I. A Preliminary Search for Sulfur Interchange Between Sulfates and Sulfamates. Part II. An Electrochemical Study of Corrosion and Passivation of Austenitic Stainless Steels in Acid Media. Major Adviser: Prof. R. C. Brasted.

Bimala Pada Chakravarti, Bhagalpur, India

B.Sc.(Ag.) '47, Government Agricultural College at Kanpur; Graduate '52, Indian Agricultural Research Institute. Major: Plant Pathology. Minor: Entomology. Thesis: Pathogenic Capabilities of the Wheat Stem Rust Fungus *Puccinia graminis tritici* in Certain Rust Resistant and Tolerant Varieties of Wheat. Major Adviser: Prof. Helen Hart.

Natalie Elizabeth Cremer, St. Paul

B.S. '44, M.S. '56, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Studies on Intracellular Products of Group A Streptococci. Major Adviser: Prof. D. W. Watson.

Donald Harper Dinkel, Palmer, Alaska

B.S. '54, University of Minnesota. Major: Horticulture. Minor: Agricultural Botany. Thesis: A Study of Factors Influencing the Development of Hollow Heart in Irish Cobbler Potatoes (*Solanum tuberosum* L.). Major Adviser: Prof. A. E. Hutchins.

Harold Edmund Dziuk, Foley

B.S. with distinction '51, D.V.M. '54, M.S. '55, University of Minnesota. Major: Veterinary Physiology and Pharmacology. Minor: Agricultural Biochemistry. Thesis: Physiological Studies of Some Chemical Factors in Legumes as Related to Motor Functions of the Ruminant Stomach. Major Adviser: Prof. A. F. Sellers.

Orrin Everett Gould, Fairmont

B.S. '48, Iowa State College. Major: Education. Minor: Educational Psychology. Thesis: The Character of Observation Under Closed-Circuit Television, Classroom Visitation and Instructional Films in an Introductory Education Course. Major Advisers: Profs. C. H. Boeck and R. J. Keller.

William Arthur Haglund, St. Paul

B.S. '53, M.S. '58, University of Minnesota. Major: Plant Pathology. Minor: Horticulture. Thesis: Studies on the Sulfur Nutrition of *Aphanomyces Euteiches* and Its Relationship to Root Rot of Peas. Major Adviser: Prof. T. H. King.

Fred Heinzelmann, Milwaukee, Wis.

B.S. *cum laude* '53, Marquette University; M.A. '56, University of Minnesota. Major: Psychology. Minor: Sociology. Thesis: An Experimental Study of Relative Deprivation and Relative Reward. Major Advisers: Profs. K. E. Clark and H. H. Kelley.

James Edward Holte, Minneapolis

B.S. with distinction '53, M.S. in E.E. '56, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Synthesis of Transmission Systems with Step Discontinuities. Major Adviser: Prof. R. F. Lambert.

Warren Russell Jorve, Minneapolis

B.A. '49, M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Occupational Prestige of Clinical and Counseling Psychology Specialties. Major Advisers: Profs. D. G. Paterson and H. P. Longstaff.

Edna B. Koehn, Dresden, N.D.

B.S. '52, Moorhead State Teachers College; M.A. '54, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Relationship of the Basic Skill Development of Sixth Grade Gifted Children to Ninth Grade Achievement in the Content Fields. Major Adviser: Prof. G. L. Bond.

Chul Choo Lee, Seoul, Korea

B.S. '54, Seoul National University; M.S. in Ag.E. '57, University of Minnesota. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: The Drying Characteristics of Rewetted Soybeans. Major Adviser: Prof. Andrew Hustrulid.

Alvah Theodore Leighton, Jr., New Gloucester, Me.

B.S. '51, University of Maine; M.S. '53, University of Massachusetts. Major: Poultry Husbandry. Minor: Veterinary Anatomy and Veterinary Physiology. Thesis: Effect of Light Regime-Hatch Interactions on Reproduction of Turkey Populations. Major Adviser: Prof. R. N. Shoffner.

Kuang Hui Lin, Taipei, Formosa, China

B.S. '50, National Taiwan University; M.S. '56, Iowa State College. Major: Chemical Engineering. Minor: Mechanical Engineering. Thesis: Simultaneous Oxidation-Ammoniation of Peat in a Fluidized-bed Reactor. Major Adviser: Prof. A. J. Madden, Jr.

Charles R. Magel, Minneapolis

B.S.C. with distinction '42, Northwestern University. Major: Philosophy. Minor: Psychology. Thesis: An Analysis of Kierkegaard's Philosophic Categories. Major Adviser: Prof. P. L. Holmer.

Romine E. Matthews, Minneapolis

B.S. '40, M.A. '51, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Certain Personality Variables Related to Success in Veterans' Rehabilitation Training in Clerical Occupations. Major Advisers: Profs. C. G. Wrenn and C. J. Hoyt.

Josef Mestenhauer, Minneapolis

B.A. '50, Eastern Washington College of Education; M.A. '52, University of Minnesota. Major: Political Science. Minor: Area Studies: Northwest Europe. Thesis: Ideologies in Conflict in Indonesia, 1945-1955. Major Advisers: Profs. C. H. McLaughlin and J. O. M. Broek.

Marion John Nelson, Minneapolis

B.A. '47, M.A. '50, University of Minnesota. Major: Art. Minor: Area Studies: Scandinavia. Thesis: The Fresco Brothers of Norway and Norwegian Mural Painting from 1918 to 1950: A Study in the Development of a Stylistic Tradition. Major Adviser: Prof. D. T. Tselos.

Douglas Duane Phillips, Collinsville, Ill.

B.S.Ch.E. '54, Washington University. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Application of Dynamic Feedforward Compensation to Linearized Process Control Systems. Major Adviser: Prof. N. H. Ceaglske.

Douglas Charles Pratt, Minneapolis

B.S. with distinction '52, M.A. '59, University of Minnesota. Major: Botany. Minor: Agricultural Biochemistry. Thesis: Studies on the Metabolism of Molecular Nitrogen and Carbon Dioxide by *Rhodospirillum rubrum*. Major Adviser: Prof. A. W. Frenkel.

Naomi M. Quevillon, Colfax, Wis.

B.A. *magna cum laude* '47, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Semantic Behavior of Three Different Personality Groups. Major Adviser: Prof. Ephraim Rosen.

Charles Edwin Redman, Mansfield, Mass.

B.S. '54, M.S. '56, University of Massachusetts. Major: Poultry Husbandry. Minor: Statistics. Thesis: Estimation of Genetic and Phenotypic Parameters Utilizing Experimental Polyallele Matings in Poultry. Major Adviser: Prof. R. N. Shoffner.

Dale Frederick Rudd, Minneapolis

B.S. with distinction '56, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Study of Iterative Optimization and on the Design of Processes Subject to Random Failures. Major Adviser: Prof. N. R. Amundson.

Edward Joseph Seus, Elmhurst, N.Y.

B.S. '56, Queens College (New York). Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Oxidative Ring Opening of Substituted Furans and Pyrolysis of the Resulting Dibenzoylethylenes and Related Compounds. Major Adviser: Prof. C. F. Koelsch.

Surender Singh, Hardoi, India

B.A. '56, Macalester College; M.A. in P.A. '57, University of Minnesota. Major: Political Science. Minor: Journalism. Thesis: The Union Public Service Commission of India. Major Adviser: Prof. L. M. Short.

Richard William Soshea, Minneapolis

B.S. with high distinction '54, M.S. in E.E. '56, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Variation of Secondary Electron Emission from Titanium Single Crystals with Angle of Incidence of the Primary Electron Beam. Major Adviser: Prof. A. J. Dekker.

Merton Peter Strommen, Minneapolis

B.A. '42, Augsburg College; M.A. '55, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Comparison of Youth and Adult Reactions to Lutheran Youth Problems and Sources of Assistance. Major Adviser: Prof. C. G. Wrenn.

Francis William Sturcken, Charleston, S.C.

B.S. '51, College of Charleston; M.A. '55, Catholic University. Major: Speech and Theater Arts. Minor: English. Thesis: An Historical Analysis of Live Network Television Drama from 1938 to 1958. Major Adviser: Prof. A. H. Ballet.

Ernest Clifford Thompson, Jr., Aitkin

B.A. '53, State University of Iowa; M.A. '55, State College of Washington. Major: Speech. Minor: Psychology. Thesis: An Experimental Investigation of the Relative Effectiveness of Organizational Structure in Oral Communication. Major Adviser: Prof. W. S. Howell.

Abraham Martin Unrau, Abbotsford, British Columbia, Canada

B.S.A. '52, M.S.A. '53, University of British Columbia; Ph.D. '56, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Part I. The Structure of Laminarin. Part II. End-Group Analysis and the Molecular Weight of Polysaccharides. Major Adviser: Prof. Fred Smith.

Milton Arthur Voigt, Milwaukee, Wis.

Ph.B. '48, University of Wisconsin; M.A. '50, University of California. Major: English. Minor: Philosophy. Thesis: Swift and the Twentieth Century: The Man and the Major Satires. Major Adviser: Prof. S. H. Monk.

Marion Wybourn Ward, Auckland, New Zealand

B.Sc. '55, M.Sc. '56, University of New Zealand. Major: Geography. Minor: Area Studies: East and South Asia. Thesis: The Trade of the Ports of Malaya. Major Adviser: Prof. J. O. M. Brock.

Henry Wilkes Wright, Duluth

B.A. '35, M.A. '37, University of Manitoba. Major: Psychology. Minor: Educational Psychology. Thesis: Factors Associated with Vocational Rehabilitation of World War II Veterans Disabled by Schizophrenia. Major Adviser: Prof. William Schofield.

## Academic Costume

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

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

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

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

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

(In the order of march)

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

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

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



# UNIVERSITY OF MINNESOTA

## *Senior Reception*

*March, 1960*

- The members of the graduating class, their families 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 Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Morrill, Mr. James Reese, President, Minnesota Student Association, and Mr. Pierre Meyer, President, Coffman Union Board of Governors.
- Assisting in the Reception are members of the Union Board of Governors and its committees, and of the following honorary societies: Chimes, Grey Friars, Iron Wedge, Mortar Board, Phoenix, and Silver Spur.
- All guests are urged to register at the appropriate tables. The signed pages will be bound and preserved by the class of 1960.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.

THE  
UNIVERSITY OF MINNESOTA

Announces Its

*June Commencement*

*1960*

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



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. James Lewis Morrill, President

Mr. Laurence R. Lunden, Secretary

**Mr. Clarence E. Larson, Assistant Secretary**

Mr. Clinton T. Johnson, Treasurer

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

The Honorable Charles W. Mayo, M.D., Rochester  
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 Robert E. Hess, White Bear Lake

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

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 ninth 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 physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—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 146,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 26,000 students on its Minneapolis, St. Paul, and Duluth Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, 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, 4-H Club agents, and recreation and health consultants give effective 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 the diverse research laboratories on its three campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists at any one moment are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with such matters as cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, nuclear energy, school surveys, and new varieties of grains, fruits, and flowers, 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, Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. 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 disease. Further contributions have made it possible for the University to build the Masonic Memorial Hospital and the Veterans of Foreign Wars Cancer Research Center and are making it possible to construct Diehl Hall (which will house the biological, medical library and additional medical research facilities).

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 number 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 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1959-61 biennium. In addition, the University will receive \$8,879,748 for University Hospitals; \$4,141,355.69 for special appropriations, including special extension and research activities; and \$14,457,150 for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is 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 1958-59 showed that the University received \$88,524,771.68 and spent \$88,520,513.75. This includes a total of \$14,333,868.14 received from student tuition and fees, hospital and other department receipts; \$1,205,359.98 from intercollegiate athletics; \$13,941,035.89 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from the revolving funds; and \$1,205,359.98 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. Also, \$3,176,924.03 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$88,524,771.68 which the University received for 1958-59, \$38,410,936.10, or 43.4 per cent, came from the state.

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

## *Order of Events* \*

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their families and friends 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 by Miss Helen Garvey, SLA '60, 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, conducted by Instructor in Music and Bandmaster Gale L. Sperry, Ph.D., will play:

<i>Northern Pines March</i>	- - - - -	John Philip Sousa
<i>Zanoni</i>	- - - - -	Paul Creston
<i>Second Suite in F</i>	- - - - -	Gustav Holst
March		
Song Without Words		
Song of the Blacksmith		
Fantasia on the Dargason		
<i>Psalm for Band</i>	- - - - -	Vincent Persichetti

**PROCESSIONAL:** The Concert Band, conducted by Dr. Sperry.

<i>Sine Nomine</i>	- - - - -	Ralph Vaughan Williams
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**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; Department of Naval Science; Department of Air Science; General Extension Division; General College; College of Science, Literature, and the Arts; University College; Institute of Technology; College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; College of Education; School of Business Administration; College of Pharmacy; Law School; College of Veterinary Medicine;

\*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 insofar as the physical facilities of Williams Arena permit, will the Order of Events planned for the Stadium be carried out in the Arena.

## *Order of Events*

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. Faculty marshals will be Professor Wendell L. Bartholdi, D.D.S., School of Dentistry; Professor John R. Borchert, Ph.D., College of Science, Literature, and the Arts; Assistant Professor Jay C. Meiske, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture.

**PRESENTATION OF COLORS:** Following the procession, the color guard, made up of University Army, Navy, and Air Force 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 Professor Roy A. Schuessler, M.M., Department of Music, soloist.

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

**INVOCATION** (the audience still standing): The Reverend Oviatt Desmond, Adviser to Congregational students and staff members on the Minneapolis Campus of the University.

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

**CONFERRING OF ROTC CERTIFICATES:** Vice President Malcolm M. Willey, Ph.D., Academic Administration, will introduce Colonel Roy K. Kauffman, USA, Professor of Military Science and Tactics; Commander Fred Laing, USN, Associate Professor of Naval Science; and Colonel Arthur W. Dern, USAF, Professor of Air Science, who will present the candidates for commissions in their respective branches of the Armed Services. The certificates of ROTC completion will be presented by President Morrill.

## *Order of Events*

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 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; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; Dean Harold Macy, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Richard L. Kozelka, Ph.D., School of Business Administration; Dean George P. Hager, Ph.D., College of Pharmacy; Assistant Dean Richard J. FitzGerald, LL.B., Law School; Dean William T. S. Thorp, D.V.M., College of Veterinary Medicine; Dean William H. Crawford, D.D.S., School of Dentistry; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Theodore C. Blegen, Ph.D., Graduate School.

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations.

PRESENTATION OF DIPLOMAS: With Dean of Students Edmund G. Williamson, Ph.D., presiding, all members of the June graduating class will move to the stage to receive their diplomas. Assisting the deans of the several colleges or their representatives in the presentation of diplomas are: Associate Professor Burton Paulu, Ph.D., General Extension Division; Associate Dean Alfred L. Vaughan, Ph.D., General College; Assistant Dean Roger W. Page, Ph.D., College of Science, Literature, and the Arts; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Assistant Dean Austin A. Dowell, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Assistant Dean Reuel I. Lund, Ph.D., School of Business Administration; Associate Professor Robert H. Miller, Ph.D., College of Pharmacy; Professor Allan H. McCoid, LL.D., Law School; Professor H. C. H. Kernkamp, D.V.M., College of Veterinary Medicine; Assistant Dean Mellor R. Holland, D.D.S., School of Dentistry; Assistant Dean William Fleeson, M.D., College of Medical Sciences; Professor John C. Kidneigh, Ph.D., Graduate School.

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

## *Order of Events*

*HAIL! MINNESOTA*, the University's Alma Mater song. The audience and Professor Schuessler:

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.

*AULD LANG SYNE*: The Frances Miller Brown Memorial Bells.

(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

Robert E. Abrams, Minneapolis  
Christopher O. Batchelder, Faribault  
Robert B. Regal, South St. Paul  
Russell M. Robinson, St. Paul

Richard H. Solomon, Minneapolis  
Richard W. Wagner, Minneapolis\*  
Charles A. Wallingford, Chicago, Ill.

#### Second Lieutenant, Armor

Robert C. Swedberg, Minneapolis\*

#### Second Lieutenant, Army Intelligence Corps

Warren W. Gerecke, Minneapolis  
Thomas L. Kieffer, St. Paul

Wyman L. Spano, Minneapolis

#### Second Lieutenant, Army Security Agency

Gordon Sohl, White Bear Lake

#### Second Lieutenant, Artillery

Edmund C. Contoski, Minneapolis  
Jay P. Fillmore, Minneapolis  
Robert J. Huberty, Sleepy Eye

Allan B. Kittila, Minneapolis  
Kenneth E. Robins, St. Paul

#### Second Lieutenant, Chemical Corps

Arthur S. Braufman, Minneapolis  
Don W. Hendrickson, Minneapolis

Vance R. Kuritz, Springfield\*

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\* Designated Distinguished Military Graduate

## **Second Lieutenant, Infantry**

Charles D. Crandall, Anoka\*  
Jack A. Fecht, Minneapolis\*  
Peter E. Gillquist, Minneapolis\*  
Roger D. Ranzinger, Minneapolis

John M. Sellers, Minneapolis  
Edward N. Therrien, St. Paul  
James M. Wisby, Warren, Wis.\*

## **Second Lieutenant, Medical Service Corps**

George C. Champlin, Minneapolis  
James V. French, Lakeland  
Wayne A. Meloche, Minneapolis\*  
John D. Nordstrom, Minneapolis

Curtis J. Picha, Minneapolis  
William A. Soderlund, Minneapolis  
Irwin E. Weiss, St. Paul

## **Second Lieutenant, Military Police Corps**

Linthon C. Adams, Minneapolis

## **Second Lieutenant, Ordnance Corps**

John C. Beckman, Minneapolis  
Bruce R. Coe, Minneapolis\*  
Harvey C. Hoppe, Minneapolis  
Russell C. Pederson, Redfield, S.D.

Robert D. Peterson, Minneapolis\*  
Robert L. Schibel, Virginia  
Robert M. Stoss, St. Paul

## **Second Lieutenant, Quartermaster Corps**

William J. Platzer, Minneapolis

Thomas A. Shuirman, Keewatin

## **Second Lieutenant, Signal Corps**

Richard E. Brudos, Stillwater\*

Gary R. Gustafson, Minneapolis

## **Second Lieutenant, Transportation Corps**

Curtis A. Botko, Minneapolis  
Richard D. Culp, Minneapolis\*  
Dean E. Danielson, Minneapolis\*

Roger M. Gustafson, Minneapolis  
Norbert W. Otto, Minneapolis\*

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\* Designated Distinguished Military Graduate



## DEPARTMENT OF NAVAL SCIENCE

### Ensign, USN

Thomas J. Callahan, Minneapolis  
Dorvan G. Conell, Glenville  
James B. Dougher, St. Paul  
Bruce A. Gniffke, Excelsior  
Glenn R. Kessel, Ashley, N.D.  
Richard A. Miller, Fairmont  
Roger E. Nelson, Minneapolis

Peter M. Petersen, St. Louis Park  
John T. Repp, Mora  
Ronald L. Schaaf, West St. Paul  
Louis A. Shumway, Pine City  
David S. Wiggins, Mankato  
Richard V. Wilson, Rye, N.Y.

### Ensign, USNR

Wayne E. Johnson, Upsala  
William C. La Chapelle, Jr., St. Paul

Thomas E. Sedlock, Minneapolis

### Ensign, CEC, USN

Danno F. Mahoney, Monticello

### Ensign, SC, USN

William J. Deters, Mankato  
Paul S. Finden, Glenwood  
Ellsworth K. Gerritz, Manhattan, Kan.

Richard E. Nordgren, Waukesha, Wis.  
John A. Schmidt, Brainerd

### Second Lieutenant, USMC

Robert A. Braun, St. Paul  
Bruce K. Nestande, Minneapolis  
Joseph C. Olson III, White Bear Lake

Richard K. Thompson, Faribault  
Steven S. Webster, Hinsdale

## DEPARTMENT OF AIR SCIENCE

### Second Lieutenant, USAF Reserve

Richard J. Beringson, Cass Lake  
David B. Englund, Minneapolis  
James E. Evans, Roseau  
Paul D. Glass, St. Paul  
Willis J. Gran, St. Peter  
Earl W. Herman, Rogers  
Floyd A. Johnson, Duluth  
Francis D. Keefe, Caledonia  
James R. Lewis, Minneapolis  
David C. Look, Anoka  
Robert D. McLeod, Minneapolis

James T. Mooney, St. Paul  
Joseph W. Pehoushek, Minneapolis  
Charles T. Peterson, Minneapolis  
Gary J. Smith, Forest Lake  
Richard A. Steeves, Minneapolis  
Louis C. Sudheimer, St. Paul  
Peter J. Torvik, Underwood  
Donovan C. Wikstrom, Strandquist  
John M. Wilson, Jr., Columbus, Ohio  
Rodger E. Ziemer, Amery, Wis.

## *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 Administration Certificate

Ronald Eugene Conley, Hopkins  
Raynold Carl Erickson, Minneapolis  
David Baran Hansen, Minneapolis  
Duane F. Jahnke, Minneapolis

Joseph Bernard Raab, Minneapolis  
David William Timmersman, Minneapolis

#### Electrical Engineering Technician Certificate

Forrest Clayton Huyck, Minneapolis

#### Engineering Science Certificate

Glenn Duane Brueske, Minneapolis

#### General Engineering Certificate

Melvin Cleon Erwin Boettcher,  
Minneapolis

Gerald Vernard Marcell, Northfield  
Edward Leo Quiring, Minneapolis

#### Industrial Engineering Certificate

Duane Loren Devereaux, Minneapolis

#### Associate in Mortuary Science

Donald M. Athmann, B.S., Cold  
Spring  
Orville B. Baker, Devils Lake, N.D.  
Charles Abraham Berdahl, B.A., Gar-  
retson, S.D.  
Roger Allen Bronniche, Benson  
Thomas Robert Cannon, Bernard,  
Iowa

Don Rodney Carson, Maquoketa,  
Iowa  
Leo Edward Chisholm, Mason City,  
Iowa  
Mary Althea Dare, Elk River  
Thomas Ostvig Holker, Monticello  
Peter Pius Honsa, St. Paul  
David Lloyd Johnson, Hendricks

Donald Curtis Johnson, Mekinock,  
N.D.  
Milton Walter Johnson, Almelund  
Emmett Wayne Kotrba, B.S., Greg-  
ory, S.D.  
Thomas F. LeSage, Superior, Wis.  
John Richard Mitchell, Marion, Ill.  
Patrick Joseph O'Halloran, St. Paul  
Willard Lavern Playle II, St. Paul

John Bernard Schmitt, St. Paul  
Harlow Henry Walter Sievers, Deni-  
son, Iowa  
Dennis Berry Stitely, B.S., Hollywood,  
Fla.  
Frank Sutliff, Allen, Neb.  
Bernard L. Theulen, Panora, Iowa  
Minor James Watts, Valentine, Neb.  
Dean Dale Weimer, Detroit Lakes

## GENERAL COLLEGE

### Associate in Arts

Chester Ervin Affolter, Newport  
Thomas Jerold Anderson, Minneapolis  
Gary Paul Anfinson, Minneapolis  
Ronald James Bakken, Owatonna  
Edward Francis Barch, St. Paul  
Maureen Faye Behmler, Mound  
Eleanor Jean Benjamin, Minneapolis  
Gudrun Sofia Benson, Bronx, N.Y.  
Gary Lee Bernhagen, Minneapolis  
David Barry Besner, Minneapolis  
Carolyn Tess Beugen, Minneapolis  
Suzanne Vicki Beugen, Minneapolis  
James Bernard Birkholz, Minneapolis  
Jerry Lane Bollman, Minneapolis  
Sandra Faye Borglum, Minneapolis  
Leonard Francis Braun, St. Paul  
Arlene JoAnn Buckett, Edina  
Patricia Jean Burch, Minneapolis  
Gloria Joyce Carlson, Minneapolis  
William Pierre Carrow, Marshall  
Donald Glenn Chinander, Newport  
David John Dooley, Jr., Minneapolis  
Donnette Berger Douglas, St. Paul  
Donald Duane Dyre, Minneapolis  
Dennis Chester Edlund, Robbinsdale  
Lowell Lawrence Edlund, Minneapolis  
John Rogers Egermayer, Minneapolis  
Harold Arthur Eggebraaten, Fisher  
James Carl Ekberg, Minneapolis  
Gary William Elsesser, Minneapolis  
Carol Ann Engelman, Minneapolis  
Donald Beynon Evans, St. Paul  
George Metz Evans, Minneapolis  
Robert Rufus Farrington, Jr., Minne-  
apolis

Barbara Jeanne Fredrikson, St. Paul  
Helen Ruth Gebbie, Motley  
James Anthony Gillian, Minneapolis  
Thomas Campbell Gordon, Jr.,  
Minneapolis  
Elmer Frank Gottwalt, Minneapolis  
Patricia Marie Griffin, St. Paul  
Robert Vernon Grimme, Minneapolis  
Glenn Lee Guldberg, Minneapolis  
Jerome Lee Haag, Minneapolis  
Wilbur Alan Haber, Garden City  
Jean Florence Hansen, Minneapolis  
Robert John Hansen, South St. Paul  
Donald William Haskamp, Sauk  
Centre  
Robert Allen Hearn, Minneapolis  
Marvin Earl Hegle, Minneapolis  
James Arthur Helgeson, Forest Lake  
Elsie Mary Henschel, Minneapolis  
Theodore Denver Herrick, Minne-  
apolis  
Ruth Elaine Higman, Bemidji  
Renee Marian Hillman, Minneapolis  
Harold Allen Husby, Robbinsdale  
Elliott Ronald Husney, Minneapolis  
John Eugene Hyre, Edina  
Barbara Anne Jackson, St. Cloud  
Richard Peter Jarosak, Minneapolis  
Dudley Waitman Jepson, St. Paul  
Beverly Lucille Johnson, Minneapolis  
Keith Randolph Johnson, Minneapolis  
Stephen Young Johnson, St. Louis  
Park  
James Robert Johnston, Minneapolis  
Michael David Jusell, Richfield

John Anthony Kaiser, St. Paul  
 Robert Charles Kaplan, Minneapolis  
 Mark Arnold Kaufmann, White Bear  
 Lake  
 James William Kecgan, Minneapolis  
 Mitchell Wayne Kellar, Robbinsdale  
 Robert Patrick Kelly, St. Paul  
 Richard David Kielas, Minneapolis  
 Douglas Ervin Kienholz, St. Paul  
 Gustaf Carl Leslie Kihlstadius, Jr.,  
 Clearbrook  
 Dennis William Kinvig, Minneapolis  
 Elliot LeRoy Kjeseth, Minneapolis  
 Gary Lee Klein, Minneapolis  
 Sherwood Terrance Knick, Richfield  
 Richard John Kovach, St. Louis Park  
 Richard Valentine Kozak, Minneapolis  
 Dennis Arnold Krieg, Minneapolis  
 Keith Robert Kupcho, Minneapolis  
 Kent Richard Kupcho, Minneapolis  
 Kenneth John Lang, St. Paul  
 Fredric Thomas Langer, Minneapolis  
 John E. Lanning, Minneapolis  
 Sandra Jean Larkin, St. Paul  
 John Maynard Leadholm, Minneapolis  
 Patricia Leopold, Bemidji  
 David Michael Leventhal, Minne-  
 apolis  
 Roger P. Linden, Minneapolis  
 Joseph Charles Lindseth, Watkins  
 Thomas James Lyke, Minneapolis  
 Peter Brian Markuson, Minneapolis  
 Richard C. Martin, Detroit, Mich.  
 David Marvin Mattson, Minneapolis  
 David Herbert Maturen, Minneapolis  
 Michael John McCarthy, St. Paul  
 Keith Stuart Mercil, Minneapolis  
 Charles Raphael Meyers, Minneapolis  
 Glen Ole Nelson, Stanchfield  
 Jerome Gary Nelson, Stewartville  
 Ralph Woodrow Nelson, Jr., Minne-  
 apolis  
 Judith Lynn Niman, Minneapolis  
 Mary Tatsue Ogura, St. Paul  
 Douglas Chris Olson, Minneapolis  
 Karen Esther Olson, Minneapolis  
 Linda Lou Olson, Minneapolis  
 Suzanne Elizabeth Page, St. Paul  
 Guy Phillip Patterson, Hopkins  
 Henry Pawlowski, Minneapolis

Glen Martin Peterson, Jr., Minne-  
 apolis  
 Jon Dale Peterson, St. Paul  
 Silas Daniel Prok, Minneapolis  
 David Richard Raich, Minneapolis  
 Bruce Edwin Ranzinger, Young  
 America  
 Herman Charles Rau, St. Paul  
 Ralph William Reiners, Minneapolis  
 Bruce Guy Renlund, Minneapolis  
 Ann S. Ribnick, Minneapolis  
 Joann Carol Richardson, St. Paul  
 Jon Sargent Roc, Minneapolis  
 Winston Russell Sandeen, Stillwater  
 Judith Ann Schimming, Minneapolis  
 Robert Marvin Schroeder, St. Paul  
 Marvin William Schumeister, Minne-  
 apolis  
 Joseph Leonard Seashore, Jr., Minne-  
 apolis  
 James Arthur Selden, Minneapolis  
 Richard Lee Serr, White Bear Lake  
 Barbara Annette Shine, Minneapolis  
 Samuel Stephen Sivanich, Minneapolis  
 Stanley Robert Sopczyk, Minneapolis  
 Larry Arthur Spartz, Minneapolis  
 Robert Jay Stacy, Minneapolis  
 Susan Eleanor Stensrud, Minneapolis  
 Jack Wilfred Stouten, St. Paul  
 Irving Elnor Strom, Tamarack  
 Susan Elizabeth Sunderland, Minne-  
 apolis  
 Jack Theodore Sunnarborg, Columbia  
 Heights  
 Gerald Francis Swanson, Minneiska  
 Mary-Jo Sweno, St. Paul  
 William Perine Taylor, Minneapolis  
 Cleve Joseph Tucker, Minneapolis  
 Elisabeth Uhl, St. Paul  
 Lowell Arvid Vetter, Excelsior  
 David Vyron Viger, Fridley  
 Thomas Alvin Waller, Richfield  
 Allan Lowell Watson, Minneapolis  
 Phyllis Kay Watson, Richfield  
 Rita Helen Welp, St. Paul  
 Douglas Verne Wenborg, Minneapolis  
 Jerome Lewis Whelan, Alexandria  
 Larry John Wilson, Wayzata  
 Margaret Ann Wilson, Minneapolis  
 Jean Marie Wronski, Minneapolis  
 Gunars Zvaners, Minneapolis

# COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

## Associate in Liberal Arts

Helen Swanson Anderson, Pelican Rapids	Gordon Douglas Hawkinson, St. Paul
James Regan Bostic, Delano	Sandra Diane Johnson, Minneapolis
Susan Buirge, Minneapolis	Gary Robert Livermore, Minneapolis
Barbara Jeanne Christopherson, Columbia Heights	Margarite J. Mirras, St. Paul
Bohdan Joseph Ciropalovych, Minneapolis	Donna Jean Goldencrown Mowlen, Trimont
Curtis Eugene Conrad, Minneapolis	Rita Rae Peden, Minneapolis
Faye Charlene Falkum, Minneapolis	Mary Katherine Pozzini, Stillwater
Kathryn Jeannette Deford Featherstone, Minneapolis	Donald Raymond Reiersen, St. Paul
Doris Minerva Harris, Minneapolis	Janice Hazel Roemhildt, Waseca
	Dorothy Flora Schiltz, Minneapolis
	Judith Jean Westendorf, Zumbro Falls
	Kathleen Ann Wright, Waseca

## Bachelor of Arts

Philip W. Aaron, Minneapolis, CUM LAUDE	Robert Morris Baker, Granite Falls
Norman M. Abrahams, Minneapolis	Gerald John Ballinger, Minneapolis
Robert Elliot Abrams, Minneapolis	Kenneth Maxwell Bancroft, Jr., Minneapolis
Elinor Mary Adams, Minneapolis	Robert James Barta, Duluth
Jo Ann Ahrens, Lakeland	Robert Wayne Bastian, Wilmington, Del.
Sidney Hart Alwin, Mound	Lynn Barbara Baumeister, St. Paul
Otto M. Andersen, Minneapolis	Judith Ralph Bearman, Minneapolis
Allan Swen Anderson, St. James	Sandra Ann Beaudoin, South St. Paul, CUM LAUDE
Duane Albert Anderson, Minneapolis, MAGNA CUM LAUDE	Michael John Bell, St. Paul, MAGNA CUM LAUDE
Marvin Hartley Anderson, Alexandria	David Leo Bender, St. Paul
Mary Margaret Anderson, Staples, MAGNA CUM LAUDE	Thomas Arthur Benson, Superior, Wis.
Rhoda Ruth Anderson, Minneapolis	Barbara Mary Benton, Tulsa, Okla.
Richard William Anderson, Minneapolis	Charles F. Benzie, Onamia
Jane Evelyn Antoine, Mankato, MAGNA CUM LAUDE	Ralph William Bergstrom, Jr., Hutchinson
Nancy Jeanne Arko, Virginia	Carol Ann Berkey, Minneapolis
Richard Michael Arneson, Minneapolis, MAGNA CUM LAUDE	Lael Deborah Berman, Minneapolis
Gary Thomas Athelstan, Minneapolis	Samuel Irving Berman, Minneapolis, MAGNA CUM LAUDE
Robert Joseph Athmann, Cold Spring	Charles Thomas Besnett, Robbinsdale
Reynaldo Ayala Y. Vallejo, Mexico	Alfred John Bever, Minneapolis
Marian Claire Baasen, Wayzata	Ronald Bishop Billings, Minneapolis
Perry Bernard Bach, St. Paul, MAGNA CUM LAUDE	Mary Ballou Bilstad, Barnum
Robert Odean Backen, Minneapolis	Rolf Foss Bjelland, Minneapolis

Max Zoci Blankstein, Winnipeg,  
 Manitoba, Canada  
 Karen Elizabeth Blom, Chippewa  
 Falls, Wis.  
 Peder Nils Bloom, St. Louis Park  
 Lewis A. Blustin, Minneapolis  
 Floyd Wallace Boerbon, St. Paul  
 Roy Kenneth Bohrer, South St. Paul  
 Burton Allen Bolter, Minneapolis  
 Walter Boudewyn Boorsina, Aitkin  
 Janet Charlotte Boss, St. Paul  
 Curtis Allan Botko, Minneapolis  
 Virginia Lee Bourgois, Bismarck, N.D.  
*Elizabeth Light Bratter, St. Paul, cum*  
 LAUDE  
 Robert Arthur Braun, St. Paul  
 Thomas Robert Breckenridge, Minne-  
 apolis  
 Adele A. Hunter Brellenthin, Minne-  
 apolis  
 William Brian Brellenthin, Minne-  
 apolis  
 James Evan Brewster, Windom  
*Bertha Ann Breyen, Columbia*  
*Heights, cum LAUDE*  
 Charles Stephen Britts, Eveleth  
 Ernest Benton Brown III, Minne-  
 apolis  
 Robert Chester Brown, Minneapolis  
 Daniel Francis Bryant, Minneapolis  
*Julie Margaret Buchholz, Bayport,*  
 CUM LAUDE  
 James Somers Bullock, Minneapolis  
 Clinton Roger Bunke, Minneapolis  
*Roger Frederick Burg, St. Paul, cum*  
 LAUDE  
 Eldon O. Burow, St. Paul  
*Priscilla Ann Burton, Northfield,*  
 MAGNA CUM LAUDE  
 Willard Lee Bury, A.L.A., Hopkins  
 John Phillip Buscher, Morris  
 Jean Andre Cadieux, Minneapolis  
 Harold Jerome Calof, St. Paul  
*Gretchen Briese Calvit, St. Paul,*  
 MAGNA CUM LAUDE  
 Stanley Lockwood Campbell, Roches-  
 ter  
*Terrence Donald Capistrant, St. Paul,*  
 MAGNA CUM LAUDE  
*Doris A. Folkedal Caranicas, Elbow*  
*Lake, cum LAUDE*  
 Lynn Sumner Castner, Minneapolis  
 Nancy Elizabeth Chapman, Minne-  
 apolis  
 Louis Edward Chappuie, Faribault  
 Dennis Anthony Charland, Bloom-  
 ington  
 Kenneth David Chase, Jr., Minne-  
 apolis  
*Mary Louise Chell, St. Paul, cum*  
 LAUDE  
 Gary Lee Cleveland, Mundelein, Ill.  
 David Lee Cochran, St. Paul  
 Bruce Richard Coe, Minneapolis  
*Elliot Morton Cohen, Minneapolis,*  
 MAGNA CUM LAUDE  
 Richard Otis Colestock, St. Paul  
 Michael Continelli, St. Paul  
 Edmund Conrad Contoski, Minne-  
 apolis  
 Michael John Conway, Minneapolis  
 William Joseph Cooney, Minneapolis  
 Kittie Cole Cooper, St. Paul  
*Richard Lowell Courteau, Minne-*  
*apolis, cum LAUDE*  
 Dianne Cresswell Cox, Minneapolis  
 Charles Duane Crandall, Anoka  
 Barbara Lou Crane, Stillwater  
 Thomas James Crowley, St. Louis  
 Park  
 Charles Edward Crutchfield, Minne-  
 apolis  
 Richard Berg Culp, Minneapolis  
 Marjorie Paschen Dahlen, Minne-  
 apolis  
 Therese Alice Daleki, Minneapolis  
 Stuart Samuel Dansinger, Duluth  
 Harris Isaac Darling, Worthington  
 Mary Ione Darling, Minneapolis  
 Elizabeth Day Darlington, New York  
 City, N.Y.  
 Richard Sargent Davidson, Mound  
 Robert Charles Davis, Willmar  
 Rosalie Jean Davis, Blanchardville,  
 Wis.  
 Kenneth Frank De Boer, Milaca  
*Charles Walter Decker, Buhl, cum*  
 LAUDE  
 Daniel David Deegan, Mankato  
 Ronald Everett De Harpporte, Minne-  
 apolis  
 Joan Delich, Crosby

*Michael Vital De Porte, New Lebanon Center, N.Y., MAGNA CUM LAUDE*  
*Jay Carter Diebold, Minneapolis*  
*Barbara Louise Dodge, Minneapolis*  
*Kay Marie Doherty, Minneapolis*  
*Gordon William Donnell, Minneapolis*  
*Kay Beatrice Douglas, St. Paul*  
*Edmund Thomas Dowd, Jr., Minneapolis*  
*John Alden Drury, Wabasha*  
*James Gordon Duck, St. Louis Park*  
*Arnold I. Dudovitz, St. Paul*  
*Elaine Bernice Dysthe, Minneapolis*  
*Francis Joseph Eason, Minneapolis, CUM LAUDE*  
*Fredrick Eugene Ekberg, Minneapolis*  
*Ronald John Elin, Minneapolis, MAGNA CUM LAUDE*  
*Susan Nan Ellis, Minneapolis*  
*Robert Weston Elsholtz, Minneapolis*  
*Barbara Ann Enderson, Blue Earth*  
*Joan Marie Engberg, South St. Paul*  
*Paul Edward Jay Engel, Stewartville*  
*Gail Gary Engerholm, Glenwood, CUM LAUDE*  
*Leif Edward Erickson, Amenia, N.Y.*  
*Beverly Strand Evensen, Minneapolis*  
*Charles John Everett, Jr., Minneapolis*  
*Janet Gayle Falk, Minneapolis, CUM LAUDE*  
*Rosemary Anne Fautch, Minneapolis, CUM LAUDE*  
*Edwin Emmanuel Felien, Minneapolis*  
*Kathryn Lane Fenlon, Minneapolis*  
*Elizabeth Wald Field, Decorah, Iowa, MAGNA CUM LAUDE*  
*John George Finneman, Duluth*  
*Alice Luanne Fiola, Duluth, MAGNA CUM LAUDE*  
*Howard Wayne Fisher, Minneapolis, CUM LAUDE*  
*Terry Lee Fisher, North St. Paul*  
*Kay Marie Fleischer, A.A., Rochester*  
*Jane Catherine Fleming, Minneapolis*  
*John Wilson Flood, St. Paul*  
*Dorothy Elizabeth Flynn, Westbrook*  
*Donald Dewey Fogelberg, Minneapolis*  
*Mary Lee Sharon Foley, Minneapolis*

*Loren Verne Forrester, Le Roy*  
*David Willard Forse, A.A., Minneapolis*  
*James Patrick Fourre, Minneapolis*  
*Richard Arden Greg Francis, Stewartville*  
*Marshall Paul Frank, Minneapolis*  
*Don Oscar Franklin, A.A., Willmar, SUMMA CUM LAUDE*  
*Katherine Stewart Freeman, St. Paul*  
*Frank Arthur Frenette, Springfield, Ill.*  
*Barbara L. Sparks Friberg, Minneapolis, SUMMA CUM LAUDE*  
*Eric Godfred Frobom, Henning*  
*Peter William Froyd, Wayzata*  
*James Hugh Gaffney, Minneapolis*  
*Melanie Carol Gainsley, Minneapolis*  
*Samuel Corser Gale, Minneapolis*  
*Donald Irl Gangloff, Bloomington*  
*Le Roy Walter Gardner, St. Paul*  
*Helen Jeanne Garvey, Anoka*  
*Allan Robert Garvis, Minneapolis*  
*Sharon Jan Gates, Winona*  
*Karin Geggie, Minneapolis, CUM LAUDE*  
*Maurine Ruth Geick, Chicago, Ill.*  
*James Vernon Geisendorfer, Minneapolis*  
*Penny Verson Gershgol, Duluth, CUM LAUDE*  
*Sally Ann Geving, Minot, N.D., CUM LAUDE*  
*John Evan Gibson, Minneapolis*  
*Barbara Ann Giddens, Minneapolis*  
*Jack Wendell Giese, Minneapolis*  
*Grace Karen Gildemeister, Paynesville*  
*Marlin Clarence Gilhousen, Minneapolis*  
*Peter Edward Gillquist, Minneapolis*  
*Paul Donald Glass, St. Paul*  
*Anne Lucille Gleason, Minneapolis*  
*Mini Lenore Goldberg, Chicago, Ill., MAGNA CUM LAUDE*  
*Frederick Goldberger, St. Paul*  
*Joseph Harry Goldfarb, St. Paul*  
*Janet Catherine Gorman, Moorhead*  
*Stanley David Gotlieb, Minneapolis*  
*John Robert Grande, Virginia*  
*Larry Roland Granger, St. Paul*  
*Howard Jonathan Gravem, Minneapolis, CUM LAUDE*

*Carol Anne Greason, Regina, Saskatchewan, Canada, CUM LAUDE*  
 Larry Bradford Gregg, Sleepy Eye  
 Leigh Edmund Grosenick, Alexandria  
 Richard Robert Grosgebauer, Billings, Mont.  
 Gene Duane Gross, Luck, Wis.  
 Irving J. Grossman, A.A., Minneapolis  
 Thomas Allen Groth, Minneapolis  
 Jon Werner Gruschka, Minneapolis  
 Anton Edward Guenther, Pine Island  
*Nancy Norma Gurske, Excelsior, MAGNA CUM LAUDE*  
 Gary Ronald Gustafson, Edina  
 William Martin Hagen II, St. Paul  
 Clyde Torgil Hagstrom, Minneapolis  
 Robert Frank Hall, Minneapolis  
*Edward Kalli Hamilton, Des Moines, Iowa, MAGNA CUM LAUDE*  
 Mary Lou Hanafin, St. Paul  
 Robert Dale Hanck, Rice Lake, Wis.  
*Ellen Marie Hansen, A.A., Rochester, CUM LAUDE*  
 Gary Alan Hansen, Robbinsdale  
 Marlin Marshall Hanson, Pine City  
 Ruby Beverly Hanson, Minneapolis  
*Marshall Robert Happ, A.L.A., Minneapolis, CUM LAUDE*  
 Dennis Leo Harmon, Jr., New York, N.Y.  
 James Murray Harrison, Worthington  
 John Edward Hartmann, Minneapolis  
 Philip Carl Hauptman, Chicago, Ill.  
 Thomas Sheridan Hay, Minneapolis  
 Thomas Joseph Hayes, St. Paul  
 Curtis Uri Heaton, White Bear Lake  
*David Allison Heiberg, Minneapolis, MAGNA CUM LAUDE*  
 David Norman Heim, St. Charles  
 Jerold Lee Heisler, Highland Park, Ill.  
 Joseph Louis Held, Minneapolis  
 Ronald Bruce Helwig, Minneapolis  
 Roy Alan Henkel, A.A., Minneapolis  
 Sandra De Saix Henning, New Ulm  
 Max Edward Herboldt, Minneapolis  
 James Robert Hesse, A.L.A., St. Louis Park  
 John Davis Hickerson, Wayzata  
 Arnold Nicolas Hilger, Minneapolis  
 Curtis Lee Hill, Minneapolis

Jerome Hurley Himmelwright, St. Paul  
 Joanne Louise Hirt, Eden Prairie  
 Avron Keith Hoffman, Minneapolis  
 Neil Robert Hoffman, Minneapolis  
 Sally Jane Hogan, St. Paul  
 James Henry Hoiby, Robbinsdale  
 Karen Anna Hokkanen, Ely  
 Bruce Gary Holey, Montgomery  
 David Carl Holmberg, Minneapolis  
 James Carmichael Horris, A.A., Minneapolis  
 James William Horswill, Minneapolis  
 Martha E. Reed Hostettler, Minneapolis  
 Marlys Carol Howe, St. Paul  
*Todd Terrence Hunt, St. Paul, CUM LAUDE*  
 Ralph Donald Hyden, Richfield  
 Dennis Stanford Hymanson, St. Paul  
 Dennis Delytne Indahl, Minneapolis  
 Karen Eberhardt Ireland, Minneapolis  
 Susann Catherine Jacobson, Minneapolis  
*Dorothy Ann Jeffries, Granada, MAGNA CUM LAUDE*  
 Silas LaVerne Jervis, Rochester  
 Rodney Dale Jobes, Minneapolis  
*Alden Stuhr Johnson, White Bear Lake, CUM LAUDE*  
 Charles Lindquist Johnson, Stillwater  
 Clark Herbert Johnson, Wayzata  
*Donald Harry Johnson, A.A., Duluth, CUM LAUDE*  
 Gretel-Nell Johnson, Hunter, N.D.  
 Howard LeRoy Johnson, South St. Paul  
 Kenneth Gregory Johnson, St. Paul  
 Mark Lester Johnson, St. Paul  
 Nancy Claire Johnson, Park Rapids  
*Roberta Ann Johnson, Windom, MAGNA CUM LAUDE*  
 Ronald Fritz Johnson, New Prague  
 Wayne Edward Johnson, South St. Paul  
 David Robert Johnston, A.A., Minneapolis  
 Sarah Elizabeth Jones, Minneapolis  
 Munier Kadrie, St. Paul  
 Jeanette Gertrude Kamman, St. Paul  
 Errol Kalman Kantor, Minneapolis



John Peter Karalis, Minneapolis  
 Norman Victor Kaupang, Minneapolis  
 Richard William Kautt, St. Paul  
 Dale Robert Kaye, Minneapolis  
 Francis Donald Keefe, M.A., Cal-  
 donia  
 James Dudley Keeler, A.A., Minne-  
 apolis  
 Roma Valeria Kehne, St. Paul  
 Robert Harold Kell, Minnetonka  
 Jane Audrey Keller, Minneapolis  
 Charles Reed Kennedy, Wadena  
 James Burton Keplinger, Delano  
 David Noel Kettleleson, St. Paul, CUM  
 LAUDE  
 John Benton Kettleleson, Jr., St. Paul  
 Lynn Elizabeth Kidder, Edina, CUM  
 LAUDE  
 Thomas Leslie Kieffer, St. Paul  
 David Lee Kieper, Springfield  
 Karen Ann Kiesner, Minneapolis  
 Allan Benona Kittila, Hopkins  
 Lester Carl Kjos, Minneapolis  
 Kenneth James Knapp, Ely  
 Janet Lorretta Knudson, Minneapolis  
 William Allen Knudtson, Minneapolis  
 George Allen Knuteson, Wisconsin  
 Rapids, Wis.  
 Robert John Kozar, Virginia  
 Barbel Elisabeth Kraatz, Minneapolis,  
 CUM LAUDE  
 Ivars Janis Krafts, Latvia  
 Brian Michael Krasnow, St. Paul, CUM  
 LAUDE  
 Eugene Harlin Kraut, Minneapolis  
 Elke Ingrid Kruger, Minneapolis  
 Juris Krumins, Latvia, CUM LAUDE  
 Klaus K. Kuehn, Minneapolis  
 Michael Allan Kuchnel, Minneapolis  
 Kenneth Erich Kunzman, Minneapolis  
 Brenda Louise Kuske, St. Paul, MAGNA  
 CUM LAUDE  
 Steven Zwyy Lange, Minneapolis,  
 MAGNA CUM LAUDE  
 Charles Lee Langeberg, Austin  
 Laine Bryce Langlotz, St. Paul, CUM  
 LAUDE  
 Patricia Ann Larsen, Albert Lea  
 Robert Floyd Larson, New Richmond,  
 Wis.

Rolf Henry Larson, Minneapolis, CUM  
 LAUDE  
 Dale Gordon Leathers, Lansford,  
 N.D., CUM LAUDE  
 David Michael Lebedoff, Minneapolis,  
 MAGNA CUM LAUDE  
 Jonathan Galanter Lebedoff, Minne-  
 apolis, CUM LAUDE  
 Judith Ann Lebedoff, Minneapolis  
 Karen Elizabeth Lee, Edina  
 Robert Bruce Lee, St. Paul  
 George Wallace Lefebvre, Crookston  
 Eugene Valentine Lenarz, Minne-  
 apolis  
 James Grisdale Lentz, Minneapolis  
 Steven Carlos Leuthold, Minneapolis  
 Mary Frances Lewis, St. Paul  
 Donna Jean Lidstad, St. Paul  
 Mildred Kaplan Light, Minneapolis  
 Robert Norman Lindholm, Minne-  
 apolis, MAGNA CUM LAUDE  
 Stanley James Lins, Cologne  
 Stephen Norman Lisle, Jr., Hopkins  
 Luella Florence Long, Minneapolis  
 Marlin Gordon Lord, Ironton  
 Gary Richard Lowe, Minneapolis  
 Marlys Elaine Lund, Minneapolis,  
 MAGNA CUM LAUDE  
 Russell Thomas Lund, Jr., Minne-  
 apolis  
 Carol Ann Lundberg, Northome,  
 MAGNA CUM LAUDE  
 Robert Gilmore Lundholm, Hopkins  
 Wolfgang Lunow, Hamburg, Germany  
 Roger Weston Lynn, St. Paul  
 Philip Schuyler Lyon, Minneapolis  
 Judith Mary MacMahon, St. Paul,  
 MAGNA CUM LAUDE  
 William John Madden, Brainerd, CUM  
 LAUDE  
 Gay Esther Mairson, Excelsior, MAGNA  
 CUM LAUDE  
 Anthony Joseph Majerus, Jr., South  
 St. Paul  
 Martin Manosevitz, Minneapolis, CUM  
 LAUDE  
 Philomena Tatiana Mansey, Liverpool,  
 England  
 Lois Sovereign Marek, Minneapolis  
 Leonard I. Mastbaum, Minneapolis,  
 CUM LAUDE

Marilyn Mae Mattson, Minneapolis  
 Shirley J. Venard May, Minneapolis  
 Harry Truax Mayes, Minneapolis  
 Barbara Jean Mc Camus, Willmar,  
 SUMMA CUM LAUDE  
 Edward Wallace Mc Connon,  
 St. Paul, CUM LAUDE  
 John Anthony McCrossan, Minne-  
 apolis, MAGNA CUM LAUDE  
 Marian Lea Mc Grail, South St. Paul,  
 CUM LAUDE  
 Darrel James McIntosh, Minneapolis  
 Douglas Hugh McKenzie, Minne-  
 apolis, SUMMA CUM LAUDE  
 Wallace Lee McMahan, Minneapolis  
 John Ashley Mears, St. Paul, MAGNA  
 CUM LAUDE  
 Carol Lois Meese, West St. Paul  
 Sandra Jean Memmer, St. Paul  
 Edwin Frederick Menze, Jr., St. Paul  
 Eugene Bernard Metz, Minneapolis  
 James Gordon Meyer, St. Paul  
 Jerome Jurgen Meyer, South St. Paul  
 Janice Marlowe Mickelson, Moorhead  
 Marvin Charles Midthun, Aitkin  
 Thomas J. Mikulecky, Glencoe  
 Barbara Elizabeth Miller, Columbia  
 Heights  
 Richard Allen Miller, Fairmont  
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Robert Glenn Edelman, Minneapolis  
James Leland Ekstrom, Minneapolis  
James Arthur Erickson, Trimont  
David Raymond Faribault, St. Paul  
Francis John Faust, Pierz  
Robert Le Roy Feldges, Lake City  
Louis Nieter Flanders, Brainerd  
Roger David Flink, Minneapolis  
Kenneth Earl Floren, Dassel, WITH  
DISTINCTION  
David Leigh Fredrickson, Duluth  
Charles Lee Fried, Lindstrom  
Melvin Paul Fussy, Bowlus  
Charles Dennis Gebeke, Sauk Centre  
James E. Giesen, Delano  
Willis John Gran, St. Peter  
Gerald Bruce Granley, Clearbrook  
Richard Frederick Griffith, Minneapolis  
Norman Conrad Haglund, Minneapolis

Kenneth Warren Hallberg, Forest  
Lake  
Richard Clair Hanson, Bemidji, WITH  
DISTINCTION  
Daryl Lee Hartman, Brainerd  
James Allen Haueter, Rochester  
Jay Nelson Hopps, Minneapolis  
Thomas Lawrence Hundsness, Minneapolis  
Thomas Guy Jackson, Minneapolis  
Carleton Eugene Jennrich, St. Paul  
Donald James Johnson, Minneapolis  
Gary Allen Johnson, Ely, WITH  
DISTINCTION  
Jerome Lee Johnson, St. Paul  
Orville David Johnson, Lindstrom,  
WITH DISTINCTION  
Richard Carl Johnson, Duluth  
William Robert Johnson, Soudan  
John Philip Keillor, Jr., Minneapolis  
Ronald Douglas Kellogg, Wykoff  
Dale John Klosner, Carlton  
Robert Bruce Krebs, Wayzata  
James Harry Kullberg, Britt, WITH  
DISTINCTION  
Leroy Cecil Laguban, Minneapolis  
Wayne John Lampi, Mountain Iron  
Erling Gunnar Larsen, Minneapolis  
Kenneth Larsen, Anoka  
Gerald Dennis Larson, Stanchfield  
Melvyn Edwin Larson, Stillwater  
Charles Alfred Lau, Fairmont  
David Marion Leatherman, Hopkins  
Robert Henry LeBlanc, International  
Falls  
Paul Lawrence Lewis, Adrian  
Clairmont Elwood LiaBraaten, Hibbing  
Carl John Listug, Roseau  
Clifford Andrew Listug, Roseau  
Thomas Lou, Duluth  
Gerald Orville Lund, Dawson  
James August Makie, Minneapolis

Franklin Martin Manders, International Falls  
 Merle Howard Mattson, Cannon Falls, WITH DISTINCTION  
 Patrick Edward McNeil, Dayton  
 Ronald George Moltzan, Elk Mound, Wis.  
 Raymond Joseph Myers, Minneapolis  
 Floyd Leland Nelson, Lindstrom  
 Jerome F. Newville, Fairmont  
 Dennis Allen Nordberg, Jacobson  
 Leonard William Nordman, B.B.A., St. Paul  
 Douglas Richard Norman, St. Paul  
 Roger Le Roy Norquist, Duluth  
 Franklin Arnulf Odland, Minneapolis  
 Dean Rodney Olson, Minneapolis  
 Ronald Dean Olson, Clarissa  
 Carlyle Lane Peterson, New Brighton  
 John Evald Peterson, Two Harbors  
 Richard Burton Pilgren, St. Paul  
 Donald Eugene Pitcher, Waseca  
 Gordon George Quale, Rushford  
 Roger Dale Ranzinger, Minneapolis  
 Clyde Delano Rensted, Willmar  
 Richard Allen Roy, Duluth, WITH DISTINCTION  
 Richard Dwight Royle, Bloomington

Louis Glenn Shew, Clinton, Iowa, WITH DISTINCTION  
 Larry Donavon Sly, Eagle Bend  
 David Floyd Smith, Minneapolis  
 Robert Charles Swedberg, Minneapolis  
 Laurel Eldo Tangren, Lindstrom  
 Clifford Carl Trogen, Minneapolis  
 David Price Vanarsdall III, Minneapolis  
 David Louis Vidmar, Mountain Iron  
 Kenneth Eugene Vogel, Bemidji  
 William Henry Vornwald, Duluth  
 Allen Eugene Webster, Minneapolis  
 Richard Theodore Weisbecker, La Crosse, Wis.  
 John Walter Weiss, Battle Lake  
 William Frank Wharton, Bloomington  
 Richard Oscar Wisti, Minneapolis  
 Richard Donald Wojahn, St. Paul  
 Howard Oren Wold, Minneapolis  
 Donald Matthew Youngdahl, St. Paul  
 Donald Loren Zell, St. Paul  
 Stanley Lee Zetterlund, Pipestone  
 John Raymond Zimmerschied, St. Louis Park

## Bachelor of Metallurgical Engineering

Donald Marvin Berndt, Minneapolis      Lawrence Paul Bonicatto, Virginia

## Bachelor of Metallurgy

Robert Martin Stoss, St. Paul

## Bachelor of Mining Engineering

L. Alden Kendall, Jr., St. Louis Park      James Owen Murphy, Waseca  
 David Melvin Kjos, West St. Paul      Stanley Carl Richardson, Minneapolis

## Bachelor of Physics

Carlos Preston Avery, Glenwood, WITH DISTINCTION  
 Frederick Carl Gillett, Minneapolis, WITH DISTINCTION  
 Gregory DeGrendleham Greer, Minneapolis, WITH DISTINCTION  
 Robert Patrick Gruber, St. Paul  
 Thomas George Hiniker, St. Paul

*Jacque Jerome Hohlfelder, St. Paul,*  
 WITH DISTINCTION  
*Paul Erick Johnson, Hopkins*  
*Richard Ray Johnson, Cloquet, WITH*  
 DISTINCTION  
*David Charles Look, Anoka, WITH*  
 HIGH DISTINCTION  
*William Adolph Nestel, White Bear*  
 Lake

*Philip James Nistler, Eden Valley*  
*Kermit Norman Peterson, Dresser,*  
 Wis.  
*Gary William Rodenz, St. Cloud,*  
 WITH DISTINCTION  
*Adrian Roy Swanson, Minneapolis*  
*Irwin David Weisman, Minneapolis,*  
 WITH HIGH DISTINCTION

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

### Electrical Engineer

*George William Clemens, Jr., B.E.E. '49, University of Minnesota, thesis, "Development of an Engineering Program for Testing, Analysis, and Evaluation of Complex Items of U.S. Naval Ordnance."*

*Roy Archibald Palmer, B.S.E.E. '21, University of Minnesota, thesis, "The Effect of Good Lighting on Air Conditioning and Construction of Industrial Building."*

### Mechanical Engineer

*Realto E. Cherne, B.M.E. '29, University of Minnesota, thesis, "Industrial Air Conditioning Requirements and Systems."*

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

### Bachelor of Science

<i>Gerald Marvin Adamek, Cushing,</i> Agriculture	<i>George Charles Becker, Jr., Stevens</i> Point, Wis., Forestry
<i>Larry Eugene Adams, Verndale, Agri-</i> culture	<i>Miles Knudslie Benson, St. Paul,</i> Forestry
<i>Burgee Odell Amdahl, Mabel, Agri-</i> culture, WITH HIGH DISTINCTION	<i>Catharine Louise Bjelland, Minne-</i> apolis, Home Economics
<i>Kenneth Walter Anderson, Litchfield,</i> Forestry	<i>Duane Charles Bjelland, Erskine, Ag-</i> riculture
<i>Patricia Louise Foss Ashman, Spring</i> Grove, Home Economics	<i>Gary Ramon Boche, South St. Paul,</i> Agriculture
<i>Edith Marie Bauman, Delano, Home</i> Economics	<i>Arthur Robert Boese, Litchfield, Agri-</i> culture

- Cynthia Deutsch Boline, Battle Lake, Home Economics, WITH DISTINCTION
- James Timothy Bowen, Milwaukee, Wis., Agriculture
- James Kerr Brown, Jr., St. Paul, Forestry, WITH DISTINCTION
- Galen Loren Buterbaugh, Walnut Grove, Agriculture
- Robert Lloyd Cliplef, Minneapolis, Agriculture, WITH DISTINCTION
- Herbert Clarence Cottrell, Milwaukee, Wis., Forestry
- Robert Lee Dahl, Kennedy, Agriculture
- Ronald Lyle Dahl, Kennedy, Agriculture
- Archie Christopher Daleiden, Montgomery, Agriculture
- Kenneth Oscar Dalquist, Randall, Forestry
- Richard Charles Deden, Red Wing, Forestry
- Robert Lee Dietz, New Prague, Agriculture
- Alden Edward Domning, Lino Lakes, Agriculture
- Clinton Wayne Eckstein, Mahanomen, Forestry
- Duane Melville Edverson, Clearbrook, Forestry
- Ann Harriet Engel, Minneapolis, Home Economics, WITH DISTINCTION
- Gene Arlen Erickson, Ortonville, Forestry
- Sheldon Ross Erickson, Badger, Agriculture
- Dwayne Harold Fink, Albert Lea, Agriculture
- Jane M. Finnern, Round Lake, Agriculture
- Conrad Bennet Fiskness, Osakis, Agriculture, WITH DISTINCTION
- Verlin Leroy Floen, Battle Lake, Agriculture, WITH DISTINCTION
- Martin August Fox, Rosemount, Agriculture
- Ralph Frederick Fries, Minneapolis, Agriculture, WITH DISTINCTION
- Sidney Stewart Frissell, Jr., Hopkins, Forestry
- David Eugene Gabriel, Duluth, Agriculture, WITH DISTINCTION
- Barbara Evanne Gilstad, Minneapolis, Home Economics
- Arthur James Goembel, Luverne, Agriculture
- John Henry Gohl, Lake City, Agriculture
- Myron Dale Grafstrom, Roseau, Forestry
- Duane Douglas Gunderson, Milan, Agriculture
- Donald Alvin Gustafson, Granite Falls, Agriculture
- Walter Eugene Gustavson, Boyd, Agriculture
- Bruce Edward Haissig, Milwaukee, Wis., Forestry, WITH DISTINCTION
- Erma Louise Halberg, Lake Itasca, Home Economics
- Beverly Harriet Hallin, Braham, Home Economics
- Samuel Duane Halverson, Minneapolis, Agriculture
- Robert Clarence Hastings, Appleton, Agriculture
- Mary Ann Haugen, Milan, Home Economics
- Michael Scott Hauser, La Crosse, Wis., Forestry
- Thomas Wyman Havnes, Brainerd, Agriculture
- Milton Samuel Hayden, Minneapolis, Forestry
- John Orson Hempstead, Houston, Agriculture
- Jackie Lee Hervey, Wheaton, Agriculture
- Diana Lou Hinton, Truman, Home Economics
- Carolyn Louise Hoeft, St. Paul, Home Economics
- Alice Lucille Horkey, Minneapolis, Home Economics
- Allan Frederick Jahnke, Graceville, Agriculture
- Gerald Lee Jensen, Hudson, Wis., Forestry

William Frederick Kaschmitter,  
 Paynesville, Agriculture  
 Willard Dean Kiefer, Cazenovia, Wis.,  
 Forestry, WITH DISTINCTION  
 Wayne James Kielty, Grove City, Ag-  
 riculture, WITH DISTINCTION  
 Charles William Kientop, Ogilvie,  
 Agriculture  
 Robert Gottlieb Koehler, Delano, Ag-  
 riculture  
 Frederick William Koepf, Rice Lake,  
 Wis., Forestry  
 Justin Rodney Kromminga, Pease, Ag-  
 riculture  
 Rodney Gene Larson, Fort Atkinson,  
 Wis., Forestry  
 Darrell Howard Lauber, Hibbing, For-  
 estry  
 Gary Robert Lindell, Litchfield, For-  
 estry  
 Carolyn Lee Lussenhop, Redwood  
 Falls, Home Economics  
 Frank Fred Marshall, Litchfield, Agri-  
 culture  
 Robert Allan Martin, St. Paul, Agri-  
 culture  
 Karen Charlotte Mattson, Anoka,  
 Home Economics  
 Robert Christian Miller, Fergus Falls,  
 Agriculture  
 Carl Ames Mohn, Red Wing, Forestry  
 Gerald Eugene Murphy, Ada, Forestry  
 Sharon Ann Murphy, Park Rapids,  
 Home Economics  
 Roland William Narr, New Germany,  
 Agriculture  
 Harvey Robert Nelson, Cannon Falls,  
 Agriculture  
 Robert James Newell, Belle Plaine,  
 Agriculture  
 Gary Lew Nickander, Madison, For-  
 estry  
 Joseph Carl Olson III, White Bear  
 Lake, Agriculture  
 Douglas Raymond Payne, Benson, Ag-  
 riculture  
 Gerald Curtis Pearson, Minneapolis,  
 Forestry  
 Donald Albert Perala, Swan River,  
 Forestry, WITH HIGH DISTINCTION  
 Wendy Zoe Petersen, Albert Lea,  
 Home Economics  
 Kay C. Peterson, Coleraine, Home  
 Economics  
 Joy Martin Probasco, Hillman, For-  
 estry  
 LaVerne George Pung, St. Cloud,  
 Forestry  
 Richard Joseph Rademacher, B.A.,  
 Minneapolis, Forestry  
 Gilbert Clemence Radonski, Milwau-  
 kee, Wis., Agriculture  
 William Lee Reese, Marshall, Agricul-  
 ture  
 Robert Gene Ringger, Dumont, Agri-  
 culture  
 Rona Lorene Robbins, Moorhead,  
 Home Economics, WITH HIGH DIS-  
 TINATION  
 Anne Katherine Rogers, Minneapolis,  
 Home Economics  
 Victorin Joseph Ruhland, New  
 Prague, Agriculture  
 Stanley George Sadusky, Jackson, Ag-  
 riculture  
 Peter John Schiltgen, Lake Elmo, Ag-  
 riculture  
 Paul Edward Schottler, A.A., Austin,  
 Agriculture  
 Ellen Salome Schwahn, Wabasso,  
 Home Economics  
 Marjorie Louise Schwieger, Minne-  
 apolis, Home Economics, WITH DIS-  
 TINATION  
 William Louis Simmons, Minneapolis,  
 Forestry  
 John Lawrence Skrypek, St. Paul, Ag-  
 riculture  
 Toivo Sober, Minneapolis, Forestry  
 James Richard Stolle, Finlayson, Agri-  
 culture, WITH HIGH DISTINCTION  
 John T. Stork, Minneapolis, Agricul-  
 ture  
 Brian Edward Stout, St. Paul, Forestry  
 Louis Charles Sudheimer, St. Paul,  
 Forestry  
 William Alfred Swanson, Minneapo-  
 lis, Forestry  
 Sonja Louise Tate, Minneapolis,  
 Home Economics

Melvin Roy Teske, Algoma, Wis., Agriculture	Roger Allan Waid, Maple Plain, Agriculture
Shirley Lou Hollerud Tews, Minneapolis, Home Economics	David Myron Ward, Mapleton, Agriculture
Edward Nelson Therrien, St. Paul, Forestry	Dennis Arthur Wiehe, Hibbing, Forestry
Paul Lyle Tollefson, Crookston, Agriculture, WITH DISTINCTION	Dean William Wright, West Concord, Agriculture
John Joseph Vogel, St. Paul, Forestry	

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

### Bachelor of Science

Dorothy Ellen Arfstrom, Battle Lake, Home Economics Education	Laverne Bruce Forest, Granite Falls, Agricultural Education
Karen Marie Bergquist, Minneapolis, Home Economics Education	Nancy Ann Gilchrist, Pine River, Home Economics Education
Phyllis Annette Bernard, Elk River, Home Economics Education	Karen Lee Graupmann, Glencoe, Home Economics Education, WITH DISTINCTION
Bernard Charles Brandon, Grand Rapids, Agricultural Education	Marlys Mildred Hansen, Robbinsdale, Home Economics Education, WITH HIGH DISTINCTION
Oria A. Brinkmeier, Lester Prairie, Agricultural Education, WITH HIGH DISTINCTION	Karen Elizabeth Hanson, Caledonia, Home Economics Education
Marjorie Lois Carr, Robbinsdale, Home Economics Education, WITH DISTINCTION	Carole Agnes Hoppe, Crystal Bay, Home Economics Education
Janet Helen Christianson, Edina, Home Economics Education, WITH DISTINCTION	Clarence Hugh Horsager, Verndale, Agricultural Education
Dorvan Gale Conell, Glenville, Agricultural Education	Donald Philip Houghton, Pine Island, Agricultural Education
Marilyn Martha Dahlheimer, Anoka, Home Economics Education	Loyal March Hyatt, Brainerd, Agricultural Education
Joan Susan Dickmeyer, Fairfax, Home Economics Education	Doran Lannie Isackson, Alexandria, Agricultural Education
Kenneth Irving Dubbels, Farmington, Agricultural Education	Evelyn JoAnn Johnson, Blue Earth, Home Economics Education
Beverly Jean Kramer Evans, Marshall, Home Economics Education	Romell Marie Johnson, Alexandria, Home Economics Education
James Elmer Evans, Roseau, Agricultural Education	Paul Max Jourdan, Northome, Agricultural Education
Dennis Lee Finstad, Hanska, Agricultural Education	David James Keefe, Caledonia, Agricultural Education



- Lois June Koenigs, Fairmont, Home Economics Education
- Carolyn Elizabeth Lager, Winthrop, Home Economics Education, WITH DISTINCTION
- Doyle Eugene Larkin, Madelia, Agricultural Education, WITH DISTINCTION
- Karen Ruth Larson, Little Falls, Home Economics Education
- Barbara Jo Laudon, Ironton, Home Economics Education, WITH DISTINCTION
- Eddy Clare Lindquist, Buffalo, Agricultural Education
- Larry Arlen Lofgren, Chisago City, Agricultural Education
- Joel Edward Lundquist, Willmar, Agricultural Education
- Phyllis Jean Sprenger Mattson, Plainview, Home Economics Education
- Gerald L. Morrow, Perham, Agricultural Education, WITH DISTINCTION
- Rebecca Oline Nelson, Albert Lea, Home Economics Education
- Solveig Eleanor Olson, Benson, Home Economics Education
- James Timothy O'Meara, Le Center, Agricultural Education
- Beryl Parks Perry, Vernon Center, Home Economics Education
- Wayne George Radke, Owatonna, Agricultural Education
- Lois Elaine Ratz, Detroit Lakes, Home Economics Education, WITH HIGH DISTINCTION
- Patricia Dianne Sansness, Cyrus, Home Economics Education
- William Walter Schroeder, Wells, Agricultural Education
- Daniel Alois Schwalbe, Waconia, Agricultural Education
- Myles Evert Sedenquist, Kennedy, Agricultural Education
- Roland Dick Steinhaus, Waterville, Agricultural Education
- Mary Lou Stork, Minneapolis, Home Economics Education
- Donald Grant Swan, Balaton, Agricultural Education
- Marlys Ann Swanson, Hallock, Home Economics Education
- Larry Anton Tande, Madelia, Agricultural Education
- JoAnn TerAvest, Albert Lea, Home Economics Education, WITH DISTINCTION
- John Milton Truwe, Amboy, Agricultural Education
- John A. Widmark, Ivanhoe, Agricultural Education
- Catherine Erma Willert, Owatonna, Home Economics Education
- Judy Mae Wilsey, Houston, Home Economics Education
- James Michael Wisby, Warrens, Wis., Agricultural Education
- Jerome Clifford Youngberg, Milaca, 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 Wesley Anderson, Fergus  
Falls

Donald Botten Larson, Hanska

# COLLEGE OF EDUCATION

## Bachelor of Science

- Kathryn Mary Alar, A.A., Virginia,*  
WITH HIGH DISTINCTION
- Glen Ward Albrechtsen, St. Paul*
- Carol Eleanor Anderson, Brownton,*  
WITH DISTINCTION
- Elaine Louise Anderson, Willmar*
- Elaine Marilyn Anderson, Minneapolis*
- Helen Elizabeth Anderson, Wayzata*
- Janice Laveta Anderson, Minneapolis,*  
WITH DISTINCTION
- Kenneth LeRoy Anderson, Minne-  
apolis*
- Margaret Louise Anderson, A.A.,*  
Evansville
- Roger Alan Anderson, Minneapolis*
- Stuart Charles Anderson, St. Paul*
- Richard Lorenz Archer, Minneapolis*
- Robert William Ash, B.A., Staples*
- Wayne Douglas Austreng, Blackduck,*  
WITH DISTINCTION
- Barbara Ann Babich, Minncapolis,*  
WITH DISTINCTION
- Jeannine Ann Bailey, Walker*
- Sharon Faye Baker, Richfield*
- Nancy Albertine Banach, St. Paul*
- Samuel Joseph Bandh, Minneapolis*
- Paul Douglas Bandt, Revillo, S.D.,*  
WITH DISTINCTION
- Gerald Duane Baxter, Minncapolis*
- Betsy Louise Beaver, Kasson*
- James Leslie Becker, Marshall*
- Barbara Nan Beise, A.A., Excelsior,*  
WITH DISTINCTION
- Elizabeth Marianne Benedict, B.A.,*  
Minneapolis
- Patricia Ellen Benn, St. Paul*
- Arland Neles Benson, Isanti*
- Barbara Ellen Benson, Hibbing, WITH*  
HIGH DISTINCTION
- Sherrill Jane Benson, Minneapolis*
- Marlowe Jean Berg, Minneapolis,*  
WITH DISTINCTION
- Suanne Bergan, St. Louis Park, WITH*  
HIGH DISTINCTION
- Carolyn Ruth Bergstrom, Minne-  
apolis, WITH DISTINCTION\**
- Helen Lucille Bergstrom, St. Paul*
- Richard John Beringson, Cass Lake*
- Marjorie Ann Berkoff, Milwaukee,*  
Wis., WITH HIGH DISTINCTION
- Judith Joan Bixby, Minneapolis, WITH*  
DISTINCTION
- Nancy Ann Bixler, Columbia Heights,*  
WITH DISTINCTION
- Betty Jane Bjorndahl, St. Paul*
- Mary Karin Ericson Blair, A.A., Falls*  
Church, Va.
- Barbara Dorcen Blaisdell, St. Paul*
- Karen Elizabeth Blom, Chippewa*  
Falls, Wis.
- Sybil Elaine Blumenson, Minneapolis,*  
WITH DISTINCTION
- Merry Ellen Peterson Bolon, Minne-  
apolis, WITH DISTINCTION*
- Carry Lloyd Bonin, Robbinsdale,*  
WITH DISTINCTION
- Charles Barry Borman, B.A., Bloom-  
ington*
- Janis Faye Bostrom, Lindstrom*
- Sandra Kay Bowen, South St. Paul*
- Genevieve Sutton Brace, Minneapolis,*  
WITH DISTINCTION\*
- Mary Hart Brisbane, Minneapolis*
- Barbara Johnson Brown, Minneapolis,*  
WITH DISTINCTION
- Harold DeWolfe Brown, Jr., St. Louis*  
Park
- Karen Patricia Brown, B.A., Minne-  
apolis*
- Nancy Lee Brunc, Wasceca*
- William Dewey Brunner, Elmwood,*  
Wis.
- William David Buffington, Minne-  
apolis*

---

\* Nursing Education Curriculum

- Diane Gail Buoen, A.L.A., Robbinsdale
- Ronald Robert Burland, Coon Rapids
- Marie Ann Burtness, Robbinsdale,  
WITH DISTINCTION
- Clarice Fayetta Bush, Missoula,  
Mont., WITH DISTINCTION
- Jean Frances Calhoun, Minneapolis
- Roger Lawrence Campbell, Minneapolis
- Doris Arlene Folkedal Caranicas, Elbow Lake, WITH DISTINCTION
- Joann Margaret Carlson, Minneapolis
- JoEllen Ruth Carlson, Minneapolis
- Carol Jean Cartwright, Minneapolis
- William Harold Caverley, Minneapolis
- Virginia Ann Chambers, Owatonna
- Michael John Chopp, Virginia
- Sarah Ellen Christensen, St. Paul
- Sharon Lea Christiansen, Bagley
- Joan Margaret Clinton, Minneapolis
- John David Comstock, Rochester
- Judith Lynn Segal Cooperman,  
Minneapolis, WITH DISTINCTION
- Walter Reid Cramond III, Minneapolis
- Carole Louise Cumming, Minneapolis
- Joan Marilyn Dahlquist, Lindstrom
- Clarke LeRoy Edward Damon, Cumberland, Wis.
- Julie Virginia Danielsen, Albert Lea
- Judith Ann Dargis, Minneapolis
- Dorene Diane Davick, Minneapolis
- Donald Gregory DeChant, Milwaukee, Wis.
- Roselyn Mary De Lisi, Minneapolis
- William Francis Denardo, A.A.,  
Minneapolis
- Geraldine Ann Derksen, A.A., Rochester, WITH DISTINCTION
- Marian Kaye Dockman, Minneapolis
- John Clark Donahue, Minneapolis
- Rita Emily Downey, St. Paul
- Virginia Mary Doyle, Minneapolis
- Thomas Arthur Dubbe, Jordan
- Catherine Ann Dunn, St. Paul, WITH DISTINCTION
- Judith Ann Dunn, B.A., Rochester
- Thomas Joseph Dunn, Minneapolis
- Helene Elaine Dunphy, A.A., Minneapolis
- William Paul Eckl, Jr., St. Paul, WITH DISTINCTION
- Judith Ann Eiken, Montevideo
- Lois Merle Eisenberg, Minneapolis,  
WITH DISTINCTION
- Judith Ann Ekola, St. Paul, WITH HIGH DISTINCTION
- David Bertholem Englund, Minneapolis
- Alvin Christie Enke, Wahpeton, N.D.
- Betty Lou Erickson, Frederic, Wis.
- Delores Ann Erickson, Sioux City, Iowa
- Delores Marie Erickson, Blooming Prairie
- Judith Elaine Erickson, Morningside
- Karen Brynhild Erickson, Minneapolis
- Suzanne Pamela Erie, Minneapolis
- Patricia Ann Evenson, Minneapolis
- Anthony Joseph Faust, Minneapolis
- Rosemary Anne Fautch, Minneapolis
- Jack Arthur Fecht, A.A., Minneapolis
- Grethe Jon Lamb Felrath, Minneapolis, WITH DISTINCTION
- Constance Fetterley, Hopkins
- Beverly Jean Fillips, Aitkin\*
- Helen Kaye Fink, Austin
- Marilyn Joy Fiske, St. Paul
- Mary Ellen Fitzgerald, Crystal
- Ray Sigward Forstad, Minneapolis,  
WITH DISTINCTION
- Arlette June Foss, Minneapolis
- Lucile Patricia Foy, Minneapolis
- Fred Irwin Frank, Minneapolis
- Laurel Ann Olson French, Windom
- Mary Jane Freudenthal, Edina
- Sheryl Dianne Gaddis, Minneapolis
- Mary Kathryn Gallagher, Minneapolis
- JoAnne Inga Gandrud, Glenwood
- Caroleann Elizabeth Rundell Garber,  
Verndale
- Mauryce Donna Gass, St. Paul
- Nancy Sue Gastman, St. Paul, WITH DISTINCTION

---

\* Nursing Education Curriculum

Marcia Jean Gatzke, Minneapolis  
 Beulah Murphy Gehringer, Minneapolis  
 Christine Louise George, Red Wing,  
 WITH DISTINCTION  
 James Edward Gerald III, B.A.,  
 Minneapolis  
 Warren William Gerecke, Edina  
 Ellen Betty Gilbert, Minneapolis  
 Norman Franklin Gilmer, Dassel  
 Dennis Lee Gladhill, Minneapolis  
 Junette Kay Golden, Minneapolis,  
 WITH DISTINCTION  
 Audrey Jane Kieffer Goldfarb,  
 St. Paul, WITH DISTINCTION  
 Sharon Ruth Goldman, Minneapolis  
 Anne Sigvaldson Gooslaw, St. Paul,  
 WITH DISTINCTION  
 Patricia Annis Gossler, Minneapolis  
 Glenn F. Gostick, Minneapolis  
 David Andrew Graf, Minneapolis  
 Susan Agnes Graham, West Hartford,  
 Conn.  
 Dalos Werner Grobe, St. Paul  
 David George Haak, Stillwater  
 Lena Amanda Haberstroh, Hansboro,  
 N.D., WITH DISTINCTION\*  
 Roxicene Jean Hackett, Mound  
 Gary Jon Hagen, Willmar  
 Patricia Ann Hagen, Minneapolis  
 David John Hall, Minneapolis  
 Jeanette Eleanor Halvorson, A.A.,  
 Willmar  
 DeWayne Hart Hamlin, North  
 St. Paul  
 William Francis Hammes, Sykeston,  
 N.D.  
 Mary Terese Hammill, Minneapolis,  
 WITH DISTINCTION  
 Neil Vern Hamrin, Minneapolis  
 Frances Louise Hankinson, Valdosta,  
 Ga.  
 Joan Secunda Hansen, St. Cloud  
 Howard Donald Hanson, Redwood  
 Falls  
 Karen Christine Hanson, Cloquet,  
 WITH HIGH DISTINCTION

Rosalie Mae Hanson, Vernon Center,  
 WITH HIGH DISTINCTION  
 Jean Diane Harris, Perham, WITH  
 DISTINCTION  
 Wayne Conrad Harris, Minneapolis,  
 WITH DISTINCTION  
 Elizabeth Ann Hartmann, Waconia  
 Melvin Lawrence Hauck, St. Paul Park  
 Russell Louallen Haugen, Montevideo  
 Susan Griffith Haycock, White Bear  
 Lake, WITH DISTINCTION  
 Robert Lewis Hedges, Minneapolis  
 Michael Charles Hendricks, A.A.,  
 Minneapolis  
 Dee Ann Hendrickson, Minneapolis  
 Mary Catherine Hennessy, St. Paul  
 Lorraine Blumenfeld Hertz, St. Paul  
 Rosemarie Teresa Hertzner, Minne-  
 apolis  
 Judith Ann Hillman, Ely  
 Ronald Thomas Hilmo, A.A., Minne-  
 apolis  
 Charles Edgar Hines, St. Paul  
 Doris Elizabeth Hoeft, Minneapolis  
 Joyce Marie Holl, Minneapolis  
 Marvin Henry Holt, Austin, WITH DIS-  
 TINATION  
 Shirley Jean Honkanen, High Bridge,  
 Wis.  
 Jeanne Diane Hornsten, Crystal  
 Roger William Howe, Minneapolis  
 Ilo Madson Howland, Minneapolis  
 Paul Anthony Hribar, Hibbing  
 Gloria Helen Hughes, Robbinsdale,  
 WITH HIGH DISTINCTION  
 Nancy Dee Hyde, Minneapolis  
 Mary Frances Ingalls, Rochester  
 Murril Yvonne Swanson IntVeld,  
 St. Paul  
 Wayne James Irely, Pelican Rapids  
 Judith Ann Jacobson, St. Louis Park  
 Marlene Joan Jarvi, Hibbing  
 Eugene Paul Jereczek, Minneapolis  
 Elaine Katherine Delsing John,  
 Minneapolis  
 Arcelia Cora Johnson, Spring Lake  
 Park

---

\* Nursing Education Curriculum

*Beverly Jean Johnson, A.L.A., Minneapolis, WITH DISTINCTION*  
 David Paul Johnson, Stillwater  
 David Walter Johnson, B.A., Hopkins  
*Lary Robert Johnson, Minneapolis, WITH DISTINCTION*  
 Marshall Frank Johnson, Minneapolis  
 Nancy Thelma Johnson, Minneapolis  
 Priscilla Linor Johnson, Duluth  
 Robert Lee Johnson, Hastings  
 Ronald James Johnson, St. Paul  
 Wendell A. Johnson, Pennock  
 Terrill Louise Johnston, Minneapolis  
*Margaret Maxine Kachler, Red Wing, WITH HIGH DISTINCTION*  
 Ann Marie Kappe, Delano  
 Lester Wilbur Kargel, Minneapolis  
*Gloria Honore Wenzel Kauls, Forest Lake, WITH DISTINCTION*  
 Ivars Kauls, Forest Lake  
 William Charles Keiper, B.A., St. Paul  
 Charles Robert Kelley, Tracy  
 June M. Vorachek Kelly, B.A., Minneapolis  
 Kevin Daniel Kennedy, White Bear Lake  
 Colleen Ruth Kerns, Anoka  
*Alice Joanne King, Minneapolis, WITH DISTINCTION*  
 Paula Jean King, Minneapolis  
*Stanley King, D.V.M., Minneapolis, WITH DISTINCTION*  
*Sandra Lea Kinyon, Minneapolis, WITH DISTINCTION*  
 Martha Fern VanAlstine Klaimon, Minneapolis  
 David Lawrence Kleinman, Bemidji  
 Patsy Ann Knalson, Anoka  
 Judith J. Knopp, B.A., Winona  
 John Leslie Knudtson, Minneapolis  
 Marilyn Ruth Force Knutson, Minneapolis  
 Elaine Audrey Koczur, Holdingford  
 Jean Josephine Koessl, Sister Bay, Wis.  
 Lya Kremer, Haifa, Israel  
 Janice Elaine Krogstad, Moose Lake  
 Daniel Russell Krueger, Minneapolis  
*Allan Robert Kyle, Minneapolis, WITH DISTINCTION*  
 Lawrence David Lampert, St. Paul  
*Jane Ann LaPlante, A.A., Rochester, WITH DISTINCTION*  
 Glenn Walter Larson, Kingsdale, WITH DISTINCTION  
 Jean Coryllet Larson, A.L.A., Columbia Heights  
 Theodor Roger Larson, A.A., Baudette  
 Patricia Marie Laulainen, Minneapolis  
 Ann Margaret Laursen, McGregor  
 Joan Brownlee Lawler, St. Paul  
 Dorothy Elaine Happel Layton, Cuba, Mo.  
*Edwin Joseph Patrick Leary, A.A., Minneapolis, WITH DISTINCTION*  
 Kathleen Marie Lehner, Minneapolis  
 Ann Wells Leonard, A.A., St. Paul  
 Sharon LeeAnn Westlund Leuthold, Minneapolis  
*Linnea Diane Lilja, Hopkins, WITH DISTINCTION*  
 Alice Annette Lindholm, Dassel  
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Wis.  
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Benjamin Leslie Hart III, B.S., St. Paul  
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Paul David Holmberg, B.S., St. Paul

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David Peter Olson, B.S., Rush City  
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Gary Robert Sampson, B.S., Minne-  
apolis  
William Fredrick Schwarze, B.S.,  
Glencoe  
Robert John Sigfrid, B.S., Parkers  
Prairie  
Rolland Richard Tibbits, Porter  
Robert Alan Williams, B.S., Big Rock,  
Ill.

## SCHOOL OF DENTISTRY

### Graduate Dental Hygienist

Bonnie Mae Billman, Billings, Mont.  
Mary Margaret Bode, International  
Falls  
Sharon Faith Boyce, Stanley, Wis.

Michel Ann Carlson, St. Paul  
Sharon Mae Cowl, Minneapolis  
Judith Ann Disney, Mapleton  
Sandra Jean Doering, Rochester

Gloria Louise Hansemann, Minneapolis  
 Nancy Ann Hansen, Minneapolis  
 Darlene Yvonne Hanson, St. Paul  
 Mary Ann Irons, Hinckley  
 Mary Eleanor Kemper, Perham  
 Barbara Ann Klein, St. Paul  
 Sharon Marie Lake, Rapid City, S.D.  
 Harriet Jean Levine, Silver Spring, Md.  
 Patricia Jo McVey, Helena, Mont.  
 Marcia Elsbeth Meyer, St. Cloud  
 Milvi Oja, Ashley, N.D.

Genevieve Marie Peper, Glenwood  
 Sharon Ann Pulchin, Richfield  
 Kay Frances Quam, Austin  
 Muriel Avonne Quam, Kenyon  
 Ruth Carol Rafshol, Robbinsdale  
 Joyce Katherine Ranger, Keewatin  
 Lenore Elizabeth Sexton, Duluth  
 Sharon Joy Skanse, Minneapolis  
 Judy Carole Suiter, St. Paul  
 Loris Nilene Sundquist, Minneapolis  
 Barbara Louise Willis, Minneapolis  
 Dorothea Margarete Ziegler, Perham

## Bachelor of Science

Bruce Edward Abrahamson, Monticello  
 James Harry Alevizos, B.B.A., Minneapolis  
 Vernon Lenroot Amundson, Duluth  
 Glen Del Anderson, Minneapolis  
 Carl L. Bandt, Nekoosa, Wis., WITH DISTINCTION  
 David Roy Bangsberg, La Crosse, Wis.  
 James Monroe Barnes, St. Paul  
 Charles F. Benzie, Onamia  
 John Frederick Brackin, Wahpeton, N.D.  
 James Evan Brewster, Windom  
 Kenneth La Verne Catton, Marshall, WITH DISTINCTION  
 Larry James Dermody, Vernon Center  
 Robert Arrhenius Dyste, St. Bonifacius  
 Michael Lee Erlandson, Devils Lake, N.D.  
 Noel Arliss Evans, Red Wing  
 Harold Llewellyn Frederick, Minneapolis  
 Paul Francis Gavin, B.A., Rosemount  
 Michael Mack Gibson, Sioux Falls, S.D., WITH HIGH DISTINCTION  
 John Irvin Gilbert, Fargo, N.D.  
 Paul Duane Gillespie, B.A., Fordville, N.D.  
 John Mitchell Grewe, Eau Claire, Wis.  
 Gary Eugene Hartman, B.A., Minneapolis

Raymond Allan Hellickson, Cannon Falls  
 Robert Walter Hesse, St. Paul  
 David L. Hoffman, St. Paul  
 George Paul Joyce, Rochester  
 Elliott Barry Karpeles, B.A., Minneapolis  
 Gordon Windsor Knudson, B.A., Hopkins, WITH DISTINCTION  
 Lloyd Francis Leonard, B.A., Minneapolis  
 Marvin Paul Levin, B.A., Minneapolis  
 Ricardo Christopher Menor, Duluth  
 Robert Bergren Miller, Two Harbors  
 Douglas Arlo Nelson, Fairmont  
 Richard Allan Nelson, Minneapolis  
 Dean Rodney Olson, Hopkins  
 Richard Dexter Olson, Minneapolis  
 William Russell Pellett, Shelby, Mont.  
 Howard William Reinke, Hankinson, N.D.  
 Donald F. Richards, Dickinson, N.D.  
 Thomas Harold Rollin, Minneapolis  
 Byron Wesley Rudolphi, Minneapolis  
 Donald George Saba, Bismarck, N.D.  
 David Dean Sandwick, A.A., Laporte  
 Dale Thomas Soderberg, Soudan  
 Eric Edward Stafne, B.A., Rochester  
 Vernon Ralph Steffens, Minneapolis  
 Wesley John Streed, Duluth, WITH DISTINCTION  
 Edward Albert Tarnowski, Jr., Duluth  
 Thomas Bartlett Tibbetts, St. Paul

Melvin Wesley Walters, Crookston,  
WITH DISTINCTION  
LeRoy Vincent Wang, B.A., Halstad  
Francis John Washburn, A.A., Roch-  
ester

David Edward Wesely, B.S., Hope  
Blair Donovan Woolsey, B.A., St. Paul  
Paul Kenneth Ye, Minneapolis

## Doctor of Dental Surgery

LeRoy Edwin Albjerg, B.S., Fergus  
Falls  
James Harry Alevizos, B.B.A., Minne-  
apolis  
Donald Herbert Anderson, B.S.,  
Minneapolis  
Odell Johnnie Anderson, B.S., Lowry  
Ronald Lee Baker, B.S., Owatonna  
David Roy Bangsberg, La Crosse, Wis.  
James Monroe Barnes, St. Paul  
James Williams Behrends, St. James  
James Donald Bennyhoff, B.S.,  
Brainerd  
Edward James Bifulk, B.S., St. Paul  
Ralph Frederick Boss, Clarkfield  
Robert David Brundin, Minneapolis  
Douglas Lawrence Buck, B.S., Minne-  
apolis  
Robert Arthur Burns, B.A., Minne-  
apolis  
Bruce Einar Carlson, B.S., Minne-  
apolis  
Rodney John Casad, B.S., McVille,  
N.D.  
Kenneth La Verne Catton, Marshall  
Craig Clayton Clausen, Albert Lea  
Vallie Ray Conley, Detroit Lakes  
David Edward Crandall, St. Paul  
Helmer Bernhardt Dale, B.S., Niels-  
ville  
Donald Edwin Davis, B.S., St. James  
Lloyd Harry Dedon, Jr., B.S., Taylors  
Falls  
Harry Raymond Dorvinen, Wausau,  
Wis.  
Robert Arrhenius Dyste, Minneapolis  
Dennis Melvin Eckholm, B.S.,  
Willmar  
Raymond Hugh Eckles, B.S., Minne-  
apolis  
Michael Lee Erlandson, Devils Lake,  
N.D.

Noel Arliss Evans, Red Wing  
Robert Carl Faine, B.A., B.S., St. Paul  
Robert Willard Farish, B.S., Caldwell,  
Idaho  
Arlie R. Fast, B.S., Delft  
George Edward Fischer, B.S., Marshall  
Harold Llewellyn Frederick, Minne-  
apolis  
Raymond Harry Gerst, St. Paul  
Dean William Govig, B.S., Minne-  
apolis  
Duane Theodore Hanson, B.S.,  
Brainerd  
Vernon Robert Hanson, B.S., St. Paul  
Albert Charles Heck, B.A., B.S., San  
Diego, Calif.  
Edward Aaron Himrich, B.S., Selby,  
S.D.  
Peter Marvin Holm, B.S., Minneapolis  
James Henry Hunder, B.S., Lake City  
Odein LeRoy Hyland, B.S., Richfield  
Willis Benjamin Irons, B.S., Hinckley  
George Paul Joyce, Rochester  
Lyle Eide Kallstrom, B.S., Glen Flora,  
Wis.  
Elliott Barry Karpeles, B.A., Minne-  
apolis  
Thomas Frederick Kiner, B.S., Janes-  
ville  
Bill L. Klunder, Fairmont  
Clark Francis LaChapelle, B.S.,  
Minneapolis  
Lloyd Francis Leonard, B.A. with high  
distinction, Minneapolis  
Richard Allen Litman, B.S., Minne-  
apolis  
Thomas William Loonan, B.S.,  
Easton  
Duane William Loudon, B.S., Aber-  
deen, S.D.  
James Nicholas Matchefts, A.A.,  
Eveleth



Ronald Anthony Mayerle, Chisholm	Byron Wesley Rudolphi, Minneapolis
Herbert Floyd McClellan, Jr., B.S., B.A., Mobridge, S.D.	Kenneth Derald St. Louis, B.S., Eau Claire, Wis.
Jack Wilson McFarland, Hibbing	Harold Richard Scheibe, Jr., B.S., Cloquet
John David McGill, B.A., B.S., Wayzata	Richard George Sheils, B.S., Minne- apolis
William John Milne, B.A., B.S., St. Paul	Myron John Smith, B.S., Washburn, Wis.
Robert William Mundt, Sr., B.S., Onamia	Jack Arnet Soderling, B.S., Forest City, Iowa
Thomas Dwight Murphy, Jr., B.S. Duluth	Eric Edward Stafne, B.A., Rochester
Bruce Maynard Nelson, B.S., Minne- apolis	David Glenn Thackray, B.A., Wau- pun, Wis.
Darold Elery Niccum, Amery, Wis.	John Norbert Trodahl, B.A. cum laude, Minneapolis
David Peter Norden, B.S., St. Paul	Karl Greg Von Grossmann, B.S., St. Paul
Dale Clarence Nordstrom, B.S., B.A., Dassel	LeRoy Vincent Wang, B.A., Halstad
William Claire Nygren, B.S., Braham	Blair Donovan Woolsey, B.A., St. Paul
Robert Edward Packard, B.S., Mahno- men	Garrit Mack Ye, B.S., Minneapolis
William Russell Pellett, Shelby, Mont.	Ronald D. Yee, B.A., Minneapolis
David Charles Pull, St. Cloud	Allen Avery Young, B.S., Duluth
Donald Howard Reynolds, B.S., Council, Idaho	Robert Emerson Youngquist, B.S., Denver, Colo.
Kenneth James Richter, B.A., St. Paul	

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing\*

*Marjorie McHugh Clement, Minneapolis, WITH DISTINCTION*

### Bachelor of Science in Nursing Administration

<i>Shirley Carolyn Asklund, Minneapolis, WITH DISTINCTION***</i>	<i>Phyllis Marie Hall, Miami, Fla.*** Dorothee Phyllis Swartz, St. Paul</i>
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### Bachelor of Science

<i>Michael Bernard Abramson, B.A., Minneapolis, Medicine</i>	<i>Joan Elizabeth Aldrich, Minneapolis, Medical Technology**</i>
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\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to August 18, 1960.

\*\* These degrees are conferred subject to the satisfactory completion of practical work prior to December 15, 1960.

\*\*\* Degree conferred as of March 17, 1960

- David Guy Alexander, B.A., Minneapolis, Medicine
- Harlan George Alexander, B.A., Minneapolis, Medicine
- James Robert Allen, B.A., Byron, Medicine
- Audrey Corinne Anderson, R.N., Fergus Falls, Public Health Nursing
- Bernice S. Anderson, Minneapolis, Occupational Therapy
- Jane Ellen Anderson, La Crosse, Wis., Occupational Therapy, WITH HIGH DISTINCTION
- Quentin Nelson Anderson, B.A., North Branch, Medicine
- Rosalie Eileen W. Anger, Minneapolis, Physical Therapy
- Stanley John Antolak, Jr., B.A., Minneapolis, Medicine
- Judy Ann Baker, Duluth, Medical Technology\*\*
- Julian Louis Berman, B.A., St. Paul, Medicine
- John Fredric Biltz, B.A., Glen Lake, Medicine
- Karen Jeanne Bisset, Columbia Heights, Medical Technology, WITH DISTINCTION\*\*
- Harold Robert Broman, Jr., B.A., Poynette, Wis., Medicine
- Ruth Ann Brown, Braham, Medical Technology\*\*
- Robert Dean Bugby, B.A., Minneapolis, Medicine
- Brian Christopher Campion, St. Paul, Medicine
- Anna Mae Cihac, Bowlus, Medical Technology, WITH DISTINCTION\*\*
- Shelby Jean Clayson, Isanti, Physical Therapy, WITH DISTINCTION
- Gary Allan Cowan, Duluth, Medicine
- Thomas James Crowley, St. Louis Park, Medicine
- David Emmett Culligan, St. Paul, Medicine
- Kathleen Ingrid Dahle, Houston, Medical Technology\*\*
- Sheldon Walter Damberg, B.A., Virginia, Medicine
- Donna Evangeline Dauwalter, Carver, Medical Technology, WITH DISTINCTION\*\*
- Diana Frances Debevec, Eveleth, Physical Therapy
- Lawrence William DeSanto, B.A., Duluth, Medicine
- Ronald Herman Dictzman, B.A., St. Paul, Medicine
- Elizabeth Doelker, Fond du Lac, Wis., Public Health Nursing
- Mardell Jean Domy, Waseca, Physical Therapy
- Owen Paul Doyle, B.A., Minneapolis, Medicine
- Patricia Lou Eans, St. Paul, Medical Technology\*\*
- Joseph Francis Eckert, B.S., Gibbon, Medicine
- Nannette Jayne Elmquist, St. Paul, Occupational Therapy
- Joseph Samuel Emond, Jr., B.A., Farmington, Medicine
- James Louis Erickson, B.A., Minneapolis, Medicine
- Loretta Jean Evenocheck, Ely, Medical Technology\*\*
- Elaine Jean Fedors, Minneapolis, Occupational Therapy
- Joel Finkelstein, B.A., Minneapolis, Medicine
- Joanne Ethel Floeder, St. Paul, Medical Technology\*\*
- Lynn Leslie Flory, Minneapolis, Medical Technology, WITH DISTINCTION\*\*
- Harold Davis Gambill, B.A., Rochester, Medicine
- Wendell George Geary, B.A., Pemberton, Medicine
- Alvan Ronald Gendcin, B.A., Minneapolis, Medicine
- Mace Goldfarb, B.A., St. Paul, Medicine

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\*\* These degrees are conferred subject to the satisfactory completion of practical work prior to December 15, 1960.

- Gordon Owen Greene, B.A., Waterville, Medicine
- Jessie Lynn Hansen, St. Paul, Medical Technology, WITH DISTINCTION
- Bernie H. P. Hanson, Moorhead, Medicine
- Betty Jean Hanson, Harmony, Medical Technology\*\*
- James Levin Heiser, Lincoln, Neb., Physical Therapy
- John Currie Henry, B.A., Owatonna, Medicine
- Thomas Earl Hense, St. Paul, Physical Therapy
- Bruce Harold Hiller, B.A., Rochester, Medicine
- Joy Anine Hinton, Springfield, Occupational Therapy
- Warren Frank Hoffman, B.A., Minneapolis, Medicine
- Marilyn JoAnne Hopp, Minneapolis, Medical Technology\*\*
- Phyllis Horovitz, Minneapolis, Medical Technology, WITH HIGH DISTINCTION\*\*
- Georgene Margaret Howalt, Stillwater, Physical Therapy
- Jacqueline Maria Howson, Minneapolis, Occupational Therapy
- Jean Ann Hyslop, St. Paul, Medical Technology, WITH DISTINCTION\*\*
- June Tsuyako Inoshita, Kapaa, Kauai, Hawaii, Medical Technology\*\*
- Philip C. Iverslie, B.A., Mankato, Medicine
- Alan Richard Johnson, B.A., Minneapolis, Medicine
- Gerhard Jacob Johnson, B.A., St. Paul, Medicine
- Robert Clifford Johnson, Minneapolis, Medicine
- Thomas Phillip Johnson, B.A., St. Louis Park, Medicine
- Eugene Reynold Jonas, B.A., Red Wing, Medicine
- Robert Edward Kalina, B.A., Montgomery, Medicine
- Kathryn Grace Kampf, Minneapolis, Public Health Nursing
- Aija Irena Kancitis, Minneapolis, Medical Technology\*\*
- Arnold Phillip Kaplan, B.A., St. Paul, Medicine
- Mary Jane Klun, Ely, Medical Technology, WITH DISTINCTION\*\*
- Peter Sylvester Koontz, Minneapolis, Medicine
- Morris L. Lommen, B.A., Austin, Medicine
- Murray Wilson Lufkin, B.A., Minneapolis, Medicine
- James Duncan MacGibbon, B.A., Minneapolis, Medicine
- Paula Marie Makinen, International Falls, Medical Technology, WITH DISTINCTION\*\*
- Lucia Borychowska Mandil, Minneapolis, Medical Technology\*\*
- Kenneth Paul Manick, B.A., Minneapolis, Medicine
- James Edward Marquardt, B.A., Fairmont, Medicine
- Patricia Louise Maser, Hinckley, Medical Technology\*\*
- Lawrence Conrad Mayerle, A.A., Nashwauk, Medicine
- Fred Emil Mecklenburg, B.A., South St. Paul, Medicine
- John Norman Mork, Worthington, Medicine
- Robert Mark Morse, B.A., International Falls, Medicine
- Carol JoAnn Nelson, Minneapolis, Medical Technology, WITH HIGH DISTINCTION\*\*
- Ronald John Nelson, B.A., Minneapolis, Medicine
- Ida Mary Newman, Wolf Point, Mont., Physical Therapy
- Sydne Ann Nolden, Jordan, Medical Technology\*\*
- Bruce Cullen Nydahl, B.A., Mankato, Medicine

---

\*\* These degrees are conferred subject to the satisfactory completion of practical work prior to December 15, 1960.

- Henry Joseph Osekowsky, B.A.,  
Minneapolis, Medicine
- Rebecca Ann Dyke Osmundson,  
Minneapolis, Occupational Therapy
- Charles Sherman Ostrov, B.A., Vir-  
ginia, Medicine
- Lawrence Bertil Pearson, Jr., Minne-  
apolis, Medicine
- Doris Marilyn Pennington, Minne-  
apolis, Public Health Nursing
- David John Perry, Duluth, Medicine
- Charles Richard Peterson, B.A., Jack-  
son, Medicine
- Willard Carl Peterson, Jr., B.B.A.,  
Minneapolis, Medicine
- Roger Holman Princell, B.A., Minne-  
apolis, Medicine
- Yaroslava Riabokin, St. Paul, *Physical  
Therapy, WITH DISTINCTION*
- Laurence Stuart Rivkin, B.A., Minne-  
apolis, Medicine
- Thomas Owen Robbins, Minneapolis,  
Medicine
- Dennis MacMartin Robertson, B.A.,  
South St. Paul, Medicine
- Elliott L. Rustad, B.A., Lanesboro,  
Medicine
- Carole Jean Sahlstrand, Minneapolis,  
Medical Technology\*\*
- Irene Diane Salk, Elk River, Physical  
Therapy
- Linda Mack Schloff, St. Paul, *Medical  
Technology, WITH DISTINCTION\*\**
- Shirley Doris Schmidt, Howard Lake,  
Occupational Therapy
- Jerry Lynn Schottler, B.A., Minne-  
apolis, Medicine
- John Roman Sebald, Moose Lake,  
Medicine
- Marvin S. Segal, B.A., St. Louis Park,  
Medicine
- Sheldon Jay Segal, B.A., Minneapolis,  
Medicine
- Odean Marlin Severseike, B.A., Bel-  
mond, Iowa, Medicine
- Paul Morton Silverstein, B.A., Rob-  
binsdale, Medicine
- Warren F. Sims, B.A., Virginia, Medi-  
cine
- Imna Belle Smith, Cavalier, N.D.,  
Public Health Nursing
- Dorian Denise Steckling, St. Paul,  
Occupational Therapy
- James Duane Swenson, B.A., Dawson,  
Medicine
- Gershom Joseph Thompson, Jr., B.A.,  
Rochester, Medicine
- Gordon Lees Thurston, Faribault,  
Medicine
- Carol Ann Timmons, Glenwood,  
Medical Technology\*\*
- Elaine Ester Towbin, Denver, Colo.,  
Occupational Therapy
- Susan Annette Vogel, South St. Paul,  
Occupational Therapy
- Louis Andrew Vontver, B.A., Billings,  
Mont., Medicine
- Darrell Theodore Weinman, B.A.,  
Fairmont, Medicine
- Martin George Weisberg, B.A.,  
Minneapolis, Medicine
- Jon Davis Wempner, B.A., Plainview,  
Medicine
- Robert Arthur Wengler, Albany,  
Medicine
- Marcie Ruth Wheat, Duluth, *Occu-  
pational Therapy, WITH DISTINCTION*
- Conrad James Wilkowske, B.A., Owa-  
tonna, Medicine
- Edward Towl Wong, B.A., Minne-  
apolis, Medicine
- Philip James Worrell, B.A., Hopkins,  
Medicine
- Thomas Jerry Wright, B.A., Minne-  
apolis, Medicine
- Suzanne Elizabeth Zuehlke, Milwau-  
kee, Wis., *Physical Therapy, WITH  
HIGH DISTINCTION*
- James Lewis ZumBrunnen, B.A.,  
Monticello, Medicine
- Mary Ruth Zweber, New Prague,  
Medical Technology\*\*

---

\*\* These degrees are conferred subject to the satisfactory completion of practical work prior to December 15, 1960.

## Master of Hospital Administration

- Donald Leroy Bjorlin, B.B.A., Chokio  
David Roe Brandsness, B.B.A., Cottage Grove, Ore.  
Gaylord John Bridge, B.S., Minneapolis  
Emery Bartholomew Busch, Jr., B.S., Cleveland, Ohio  
Robert Eugene Ernst, B.A., Omaha, Neb.  
Thomas Joseph Frawley, B.S., M.A., Lowell, Mass.  
Luther Waldemar Goehring, B.S., Kinsley, Kan.  
John Richard Howard, B.S., St. Paul  
Charles Frederick Johnson, B.B.A., Minneapolis  
Donald Neil Johnson, B.A., Hopkins  
Laurence Erwin Johnson, B.A., Minneapolis  
Harold Mikkel Kelly, B.S.Econ., Devils Lake, N.D.  
Robert John Laur, B.B.A., Minneapolis  
Ernest Warren Libman, B.A., St. Paul  
Charles Clifford Lindstrom, B.A., Minneapolis  
John Warren Luebs, B.S., Lincoln, Neb.  
Rufus Walker Manderson, B.B.A., M.B.A., Minneapolis  
Victor Harold Marcotte, B.S., Russell, Mass.  
Kenneth Eugene Omundson, B.A., Thief River Falls  
David Raymond Preston, B.A., Chisholm  
David Sigfrid Ridderheim, Jr., B.A., Warwick, R.I.  
Lyle Eugene Schroeder, B.A., Pipestone  
Kenneth Theodore Swanson, B.B.A., Minneapolis  
Eduardo Legaspi Villegas, M.D., Manila, Philippines  
Robert Anthony Vitello, B.S., Boston, Mass.  
Paul Joseph Vogt, B.S., M.A., Victoria, Tex.  
John Harold Westerman, B.S.L., B.B.A., Minneapolis  
Robert Harold Wolter, B.S.B., St. Paul

## Master of Nursing Administration

- Alvira Bernice Hiltz, B.S.N.A., Anoka  
Maureen Ann Hunt, B.S.N.A., St. Paul  
Anne Marie Maher, A.A., B.S., Beardsley  
Vera Ostapovitch, B.S.N.A., Theodore, Saskatchewan, Canada

## Master of Public Health

- Luella Barron Afek, B.S., Butler, Pa.  
Irene H. Anderson, B.A., Minneapolis  
LaVerne Elizabeth Blaser, Cleveland, Ohio  
Harry Clark Bostick, B.S., M.S., Quincy, Ill.  
Beverly Henry Bowns, B.S., New York City, N.Y.  
Anna Josephine Brown, Indianapolis, Ind.  
Glenn David Carlson, B.A., B.S., Seattle, Wash.  
Constance Lee Cottingham, B.S.N., Russell, Iowa  
Muriel Gladys Dayhoff, B.A., Topeka, Kan.  
Marilyn Rose Facklam, B.S.N., Tonawanda, N.Y.  
Ellen Zinsser Fifer, B.A., M.D., Minneapolis

Lucille M. Floeter, B.A., Rocky River, Ohio  
 Grace Leona Meinen Hallberg, B.S., Minneapolis  
 Marvin Dean High, B.S.C.E., M.S.C.E., Cayuga, Ind.  
 Harry Henry Hovey, Jr., B.C.E., Albany, N.Y.  
 Philip Charles Hoyer, B.A., Minneapolis  
 Jong Huh, M.D., M.S., Seoul, Korea  
 Gerald Andrew Jacobson, B.S., D.V.M., Jacobson  
 Edward Charles Jones, B.S., Lancaster, Pa.  
 Arvid Karlstrom, B.S., Portland, Ore.  
 James Cornelius Kepp, D.V.M., Alice, Tex.  
 Abdul Quadir Khan, Dacca, East Pakistan  
 James Lawrence Lissack, B.Ch.E., Green Bay, Wis.  
 Dorothy Fisher Luthringer, B.S., Monticello, Ind.  
 William French McCulloch, D.V.M., Des Moines, Iowa  
 Ellen Irene McDonald, B.S., Pasadena, Calif.  
 Thomas Charles Mc Indoe, B.S., Rhinelander, Wis.  
 Shirley Ann Middleton, B.S., M.A., Tacoma, Wash.  
 Christopher Newell Morgan, B.S., M.S., Lincoln, Neb.  
 Dorothy Jean Marie Nelson, B.S., Washington, D.C.  
 Margaret Cope Newmark, B.S., Ibadan, Nigeria  
 Eleanor Evangeline O'Meara, B.S., Green Bay, Wis.  
 In Kyu Park, M.D., Seoul, Korea  
 Anibal Edgar Perez, Asuncion, Paraguay  
 Frances Louise Porter, B.S., Madison, Wis.  
 Abul Hussain Md Abdur Rahman, East Pakistan  
 Muhammed Habibur Rahman, East Pakistan  
 Jennie H. Rakich, B.S., Atlanta, Ga.  
 Thomas Richard Ramalcy, B.A., B.S., Seattle, Wash.  
 Donald Gene Ramras, B.A., M.S., M.D., St. Paul  
 Otto Hakon Ravenholt, B.A., M.D., Luck, Wis.  
 Jack Hetsel Russell, D.V.M., Gallipolis, Ohio  
 Felipe Saucó Rustia, M.D., Philippines  
 Cora Ragana S. Shelstad, B.S., Finley, N.D.  
 Phillip Henry Shoultz, B.A., Rochester  
 Betty Fay Sorensen, B.A., B.S.N., Minneapolis  
 Bernita Margaret Steffl, B.S., Wells  
 Ralph Edward Stewart, B.S., Gloversville, N.Y.  
 Rufino Cordova Suplido, M.D., Philippines  
 Antonio G. Tan, M.D., Laguna, Philippines  
 Harold Everett Thompson, Jr., B.S., Springfield, Va.  
 Shih - Hsien Tsai, M.D., Taipei, Formosa  
 Allan Fox Welch, B.S., Old Hickory, Tenn.  
 Philomena Marie Wille, B.S., San Leandro, Calif.  
 Wen Yao Yue, B.S., M.D., Oak Terrace  
 Charles Frederick Zipprich, B.Ch.E., Port Chester, N.Y.

## Doctor of Medicine

Eugene Leighton Acuff, B.A., Rock Island, Ill.  
 Paul Gerhardt Albrecht, B.S., M.S., Minneapolis  
 John Garth Albright, B.S., St. Paul  
 James Robert Allen, B.A., Byron  
 Loren Alden Anderson, B.S., Ponsford  
 Richard O. Anderson, B.A., Ironton  
 Costas Assimacopoulos, B.A., Athens, Greece

Gary H. Baab, B.S., Watertown  
 Chilton Robert Baker, Jr., B.A.,  
 Minneapolis  
 David W. Bean, B.S., Minneapolis  
 Donovan Larry Beckman, B.A.,  
 Minneapolis  
 Roger John Benjamin, B.S., Pipestone  
 Julian Louis Berman, B.A., St. Paul  
 Ernest Taillefer Bohland, M.A.,  
 St. Paul  
 Jon Edward Boline, B.A., Battle Lake  
 Ray Irving Brace, B.A., Minneapolis  
 Harold Robert Broman, Jr., B.A., Poy-  
 nette, Wis.  
 Robert Dean Bugby, B.A., Minne-  
 apolis  
 Thomas George Casey, B.S., Brecken-  
 ridge  
 William Lloyd Christian, B.A., B.S.,  
 Adrian  
 C. Carlyle Clawson, B.S., Montevideo  
 Sheldon W. Damberg, B.A., Virginia  
 Joseph Davidson, B.S., M.S., Ph.D.,  
 Camden, N.J.  
 Lawrence William DeSanto, B.A.,  
 Duluth  
 Daniel L. deWerd, B.S., Olivia  
 Robert Aaron Diamond, B.A., B.S.,  
 Minneapolis  
 Owen Paul Doyle, B.A., B.S., Minne-  
 apolis  
 Joseph Francis Eckert, B.S., Gibbon  
 Dale LeRoy Eichelberger, B.S., May-  
 nard  
 William Benit Eilers, B.S., Redwood  
 Falls  
 Orland Dole Eliason, B.S., Havre,  
 Mont.  
 James Louis Erickson, B.A., Minne-  
 apolis  
 James Derrill Fett, B.A., Campbell  
 Harold Davis Gambill, B.A., Roches-  
 ter  
 James Jay Garber, B.S., Mankato  
 Wendell George Geary, B.A., Pem-  
 erton  
 Alvan Ronald Gendein, B.A., Minne-  
 apolis  
 Mace Goldfarb, B.A., St. Paul  
 Gordon Owen Greene, B.A., Water-  
 ville  
 John Allen Grover, B.A., Duluth  
 Elizabeth Marianne Haaland, B.A.,  
 Fairfax  
 Hovald Kjoss Helseth, Jr., B.A., Fer-  
 gus Falls  
 John Currie Henry, B.A., Owatonna  
 Richard Theodore Henry, B.S.,  
 St. Paul  
 Norman Paul Herman, B.A., B.S.,  
 St. Louis Park  
 Clement Norris Herred, B.S., D.D.S.,  
 Miller, S.D.  
 Bruce Harold Hiller, B.A., Rochester  
 Corrin John Hodgson, B.S., Rochester  
 David Stephen Hopkins, B.A.,  
 St. Cloud  
 Vincent Robert Hunt, B.A., Anoka  
 Philip C. Iverslie, B.A., Mankato  
 Clarence A. Jenike, B.S., Hutchinson  
 Alan Richard Johnson, B.A., Minne-  
 apolis  
 Arthur George Johnson, Jr., B.S.,  
 Litchfield  
 Robert Lee Johnson, B.A., Duluth  
 Thomas Phillip Johnson, B.A.,  
 St. Louis Park  
 Eugene Reynold Jonas, B.A.,  
 Red Wing  
 Robert Edward Kalina, B.A., Mont-  
 gomery  
 Arnold Phillip Kaplan, B.A., St. Paul  
 Charles Edward Keenan, Jr., B.S.,  
 St. Paul  
 John Clark Kelly, B.S., St. Paul  
 Thomas Patrick Kenefick, B.S.,  
 St. Paul  
 William N. Kinney, B.S., St. Paul  
 James F. Knapp, B.S., Hopkins  
 Robert John Knip, B.S., Minneapolis  
 Michael Francis Koch, Wadena  
 John Barrett LaLonde, B.A., M.S.,  
 Bemidji  
 Shirley Anne Bean Lansky, B.A.,  
 St. Paul  
 John E. Larkin, Jr., B.S., St. Paul  
 Thaddeus J. Lehwica, B.S., Winona  
 Michael David Levitt, B.S., St. Paul  
 Morris L. Lommen, B.A., Austin  
 Murray Wilson Lufkin, B.A., Minne-  
 apolis

John Duncan MacArthur, B.S.,  
 Duluth  
 James Duncan MacGibbon, B.A.,  
 Minneapolis  
 Kenneth Paul Manick, B.A., Minne-  
 apolis  
 James Edward Marquardt, B.A., Fair-  
 mont  
 John MacKinnon McKelvey, B.A.,  
 Minncapolis  
 John Angus McLeod, B.S., Chisholm  
 Fred Emil Mecklenburg, B.A., South  
 St. Paul  
 Charles Bennett Mercil, B.S., B.A.,  
 Crookston  
 Robert Mark Morse, B.A., Interna-  
 tional Falls  
 Roger Dale Morse, B.A., Le Roy  
 Ronald Alden Moss, B.S., Oakdale,  
 Neb.  
 Ronald John Nelson, B.A., Minne-  
 apolis  
 Bruce Cullen Nydahl, B.A., Mankato  
 John Andrew Ochsner, B.S., Wabasha  
 Barbara Ford Olson, B.A., Mankato  
 Richard Edward Olson, B.S., Willmar  
 Betty Jeanne Oscid, B.A., Bemidji  
 Henry Joseph Oskowsky, B.A.,  
 Minneapolis  
 Charles Richard Peterson, B.A., Jack-  
 son  
 Willard Carl Peterson, Jr., B.B.A.,  
 Minneapolis  
 Bernard Pollara, M.S., Chicago, Ill.  
 Roger Holman Princell, B.A., Minne-  
 apolis  
 George Edward Reisdorf, B.A.,  
 St. Paul  
 Dennis MacMartin Robertson, B.A.,  
 South St. Paul  
 Richard George Rowe, B.S., Duluth  
 Elliott L. Rustad, B.A., Lanesboro  
 Jerry Lynn Schottler, B.A., Minne-  
 apolis  
 Peter Allan Schunk, B.S., Sheridan,  
 Wyo.  
 Sheldon Jay Segal, B.A., Minneapolis  
 Odean Marlin Severseike, B.A., Bel-  
 mond, Iowa  
 David Eugene Siewert, B.A., Brainerd  
 Paul Morton Silverstein, B.A., Rob-  
 binsdale  
 Warren F. Sims, B.A., Virginia  
 Olof Stephen Sohlberg, B.A., St. Paul  
 Richard Erwin Streu, B.A., B.S.,  
 Minneapolis  
 James Duane Swenson, B.A., Dawson  
 Gerald Theodore Telander, B.A.,  
 South St. Paul  
 Gershom Joseph Thompson, Jr., B.A.,  
 Rochester  
 Ronald Lee Villella, B.A., B.S.,  
 Minneapolis  
 Louis Andrew Vontver, B.A., Billings,  
 Mont.  
 Darrell Theodore Weinman, B.A.,  
 Fairmont  
 Martin George Weisberg, B.A.,  
 Minneapolis  
 Jon Davis Wempner, B.A., Plainview  
 Lloyd Ashley Whitesell, Jr., B.A.,  
 Minneapolis  
 Norman Parker Wigg, B.S., Minne-  
 apolis  
 Conrad James Wilkowske, B.A., Owa-  
 tonna  
 Edward Towl Wong, B.A., Minne-  
 apolis  
 Philip James Worrell, B.A., Hopkins  
 Thomas Jerry Wright, B.A., Minne-  
 apolis



# GRADUATE SCHOOL

## Master of Arts

John Herbert Adams, Hamel

B.S. '53, St. Cloud State Teachers College.  
Field of Concentration: Area Studies: Latin  
America.

Howard Peter Anderson, Duluth

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

George Fowler Appel, St. Louis Park

B.S. '51, Northwestern University. Field of  
Concentration: English.

James Lowell Armstrong, Rochester

B.A. *cum laude* '57, University of Minnesota.  
Field of Concentration: English.

Inez Margaret Aspelund, Wilmot, S.D.

B.S. with distinction '57, University of Minne-  
sota. Field of Concentration: Child Develop-  
ment and Welfare.

Roger Lewis Barrett, Minneapolis

B.S. with distinction '57, University of Minne-  
sota. Field of Concentration: Educational Psy-  
chology.

Keith Malcolm Bergstrom, St. Paul

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

Ruth Eloise Burkhardt, Minneapolis

B.A. '45, University of California (Los Ange-  
les); Ph.D. '55, St. Mary's College (Indiana).  
Field of Concentration: Psychology.

Marian Fladstol Calway, Minneapolis

B.S. '48, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Dieter Eric Chenux-Repond, Basel,  
Switzerland

Graduate *magna cum laude* '58, University of  
Basel (Switzerland). Major: Political Science.  
Minor: History. Thesis: The Attitude of Gov-  
ernments Toward a State Where an Insurrec-  
tion Arises.

Joanne Margaret D'Andrea, Keewatin

B.A. *magna cum laude* '58, University of Min-  
nesota. Field of Concentration: Psychology.

Jehuda Deminski, Haifa, Israel

Graduate '40, Jerusalem Hebrew Teachers'  
College. Field of Concentration: Education.

Neil Bernard Duppen, Madison, Wis.

B.S. '55, University of Wisconsin. Field of  
Concentration: Industrial Relations.

Glen M. Enos, St. Paul

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

Lowell DeWayne Formo, Minneapolis

B.A. '41, Augsburg College. Field of Concen-  
tration: Educational Administration.

Victor Fruehauf, Midland, Mich.

B.A. '58, Albion College. Field of Concen-  
tration: Industrial Relations.

Marjorie Gatchell, Scarsdale, N.Y.

B.A. '54, Swarthmore College. Field of Con-  
centration: Music.

John George Geier, Minneapolis

B.A. *cum laude* '59, Northwestern College.  
Field of Concentration: Speech and Theater  
Arts.

Marie Juanita Germann, Garden City

B.A. *cum laude* '58, University of Minnesota.  
Field of Concentration: Library Science.

Eileen Ruth Hansen, Minneapolis

B.A. *cum laude* '58, University of Minnesota.  
Field of Concentration: Library Science.

Gordon Albert Hansen, Adams

B.S. '43, Winona State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Viggo Peter Hansen, Askov

B.A. '52, B.S. '58, University of Minnesota.  
Field of Concentration: Curriculum and In-  
struction.

William Eugene Hauser, Minneapolis

B.S. with distinction '52, University of Min-  
nesota. Field of Concentration: Spanish.

Ardyth Ann N. Hebeisen, Minot,  
N.D.

B.S. *cum laude* '55, Minot State Teachers  
College. Field of Concentration: Educational  
Psychology.

Fritz Louis Herrmann, Minneapolis  
B.A. '56, University of Minnesota. Field of  
Concentration: History.

James Harold Hill, Pelican Rapids  
B.A. '53, Hamline University. Field of Con-  
centration: Educational Administration.

Maurice Fred Himmerich, St. Paul  
B.A. '56, Macalester College. Field of Concen-  
tration: Classical Civilization.

Richard Ray Hoff, Marshall  
B.A. '58, University of Minnesota. Field of  
Concentration: Industrial Relations.

Thomas Bryson Irvin, St. Paul  
B.S. *cum laude* '56, Indiana State Teachers  
College. Field of Concentration: Educational  
Psychology.

Thomas Warren Jacobson, Owatonna  
B.A. '57, St. Olaf College. Field of Concen-  
tration: Classics.

Leonard Henry Jansen, Le Sueur  
B.S. with honors '51, Mankato State Teachers  
College. Field of Concentration: Education.

Gordon Bernard Johnson, St. Paul  
B.S. '53, University of Minnesota. Field of  
Concentration: Educational Psychology.

Phyllis Carol Kief, Montevideo  
B.S. with high distinction '58, University of  
Minnesota. Field of Concentration: Education.

Stanley C. Knox, Osage, Iowa  
B.S. '52, University of Minnesota. Field of  
Concentration: Educational Psychology.

Marilyn Jean Kocnig, Minneapolis  
B.A. *magna cum laude* '58, University of Min-  
nesota. Major: Anthropology. Minor: Sociol-  
ogy. Thesis: Man as an Animal Symbolic—  
A Symbolic Theory of Contact.

Evald Kruut, Minneapolis  
B.A. '54, Macalester College. Field of Con-  
centration: Library Science.

Neil Russell Kuehn, White Bear Lake  
B.A. *magna cum laude* '52, University of Min-  
nesota. Field of Concentration: Journalism.

Yuh Yeh Kung, Taipei, Taiwan  
B.A. in Law '57, National Taiwan University.  
Field of Concentration: Political Science.

David Martin Kvernes, Howard, S.D.  
B.A. *magna cum laude* '53, Augustana College  
(South Dakota). Field of Concentration: Eng-  
lish.

Lester Gordon Lien, Minneapolis  
B.A. *cum laude* '58, University of Minnesota.  
Field of Concentration: Library Science.

Peter Theodore Lindberg, Minneapolis  
B.A. '56, University of Minnesota. Field of  
Concentration: Journalism.

Stanton Jay Linden, Belgrade  
B.A. '57, St. Olaf College. Field of Concen-  
tration: English.

George Ronald Livingstone, Minne-  
apolis  
B.S. '49, University of Wyoming. Field of  
Concentration: Industrial Relations.

Richard Earl Lowder, St. Paul  
B.A. '59, University of Minnesota. Field of  
Concentration: Psychology.

LeRoy Joseph Machulda, Northfield  
B.A. '54, Mankato State Teachers College.  
Field of Concentration: Curriculum and In-  
struction.

Helen Foley Mattick, Minneapolis  
B.S. with distinction '56, University of Minne-  
sota. Field of Concentration: Curriculum and  
Instruction.

Norma Louise McCoy, Vancouver,  
Wash.  
B.A. '56, Stanford University. Major: Child  
Development and Welfare. Minor: Psychology.  
Thesis: A Descriptive Analysis of the Three  
Wishes of Children by Age, Sex, Intelligence,  
and Socio-Economic Status.

Wallace James McKay, Brainerd  
B.S. '51, University of Minnesota. Field of  
Concentration: Educational Administration.

Terrance William Merritt, Moose  
Lake  
B.S. '59, University of Minnesota. Field of  
Concentration: Educational Psychology.

- Janet Rae Morgan, St. Paul  
B.A. '55, Macalester College. Field of Concentration: Educational Psychology.
- Donald Albert Morgenweck, Mora  
B.S. '53, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction.
- Edgar Leonard Olander, Cologne  
B.S. '50, Mankato State Teachers College. Field of Concentration: Educational Administration.
- Donald Eldor Olson, Duluth  
B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- John Vincent Oyen, Fergus Falls  
B.B.A. '58, University of Minnesota. Field of Concentration: Industrial Relations.
- Burton Oliver Parks, Jr., Minneapolis  
B.S. '50, University of Minnesota. Field of Concentration: Industrial Education.
- Chester Seymour Rank, Minneapolis  
B.A. '40, University of Minnesota. Field of Concentration: Library Science.
- Eugene Allan Reese, Bethesda, Md.  
B.A. '55, University of Minnesota. Major: Anthropology. Minor: Political Science. Thesis: Political Associations in San Francisco's Chinatown.
- Esther Friedman Remington, Duluth  
B.A. '56, University of Minnesota. Field of Concentration: Education.
- Glenn Lawrence Rolle, Eveleth  
B.S. '43, University of Illinois. Field of Concentration: Curriculum and Instruction.
- Frederic John Rosenwald, Cyrus  
B.A. '57, University of Minnesota. Field of Concentration: Industrial Relations.
- Grace Salibian, Beirut, Lebanon  
B.A. with honors '57, Beirut College for Women. Field of Concentration: Library Science.
- Seymour Herbert Sargent, Andover, N.H.  
B.A. '54, University of New Hampshire. Field of Concentration: English.
- Norman Charles Schulz, Castorland, N.Y.  
B.S. '52, Cortland State Teachers College. Field of Concentration: Physical Education.
- Phyllis M. Schutt, Ashton, Iowa  
B.A. '56, Iowa State Teachers College. Field of Concentration: Library Science.
- Clara Julianna Seecamp, Minneapolis  
B.S. '56, Dickinson State Teachers College. Field of Concentration: Music.
- Erna Beth Seecamp, LaCrosse, Wis.  
B.S. '57, Dickinson State Teachers College. Field of Concentration: Mathematics.
- Robert Glenn Sherrill, Austin, Tex.  
B.A. '49, George Pepperdine College; M.A. '56, University of Texas. Field of Concentration: Library Science.
- Sister Helen Gavin, St. Paul  
B.A. '53, College of St. Catherine. Field of Concentration: Psychology.
- Tjitrowinoto Soenarto, Bandung, Indonesia  
B.A. '48, University of Gadjahmada (Indonesia). Field of Concentration: Curriculum and Instruction.
- Dale C. Sorensen, Park Rapids  
B.S. '57, Bemidji State Teachers College. Field of Concentration: Education.
- Norman Dean Stanton, Benton, Wis.  
B.A. '57, Macalester College. Field of Concentration: History.
- Eva Stierna, Minneapolis  
B.S. '54, Macalester College. Field of Concentration: Educational Psychology.
- Edward G. Summers, Prescott, Wis.  
B.S. '58, University of Minnesota. Field of Concentration: Educational Psychology.
- James Andrew Ubel, St. Paul  
B.A. '59, University of Minnesota. Field of Concentration: Library Science.
- Carol Louise Urness, Lambertton  
B.A. *cum laude* '57, University of Minnesota. Major: Library Science. Minor: English. Thesis: A Survey of Book Selection Courses in the Accredited Library Schools in the United States and Canada.

Heinz Vergin, Berlin, Germany  
Graduate '58, Free University of Berlin. Field of Concentration: Economics.

Grace Theodora Waibel, Minneapolis  
B.A. '44, College of St. Catherine; M.A. '59, George Washington University. Field of Concentration: Library Science.

Harold Ronald Wallace, Park City, Utah  
B.S. with distinction '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Sheldon John Watts, Crookston  
B.A. '56, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Anglo-Scottish Border During the Reign of King James VI and I.

Wallace Clarence Westlund, Walworth, Wis.  
B.E. '28, Superior State Teachers College. Field of Concentration: Educational Administration.

Gretchen Gross Wheelwright, Berkeley, Calif.  
B.A. '56, Brown University. Field of Concentration: English.

John Alexander Williamson, St. Paul  
B.A. *magna cum laude* '54, Macalester College. Field of Concentration: Mathematics.

John Edward Wright, Kerkhoven  
B.S. '56, University of Minnesota. Field of Concentration: Education.

James William Yackel, Sanborn  
B.A. *cum laude* '58, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Renewal Theory: Heuristics, Proofs, and a Discussion.

Young Wahn Yoon, Seoul, Korea  
B.A. '58, University of Rhode Island. Field of Concentration: Economics.

## Master of Arts in Public Administration

Suk Choon Cho, Seoul, Korea  
LL.B. '55, Chungang University; LL.M. '57, Seoul National University. Field of Concentration: Public Administration.

Pyung Kun Kang, Seoul, Korea  
LL.B. '50, Seoul National University. Field of Concentration: Public Administration.

## Master of Business Administration

Lloyd Leslie Anderson, Kasson  
B.B.A. '57, University of Minnesota. Field of Concentration: Industrial Relations.

Richard Earl Lundborg, Minneapolis  
B.S. in Law '58, University of Minnesota. Field of Concentration: Business Administration.

Shamsh Kassim, Nairobi, Kenya  
Graduate '58, Polytechnic Day School of Commerce (London). Field of Concentration: Business Administration.

James Bergsland Nilsen, Rothsay  
B.B.A. with high distinction '56, University of Minnesota. Field of Concentration: Business Administration.

## Master of Forestry

Russell Elling Hanson, Minneapolis  
B.S. '53, University of Minnesota. Field of Concentration: Forestry.

## Master of Science

Jan Kristian Aase, Las Vegas, Nev.

B.A. '58, Brigham Young University. Major: Soils. Minor: Agricultural Botany. Thesis: Regeneration of Artificially Packed Soils.

Henry Alexander Anderson, Pelican Rapids

B.A. '30, Concordia College (Moorhead). Field of Concentration: Botany.

George Albert Bean, Westbury, N.Y.

B.S. '58, Cornell University. Major: Plant Pathology. Minor: Botany. Thesis: Effect of Environmental Factors on the Development of *Phoma herbarum* var. *medicaginis* on Alfalfa and Red Clover.

Asenath Anne McKnight Bent, Minneapolis

B.A. '57, Oberlin College. Major: Botany. Minor: Geology. Thesis: Pollen Analysis of Deadman Lake, Chuska Mountains, New Mexico.

Joseph Paul Biniek, Holdingford

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

Lewis Stafford Carey, St. Paul

M.D., C.M. '50, Queen's University. Major: Surgery. Minor: Surgical Pathology. Thesis: Myocardial Revascularization in the Dog: I. Internal Mammary Artery Implantation; II. Effect of Creation of a Temporary Fistula Between an Implanted Artery and the Left Atrium.

Raymond E. Carson, Jr., Duluth

B.S. '56, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: A Morphological Study of the Heads of Certain Megaloptera.

Yick-Kwong Chan, Hong Kong, China

B.S. '55, Taiwan Provincial College of Agriculture. Field of Concentration: Biostatistics.

Tien Ding Chang, China

B.S. '44, National University of Chekiang. Major: Plant Genetics. Minor: Botany. Thesis: Identification of Multiple Translocations Induced by X-Rays in Barley.

Richard Aasen Damerow, Minneapolis

B.S. with high distinction '58, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Atomic Masses of the Stable Isotopes of Xenon.

James Alvin Elberling, Duluth

B.A. '57, University of Minnesota. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Reactions of Indoles with Maleic Acid and Derivatives.

Fred Richard Frank, St. Paul

B.S. '55, University of Minnesota. Major: Poultry Husbandry. Minor: Agricultural Biochemistry. Thesis: Effect of Dietary Energy and Protein Level and Energy Source on White Leghorn Pullets in Cages.

Roger John Gerrits, St. Paul

B.S. '58, Wisconsin State College (River Falls). Field of Concentration: Dairy Husbandry.

Dean Ellis Gilman, Lake Crystal

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

Richard William Hansen, St. Paul

B.B.A. with distinction '58, University of Minnesota. Field of Concentration: Business Administration.

Arthur Frederick Hayes, Columbia Heights

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

Jai Sun Hyun, Seoul, Korea

Graduate '47, Seoul National University. Major: Entomology. Minor: Plant Pathology. Thesis: A Study on the Ecology of the Book Louse, *Liposcelis divinatorius* (Müller) on Grain.

Roy L. Jackson, Pierre, S.D.

B.S.C.E. '59, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Public Health.

Heinrich Alois Klug, Minneapolis

Graduate '55, University of Freiburg. Major: Forestry. Minor: Agricultural Botany. Thesis: Ecological, Growth, and Seasonal Factors in the 2,4-D Treatment of *Corylus* Species.

Robert Henry Kramer, Wilton

B.S. '54, B.A. '54, Bemidji State Teachers College. Major: Entomology. Minor: Biostatistics. Thesis: First-Year Growth of the Large-mouth Bass, *Micropterus salmoides* (Lacépède), and Some Related Ecological Factors.

Carlos Enrique Landau, Boquete-Chiriqui, Republic of Panama

B.S. '56, Technological Institute of Monterrey. Field of Concentration: Horticulture.

Lester Lee Lansky, San Francisco, Calif.

B.A. '54, University of Rochester. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Studies on the Chemical Composition and Structure of Fibrinogen and Fibrinopeptides.

Omer Richard Larson, Pencer

B.A. with honors '54, University of North Dakota. Major: Zoology. Minor: Entomology. Thesis: Larval Trematodes of Fresh-Water Snails of Lake Itasca.

Wm. Eldridge Mitton, St. Paul

B.B.A. '50, University of Minnesota. Major: Agricultural Economics. Minor: Business Administration. Thesis: An Economic Analysis of Sidelines in Country Grain Elevators.

Robert Brownlee Morrow, Eric, N.D.

B.S. '51, North Dakota Agricultural College. Field of Concentration: Agricultural Economics.

Neil Kibbe Muncaster, Winchester, Mass.

B.A. '58, Harvard University. Major: Geology. Minor: Mining Engineering. Thesis: The Paragenesis of Galena and Sphalerite.

Yen Chi Nguyen, Saigon, Vietnam

B.A. '57, College of St. Francis. Field of Concentration: Business Administration.

Patricia Lou Palmer, Minneapolis

B.S. with distinction '58, University of Minnesota. Major: Home Economics. Minor: Education. Thesis: Comparative Studies of the Resistance to Abrasion and Pilling of Blankets Differing in Fiber Content.

Phillip Morris Parsons, Northfield

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

Donald Penner, Mountain Lake

B.S. with distinction '57, University of Minnesota. Major: Agricultural Botany. Minor: Botany. Thesis: Studies on the Absorption and Translocation of Iron and Phosphorus in *Glycine max*.

Akinapally Venketeshwer Rao, Hyderabad, India

B.Sc.(Ag.) '56, Osmania University. Field of Concentration: Horticulture.

Frank Ambrose Rose, Casselton, N.D.

B.S. '54, North Dakota Agricultural College. Field of Concentration: Dairy Husbandry.

Richard Walker Rundell, Livingston, Wis.

B.S. '51, University of Wisconsin. Field of Concentration: Dairy Husbandry.

Bette Theoline Schaffner, Fountain City, Wis.

B.S. '45, Stout Institute. Field of Concentration: Home Economics.

Rexford Douglas Singer, Rapid City, S.D.

B.S.C.E. '59, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Public Health.

Olaf Patrick Stackelberg, St. Paul

B.S. '55, Massachusetts Institute of Technology. Field of Concentration: Mathematics.

John Tauno Typpo, Floodwood

B.S. with distinction '58, University of Minnesota. Field of Concentration: Animal Husbandry.

David Warner Webster, Minneapolis

B.A. with high honors '56, Bethel College (Minnesota); M.A. '59, University of Minnesota. Field of Concentration: Biostatistics.

Delbert Francis Wright, Sanborn, Iowa

B.S. '58, Iowa State College. Field of Concentration: Physics.

## Master of Science in Agricultural Engineering

Kenneth John Albrecht, Glencoe  
B.Mech.E. '58, University of Minnesota.  
Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: The Modification of a Hay Baler to Produce Twelve Inch Cubic Bales.

Donald Howard Petersen, Spencer,  
Wis.

B.Ag.E. with distinction '55, University of Minnesota. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: Movement of Soil Uphill and Downhill by a Moldboard Plow Operating on the Contour on Various Slopes.

## Master of Science in Chemical Engineering

Arlo Ebert Moehlenpah, Ladue, Mo.  
B.S.Ch.E. '57, Washington University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Aspects of Swirling Flow—Centrifugation of Suspended Particles.

Chia-mai Tang, China

B.S. '55, National Taiwan University. Major: Chemical Engineering. Minor: Organic Chemistry. Thesis: Studies in the Chelation of Iron by Peat Humic Acids.

Roger Edward Swanson, North  
Branch

B.S. with high distinction '58, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Simple Adsorption Waves in Fixed Beds.

Gerald Thomas Westbrook, Saskatoon,  
Saskatchewan, Canada

B.Sc. with great distinction '55, University of Saskatchewan. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Simulation, Stabilization, and Optimization of Stirred Tank Reactors on the Digital Computer.

## Master of Science in Civil Engineering

Vithalbhai Trikambhai Bhagat,  
Baroda, India

B.E. (Civil) '58, Maharaja Sayajirao University. Field of Concentration: Civil Engineering.

Michael Lane Larson, Minneapolis

B.S. '58, University of Minnesota. Field of Concentration: Civil Engineering.

Pericles Charilaos Caranicas, Athens,  
Greece

B.S.C.E. '58, University of Minnesota. Field of Concentration: Civil Engineering.

Arvind Shamrao Nadgauda, Poona,  
India

B.E. (Civil) '53, University of Poona. Field of Concentration: Civil Engineering.

William Walter Hakala, Coleraine

B.S. with high distinction '58, University of Minnesota. Field of Concentration: Civil Engineering.

John Frederick Orsborn, St. Paul

B.A. '52, Colorado College; B.S.C.E. '57, University of Colorado. Major: Civil Engineering (Hydromechanics). Minor: Civil Engineering (Sanitary Engineering). Thesis: Characteristics of Turbulent Flow Through a Rectangular-Bar Baffle.

Hafiz Sadique Husain, Pakistan

B.E. (Civil) '56, University of Karachi. Field of Concentration: Civil Engineering.

Purushottambhai Shivabhai Patel,  
Sarsa, Via Anand, Bombay, India

George Chien Kao, Foochow, China

B.S. '58, National Taiwan University. Field of Concentration: Civil Engineering.

B.E. (Civil) '58, Birla Vishvakarma Mahavidyalaya College. Field of Concentration: Civil Engineering.

Midhat Sultan Siddiqui, Karachi,  
Pakistan

B.E. '58, University of Karachi. Field of Concentration: Civil Engineering.

Robert Elmore Wolfe, Deer River

B.S.C.E. '58, University of Minnesota. Major: Civil Engineering (Highway Engineering and Soils Mechanics). Minor: Civil Engineering (Structural Engineering). Thesis: An Evaluation of Minnesota Subgrade Soils as Determined by the Stabilometer Test.

## Master of Science in Dentistry

Paul Almeron Hayes, Aberdeen, S.D.

B.S. '54, D.D.S. '56, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: A Study of the Comparative Effects of Rigid and Semirigid Fixation on the Healing of Fractures.

Jerry Edward Johnson, Minneapolis

B.S. '54, D.D.S. '56, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Assessment of Total Effective Mandibular Ramus Height.

Elmer Ellsworth Kelln, British  
Columbia, Canada

B.Sc. in Dent. '49, D.D.S. '49, University of Nebraska. Major: Dentistry. Minor: Pathology. Thesis: The Effect of Dilantin Sodium Upon the Tensile Strength of a Healing Wound in the White Rat.

Howard Charles Tanner, Jr., Marengo,  
Ill.

D.D.S. '52, Northwestern University. Major: Dentistry. Minor: Pathology. Thesis: The Effect of Desalivation on the Healing of Tongue Wounds in Rats.

Edward George Wilkinson, Cheyenne,  
Wyo.

D.D.S. '55, Creighton University. Major: Dentistry. Minor: Bacteriology. Thesis: A Comparison of the Bacterial Flora of the Deep Periodontal Pocket and the Healthy Interdental Area by Gram Reaction and Morphology.

## Master of Science in Dermatology

Samuel Randolph Schecn, Jr., Louisville, Ky.

B.A. '49, M.D. '53, University of Louisville. Major: Dermatology. Minor: Pathology. Thesis: Capillary Patterns in Normal and Pathologic Skin: Alkaline Phosphatase Studies.

## Master of Science in Electrical Engineering

DeWayne Carl Johnson, Brainerd

B.S. with high distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Some Effects of Electron Bombardment on the Secondary Electron Emission from Magnesium Oxide Crystals.

## Master of Science in Industrial Engineering

Leonard Bernard Stellpflug, Rochester

B.S. with distinction '59, University of Minnesota. Field of Concentration: Industrial Engineering.



## Master of Science in Mechanical Engineering

William Edgar BeVier, Minneapolis  
B.M.E. with distinction '52, B.B.A. '52, University of Minnesota. Field of Concentration: Mechanical Engineering.

Gerald Charles Groff, Minneapolis  
B.S. '55, University of Minnesota. Field of Concentration: Mechanical Engineering.

Bruce Harvey Johnson, Ely  
B.A. cum laude '58, Harvard College. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Discharge Coefficients for Inclined Orifices in Circular Tubes.

## Master of Science in Medicine

William Francis Xavier Coffey,  
Philadelphia, Pa.

B.A. '49, LaSalle College; M.D. '53, Jefferson Medical College. Major: Medicine. Minor: Hematology. Thesis: Evaluation of Reticulo-cyte-Wright Stained Smears in the Diagnosis of Lymphoproliferative Disease.

Gerald John Kavanaugh, Fargo, N.D.  
B.S. '52, University of North Dakota; M.D. '54, Northwestern University. Major: Medicine. Minor: Pathology. Thesis: Coronary Embolism: A Clinical Pathologic Study.

Roland Wallace Moskowitz,  
Shamokin, Pa.

M.D. '53, Temple University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: The Histopathologic Classification of Periarthritis Nodosa: A Study of Fifty-Six Cases.

Dwight Locke Wilbur III, Rochester  
B.A. '51, M.D. '55, Stanford University. Major: Medicine. Minor: Physiology. Thesis: A Study of Pressures at the Pyloric Region of Human Beings.

## Master of Science in Obstetrics and Gynecology

Dolphin Henry Overton, Jr., Shelby,  
N.C.

B.S. '49, Virginia Military Institute; M.D. '52, Duke University. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Primary Endometriosis of the Cervix.

## Master of Science in Orthopedic Surgery

Robert LeRoy Larson, Eugene, Ore.  
B.A. '49, Montana State University; M.D. '53, George Washington University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Effect of Suppression of the Periosteal and Nutrient Arterial Blood Supply of the Femora of Immature and Mature Dogs: A Roentgenographic, Histologic, and Microangiographic Study.

William Charles Mitchell, Rochester  
B.A. '48, M.D. '52, University of Louisville. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Osseous Lesions of the Hands and Feet—A Clinical and Pathologic Study with Review of 295 Cases.

George Ernst Nelson, Jr., Minneapolis

B.S. '46, M.D. '49, University of Minnesota. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Extraosseous and Intraosseous Blood Supply of the Tibia.

## Master of Science in Surgery

Herman Duane Bentz, Anoka

B.A. *magna cum laude* '49, B.S. '50, M.D. '53, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: The Relative Carcinogenicity of N-2-Fluorenylacetylamide and Related Compounds in Rats by Oral Feeding and Skin Painting.

John Brimhall Brainard, St. Paul

B.C.E. '46, B.A. *cum laude* '52, M.D. '55, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Evaluation of Cardiac Revascularization Procedures Using Myocardial Temperature Change During Temporary Coronary Artery Occlusion.

Anthony Patrick Tully Clery, Dublin, Ireland

M.B.,B.Ch.,B.A.O. '53, Dublin University College. Major: Surgery. Minor: Pathology. Thesis: Small Cell Carcinoma of the Colon and Rectum: A Clinicopathologic Study.

Richard Ang Lim, St. Boniface, Manitoba, Canada

M.D. '52, University of Santo Tomas. Major: Surgery. Minor: Pathology. Thesis: Gastrointestinal Ulcers (So-Called Pyloric Channel Ulcers): A Clinicopathological Study of 84 Cases.

William Spencer Payne, St. Louis, Mo.

M.D. '50, Washington University. Major: Surgery. Minor: Pathology. Thesis: An Experimental Study of Acid Buffered Formalinized Aortic Homographs.

## Master of Social Work

Willard John Botko, Minneapolis

B.A. '54, Augsburg College. Field of Concentration: Social Work.

Mary Lee Coe, St. Paul

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

Willard Keith Dodge, St. Paul

B.A. '55, Maryknoll Seminary. Field of Concentration: Social Work.

Elizabeth Ann Elkins, Rochester

B.A. '58, Carleton College. Field of Concentration: Social Work.

John Reed Fulton, Minneapolis

B.A. '58, University of Minnesota. Field of Concentration: Social Work.

Sidney Joseph Goldberg, St. Paul

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

Karl Jerome Grahek, Ely

B.A. *cum laude* '57, University of Minnesota. Field of Concentration: Social Work.

Merlin Arthur Hebeisen, Swanville

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

Elroy William Johnson, Minneapolis

B.A. '58, University of Minnesota. Field of Concentration: Social Work.

Mary Foss Krohn, Moorhead

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

Rosemarie Faith Larson, Moorhead

B.A. *summa cum laude* '57, Concordia College (Moorhead). Field of Concentration: Social Work.

Jerome Richard Miller, St. Paul

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

Bruce Dudley Mobberley, St. Paul

B.A. '58, Macalester College. Field of Concentration: Social Work.

Robert Frederick Pfothenauer, Sheboygan, Wis.

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

Helen Rosand Sawyer, Edina

B.A. with honors '53, University of Pennsylvania. Field of Concentration: Social Work.

Allan Gust Schwartz, St. Paul

B.A. '58, University of Minnesota. Field of Concentration: Social Work.

Joann Gina Spanjers, Minneapolis

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

William Douglas Sudduth, Montgomery, Ala.

B.A. '58, Duke University. Field of Concentration: Social Work.

Ella May Van Laningham, Minneapolis

B.A. '56, Bishop's University (Quebec). Field of Concentration: Social Work.

Glenn Marvin Van Laningham, Minneapolis

B.A. '54, Drake University. Field of Concentration: Social Work.

Harold Bennett Williamson, St. Paul

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

Anne Wiegman Wosmek, Minneapolis

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

Jack Gordon Young, Duluth

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

## Certificate of Specialist in Education

Charlotte Wilhelmina Mueller,  
St. Paul

B.S. with distinction '36, M.A. '37, University of Minnesota. Field: School Psychological Services.

## Doctor of Philosophy

Robert Duke Adams, Oak Forest, Ill.

B.S.E.E. '46, Northwestern University. Major: Mathematics. Minor: Physics. Thesis:  $L_p$  Density of Solutions to Parabolic and Related Equations on Space Time Surfaces. Major Adviser: Prof. A. N. Milgram.

Stanley Peter Andersen, San Francisco, Calif.

B.S. '43, Utah State Agricultural College; M.S. '48, Northwestern University. Major: American Studies. Thesis: American Icon—Response to the Skyscraper: 1875-1934. Major Advisers: Profs. Bernard Bowron and Donald Torbert.

Neil Albert Anderson, Minneapolis

B.S. '51, M.S. '57, University of Minnesota. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Studies on the Effects of the Cronartium Rusts on Jack Pine and the Epidemiology of These Fungi. Major Adviser: Prof. D. W. French.

Kenneth Clinton Bailey, Moorhead

B.A. *magna cum laude* '50, St. Olaf College; M.A. '52, University of Minnesota. Major: Philosophy. Minor: Psychology. Thesis: The Use of Scientific Language in the Validation of Religious Discourse. Major Adviser: Prof. P. L. Holmer.

Donald Allen Bolon, Minneapolis

B.S. '56, Allegheny College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Addition of Dichlorocarbene to Naphthalene-1-Methyl Ether and Naphthalene-2-Ether and Synthesis and Reactions of 0-(1-Cycloheptenyl)Benzylamine Hydrochloride and 0-(1-Cyclopentenyl)Benzylamine Hydrochloride. Major Adviser: Prof. W. E. Parham.

William Harry Capitan, Owosso, Mich.

B.A. '54, University of Michigan; M.A. '58, University of Minnesota. Major: Philosophy. Minor: English. Thesis: Doctrine and Belief in Poetry. Major Adviser: Prof. Alan Donagan.

Lelon Roger Capps, Alma, Wis.

B.S. '54, Wisconsin State College (LaCrosse); M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of the Common Denominator and Inversion Method in Teaching Division of Fractions. Major Adviser: Prof. James Curtin.

Patricia Simonet Charlier, St. Louis Park

B.S. '44, M.A. '58, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Contemporary Teacher Education in France and Belgium. Major Advisers: Profs. R. J. Keller and R. H. Beck.

Geoffrey Yates Cornog, Media, Pa.

B.A. '52, Antioch College; M.A. in P.A. '54, University of Minnesota. Major: Political Science. Minor: Business Administration. Thesis: Relations Between Biographical Characteristics and Personnel Resignation Among Employees of the State of Minnesota. Major Adviser: Prof. L. M. Short.

Ronald Gary Corwin, Waterloo, Iowa

B.A. '54, Iowa State Teachers College; M.A. '58, University of Minnesota. Major: Sociology. Minors: Anthropology and History and Philosophy of Education. Thesis: Role Conception and Mobility Aspiration: A Study in the Formation and Transformation of Bureaucratic, Professional and Humanitarian Nursing Identities. Major Adviser: Prof. R. G. Francis.

Cletus Joseph Cummiskey, Mankato

B.S. '47, Mankato State Teachers College; M.A. '50, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Use of Tape Recordings as a Supplementary Study Aid in General Psychology. Major Adviser: Prof. R. O. Collier, Jr.

Louis Joseph Demer, Tucson, Ariz.

B.S. in M.E. *magna cum laude* '39, M.S. '49, University of Notre Dame. Major: Mechanics and Materials. Minor: Metallography. Thesis: On the Relation Between the Micro-Mechanism of Fatigue and the Macro-Rheology, with Special Reference to Damping, of High Purity Aluminum. Major Adviser: Prof. B. J. Lazan.

John Arden Duerre, Butler, S.D.

B.S. '52, M.S. '56, South Dakota State College of Agriculture and Mechanic Arts. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Studies on Malic Enzyme Induction by Lactic Acid Bacteria. Major Adviser: Prof. H. C. Lichstein.

Franklin D. Enfield, St. Paul

B.S. '55, Iowa State College; M.S. '57, Oklahoma State University of Agriculture and Applied Science. Major: Animal Husbandry. Minor: Zoology. Thesis: Quantitative Inheritance in Poultry with Special Reference to Genetic Correlations Between Purebred and Crossbred Half-Sib Families. Major Adviser: Prof. R. E. Comstock.

Glenn William Erickson, Minneapolis

B.S. '45, Bemidji State Teachers College; M.A. '56, Certificate of Specialist in Education '57, University of Minnesota. Major: Educational Administration. Minor: Education. Thesis: Grade Placement of the Non-Vernacular Language and Readiness for Advanced Study in Schools of Central Africa. Major Advisers: Profs. C. P. Archer and W. R. Lane.

Herbert Ray Eschlinan, Sioux Falls, S.D.

B.A. *cum laude* '51, Dakota Wesleyan University; M.A. '55, University of South Dakota. Major: English. Minor: History. Thesis: Chekhov in the English Short Story. Major Adviser: Prof. W. V. O'Connor.

Arthur Robert Evans, Jr., Minneapolis

B.A. '49, College of St. Thomas; M.A. '52, University of Chicago. Major: French. Minor: Italian. Thesis: The Literary Art of Eugène Fromentin: A Study in Style and Motif. Major Adviser: Prof. Marthe Blinoff.

Edward William Francel, Minneapolis

B.S. '37, M.A. '38, University of Minnesota. Major: Social Work. Minor: Sociology. Thesis: Factors Associated with the Successful Outcome of Professional Training for Social Work. Major Adviser: Prof. J. C. Kidneigh.

Gregorio Adriano Francisco, Jr., Manila, Philippines

B.A. *magna cum laude* '53, University of the Philippines; M.A. in P.A. '55, University of Minnesota. Major: Political Science. Minor: Psychology. Thesis: Higher Civil Servants in the Philippines (A Study of the Backgrounds, Career Patterns, and Attitudes of Filipino Higher Officials). Major Adviser: Prof. L. M. Short.

Mary Adclaide Gardner, Kingston, Ohio

B.A. '42, M.A. '53, Ohio State University. Major: Journalism. Minor: Political Science. Thesis: The Inter-American Press Association and Its Fight for Freedom of the Press. Major Adviser: Prof. R. B. Nixon.

John L. Gergen, Minneapolis

B.S. with high distinction '53, M.S. '56, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Atmospheric Infrared Radiation. Major Adviser: Prof. E. P. Ney.

John Robert Gilbertson, Minneapolis

B.A. '51, M.S. '56, University of Minnesota. Major: Physiological Hygiene. Minor: Physiology. Thesis: The Effect of Dietary Fat Upon the Serum Lipid Fractions. Major Adviser: Prof. Francisco Grande.

Irving I. Gottesman, Shaker Heights, Ohio

B.S. '53, Illinois Institute of Technology. Major: Psychology. Minor: Child Development and Welfare. Thesis: The Psychogenetics of Personality. Major Adviser: Prof. R. D. Wirt.

William R. Hicks, Port Arthur, Tex.

B.S. '42, Wiley College; M.A. '54, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparative Study of Native and Transfer Students in Liberal Arts and Education at the University of Minnesota. Major Adviser: Prof. R. J. Keller.

Paul Helmuth Hoepner, Worcester, N.Y.

B.S. '55, M.S. '56, Cornell University. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Risk and Uncertainty in Dairy and Hog Production. Major Adviser: Prof. S. A. Engene.

Peter Hrycak, Przemysl, Ukraine

B.S. with high distinction '54, M.S. in M.E. '55, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Frost Action under Refrigerated Areas. Major Adviser: Prof. R. C. Jordan.

James Edward Inskeep, Jr., Lamesa, Calif.

B.S. '49, U.S. Naval Academy; M.A. '54, San Diego State College. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of Several Methods of Estimating Readability of Elementary School Reading Material. Major Adviser: Prof. G. L. Bond.

Frank Dunham Irving, St. Paul

B.S. '48, Rutgers University; B.S. '49, M.F. '50, University of Minnesota. Major: Forestry. Minors: Fishery and Wildlife Management and Political Science. Thesis: A Study of the Relationship between Program and Organization in the Administration of Forest and Wildlife Resources by the State of Minnesota. Major Adviser: Prof. D. P. Duncan.

Patricia Joanne Jaeger, Amherst, Mass.

B.A. *magna cum laude* '53, M.A. '56, University of Minnesota. Major: French. Minor: Spanish. Thesis: The Uneasy Mask in Contemporary French Theater. Major Adviser: Prof. Marthe Blinoff.

Harry Lee Johnson, Los Angeles, Calif.

B.S. *magna cum laude* '52, West Coast University; M.S. '57, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Quadratic Versus Linear Dependence of Solutions of Certain Linear Partial Differential Equations. Major Adviser: Prof. J. P. Nitsche.

Woong Ki Kang, Kangoo, Korea

B.S. '55, Seoul National University; M.S. '57, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Study on Mixing in a Continuous Flow Stirred Vessel. Major Adviser: Prof. W. E. Ranz.

Thomas Kavanagh, Dublin, Ireland

B.Agr.Sc. '49, M.Agr.Sc. '55, B.Soc.Sci. '56, National University of Ireland. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Infection and Developmental Studies on *Ustilago nuda* and *Ustilago tritici*. Major Adviser: Prof. J. J. Christensen.

Paul Myron Kjeldergaard, St. Paul

B.A. *cum laude* '54, M.A. '57, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: Verbal Transfer Processes in Acquired Stimulus Equivalence and Acquired Response Equivalence Paradigms. Major Adviser: Prof. J. J. Jenkins.

Benjamin Young-hwai Liu, Taipei, Taiwan, China

B.S.M.E. '56, University of Nebraska. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Characteristics of Solar Radiation and the Performance of Flat-Plate Solar Energy Collectors. Major Adviser: Prof. R. C. Jordan.

Shean-lin Liu, Taipei, Formosa

B.S. '55, National Taiwan University; M.S. '57, West Virginia University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Analytical Studies of Polymerization Kinetics. Major Adviser: Prof. N. R. Amundson.

Charles Conrad Loan, Ivanhoe,  
Ontario, Canada

B.A. '50, McMaster University; M.S. '53, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: The Biology of Insect Parasites of the Genus *Sitona* Germar (Coleoptera: Curculionidae). Major Adviser: Prof. F. G. Holdaway.

Leslie Allan Lyons, Sault Ste. Marie,  
Ontario, Canada

B.Sc.(Agr.) '50, McGill University; M.A. '53, University of Toronto. Major: Entomology. Minors: Biostatistics and Botany. Thesis: Population Studies on *Necodiprion swainei* Middleton (Hymenoptera: Diprionidae) in Quebec. Major Adviser: Prof. A. C. Hodson.

Hugh Gordon MacNiven, Pittsburgh,  
Pa.

B.A. '44, University of Western Ontario; M.A. '48, Stanford University. Major: Political Science. Minor: Journalism. Thesis: The Legislative Assemblies of the Canadian Provinces. Major Adviser: Prof. L. M. Short.

Nathan Gary Mandel, St. Paul

B.S. '34, M.A. '38, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: An Evaluation of the Sociological, Psychological, and Physiological Post-Treatment Adjustment of Mental Patients Treated with Regressive Electric Shock Therapy. Major Adviser: Prof. E. D. Monachesi.

Bernard Jay Marks, Los Angeles, Calif.

B.C.S. '41, Drake University; M.S. '49, Iowa State College. Major: Economics. Minor: Statistics. Thesis: The Prediction and Analysis of Demand for Replacement Parts. Major Adviser: Prof. Leonid Hurwicz.

Oscar Lee Miller, Jr., Charlotte, N.C.

B.S. with honors '48, M.S. '50, North Carolina State College of Agriculture and Engineering. Major: Plant Genetics. Minor: Botany. Thesis: Cytological Studies in Asynaptic Maize. Major Adviser: Prof. C. R. Burnham.

Ovidio John Mira, Nanuet, N.Y.

B.Sc. '50, Guilford College; M.S. '54, University of Minnesota. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: The Immunologic Response to Newcastle Disease Virus in Acquired Tolerance Studies. Major Adviser: Prof. D. W. Watson.

Hari Raj Mishra, Patna, India

G.B.V.C. '51, Bihar Veterinary College; M.S. '58, University of Minnesota. Major: Animal Husbandry. Minor: Dairy Husbandry. Thesis: The Development of a Selection Index for Use in Improvement of Dual Purpose Cattle. Major Adviser: Prof. R. E. Comstock.

Clarence Cowan Mondale, Minne-  
apolis

B.A. '47, Macalester College; M.A. '54, University of Minnesota. Major: American Studies. Thesis: Gentlemen of Letters in a Democracy: Phi Beta Kappa Orations, 1788-1865. Major Adviser: Prof. C. H. Foster.

Travis Olson, Minneapolis

B.S. in Pharmacy '55, University of Minnesota. Major: Pharmaceutical Technology. Minor: Industrial Engineering. Thesis: Radio Frequency Conductometric Analysis as a Method of Measuring the Release Rate of Delayed Release Dosage Forms. Major Advisers: Profs. G. P. Hager and R. H. Miller.

Vernal Sidney Packard, Jr., Lewiston,  
Me.

B.S. '54, University of Maine. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: A Study of Some Factors Involved in Milk Lipase Action. Major Adviser: Prof. J. J. Jezeski.

Roddy Earle Packer, St. Paul

B.A. '53, Yale University; M.A. '56, Southern Methodist University. Major: Speech. Minors: Journalism and Education. Thesis: An Analysis of the Degree of Integration of Existing Educational Television Stations with Their Particular Communities. Major Adviser: Prof. A. H. Ballet.

Won Hce Park, Seoul, Korea

B.S. in Eng. '55, Seoul National University; M.S. in Ch.E. '57, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Study on Packed Bed—Its Analytical Description and Solution. Major Adviser: Prof. N. R. Amundson.

Laurence Elmer Peterson, New Richmond, Wis.

B.S. with distinction '54, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: Primary and Secondary Cosmic Radiation Near the Geomagnetic Equator. Major Adviser: Prof. J. R. Winckler.

Wayne Turner Peterson, Albert Lea

B.A. '51, M.A. '53, University of Minnesota. Major: Music. Minor: Philosophy. Thesis: Free Variations for Orchestra (Lively, Moderato Affetuoso, Adagio, Allegro). Major Adviser: Prof. Paul Fetler.

Bohuslav J. Rozehnal, River Falls, Wis.

B.Mus. '31, M.Mus. '36, Northwestern University. Major: Educational Psychology. Minor: Education. Thesis: A Study of the Relationship of Certain Temperament Scale Scores to Persistence in College. Major Adviser: Prof. W. H. Edson.

Frank Shalvey Santamour, Jr., Lowell, Mass.

B.S. *cum laude* '53, University of Massachusetts; M.F. '54, Yale University; M.A. '57, Harvard University. Major: Forestry. Minor: Plant Genetics. Thesis: The Relation Between Anatomy and Inherent Growth Potential of Hybrid Poplars. Major Adviser: Prof. S. S. Pauley.

Roy Frank Shepherd, Calgary, Alberta, Canada

B.S.F. '52, University of British Columbia; M.S. '55, University of Minnesota. Major: Entomology. Minors: Botany and Biostatistics. Thesis: Distribution of the Black Hills Beetle over the Host Tree and Factors Controlling the Attraction and Behavior of the Adult. Major Adviser: Prof. A. C. Hodson.

Richard Arnold Skok, St. Paul

B.S. with distinction '50, M.F. '54, University of Minnesota. Major: Forestry. Minor: Economics. Thesis: Market Practices and Price Formation for Farm Woodland Products Sales in Northern and Southeastern Minnesota. Major Adviser: Prof. F. H. Kaufert.

Carol Joyce Spencer, Dubuque, Iowa

B.S. '55, Carnegie Institute of Technology. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Crystal and Molecular Structure of  $(PCF_3)_8$ . Major Adviser: Prof. W. N. Lipscomb.

Donald Pierce Taylor, Niagara Falls, N.Y.

B.A. '54, Dartmouth College; M.S. '56, University of Maryland. Major: Plant Pathology. Minor: Zoology. Thesis: Biology and Host-Parasite Relationships of the Spiral Nematode, *Helicotylenchus microlobus*. Major Adviser: Prof. J. J. Christensen.

Franklin James Thompson, Edina

B.A. '48, M.A. '49, Whitman College. Major: Education. Minor: Educational Psychology. Thesis: Use of Closed Circuit Television in Teacher Education: Relationship to Professional Attitudes and Interests. Major Adviser: Prof. R. J. Keller.

Roman Francis Warmke, Greeley, Colo.

B.S. '51, M.A. '52, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Distributive Education Issues. Major Advisers: Profs. W. G. Meyer and R. G. Price.

Carl Weber Werntz, Washington, D.C.

B.S. with distinction '53, George Washington University; M.S. '55, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Nuclear Three Body Problem with Hard Core Forces. Major Adviser: Prof. W. B. Cheston.

Richard William Zuehlke, Appleton, Wis.

B.S. '55, Lawrence College. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Sorption and Magnetic Susceptibility Studies on Palladium-Nitric Oxide Systems. Major Adviser: Prof. L. H. Reyerson.

## Doctor of Philosophy in Surgery

John Upton Bascom, Eugene, Ore.

B.S. '48, M.S. '49, Kansas State College of Agriculture and Applied Science; M.D. '53, Northwestern University. Major: Surgery. Minor: Pathology. Thesis: Gelatin Sealing of Fabric Arterial Grafts. Major Adviser: Dr. C. R. Hitchcock.

Richard Carlton Lillehei, Minneapolis

B.A. *magna cum laude* '48, B.S. '49, M.D. '52, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: An Experimental Inquiry into the Nature of Irreversible Shock. Major Adviser: Dr. O. H. Wangensteen.

Earl Grant Yonehiro, Denver, Colo.

M.D. '52, University of Rochester. Major: Surgery. Minor: Pathology. Thesis: Experimental and Clinical Studies on the Use of Radioactive Ferrous Citrate, Fe<sup>59</sup>, with Particular Reference to the Detection of Minute Gastrointestinal Bleeding and the Selective Uptake of This Isotope in Malignant and Benign Tissue. Major Adviser: Dr. O. H. Wangensteen.

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### Summary of Degrees Conferred by the University During the Academic Year 1959-60

Conferred July, August, and December 1959; March 1960.....	2759*
Conferred June 1960 (subject to completion of requirements).....	<u>3060</u>
Total degrees conferred 1959-60 .....	5819

\* Includes 131 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 .....	orange and drab
General College .....	crimson and white
College of Science, Literature, and the Arts .....	white
University College .....	old gold and white
Institute of Technology .....	orange
College of Agriculture, Forestry, and Home Economics .....	maize

College of Education .....	light blue
School of Business Administration .....	drab
College of Pharmacy .....	olive
Law School .....	purple
College of Veterinary Medicine .....	gray
School of Dentistry .....	lilac
College of Medical Sciences .....	green
Graduate School .....	black

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

THE  
UNIVERSITY OF MINNESOTA

Announces Its

*July Commencement*

*1960*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, JULY 14

AT EIGHT O'CLOCK



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Sterling B. Garrison, Assistant Secretary

Mr. Clinton T. Johnson, Treasurer

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First Vice President and Chairman

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The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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As a courtesy to those attending functions, and out of respect for the character of the building, be it resolved by the Board of Regents that there be printed in the programs of all functions held in 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 ninth 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 physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—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 151,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 26,000 students on its Minneapolis, St. Paul, and Duluth Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, 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, 4-H Club agents, and recreation and health consultants give effective 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 the diverse research laboratories on its three campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists at any one moment are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with such matters as cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, nuclear energy, school surveys, and new varieties of grains, fruits, and flowers, 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, Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. 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 disease. Further contributions have made it possible for the University to build the Masonic Memorial Hospital and the Veterans of Foreign Wars Cancer Research Center and are making it possible to construct Diehl Hall (which will house the biological-medical library and additional medical research facilities).

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 number 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 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1959-61 biennium. In addition, the University will receive \$8,879,748 for University Hospitals; \$4,141,355.69 for special appropriations, including special extension and research activities; and \$14,457,150 for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is 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 1958-59 showed that the University received \$88,524,771.68 and spent \$88,520,513.75. This includes a total of \$14,333,868.14 received from student tuition and fees, hospital and other department receipts; \$1,205,359.98 from intercollegiate athletics; \$13,941,035.89 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from the revolving funds; and \$1,205,359.98 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. Also, \$3,176,924.03 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$88,524,771.68 which the University received for 1958-59, \$38,410,936.10, or 43.4 per cent, came from the state.

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

# Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium. 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., Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play:

*Prelude and Fugue in B Minor* - - - - - Bach  
*Chorale in A Minor* - - - - - Franck

**PROCESSIONAL:**

*Overture in D Major* - - - - - Lully

**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: Professor Philip W. Manson, M.S., Institute of Agriculture, Marshal; Associate Professor Frederick E. Berger, B.A., General Extension Division, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Commander Fred Laing, USN, Associate Professor of Naval Science; Dean Walter W. Cook, Ph.D., College of Education; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Athelstan F. Spilhaus, D.Sc., Institute of Technology; The Reverend Harry Huxhold, Adviser to Lutheran (Synodical Conference) students and staff members on the Minneapolis and St. Paul Campuses of the University; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Vice President Malcolm M. Willey, Ph.D., Academic Administration; His Excellency Mr. Aziz Ahmed, B.Sc., Ambassador of Pakistan, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; Dean E. W. Ziebarth, Ph.D., Summer Session; Vice President and Administrative Assistant Stanley J. Wenberg, M.A.; Dean Bryce L. Crawford, Ph.D., Graduate School; Dr. Virgil J. P. Lundquist, M.D., First Vice President of the University of Minnesota Alumni Association; Associate Dean Alfred L. Vaughan, Ph.D., General College; Colonel Roy K. Kauffman, USA, Professor of Military Science; Associate Dean J. William Buchta, Ph.D., University College; Professor Frank H. Kaufert, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Assistant Dean Reuel I. Lund, Ph.D., School of Business Administration; Professor Roy A. Schuessler, M.M., Music; Professor Edward B. Stanford, Ph.D., Library, Marshal.

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

## *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 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 Harry Huxhold.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson.

COMMENCEMENT ADDRESS: His Excellency Mr. Aziz Ahmed, Ambassador of Pakistan, *The Crucial Challenge in a New Age*.

CONFERRING OF ROTC CERTIFICATES: Vice President Willey will introduce Colonel Kauffman and Commander Laing, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC completion will be presented by President Wilson.

PRESENTATION OF CANDIDATES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction: Associate Dean Vaughan for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts; Associate Dean Buchta for University College; Dean Spilhaus for the Institute of Technology; Professor Kaufert for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Assistant Dean Lund for the School of Business Administration; Dean Howard for the College of Medical Sciences; Dean Crawford for the Graduate School.

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

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Dr. Virgil J. P. Lundquist, First Vice President of the Minnesota Alumni Association.

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



## *Order of Events*

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

*HAIL! MINNESOTA:* The University's Alma Mater song, sung by the audience and Professor 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: Associate Professor Fleischer, organist.

*Toccata in G Major* - - - - - Frescobaldi

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

## *Candidates for Commissions*

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

### DEPARTMENT OF MILITARY SCIENCE AND TACTICS

#### **Second Lieutenant, Armor**

Lloyd D. Christianson, Minneapolis      Kenneth C. Grosser, Minneapolis

#### **Second Lieutenant, Infantry**

Robert R. Wolff, Minneapolis

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

John A. Holmen, White Bear Lake

### DEPARTMENT OF NAVAL SCIENCE

#### **Ensign, USN**

Louis A. Shumway, Pine City

#### **Ensign, SC, USN**

Alan J. Nissalke, Winona

# *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

Edward Applebaum, St. Paul  
Steven Michael Applebaum, St. Paul  
Donna Lou Bell, Mound  
James Stanton Braun, Minneapolis  
Julia Chatak, Minneapolis  
George Henderson DeClouet, Minneapolis  
Gardner Sturdivant Fagan, White Bear Lake

Ronald Carl Hanson, St. Paul  
Allan Clarence Johnson, Duluth  
Mary Theresa Leuer, Wayzata  
Thomas Richard Moran, Minneapolis  
Ellis Olkon, Minneapolis  
William Anthony Rifley, Minneapolis  
Thomas Burr Skinner, Aberdeen, S.D.  
Richard Fred Swendiman, St. Paul

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### Associate in Liberal Arts

Lois Castree McDonnell Dern, Minneapolis  
Karen Joanne Hakanson, St. Paul Park  
John Wolf Mark, St. Paul

Denise Mary Perrizo, Minneapolis  
Catherine Bridget Woods, Minneapolis

### Bachelor of Arts

Lorraine Claire Aalbue, St. Paul  
Thomas Lloyd Anding, Wabasha  
Mary Jean Behr, Paynesville,  
CUM LAUDE  
Mary Lou Bender, St. Louis Park  
Bernard Martin Berke, St. Paul  
Peter Anthony Bloom, St. Paul  
Deborah Susan Botko, Minneapolis  
Douglas James Carney, Minneapolis  
Lloyd Duane Christianson, Minneapolis  
Florence Christopher, Minneapolis  
John Sidney Cohen, Billings, Mont.  
Maija L. Cukurs, Minneapolis  
Gerald Dennis Duffee, Minneapolis  
Emerald Roger Ebeling, Minneapolis

Morris Ellsworth Erickson, Minneapolis  
William Paul Erickson, Sioux Falls, S.D.  
Roger Adrian Fischer, St. Paul  
Janet Rae Fridley, St. Louis, Mo.  
Darlene Carol Goodwin, Elgin  
George William Greene, Jr., Minneapolis  
Kenneth Charles Grosser, Minneapolis  
Gweneth Elaine Hagen, Spring Valley  
Dean Alton Hammer, Faribault  
Richard Thomas Hemming, St. Paul,  
CUM LAUDE  
Edward Jay Hillman, Minneapolis

John Albert Holmen, White Bear  
Lake  
Donald Ray Hotchkiss, Mankato  
Earl L. Johnson, Minneapolis  
Louis Taylor Johnson, St. Paul  
June Carole Kepple, Luverne  
Edward Roger Kieren, Chisholm  
Dennis Allan Kirkcby, A.A., Minne-  
apolis  
Lloyd Erwin Krob, Superior, Wis.  
Robert Terence Lamb, Michigan,  
N.D.  
Phillip Allen Larson, Jackson  
Sonia Carol Laube, St. Paul  
John Wayne Lewin, Minneapolis  
Daniel Lynn Lieberman, Minneapolis  
John Bolten Maunsell, Minneapolis  
Carol Jean Meyer, Grand Rapids,  
CUM LAUDE  
Mical Eitsert Middaugh, Minneapolis  
David John Modcne, A.L.A., Min-  
neapolis  
Judith Virginia Nelson, Minneapolis

Roger Elof Olson, Minneapolis  
Myrna Elizabeth Raihill, Duluth,  
MAGNA CUM LAUDE  
John Richard Reagan, St. Paul  
Kenneth James Rohleder, St. Paul  
David Lee Rolland, St. Paul  
Gerald Lamb Rose, Minneapolis,  
CUM LAUDE  
Carole Evelyn Stolpestad, St. Paul  
Stanley Alan Thompson, Minneapolis  
Janet Elizabeth Thomson, Wheaton,  
Ill.  
Sue Margaret Van Valkenburg,  
Newburgh, N.Y.  
Norman Charles Voldness, Thief  
River Falls  
Michael Brendan Webb, St. Paul  
Joan Barbara Wheeler, Wayzata  
Robert Raymond Wolff, St. Louis  
Park  
John Nelson Youngs, Grand Forks,  
N.D.  
John Peter Ziegler, St. Paul

## UNIVERSITY COLLEGE

### Bachelor of Arts

Hirsh Judan Davis, St. Paul

Nancy Jo Wessel, Minneapolis

## INSTITUTE OF TECHNOLOGY

### Bachelor of Aeronautical Engineering

Gordon Glenn Miller, Minneapolis  
Kingston Spurbeck, Duluth  
John Herman Stroebel, Rochester

John Frederick Wayne, Jr., Lind-  
strom

### Bachelor of Civil Engineering

Richard Carl Rudberg, Minneapolis

### Bachelor of Electrical Engineering

Gary Steven Crow, Minneapolis  
John Michael Hancock, Scotia, N.Y.  
Sidney Norman Jerson, St. Paul

Gerry Rand Krueger, St. Louis Park  
Ronald Errol Newby, Minneapolis  
William Byron Walton, St. Paul

## **Bachelor of Geophysics**

Peter Graebner, Minneapolis

## **Bachelor of Mechanical Engineering**

Walter Lee Backstrom, Grand Marais  
Elwin Forest Crandall, Minneapolis  
Roger Joel Dale, Minneapolis  
Leon Francis Hiltner, Minneapolis

Clayton Myles Jensen, New Brighton  
Robert Wesley Manthey, Minneapolis  
Donald Edward Sable, Minneapolis

## **Bachelor of Metallurgical Engineering**

Allan Duane Taylor, Albany, Ore.

## **Bachelor of Metallurgy**

Donald Ray Ireland, West St. Paul

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

### **Bachelor of Science**

Audrey Marie Ford, Hopkins, Home  
Economics

John Dale Gorman, Minneapolis,  
Forestry

Warren Lee Iversen, Benson, *Agriculture, WITH DISTINCTION*

Earl Donald Kopischke, Vernon  
Center, Agriculture

Carol Yvonne Poole Kvittem,  
Winnebago, Home Economics

Tim David Lang, Glenville, Forestry  
Nels Robert Lee, Hudson, Wis.,  
Forestry

Michael Peter Perry, Appleton,  
Agriculture

Cleon Dale Puetz, Fairfax, Forestry

## **COLLEGE OF EDUCATION**

### **Bachelor of Science**

Gail Helen Anderson, Hopkins  
Geneva E. Anderson, Minneapolis  
Mavis Evonne Anderson, Hoffman  
Phyllis Bock Barton, B.A., Wayzata

Robert William Beery, Long Prairie,  
*WITH HIGH DISTINCTION*

Roger Wayne Benson, Winona  
Marlys Louise Blomquist, St. Louis  
Park

Norman Earl Bollinger, Minneapolis  
 Sally June Brunzell, St. Louis Park  
 Margaret Ann Carey, Churdan, Iowa,  
 WITH DISTINCTION  
 Shirley Valrae Connelly, Milan\*  
 Gloria Ann Curran, St. Paul  
 Richard W. K. Dawson, Lower Hutt,  
 New Zealand, WITH HIGH  
 DISTINCTION  
 Julaine Irene Domke, Weyauwega,  
 Wis., WITH HIGH DISTINCTION\*  
 Lorraine Boelter Dorff, Minneapolis,  
 WITH DISTINCTION  
 June M. Smith Ekdahl, Minneapolis  
 Mary Janice Fariday, Minneapolis  
 Marjorie Joyce Fillmore, Excelsior  
 Dale Norman Frandsen, Minneapolis  
 Gerald Eugene Fritz, Clara City  
 Ann Evelyn Grazin, International  
 Falls, WITH HIGH DISTINCTION\*  
 Lyle Grimmer, Minneapolis  
 Dorothy Lee Hall, Minneapolis  
 Henry Halvorson, B.A., M.A., Park  
 Rapids  
 Betty Anna Haraldson, Minneapolis  
 Ann Vera Broms Hechter, St. Paul,  
 WITH DISTINCTION  
 Robert Frederick Hunter, Newport  
 Hilda E. Dorow Jacob, B.A., St. Paul  
 Ethel Elizabeth Johnson, Minneapolis  
 Karen Iris Hedberg Johnson, Duluth  
 Roger Erling Johnson, Minneapolis  
 Mary French Johnstone, Excelsior  
 Fifi Kafkas, Minneapolis  
 Mary Kathleen Neill Kirchner, Min-  
 neapolis, WITH DISTINCTION  
 Carol Fossum Kom, St. Paul, WITH  
 DISTINCTION  
 Ann Elizabeth KovaKovich, Eveleth  
 Jewel Anderson Lalim, Minneapolis  
 Betty Ewing Land, Minneapolis  
 Evelyn Hildegard Larson, Parkers  
 Prairie  
 Ralph John Larson, Minneapolis  
 Donald Arthur Lawrence, A.A., Min-  
 neapolis  
 Gayle Harry Lindahl, B.A., St. Paul  
 Borghild Getsine Loken, Minneapolis  
 Marjory Garmire Luce, Edina, WITH  
 DISTINCTION  
 Edith Elizabeth Lundstrom, St. Paul  
 Gilbert Ludwig Malm, South St. Paul  
 Carol Ann Berge Marshall, B.A.,  
 Mahtomedi  
 Sandra Ruth Meyer, St. Cloud  
 Carla E. J. Peterson Miller, Morris,  
 WITH HIGH DISTINCTION  
 Paul Marvin Modell, St. Paul  
 Thelma Johnson Mohn, East Chain  
 Stuart Mattison Moule, Minneapolis  
 John Walter Nelson, Minneapolis  
 Charlotte E. Kenis Nudell, B.A.,  
 Minneapolis  
 De Lores L. Olson, B.A., St. Paul  
 Oscar William Patzner, Minneapolis  
 Phyllis C. Prybelick, St. Paul  
 Irene Barbara Rasmusson, Minneapolis  
 Judith Anne Rehder, A.L.A., St. Paul  
 Paula Moriarty Richey, Minneapolis,  
 WITH DISTINCTION  
 Marilyn Ardis Sako, Minneapolis  
 Joan Margaret Sampson, St. Paul  
 Dorothy Esther Schostag, Howard  
 Lake, WITH DISTINCTION  
 Marilyn Rae Schroeder, South St. Paul  
 James Barton Sergeant, A.A.,  
 Rochester  
 Lily Esther Shih, B.A., China  
 Jessica Joan Langlie Smith, Park  
 Ridge, Ill.  
 Kenneth Albin Swanson, Howard  
 Lake, WITH HIGH DISTINCTION  
 Jean Kathryn Oja Swedberg, Cloquet,  
 WITH HIGH DISTINCTION  
 Glenellyn Swency, St. Paul  
 John Wayne Sybrant, North Branch  
 Janet Ruth Kennedy Thomas, Min-  
 neapolis  
 Mary Ramsay Thomas, B.A., Min-  
 neapolis  
 Thomas Allyn Thomas, Mora  
 Daniel Peter Westerberg, B.B.A.,  
 Minneapolis  
 Gladys Viola Wogstad, Granite Falls

\* Nursing Education Curriculum.

## Master of Education

Signe Adele Christensen, B.S., Min-  
neapolis  
Albert Wells Eaton, B.S.,  
Bloomington  
Graces E. Persons Gohdes, B.S. with  
distinction, Minneapolis  
Eunice Alfrida Hantho, B.S.N., Milan  
Hazel Muriel Johnson, B.S.,  
Lindstrom

Ronald George Masanz, B.S., South  
St. Paul  
LeRoy Bernard Schwan, B.S., St. Paul  
Eva Louise Scott, B.S., Northfield  
Claryce Ann Lunneborg Swensen,  
B.S.N., Minneapolis  
Velma Audrey Teichroew, B.S.,  
Mountain Lake  
Fredricka Robinson Young, B.A.,  
Charleston, S.C.

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

### Bachelor of Science

*Lora Ann Hagglund, St. Peter, Home  
Economics Education, WITH  
DISTINCTION*

Marjorie Anne Klingensmith, Min-  
neapolis, Home Economics  
Education

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Leonard Edgar Brown, Remer  
Philip LeRoy Carlson, A.A., Warren  
Donald Arthur Harms, Minneapolis  
Carl David Kirts, Duluth  
Clifford Allan Nelson, A.A., Anoka  
James Allan Peterson, Jamestown,  
N.Y.

William John Ridders, South St. Paul  
*Richard Carl Rudberg, Minneapolis,  
WITH DISTINCTION*  
Arthur Berwin Summerfield, St. Paul  
*Edward Matthew Zahler, Stillwater,  
WITH DISTINCTION*

### Bachelor of Science in Business

Gerald Elliott Goulet, Minneapolis  
Marcus Franklin Hischke, Kiester  
Lloyd Francis Howell, Wilmot, S.D.  
John Douglas Hyska, South St. Paul  
John Andrew Kugler, B.Ch.Eng.,  
St. Paul

Henry Robert Mahler, Gmuend,  
Austria  
Alan Jon Nissalke, Winona  
Paul Marlin Osman, Minneapolis  
Arnold John Osmundson, Nerstrand  
John Gregory Paulson, Minneapolis  
Charles George Stanford, Minneapolis

## Bachelor of Science in Economics

Roderick Paul Riese, St. Paul

## COLLEGE OF MEDICAL SCIENCES

### Bachelor of Science in Nursing Administration

*Dona Jean Baird, Frankfort, S.D.,*

WITH DISTINCTION

*Carol Ann Eckelberg, Wilton, Wis.,*

WITH HIGH DISTINCTION

*Karen LaRae Gruenhagen, Howard*

*Lake, WITH DISTINCTION*

*Janet Farrington Lewis, St. Paul,*

WITH HIGH DISTINCTION

*Eila Mavis Ruotsala, Rock, Mich.,*

WITH DISTINCTION

*Marjorie Louise Sears, Champaign,*

*Ill., WITH DISTINCTION*

### Bachelor of Science

*Leonora Helen Bruhn, R.N., Lake*

*Benton, Public Health Nursing*

*Vera Garrison Cope, Wichita, Kan.,*

*Public Health Nursing*

*Emily Lucille Farmer, Cheyenne,*

*Wyo., Public Health Nursing*

*Laura Elizabeth Folden, Minneapolis,*

*Public Health Nursing*

*Janet Louise Pearson, McCallsburg,*

*Iowa, Public Health Nursing*

*Nancy Quinn Quiggle, Albert Lea,*

*Public Health Nursing, WITH*

*DISTINCTION*

*Ronald Charles Smith, B.A., Min-*

*neapolis, Medicine*

*La Verne Timeche, Grand Canyon,*

*Ariz., Public Health Nursing*

## GRADUATE SCHOOL

### Master of Arts

*Heljo Laine Alari, Minneapolis*

Graduate '49, University of Tübingen (Germany). Field of Concentration: Library Science.

*Mata Lynette Bowles, Winfield, Kan.*

B.S. in Ed. '54, Kansas State College (Pittsburg). Field of Concentration: Curriculum and Instruction.

*Donald Keith Boylan, Long Lake*

B.A. '56, State University of Iowa, Field of Concentration: Curriculum and Instruction.

*Joel Oliver Breeding, Covina, Calif.*

B.A. '49, Wheaton College. Field of Concentration: Psychology.

*Brother Joel Nicholas Geimer,*

*Chicago, Ill.*

B.A. cum laude '50, St. Mary's College. Field of Concentration: Industrial Education.

*Judith Rehfeld Brown, St. Paul*

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

*Donald Arthur Carlson, Duluth*

B.A. cum laude '58, University of Minnesota. Field of Concentration: History.

*Subira Chowdhary, India*

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



David Laurence Christianson,  
Hinckley

B.A. *cum laude* '56, Gustavus Adolphus Col-  
lege. Field of Concentration: French.

Cheng-ping Chu, Taipei, Taiwan,  
China

B.S. '55, National Taiwan University. Field of  
Concentration: Child Development and Wel-  
fare.

Dene Lowell Clark, Iowa City, Iowa

B.S. '53, State University of Iowa. Field of  
Concentration: Library Science.

Theresa Anne Cleary, Toronto,  
Ontario, Canada

B.S. '58, Marquette University. Major: Child  
Development and Welfare. Minor: Mathe-  
matics. Thesis: The Relationship of Selected  
Ability Measures to Performance in Mathe-  
matics.

Everett Earl Collin, Minneapolis

B.S. '50, Mankato State College. Field of Con-  
centration: Educational Administration.

Nicholas John Cords, St. Clair

B.S. with honor '52, Mankato State College.  
Major: History. Minor: Political Science.  
Thesis: Musical Activities in New Orleans,  
1837-1840.

Richard Dwight Coy, Danvers

B.A. '55, St. John's University. Field of Con-  
centration: History.

Treffle Ronald Daniels, St. Louis Park

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

Erland Richard Engstrom, Leroy,  
Mich.

B.S. '54, Central Michigan College. Field of  
Concentration: Curriculum and Instruction.

Charles Elbert Evans, Becker

B.S. '42, St. Cloud State College. Field of  
Concentration: Educational Administration.

Wilfred Fangman, Atchison, Kan.

B.A. '46, St. Benedict's College (Kansas).  
Field of Concentration: Curriculum and In-  
struction.

Elizabeth Ward Fralick, Hopkins

B.S. '56, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Richard Milton Fuller, Alma, Mich.

B.A. '55, DePauw University. Major: Physics.  
Minor: Mathematics. Thesis: A Study of Sec-  
ond Sound and Related Phenomena in Helium  
Vapor and Helium II Film.

Bernardine Pochler Graham,  
Champlin

B.A. *cum laude* '54, University of Minnesota.  
Major: Sociology. Minor: Psychology. Thesis:  
A Statistical Study of Leisure Activities of  
Housewives.

John Benjamin Grant, Jr., Excelsior

B.A. '58, Bowdoin College. Major: Art. Minor:  
History. Thesis: An Analysis of the Paintings  
and Drawings by Eastman Johnson at the St.  
Louis County Historical Society.

Dorothy Nickerson Haring, Minne-  
apolis

B.S. *cum laude* '53, Macalester College. Field  
of Concentration: Curriculum and Instruction.

Barbara Burns Helling, Northfield

B.A. *cum laude* '48, Pomona College. Field of  
Concentration: Child Development and Wel-  
fare.

Robert Charles Hemberger, Minne-  
apolis

B.S. '52, St. Cloud State College. Field of  
Concentration: Educational Administration.

Margaret Sigrid Hertel, Fargo, N.D.

B.A. '59, Knox College. Field of Concen-  
tration: Library Science.

Edryce Yvonne Johnson, Stanchfield

B.A. '46, Augsburg College. Field of Con-  
centration: Curriculum and Instruction.

Esther Dorothy Johnson, Minneapolis

B.S. '53, Mankato State College. Field of  
Concentration: Curriculum and Instruction.

Allan Marshall Kirch, Killeen, Tex.

B.A. *cum laude* '58, University of Minnesota.  
Field of Concentration: Mathematics.

Waldo Homer Lang, Faribault

B.S. '50, North Central College. Field of  
Concentration: Curriculum and Instruction.

James Joseph Lynskey, Ventnor, N.J.

B.S. '56, University of Maryland. Field of  
Concentration: Political Science.

Sverrir Hermann Magnusson,  
Akureyri, Iceland  
B.A. '54, St. Olaf College. Field of Concentration: Educational Administration.

Albert Mamary, Robesonia, Pa.  
B.S. '55, Mansfield State Teachers College. Field of Concentration: Curriculum and Instruction.

Robert John Miller, Minneapolis  
B.A. '58, University of Minnesota. Field of Concentration: Psychology.

Nancy Kay Moore, Timber Trails, Ill.  
B.A. '58, University of Wisconsin. Field of Concentration: Psychology.

Glenn Irving Nelson, Westbrook  
B.A. '55, St. Olaf College. Major: Sociology. Minor: Psychology. Thesis: The Sub-Organizations of the Urban Protestant Church as Voluntary Associations.

Ruby Elvira Nelson, Minneapolis  
B.A. '59, Trinity Seminary and Bible College. Field of Concentration: Educational Psychology.

Irvin J. Nerdahl, Robbinsdale  
B.A. '40, Augsburg College. Field of Concentration: Curriculum and Instruction.

Francis Eugene Nickerson, Minneapolis  
B.S. '48, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Robert Joseph Novotny, Sleepy Eye  
B.S. '51, University of Minnesota. Field of Concentration: Agricultural Education.

Oliver Walter Ostrand, Fremont, Neb.  
B.S.Ed. '58, Midland College. Field of Concentration: Educational Administration.

Ralph Leslie Palan, Faribault  
B.S. '46, University of Minnesota. Field of Concentration: Agricultural Education.

Walter Fred Peterson, St. Paul  
B.A. '57, Augsburg College. Major: Philosophy. Minor: Political Science. Thesis: The Criticisms of Forms in Plato's *Parmenides*.

Judith Ann Philipp, Minneapolis  
B.S. with distinction '51, University of Minnesota. Field of Concentration: Art Education.

Genevieve Carol Quigg, Austin  
B.S. '43, Bemidji State College. Field of Concentration: Curriculum and Instruction.

Hcydar Radjavi, Tabriz, Iran  
B.S. '56, University of Tehran. Major: Mathematics. Minor: Statistics. Thesis: On Unitary Equivalence of Arbitrary Matrices.

William Decker Rauch, St. Charles, Mo.  
B.A. *magna cum laude* '58, St. Louis University. Field of Concentration: English.

Estrella L. Samonte, Quezon City, Philippines  
B.A. '55, University of the Philippines. Field of Concentration: Library Science.

David Ernest Scanlan, Minneapolis  
B.A. '59, University of California (Berkeley). Major: Speech and Theater Arts. Minor: English. Thesis: A Translation into English of Jean Anouilh's *Le Voyageur Sans Bagage*, with Preface.

Verna Marie Shupenia, Chipman, Alberta, Canada  
B.A. '59, University of Alberta. Major: Sociology. Minor: Anthropology. Thesis: Social and Cultural Change—A Study of Social and Cultural Changes in the Life Cycle of the Copper Eskimo.

Mary Elin Sommers, Minneapolis  
B.S. '54, University of Minnesota. Major: Speech and Theater Arts. Minor: Scandinavian. Thesis: The Adaptation of a Fantasy for Children's Theater—*Espen Cinderlad*.

Ruth E. Sonsteng, Salol  
B.A. '54, Augsburg College. Field of Concentration: Home Economics.

Gerald Charles Sorensen, Rochester  
B.A. '58, Grinnell College. Field of Concentration: English.

Robert Ernest Stebbins, Minneapolis  
B.A. '53, Bowling Green State University; B.D. '56, Yale Divinity School. Field of Concentration: History.

Dean Roy Swanson, St. Paul

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

Marjorie Anne Swanson, Excelsior

B.A. '41, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.

Richard Harold Swanson, Duluth

B.B.A. '58, University of Minnesota. Field of Concentration: Industrial Relations.

Harold Sigurd Swenson, Minneapolis

B.A. '48, St. Olaf College. Field of Concentration: Educational Administration.

Henry Robert Thomas, Minneapolis

B.A. '34, Municipal University of Omaha. Field of Concentration: Speech.

Sally Lou Thompson, Minneapolis

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

Kenneth Wayne Uhlhorn, Mankato

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

John Edward Ulander, Maple Plain

B.S. '52, Wisconsin State College (River Falls). Field of Concentration: Curriculum and Instruction.

Barbara Amy Vatter, Northfield

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

James Stanley Vieburg, Minneapolis

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

David Roy Watkins, East Haven, Conn.

B.A. '37, St. Ambrose College. Major: Library Science. Minor: Education. Thesis: A Study of the Relationship Between the Librarian and the Administration of Five Minnesota Colleges.

Carolyn Reed Weinstein, Minneapolis

B.A. '53, Antioch College. Field of Concentration: American Studies.

Jose Cruz Zarraga, Calatagan, Batangas, Philippines

B.S.Ag.Ed. cum laude '57, Central Luzon Agricultural College. Field of Concentration: Agricultural Education.

## Master of Arts in Public Administration

Kwang Pil Choi, Seoul, Korea

LL.B. '52, LL.M. '56, Seoul National University. Major: Public Administration. Thesis: The Minneapolis-Saint Paul Metropolitan Airports Commission, Its Organization and Administrative Functions and Duties.

Andrew Martin Johnson, Windom

B.A. cum laude '57, University of Minnesota. Field of Concentration: Public Administration.

Charles Arthur Jones, Red Wing

B.A. '59, University of Minnesota. Field of Concentration: Public Administration.

Cyrus J. Knutson, Bloomington

B.A. '56, Hamline University. Field of Concentration: Public Administration.

Roland Ernest Muir, Saskatoon, Saskatchewan, Canada

B.Comm. with Great Distinction '56, University of Saskatchewan. Field of Concentration: Public Administration.

## Master of Fine Arts

Douglas Kinsey, Oberlin, Ohio

B.A. '57, Oberlin College. Major: Art. Minor: English. Thesis: Marc Chagall: His Point of View.

## Master of Forestry

Robert Earl Benson, Eau Claire, Wis.  
B.S. '58, University of Minnesota. Field of Concentration: Forestry.

Richard Russell Weyrick, Grand Rapids  
B.S. with distinction '53, University of Minnesota. Field of Concentration: Forestry.

## Master of Science

Herndon R. Agee, Richmond, Ky.  
B.A. '58, Berea College. Major: Entomology. Minor: Botany: Thesis: The Biology of the Clover Seed Midge, *Dasynura leguminicola* Lintner, (Diptera: Cecidomyiidae) in Minnesota.

Anders Edvard Bjølgerud, Bergen, Norway  
Graduate '58, Norges Handelshoyskole. Field of Concentration: Business Administration.

Martin Fan Cheng, China  
B.S. '56, National Taiwan University. Major: Mechanics and Materials. Minor: Mathematics. Thesis: A Study of a Corrugation Type of Configuration for Damping of Beams.

Robert Erle Churchill, Guthrie, Okla.  
B.S. with highest honors '58, Northwest Missouri State College. Field of Concentration: Physics.

Richard Clare Cole, St. Paul  
B.S. '59, University of Minnesota. Field of Concentration: Dairy Husbandry.

Robert George Daniel, St. Cloud  
B.S. '58, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Effects of S-(1,2-Dichlorovinyl)-L-Cysteine on *Escherichia coli*.

James Franklin Dillon, Clarksburg, W.Va.  
B.S. '58, Salem College. Field of Concentration: Physics.

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

Robert Adolph Hoffman, Winona  
B.S. *summa cum laude* '56, St. Mary's College (Minnesota). Major: Physics. Minor: Mathematics. Thesis: Standardization of Ionization Chambers.

Gilbert Gene Leiter, Kansas City, Mo.  
B.A. '58, William Jewell College. Field of Concentration: Physics.

Gordon Vincent Lins, Cologne  
B.A. '58, University of Minnesota. Field of Concentration: Business Administration.

Betty Jane Loge, Oslo  
B.S. with distinction '52, University of Minnesota. Field of Concentration: Public Health.

Donald Hugh Mac Millan, Edina  
B.A. '59, Colorado College. Field of Concentration: Business Administration.

Claus Erik Nieuwejaar, Oshkosh, Wis.  
B.A. *magna cum laude* '58, Concordia College (Moorhead). Field of Concentration: Physics.

Carmen Dolores Nitsche, Santurce, Puerto Rico  
B.S. *magna cum laude* '55, University of Puerto Rico. Field of Concentration: Mathematics.

Carmen Ordell Nohre, Houston  
B.S. with high distinction '50, University of Minnesota. Field of Concentration: Agricultural Economics.

Sita Pothapragada, Visakhapatnam, India  
B.Sc. '52, Andhra University. Major: Physiological Chemistry. Minor: Analytical Chemistry. Thesis: Succinic Dehydrogenase in Mast Cells.

Hector Quijano-Vives, Mayaguez, Puerto Rico  
B.S. in C.E. '57, University of Puerto Rico. Field of Concentration: Mechanics and Materials.

Arthur Sears Radtke, Minneapolis  
B.A. '58, Carleton College. Major: Geology. Minor: Mining Engineering. Thesis: The Relationship of Arizona Mining Districts to Major Geologic Structures and Formations.

Derek John Sturges, Potters Bar,  
England  
B.A. '58, University of Oxford. Field of Con-  
centration: Physics.

David Bruce Thorud, St. Paul  
B.S. with distinction '58, University of Min-  
nesota. Field of Concentration: Forestry.

Joseph Kirby Wagoner, Rochester  
B.S. '57, College of St. Thomas. Field of  
Concentration: Biostatistics.

James Robert Waller, Long Prairie  
B.A. '56, St. John's University. Major: Bac-  
teriology. Minor: Agricultural Biochemistry.  
Thesis: Studies on the Accumulation of Biotin  
by Cells of *Lactobacillus arabinosus*.

Mohammed Yousufuddin, Hyderabad,  
India

B.Sc. '55, Osmania University. Field of Con-  
centration: Agronomy.

Dennis Daniel Warnes, Stephen  
B.S. '55, North Dakota Agricultural College.  
Field of Concentration: Agronomy.

Ira Martin Wasserman, Carbondale,  
Pa.  
B.S. '58, The Pennsylvania State University.  
Field of Concentration: Physics.

Donald Albert West, Leamington,  
Ontario, Canada  
B.S. in Ag. '58, University of Toronto. Field  
of Concentration: Agricultural Economics.

Robert C. Wong, St. Paul  
B.A. '54, University of Minnesota. Major: Ag-  
ricultural Biochemistry. Minor: Organic Chem-  
istry. Thesis: Studies on the Acetylation of  
Trypsin.

## Master of Science in Anesthesiology

James Hall Matthews, Minneapolis  
B.S. '46, M.D. '47, University of Arkansas.  
Major: Anesthesiology. Minor: Pharmacology.  
Thesis: Electroencephalography During Extra-  
corporeal Circulation.

Murray Arthur Tanasichuk, Rosburn,  
Manitoba, Canada  
M.D. '52, University of Manitoba. Major:  
Anesthesiology. Minor: Physiology. Thesis:  
Spinal Hemianalgesia: An Evaluation of the  
Method, Its Applicability and Influence upon  
Spinal Hypotension; with Some Observations  
on Sympathetic Function During Other Re-  
gional Anesthetics and Some Neurologic Con-  
ditions.

## Master of Science in Chemical Engineering

Ung Choi, Seoul, Korea  
B.S. '48, Seoul National University. Major:  
Chemical Engineering. Minor: Mathematics.  
Thesis: Performance of a Pulsed Column.

## Master of Science in Civil Engineering

Lonnie Eugene Dye, Lincoln, Neb.  
B.S. '57, University of Nebraska. Field of Con-  
centration: Civil Engineering.

Douglas Wendell Johnson, St. Peter  
B.S. with distinction '59, University of Min-  
nesota. Field of Concentration: Civil Engi-  
neering.

Feroze Kaikhushroo Kanga, Karachi,  
Pakistan

B.E. (Civil) '58, University of Karachi. Field  
of Concentration: Civil Engineering.

Chen-chou Ni, China

B.S. '57, National Taiwan University. Field of  
Concentration: Civil Engineering.

Aekkati Sesha Reddy, Warangal,  
India

B.E. '56, Osmania University. Field of Con-  
centration: Civil Engineering.

Yu-Fang Tsai, China

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

## Master of Science in Dentistry

Permishwari Saran Bhargava, Luck-  
now, Uttar, Pradesh, India

B.D.S. '55, Lucknow University. Major: Den-  
tistry. Minor: Bacteriology. Thesis: Growth  
Rate of Incisor Teeth in Golden Syrian Ham-  
sters.

## Master of Science in Dermatology

Ernest Lorenc, Springfield, Mo.

B.A. '51, M.D. '54, University of Iowa. Major:  
Dermatology. Minor: Pathology. Thesis: Phar-  
macologic Effects of Common Topical Com-  
pounds: A Comparative Histopathological  
Study of Their Effects on Skin of Hairless  
Mice and Normal Humans.

## Master of Science in Electrical Engineering

Anton Edward LaBonte, Minneapolis

B.S. with high distinction '57, University of  
Minnesota. Major: Electrical Engineering.  
Minor: Mathematics. Thesis: An Analysis of  
the Faraday and Kerr Magneto-Optical Effects  
in Thin Ferromagnetic Films.

Eugene Diedrich Savoye, Le Sueur

B.S. with distinction '57, University of Min-  
nesota. Field of Concentration: Electrical En-  
gineering.

## Master of Science in Industrial Engineering

Gary Dean Eppen, Austin

B.S. with high distinction '59, University of  
Minnesota. Field of Concentration: Industrial  
Engineering.

Harry Eugene Stone, Minneapolis

B.S. '58, University of Minnesota. Field of  
Concentration: Industrial Engineering.

Lowell Donovan Nystrom, Fosston

B.B.A. with distinction '58, B.M.E. with high  
distinction '58, University of Minnesota. Field  
of Concentration: Industrial Engineering.

Arnold Marcus Weimerskirch,  
Belgrade

B.S. with distinction '58, University of Min-  
nesota. Field of Concentration: Industrial En-  
gineering.

## Master of Science in Medicine

Francis Henry Bledsoe, Charleston Heights, S.C.

B.S. '50, College of Charleston; M.D. '53, Medical College of South Carolina. Major: Medicine. Minor: Physiology. Thesis: Kinetics and Effects of Continuous Extracorporeal Ultrafiltration of the Blood of Dogs Using the Skeggs-Leonards-Heisler Dialyzer-Ultrafilter.

Frances Eleanor Bull, Ann Arbor, Mich.

B.S. '48, M.D. '52, University of Michigan. Major: Medicine. Minor: Hematology. Thesis: Radioactive Vitamin B<sub>12</sub> Absorption in the Evaluation of Intrinsic Factor.

Paul Davidson, Wilmington, Del.

B.S. '52, University of Delaware; M.D. '56, Albany Medical College. Major: Medicine. Minor: Pathological Anatomy. Thesis: Cardiac and Aortic Lesions in Rheumatoid Spondylitis.

David Johann Evenson, Palo Alto, Calif.

B.A. '50, M.D. '53, Stanford University. Major: Medicine. Minor: Hematology. Thesis: An Electrophoretic Study of Serum Protein Bound Carbohydrate in Dysproteinemia.

Richard Gilbert Farmer, Kokomo, Ind.

M.D. '56, University of Maryland. Major: Medicine. Minor: Hematology. Thesis: A Comparison of Clinical Findings and Morphologic Changes in the Peripheral Blood in Patients with Chronic Ulcerative Colitis.

Richard Lewis Lipson, Havertown, Pa.

B.A. '52, Lafayette College; M.D. '56, Jefferson Medical College. Major: Medicine. Minor: Physiology. Thesis: The Photodynamic and Fluorescent Properties of a Particular Hematoporphyrin Derivative and Its Use in Tumor Detection.

John Joseph Reuland, Collingdale, Pa.

B.S. '52, St. Joseph's College (Pa.); M.D. '56, Hahnemann Medical College. Major: Medicine. Minor: Hematology. Thesis: A New Method for the Quantitative Determination of Methemoglobin and Sulfhemoglobin Using a Differential Technique.

Ralph Earl Spickerman, Rochester

B.A. '51, M.D. '54, University of Illinois. Major: Medicine. Minor: Pathology. Thesis: Survey of Coronary Heart Disease in Rochester, Minnesota.

Deloran Leigh Thurber, Rochester

B.A. '51, B.S. '52, M.D. '54, University of Minnesota. Major: Medicine. Minor: Pathology. Thesis: Secondary Malignant Tumors of the Pericardium.

Walt Franklin Weaver, Lincoln, Neb.

B.S. '52, University of Nebraska; M.D. '56, Western Reserve University. Major: Medicine. Minor: Pathology. Thesis: Correlation Between the Level of Serum Potassium and the Electrocardiogram in Hypokalemic States.

## Master of Science in Neurology

James Colin White, Katonah, N.Y.

B.A. '52, New York University; M.D. '56, University of Vermont. Major: Neurology. Minor: Basic Neurological Sciences. Thesis: A Study of the Effects of Local Injury to Intracranial Arteries in Dogs.

## Master of Science in Otolaryngology

George Victor Tangen, Minneapolis

B.A. '52, Princeton University; B.S. '56, M.D. '56, University of Minnesota. Major: Otolaryngology. Minor: Pathology. Thesis: An Otologic Evaluation of Cleft Palate Children.

## Master of Science in Plastic Surgery

Ralph Bowen, Jr., Houston, Tex.

M.D. '55, Baylor University. Major: Plastic Surgery. Minor: Pathology. Thesis: Congenital Extracranial Arteriovenous Fistulas.

## Master of Science in Radiology

James Cleon Hunt, Champaign, Ill.

B.A. '51, B.S. '52, M.D. '54, University of Illinois. Major: Radiology. Minor: Pathology. Thesis: The Roentgenologic Manifestations of the Skeletal Lesions in Neurofibromatosis.

## Master of Science in Surgery

Richard Louis Bigg, Latrobe, Pa.

B.A. '51, Yale University; M.D. '55, University of Pennsylvania. Major: Surgery. Minor: Pathology. Thesis: Gastric Diverticula.

Paul Marvin Brown, Portland, Ore.

B.S. '45, Willamette University; M.D. '49, Harvard University. Major: Surgery. Minor: Pathology. Thesis: A Study of Clinically "Benign" Gastric Ulcerations Found to be Malignant at Operation.

Thomas Emerson Hodgins, Sarnia, Ontario, Canada

M.D. '51, University of Western Ontario. Major: Surgery. Minor: Pathology. Thesis: Acute and Subacute Non-calculous Cholecystitis: A Clinical and Pathologic Study.

Patricio Eugenio Perez, Santiago, Chile

M.D. '48, University of Chile. Major: Surgery. Minor: Pathology. Thesis: Associated Primary Cancer of the Larynx and Bronchogenic Carcinoma.

## Master of Social Work

Else Harboe Miller, Minneapolis

Graduate '49, Copenhagen School of Social Work. Field of Concentration: Social Work.

## Doctor of Philosophy

Hans C. Aarsleff, Rungstad, Denmark

B.A. '45, University of Copenhagen; M.A. '54, University of Minnesota. Major: English. Minor: Linguistics. Thesis: The Study of Language in England, 1780-1860. Major Adviser: Prof. J. W. Clark.

John Paul Anderson, Elk River

B.S. '42, M.A. '48, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Student Perceptions of Teacher Influence. Major Advisers: Profs. R. J. Keller and N. A. Flanders.

Vincent Wester Anderson, Minneapolis

B.M.E. '43, M.S. in M.E. '48, University of Minnesota. Major: Mechanics and Materials. Minor: Metallurgy. Thesis: Damping Properties of Materials Subjected to Various Ratios of Biaxial Stress. Major Adviser: Prof. B. J. Lazan.

Eugene Bluestein, East Lansing, Mich.

B.A. '50, Brooklyn College; M.A. '53, University of Minnesota. Major: American Studies. Thesis: The Background and Sources of an American Folksong Tradition. Major Adviser: Prof. J. J. Kwiat.



Henry Green Braxton, Jr., Louisville,  
Ky.

B.S. in Chem. '52, University of Michigan.  
Major: Organic Chemistry. Minor: Chemistry.  
Thesis: Reactions of Diazo Compounds with  
Nitroolefins. Major Adviser: Prof. W. E.  
Parham.

Ruth Dietz Churchill, Yellow Springs,  
Ohio

B.A. '37, Barnard College. Major: Psychology.  
Minor: Educational Psychology. Thesis: Evalu-  
ation of Independent Study in College Courses.  
Major Advisers: Profs. D. G. Paterson and R.  
E. Eckert.

Donald Gene Davenport, Topeka,  
Kan.

B.A. '53, Baker University; M.A. '57, Univer-  
sity of Minnesota. Major: Psychology. Minor:  
Biostatistics. Thesis: The Galvanic Skin Re-  
sponse as a Function of Classical Conditioning,  
"Instructional" Conditioning, and Clinical  
Anxiety. Major Adviser: Prof. W. A. Russell.

Louis Goldstein, St. Paul

B.S.S. '39, City College of New York; M.A.  
'44, New York University. Major: Sociology.  
Minor: Social Work. Thesis: The Social  
Agency Executive—A Study of Organizational  
Isolation. Major Adviser: Prof. A. M. Rose.

Doris Virginia Gunderson, Moorhead

B.A. '46, Concordia College (Moorhead); M.A.  
'54, University of Oregon. Major: Education.  
Minor: English. Thesis: The Influence of  
College Reading Instruction Upon Academic  
Achievement. Major Adviser: Prof. G. L.  
Bond.

Richard LaVerne Hansen, Moorhead

B.S. '54, North Dakota Agricultural College.  
Major: Organic Chemistry. Minor: Physical  
Chemistry. Thesis: The Relative Reactivities  
of Some Alkyl Mercuric Iodides Toward  
Aqueous Non-halogen Acid and a Quantum  
Mechanical Study of Methyl Anion. Major Ad-  
viser: Prof. M. M. Kreevoy.

Van Diem Le, Hue, Vietnam

B.A. '55, Washington State University; M.A.  
'56, University of Minnesota. Major: American  
Studies. Thesis: Puritan Idealism and the  
Transcendental Movement. Major Adviser:  
Prof. J. C. Levenson.

Keith Arthur Lovald, Kenosha, Wis.

B.S. '51, University of Wisconsin; M.A. '55,  
University of Minnesota. Major: Sociology.  
Minor: Philosophy. Thesis: From Hoboemia  
to Skid Row: The Changing Community of  
the Homeless Man. Major Adviser: Prof. D.  
A. Martindale.

Thomas Seneral Lundgren, Minne-  
apolis

B.S. with distinction '54, M.S. in A.E. '56,  
University of Minnesota. Major: Fluid Me-  
chanics. Minor: Mathematics. Thesis: The  
Non-Equilibrium Debye Potential in a Plasma  
and Its Effect on the Kinetic Equation. Major  
Adviser: Prof. C. C. Chang.

Donald Edward McGannon, Jr.  
Hutchinson

B.A. '52, Syracuse University; M.S. '57, Uni-  
versity of Minnesota. Major: Geology. Minors:  
Geophysics and Geology (Petrology). Thesis: A  
Study of the St. Lawrence Formation in the  
Upper Mississippi Valley. Major Adviser: Prof.  
G. A. Thiel.

Chandra Prakash Misra, Agra, India

B.S. '49, M.S. '51, Agra University. Major:  
Entomology. Minors: Botany and Plant Pathol-  
ogy. Thesis: Studies on the Relationship Be-  
tween *Sitotroga cerealella* Oliv. (Angoumois  
Grain Moth), *Plodia interpunctella* Hbn.  
(Indian Meal Moth) and Storage Fungi. Major  
Adviser: Prof. A. C. Hodson.

Lester Jens Nypan, Minneapolis

B.S. with distinction '51, M.S. in M.E. '52,  
University of Minnesota. Major: Mechanical  
Engineering. Minor: Mathematics. Thesis: An  
Evaluation of the Kinematic and Kinetic  
Phenomena in the Structure of Lubricating  
Films. Major Adviser: Prof. J. J. Ryan.

Clarence Scott Potter, Bogalusa, La.

B.S. '50, University of Wisconsin, M.S. '55,  
University of Minnesota. Major: Agricultural  
Biochemistry. Minor: Organic Chemistry.  
Thesis: Studies on the Biochemical Mechan-  
isms of Active Transport. Major Adviser: Prof.  
P. D. Boyer.

Alan Mark Reynard, Boston, Mass.

B.S. '53, George Washington University.  
Major: Physiological Chemistry. Minor: Physi-  
cal Chemistry. Thesis: The Mechanism of  
Enzymatic Phosphate Transfer Reactions.  
Major Adviser: Prof. P. D. Boyer.

Edward William Rosencrants, South  
St. Paul

B.S. '52, M.S. in M.E. '53, University of Minnesota. Major: Mechanical Engineering. Minor: Petroleum Engineering. Thesis: An Investigation of the Limitations on the Use of a Mechanical Analog for the Measurement of Loads and Displacements in a Sucker Rod Pumping System. Major Adviser: Prof. J. J. Ryan.

John Richard Schmidt, Madison, Wis.

B.S. '51, M.S. '53, University of Wisconsin. Major: Agricultural Economics. Minor: Economics. Thesis: Farm Organization as Influenced by Forage Acreage. Major Adviser: Prof. S. A. Engene.

Harold Allen Schofield, Minneapolis

B.A. *cum laude* '53, University of Minnesota; M.A. '56, University of Connecticut. Major: History. Minor: Geography. Thesis: The Government-Inspired Press During the Liberal Empire, 1860-1870. Major Adviser: Prof. John Bowditch.

Lowell Richard Smith, Minneapolis

B.A. '55, University of Minnesota. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Nitration of Indoles. Major Adviser: Prof. W. E. Noland.

Herbert Edwin Struss, Roselle Park,  
N.J.

B.Sc. '51, Rutgers University; M.S. '55, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: The Effect of Intramammary Infusions of Antigens on Milk Production. Major Adviser: Prof. W. E. Petersen.

Walter Beckman Studdiford, Somerville, N.J.

B.A. *cum laude* '50, Hope College; M.A. '51, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Stimulus Contiguity: An Investigation of Operant Discriminative Effects of Simultaneous Presentation of Stimuli in Two Modalities. Major Adviser: Prof. Kenneth MacCorquodale.

John Patrick Sullivan, St. Paul

B.S. with high distinction '51, D.V.M. '53, Colorado Agricultural and Mechanical College. Major: Veterinary Physiology and Pharmacology. Minor: Physiological Chemistry. Thesis: Studies on Progesterone Metabolism in Normal Dairy Cows. Major Adviser: Prof. A. F. Sellers.

Donald Wayne Sunderman, St. Paul

B.S. '50, M.S. '51, University of Minnesota. Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance of Reaction to Stern Rust in Crosses Between Certain Vulgare Spring Wheats. Major Adviser: Prof. E. R. Ausemus.

Stanton Knight Tefft, Lombard, Ill.

B.A. with high honor '52, Michigan State University; M.S. '56, University of Wisconsin. Major: Anthropology. Minor: Sociology. Thesis: Cultural Adaptation: The Case of the Comanche Indians. Major Adviser: Prof. E. A. Hoebel.

John Robert Tester, Gibbon

B.S. with distinction '51, University of Minnesota; M.S. '53, Colorado Agricultural and Mechanical College. Major: Fishery and Wildlife Management. Minor: Botany. Thesis: A Study of Certain Plant and Animal Interrelations on a Native Prairie in Northwestern Minnesota. Major Adviser: Prof. W. H. Marshall.

Leonard Weller, New York, N.Y.

B.A. '55, City College of New York. Major: Sociology. Minors: Anthropology and Political Science. Thesis: The Nature of Prejudice: A Theoretical Evaluation and an Empirical Appraisal. Major Adviser: Prof. D. A. Martindale.

Charles Earl Werts, Jr., New York,  
N.Y.

B.S. '51, University of California. Major: Psychology. Minor: Child Development and Welfare. Thesis: Multidimensional Analysis of Psychological Constructs. Major Adviser: Prof. R. D. Wirt.

Donald Alexander Willigan, Win-  
nipeg, Manitoba, Canada

B.S. in Ag. '48, University of Manitoba; D.V.M. '52, University of Toronto; M.S. '55, University of Illinois. Major: Veterinary Pathology. Minor: Agricultural Biochemistry. Thesis: Studies on the Distribution and Excretion of Cobalt 60-Vitamin B<sub>12</sub> in the Dog and Rat. Major Adviser: Prof. J. H. Sautter.

## Doctor of Philosophy in Surgery

Conrad Belnap Jenson, Ogden, Utah

B.A. with high honors '50, M.D. '52, University of Utah. Major: Surgery. Minor: Pathology. Thesis: The Effect of Hypothermia on Experimentally Induced Pancreatitis. Major Adviser: Dr. O. H. Wangensteen.

Albert Mowlem, St. Paul

B.A. '47, Columbia University; M.D. '51, Yale University. Major: Surgery. Minor: Physiology. Thesis: Observations on Some Factors Influencing Blood Flow in the Lungs. 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

College of Agriculture, Forestry, and Home Economics.....	maize
College of Education.....	light blue
School of Business Administration.....	drab
College of Medical Sciences.....	green
Graduate School.....	black

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



# UNIVERSITY OF MINNESOTA

## *Senior Reception*

*July, 1960*

- The members of the graduating class, their families and friends, are invited to attend the Senior Reception immediately after the commencement exercises. The Reception will be held on the Terrace of the Coffman Memorial Union. In case of rain the Main Ballroom will be used.
- Those in the receiving line will be President and Mrs. Wilson, Mr. Richard Stanford, President of the Coffman Union Board of Governors, and Mr. Gary Grimm, Vice President of the Minnesota Student Association.
- Assisting in the Reception are members of the Union Board of Governors and its committees, and of the following honorary societies: Chimes, Grey Friars, Iron Wedge, Mortar Board, and Phoenix.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.

THE  
UNIVERSITY OF MINNESOTA

Announces Its

*August Commencement*

*1960*

NORTHROP MEMORIAL AUDITORIUM

THURSDAY EVENING, AUGUST 18

AT EIGHT O'CLOCK



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Sterling B. Garrison, Assistant Secretary

Mr. Clinton T. Johnson, Treasurer

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

The Honorable Charles W. Mayo, M.D., Rochester  
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 Robert E. Hess, White Bear Lake

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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As a courtesy to those attending functions, and out of respect for the character of the building, be it resolved by the Board of Regents that there be printed in the programs of all functions held in 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 ninth 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 physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—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 151,000 degrees to its students who have completed the rigorous training demanded by the complexities of modern society.

In addition to the enormous task of giving collegiate instruction to more than 26,000 students on its Minneapolis, St. Paul, and Duluth Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, 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, 4-H Club agents, and recreation and health consultants give effective 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 the diverse research laboratories on its three campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists at any one moment are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with such matters as cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, nuclear energy, school surveys, and new varieties of grains, fruits, and flowers, 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, Radio Station KUOM, the Twin City Area Educational Television Station KTCA-TV, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. 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 disease. Further contributions have made it possible for the University to build the Masonic Memorial Hospital and the Veterans of Foreign Wars Cancer Research Center and are making it possible to construct Diehl Hall (which will house the biological-medical library and additional medical research facilities).

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 number 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 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1959-61 biennium. In addition, the University will receive \$8,879,748 for University Hospitals; \$4,141,355.69 for special appropriations, including special extension and research activities; and \$14,457,150 for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is 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 1958-59 showed that the University received \$88,524,771.68 and spent \$88,520,513.75. This includes a total of \$14,333,868.14 received from student tuition and fees, hospital and other department receipts; \$1,205,359.98 from intercollegiate athletics; \$13,941,035.89 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from the revolving funds; and \$1,205,359.98 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. Also, \$3,176,924.03 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$88,524,771.68 which the University received for 1958-59, \$38,410,936.10, or 43.4 per cent, came from the state.

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

## Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium. 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 PRELUDE:** From 7:30 to 8:00 p.m., Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

### PROCESSIONAL:

*Toccata in D Major* - - - - - Telemann

**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 Truman R. Nodland, Ph.D., Institute of Agriculture, Marshal; Assistant Professor William A. Stockdale, M.A., General College, Marshal; Mr. Romine E. Matthews, Ph.D., Admissions and Records; Lieutenant Goodwin Donnelly, USN, Assistant Professor of Naval Science; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations; Assistant Dean Reuel I. Lund, Ph.D., School of Business Administration; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; The Reverend Paul Colbert, Adviser to Catholic students and staff members on the St. Paul Campus of the University; Dean E. W. Ziebarth, Ph.D., Summer Session; Mr. J. Cameron Thomson, LL.D., retired Chairman of the Board of Northwest Bancorporation, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; Vice President and Administrative Assistant Stanley J. Wenberg, M.A.; Dean Horace T. Morse, Ph.D., General College; Dean of Students Edmund G. Williamson, Ph.D.; Associate Dean Kenneth E. Clark, Ph.D., Graduate School; Colonel Arthur W. Dern, USAF, Professor of Air Science; Associate Dean Marcia Edwards, Ph.D., College of Education; Assistant Dean Richard J. FitzGerald, LL.B., Law School; Colonel Roy K. Kauffman, USA, Professor of Military Science; Professor Lawrence E. Goodman, Ph.D., Institute of Technology; Professor Roy A. Schuessler, M.M., Music; Associate Professor Willard W. Tennyson, Ed.D., College of Education, Marshal; Assistant Professor Curtis J. Overdahl, Ph.D., Institute of Agriculture, Marshal.

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

## *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 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 Paul Colbert.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson.

COMMENCEMENT ADDRESS: Mr. J. Cameron Thomson, retired Chairman of the Board of Northwest Bancorporation, *Shaping Minnesota's Future*.

CONFERRING OF ROTC CERTIFICATES: Dean Ziebarth will introduce Colonel Kauffman, Lieutenant Donnelly, and Colonel Dern, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC completion will be presented by President Wilson.

PRESENTATION OF CANDIDATES: Dean Ziebarth will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction: Dean Morse for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts, and for University College; Professor Goodman for the Institute of Technology; Assistant Dean McFarland for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Edwards for the College of Education; Assistant Dean Lund for the School of Business Administration; Assistant Dean Fitzgerald for the Law School; Dean Howard for the College of Medical Sciences; Associate Dean Clark for the Graduate School.

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

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Professor Edwin L. Haislet, Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations.

## *Order of Events*

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

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

**HAIL! MINNESOTA:** The University's Alma Mater song, sung by the audience and Professor 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:** Associate Professor Fleischer, organist.

*Postlude in F Major* - - - - - Bach

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

## *Candidates for Commissions*

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

### DEPARTMENT OF MILITARY SCIENCE AND TACTICS

#### **Second Lieutenant, Artillery**

George W. Greene, Jr., Minneapolis

#### **Second Lieutenant, Infantry**

Charles F. Jones, Park Rapids  
Arnold J. Osmundson, Nerstrand

Robert R. Wolff, St. Louis Park

#### **Second Lieutenant, Medical Service Corps**

Stuart H. Nolan, St. Paul

#### **Second Lieutenant, Quartermaster Corps**

Gerald E. Engstrom, Minneapolis

#### **Second Lieutenant, Transportation Corps**

William H. Davis, Robbinsdale

Bruce R. S. Johnson, St. Paul

### DEPARTMENT OF NAVAL SCIENCE

#### **Ensign, USN**

Michael J. Mc Cabe, St. Paul

#### **Second Lieutenant, USMC**

Martin L. Brandtner, Minneapolis

**DEPARTMENT OF AIR SCIENCE**

**Second Lieutenant, USAF Reserve**

Wendell L. Anderson, Minneapolis

James G. Lentz, Minneapolis

## *Candidates for Graduation*

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

### GENERAL COLLEGE

#### Associate in Arts

James Phaon Caldwell, St. Paul	Emil George Korbel, Hopkins
Stanley Andrew Elg, Minneapolis	Sigmund Stanley Kurosad, Minneapolis
Wallace John Halvorset, Minneapolis	Steven Michael Laven, St. Louis Park
Stafford Owen Hansen, Minneapolis	Louis G. Merchant, Minneapolis
Beverly Ann Ingle, Minneapolis	
Francis Eugene Koes, Minneapolis	

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

#### Associate in Liberal Arts

Harold Grant Jacot, Swanville	William John Swanson, Richfield
Stella Anastasia Katifori, Athens, Greece	Sharlene Diane Weymouth, Minneapolis
Peter Paul Quist, Minneapolis	

#### Bachelor of Arts

Donald Clarence Anderson, Golden Valley	Patricia M. Gladman Carlson, West St. Paul
Doris Elmonde Anderson, Sioux Falls, S.D., CUM LAUDE	Daniel Edward Cashman, Minneapolis
Patricia Fuller Arent, St. Paul, CUM LAUDE	Edwin Joseph Cashman, New Richmond, Wis.
Ramona Fletcher Berg, Blue Earth	George William Christenson, Minneapolis
Roger Cecil Berkner, Sleepy Eye	James Allan Collinge, Stillwater
Donald Floyd Bernstein, Billings, Mont.	Joanna W. S. Courteau, Porto Alegre, Brazil
Patricia Jeanne Bock, Minneapolis	Karl Richard Davidson, Emmons
Joanne Helen Boelke, Sanborn, CUM LAUDE	Thomas John Dols, Minneapolis, CUM LAUDE
Martin Louis Brandtner, Minneapolis	Barbara Jean Eastman, Minneapolis
Philip Monroe Broom, Minneapolis	Robert Norman Elliott, Minneapolis
George Hudson Brown, Winona	Gerald Edward Engstrom, Detroit Lakes
Stuart Campbell, Dalbo	



Roger William Frank, Winona  
 John Nathaniel Freeburg, Jr., Anoka  
 Elaine Glickman Galinson, Minneapolis, CUM LAUDE  
 Paul Clifton Gardner, Minneapolis  
 Robert Wallace Gilbertson, A.A., Minneapolis  
 Vianne Lorena Griffin, St. Paul  
 Ralph Marvin Gullickson, St. Paul, CUM LAUDE  
 Harvey Arlen Guttmann, Aberdeen, S.D.  
 Roger Hugo Hamann, Luverne  
 Ronald Nelson Handberg, Minneapolis  
 Hannah Harwick, Rochester  
 Joan Marcia Hedlund, Minneapolis  
 Matthew John Irons, St. Paul  
 Carol Marie Jacobi, Owatonna  
 Bruce Richard Sanborn Johnson, St. Paul, MAGNA CUM LAUDE  
 Lloyd Roy Johnson, Hastings  
 Melvin William Johnson, Jr., A.A., Minneapolis  
 Randall Landro Johnson, Robbinsdale, MAGNA CUM LAUDE  
 Nancy Ann Johnston, Minneapolis, MAGNA CUM LAUDE  
 Ronald Belle Johnston, Ada  
 Charles Frederick Jones, A.A., Park Rapids  
 Mary Catherine Coulehan Killary, Brawley, Calif.  
 Sandra Lea Kinyon, Minneapolis, CUM LAUDE  
 Thomas John Koors, St. Paul  
 John Richard Krachey, Minneapolis  
 Kurt William Kroschel, Minneapolis, CUM LAUDE  
 Kenneth John Krost, Mankato  
 Judith Helen Chase Kullberg, Minneapolis  
 Joan Eileen LaRiviere, West St. Paul  
 Richard Grant Larson, Minneapolis  
 Thomas Nicholas Limberis, Minneapolis  
 Elaine Freeman Litman, Boston, Mass.  
 Lois Miller Macek, Minneapolis  
 Susan Maria MacKey, Virginia  
 John Frank Martin, St. Paul  
 Donald Stanley Masler, Minneapolis, MAGNA CUM LAUDE  
 Robert Kingsley Maxwell, Winona  
 Patricia Ann McCart, Minneapolis, CUM LAUDE  
 Jerry Stephen Mihock, Minneapolis  
 Marlo Bruce Miller, Minneapolis  
 Jerrold Marshall Milstein, Minneapolis, CUM LAUDE  
 Donna Lou Nalewaja, St. Paul, CUM LAUDE  
 Lynn Romelle Nelson, Minneapolis  
 Mary Charlotte Newhall, Minneapolis  
 Richard Martin Ohnstad, Minneapolis  
 Marlene Mavis Olson, Minneapolis  
 Lawrence Walter O'Neill, A.A., St. Paul  
 Susan Gail Overby, Mound  
 Aija Pakalns, Svea  
 Louis Henry Peters, Lake City  
 James Gregory Potter, Minneapolis  
 Raymond Odell Restad, Minneapolis  
 Ronald Duane Rude, Duluth  
 Barbara Carol Sayer, Minneapolis  
 Gerald Karl Schmidt, A.A., Minneapolis  
 Lois Mary Schuppel, Minneapolis  
 Carol Dale Scribner, Minneapolis  
 Rose Zacks Segal, St. Louis Park, CUM LAUDE  
 David Alexander Seymour, St. Paul  
 Creighton Thomas Shay, Minneapolis  
 Gordon Donald Simons, Jr., St. Louis Park, MAGNA CUM LAUDE  
 Ella C. Mills Sisler, Grand Rapids  
 Melvin Thomas Stillman, Minneapolis, CUM LAUDE  
 James William Stockdill, Barrett  
 Barbara Speier Teeter, Wayzata, CUM LAUDE  
 Robert Lee Theodorson, Perham  
 Clifford Archie Thomas, Minneapolis  
 Gregory Arthur Thompson, Minneapolis  
 Gerald Robert Vizenor, Minneapolis  
 Michael Lawrence Walsh, St. Louis Park  
 Adele Warhol, Minneapolis  
 Harold Dean Wolden, Albert Lea

## UNIVERSITY COLLEGE

### Bachelor of Arts

Conrad Alexander Overgard, St. Paul

## INSTITUTE OF TECHNOLOGY

### Bachelor of Science

*Philip Durand Gunderson, Minneapolis, WITH DISTINCTION*  
*Matti Kert, Northfield*

*Robert LeMoyné Porter, Minneapolis, WITH DISTINCTION*  
*David LeRoy Stein, Minneapolis, WITH DISTINCTION*

### Bachelor of Aeronautical Engineering

Kent George Griffith, St. Louis Park

Edwin Bertan Wormwood, Minneapolis

### Bachelor of Chemistry

*Wadim Batorewicz, St. Paul, WITH DISTINCTION*

James Joseph Eaton, Minneapolis

### Bachelor of Civil Engineering

William Dale Harrison, Bagley  
Edward Wallace Olson, Sandstone

Walter Francis Shoemaker, St. Paul

### Bachelor of Mechanical Engineering

David Eugene Johnson, Willmar  
Dennis Roger Johnson, Ely  
Stephen Lloyd Langlie, New Richland

Robert Michael Parupsky, Minneapolis  
Kenneth Craft Schultz, Pelican Rapids  
Ali Asghar Vahhaji, Tehran, Iran

### Bachelor of Metallurgy

Gerald Edwin Gruenhagen, Minneapolis

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

## Bachelor of Science

Thomas Edward Cashman, Mankato, Agriculture	Karen Emelia Johnson, New Ulm, Home Economics
Harry Edward Fisher, Duluth, Forestry	Paul Jeffery Larsen, Minneapolis, Forestry
Norman Roy Halvorson, Gully, Agriculture	Frank Edward Salomonsen, Minneapolis, Forestry

# COLLEGE OF EDUCATION

## Bachelor of Science

Margaret Collins Ament, Waconia	August William Haugan, Jr., B.A., St. Paul
Donald Paul Anderson, B.A., Wayzata	Verona Bertha Stude Hogan, North St. Paul
Wendell Lee Anderson, Minneapolis, WITH DISTINCTION	Gretchen Elizabeth Hines Huntington, Cumberland, Wis.
Olga Bourassa, North St. Paul	Richard Thomas Jacobson, St. Paul
Jill Ann Christensen, Minneapolis	Austre Mikkelsen Johansson, Minneapolis
Dorothy Ann Christopher, Minneapolis	Ronald Belle Johnston, Ada
Margaret Pin Chu, Kaohsiung, Taiwan, China, WITH DISTINCTION*	Barbara June Keen, Bloomington
Mildred Mowry Conaway, Minneapolis	Khin Kyi, Rangoon, Burma
William Hampton Davis, Robbinsdale	Jerome David Larson, Minneapolis
Dorothy Jean Dobratz, Hutchinson*	Doris Virginia Leslie, Minneapolis
William Joseph Donahue, Minneapolis	Joan Marie Lindquist, A.A., Erie, Pa.
Mary Eleanora Drake, Long Beach, Calif.	Duncan Farquhar MacKenzie, Duluth
Corinne Brandon Eddy, A.A., St. Paul	Karen Joyce Martenson, Minneapolis
Mary Ann Anderson Elowson, A.A., St. Paul	Lynn Janice Miller, New York Mills
Dorothy Ann Cairns Evans, Albert Lea, WITH HIGH DISTINCTION	Jane Ann Nezworski, Ironwood, Mich.
Juliaette Gordon Forster, B.A., Edina	Wendel LeRoy Nies, Minneapolis
Gary Jon Hagen, Willmar	Jerome Lester Perron, White Bear Lake
Dorothy Lee Hall, Minneapolis, WITH DISTINCTION	Mildred Ann Peterson, Clear Lake
Julia Nannette Hauble, White Bear Lake	Jane E. Rogers Preston, White Bear Lake, WITH DISTINCTION
	Richard Joseph Rano, Hibbing
	Patricia Helen Robens, St. Paul Park
	Ida Marie Sather, Fosston, WITH DISTINCTION*

\* Nursing Education Curriculum.

Leonora Schimming, Minneapolis  
Marilyn Rae Schroeder, South St. Paul  
Helen Marian Sonju, Minneapolis  
Olga Holme Stanton, Robbinsdale  
Erwin Francis Stevenson, Angora

Peter Alvin Van Bockel, Bertha  
*Marie Ethel Wilson, Elmore, WITH  
DISTINCTION*  
Dorothea Gwen Townsend Winter,  
Excelsior

## Master of Education

Doris L. Kersting Anderson, B.S.N.,  
Minneapolis  
Mary Ann Louise Baas, B.S., Cincin-  
nati, Ohio  
Mary Eleanor Becker, B.S., St. Paul  
Margaret Ling Canfield, B.S.N.A.,  
St. Paul  
Thelma Unikia Freese, B.S.N., East  
Prairie, Mo.  
Lynn Brokke Lundin, B.A., Minne-  
apolis  
Barbara Ann Medeck, B.S.N., Man-  
kato

Marilyn Rose Mihelcic, B.S.N., Ely  
Lucile Mae Roberts, B.S., Decorah,  
Iowa  
Edna R. Schweitzer, Clare, Ill.  
Vivian Curley Sheridan, B.A., Jackson-  
ville, Fla.  
Charles Vernon Smith, B.S., LeSueur  
Marian Johanna Town, B.S.N.,  
St. Cloud  
Carol Ann Wennerstrom, B.S.N.,  
Eau Claire, Wis.  
Kathryn May Wollan, B.S.N., Oak  
Ridge, Tenn.

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

### Bachelor of Science

Mary Virginia Thorvig Buck, Minne-  
apolis, Home Economics Education  
Gaye Helen Gleason, Dundee, Home  
Economics Education

Donna L. Fretham Wolter, Waseca,  
Home Economics Education

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

James Carl Benson, Minneapolis,  
WITH DISTINCTION  
Paul Leland Billings, Wayzata  
Gerald Albert Bilski, St. Paul  
Stanley James Calof, St. Paul  
Gerald Edwin Gruenhagen, Minne-  
apolis

John Robert Hyzer, Gaylord, WITH  
DISTINCTION  
Roger Lowell Ingebritson, Albert Lea  
Daniel Lawrence Jacobwith, Minne-  
apolis  
Dwayne Chester Johnson, Alexandria  
Ralph Fredrick Lehner, Minneapolis

Alexander William McLeod, Duluth  
Willard Merrill Miller, St. Paul  
Vernon Peter Navratil, Glen Ullin,  
N.D.  
Stuart Howard Nolan, St. Paul  
Thor Clayton Olsen, Montevideo  
Ronald Harry Schneider, Westbrook,  
WITH DISTINCTION

Robert William Schultz, St. Paul  
Charles Peter Schwartz, Sandstone,  
WITH HIGH DISTINCTION  
Allan Gordon Sonsteng, Roseau  
Dean Carleton Woolstencroft, White  
Bear Lake  
John Lucas Zalusky, Minneapolis

## **Bachelor of Science in Business**

William Albert Anklam, Minneapolis  
Donald Duane Bartlett, St. Paul  
Harold Hodgson Dorland, Minne-  
apolis  
Perry Eugene Esping, Minneapolis  
Kenneth Roy Gangelhoff, Minne-  
apolis

Richard Lee Gerstner, St. Paul  
Robert Leonard Haggerty, B.S.,  
Northampton, Mass.  
Darrell David Lane, Detroit Lakes  
Paul Robert Larson, Minneapolis

## **Bachelor of Science in Economics**

Robert Ernest Schorn, A.L.A., Minneapolis

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

## **Bachelor of Agricultural Business Administration**

Donald Botten Larson, Hanska\*

## **LAW SCHOOL**

### **Bachelor of Laws**

Richard John Dols, B.A., Cologne  
Robert Turner Gustafson, B.S.L.,  
Spring Valley

David Joseph Kennedy, B.A., Minne-  
apolis  
Donald J. Lalor, B.A., Prior Lake

\* Degree conferred June 11, 1960.

# COLLEGE OF MEDICAL SCIENCES

## Bachelor of Science in Nursing\*\*

Ruth Irene Conley, Wrenshall  
Judith Anne Dewey, Richfield, WITH  
DISTINCTION  
Annette Susan Flaten, Fosston, WITH  
HIGH DISTINCTION  
Margaret Joyce Horn, Minneapolis  
Genevra Ann Howson, Minneapolis  
Margie Jayne Kling, Beulah, N.D.,  
WITH DISTINCTION

Jean Helen Luxon, Grand Rapids,  
WITH HIGH DISTINCTION  
Carol Jean Obenauf, Minneapolis,  
WITH DISTINCTION  
LauraMary Baskfield Ryan, Minne-  
apolis  
Judith Kay Uggen, Wells, WITH DIS-  
TINCTION

## Bachelor of Science in Nursing Administration

Minnie L. Bailey, B.S., Houston, Tex.  
Jessie Marie Hanson, Minneapolis,  
WITH DISTINCTION  
Mary Caroline Johnson, Minneapolis

Beatrice Louise Spencer, Owatonna,  
WITH DISTINCTION  
Dorothy Helen Thomas, Tampa, Fla.,  
WITH DISTINCTION

## Bachelor of Science

Ivy Budd, Bemidji, Public Health  
Nursing  
Wanda Rae Bull, A.A., Port Huen-  
eme, Calif., Public Health Nursing  
Marie A. Carney, Minneapolis, Public  
Health Nursing  
Marta Stiefel de Ayala, Cordoba,  
Argentina, Occupational Therapy,  
WITH DISTINCTION  
Marilyn Rose Hanson, Ogema, Public  
Health Nursing

Lorraine Helen Lindholm, Ortonville,  
Public Health Nursing, WITH DIS-  
TINCTION  
Emy Marie Langland Monk, Odin,  
Public Health Nursing  
Patricia Josephine Murphy, Minne-  
apolis, Public Health Nursing  
Karol Kleinschmidt Orr, Minneapolis,  
Occupational Therapy  
Rose Greeley Phelps, R.N., Genoa,  
Ill., Public Health Nursing  
Margaret Letitia Rota, Duluth, Public  
Health Nursing

## Master of Nursing Administration

Margaret Louise Barry, B.S., St. Louis  
Park  
Aleen Mary Jillson, G.N., B.S.,  
Miami, Fla.  
Harriet Brown Klock, B.S., St. Paul  
Nina Lee, B.S., Minneapolis

Marian Ann Lewis, B.S., New Era,  
Mich.  
Norma Jane Lyslo, G.N., B.S., Red-  
wood Falls  
Joy Deon Maugans, B.S., St. Paul  
Ida Marie Mullan, B.S., St. Paul

\*\* These degrees are conferred subject to the satisfactory completion of nursing practice prior to December 15, 1960.

Mary Frances Ochs, B.S., LeSueur  
Elizabeth Jane Phillips, B.S., Minne-  
apolis  
Elmina P. Price, B.S., Minneapolis  
Joyce Miriam Schowalter, B.S., Mil-  
waukee, Wis.

Gloria Jean Shutte, B.S., Eveleth  
Ruth A. Specht, B.A., Randolph, Kan.  
Charlotte Rose Tacke, B.S., St. Paul  
Lettie Jeannette Williams, B.S.,  
St. Louis, Mo.  
Eleanora H. Wolf, B.S., Minneapolis

## Master of Public Health

Dennis Oscar Gonguez, B.S., Stann  
Creek, British Honduras

Carlos Frederico Victoria Camacho,  
C.E., Dominican Republic

## GRADUATE SCHOOL

### Master of Arts

Ames Ekern Anderson, Minneapolis  
B.A. '58, University of Minnesota. Field of  
Concentration: Music.

Donald Howard Anderson, Ashland,  
Wis.

B. of Phil. '55, Northland College. Field of  
Concentration: Educational Administration.

Harriette Shirley Anderson, Bagley  
B.S. '56, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Karl Ramund Anselm, Minneapolis  
B.S. in Ed. '54, New York State College  
(Brockport). Field of Concentration: Curricu-  
lum and Instruction.

Gerald Milton Arndt, Rice Lake, Wis.  
B.A. '57, Northland College. Field of Con-  
centration: Curriculum and Instruction.

James Garfield Ashman, Elkader, Iowa  
B.A. '57, Luther College. Field of Concentra-  
tion: Educational Psychology.

Daniel Michael Barrett, St. Paul  
B.A. '59, College of St. Thomas. Field of Con-  
centration: Industrial Relations.

Edgar Albert Baseman, Huron, S.D.  
B.M. '50, Concordia College (Moorhead).  
Field of Concentration: Education.

Leonard George Bearking, New Leip-  
zig, N.D.

B.S. '51, Mayville State Teachers College.  
Field of Concentration: Educational Adminis-  
tration.

Boyd L. Berg, Brooklyn Center

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

Eugene Arnold Bergman, Duluth

B.S. '57, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Raymond Bingea, St. Paul

B.A. '50, Gustavus Adolphus College. Field of  
Concentration: English.

Thomas Wood Blomquist, Minne-  
apolis

B.A. '53, Dartmouth College. Major: History.  
Minor: Art. Thesis: Lucchese Commercial Ac-  
tivities in Genoa, 1186-1226.

Hartlen Leonard Boche, St. Paul

B.A. '51, Hamline University. Major: Soci-  
ology. Minor: Political Science. Thesis: Length  
of Pastoral Service and Church Growth: A  
Study of Methodist Churches in Minnesota.

Willie Clarence Bowden, Brunswick,  
Ga.

B.S. '51, Savannah State College. Field of  
Concentration: Industrial Education.

Michael Terence Boyle, Prior Lake

B.A. '54, St. John's University (Collegeville).  
Field of Concentration: Educational Psychology.

James Herold Brutger, St. Paul

B.A. '54, St. John's University (Collegeville).  
Field of Concentration: Art Education.

Robert Tilford Cameron, Duluth

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

David Charles Campbell, Windom

B.S. '50, St. Cloud State College. Field of  
Concentration: Curriculum and Instruction.

Shiang Chien, China

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

Marvin Allyn Clark, Robbinsdale

B.S. '56, St. Cloud State College. Major: Cur-  
riculum and Instruction. Minor: Educational  
Psychology. Thesis: Economic Understandings  
of Tenth Grade Students.

June Fleurette Cochrane, St. Louis  
Park

B.S. '56, University of Minnesota. Major:  
Physical Education. Minor: Educational Psy-  
chology. Thesis: The Construction of an In-  
door Golf Skills Test as a Measure of Golfing  
Ability.

Roger Marlow Colombo, White Bear  
Lake

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

William Fredrick Coulson, Belmond,  
Iowa

B.S. '49, Iowa State University. Field of Con-  
centration: Curriculum and Instruction.

Jeanette Isabel Croonquist, Minne-  
apolis

B.S. '43, B.S. '50, University of Minnesota.  
Field of Concentration: Curriculum and In-  
struction.

Edythe Serena Dahlgren, Farwell

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

Phillip Holiday De Wolfe, Kenyon

B.A. '51, St. Olaf College. Field of Concen-  
tration: Educational Administration.

Katherine Bergeson Douglas, St. Paul

B.A. '36, Macalester College. Field of Con-  
centration: Educational Psychology.

Donna Jean Drees, Minneapolis

B.S. in Ed. '55, Concordia Teachers College  
(Illinois). Field of Concentration: Educational  
Psychology.

Robert Joseph DuBrul, Columbus,  
Ohio

B.S.B.A. '59, John Carroll University. Field  
of Concentration: Industrial Relations.

Sidney Wayne Eckert, Park Forest,  
Ill.

B.S. '56, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Dewain Lemar Englund, Canby

B.S. '50, South Dakota State College of Agri-  
culture and Mechanic Arts. Field of Concen-  
tration: Agricultural Education.

Liang-Shing Fan, Formosa, China

B.A. '58, National Taiwan University. Field  
of Concentration: Economics.

James O. Faul, Minneapolis

B.A. '52, Augsburg College. Field of Con-  
centration: Music.

Virginia Marie Frank, Pequot Lakes

B.A. '59, Westmar College. Field of Con-  
centration: Library Science.

Fred Harold Freese, Bloomington

B.S. '57, Northern State Teachers College.  
Field of Concentration: Educational Admin-  
istration.

Evelyn Loduska Gaile, Minneapolis

B.A. '24, Carleton College. Field of Concen-  
tration: Curriculum and Instruction.

Robert Francis Gibson, Onamia

B.A. '56, University of Minnesota; B.S.Ed.  
'58, Wisconsin State College (Stevens Point).  
Field of Concentration: History.

Martha Grace Shu Gong, Kiangsu,  
China

B.A. '55, National Taiwan University. Field of  
Concentration: Comparative Literature.



Donald William Gray, Morris

B.A. *cum laude* '50, Asbury College. Field of Concentration: Library Science.

Burton L. Grover, Columbia Heights

B.S. with high distinction '54, University of Minnesota. Field of Concentration: Education.

Calvin Dewitt Gruver, Two Harbors

B.A. '57, University of Minnesota. Field of Concentration: History

Denis Henry Haines, Minneapolis

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

Pearl Evangeline Halvorson, Golden Valley

B.S. '52, St. Cloud State College. Field of Concentration: Art Education.

Richard Vance Harvey, Leroy

B.A. '52, Augsburg College. Field of Concentration: Educational Psychology.

George Edward Heen, Crosby-Ironton

B.A. '39, Minot State Teachers College. Field of Concentration: Educational Administration.

Willetta Esther Heidemann, Neillsville, Wis.

B.S. *summa cum laude* '57, Wisconsin State College (Eau Claire). Field of Concentration: Curriculum and Instruction.

Richard J. Hidani, Minneapolis

B.S. '57, Indiana State Teachers College. Field of Concentration: Educational Administration.

Sara Armfield Hill, St. Paul

B.A. '30, Agnes Scott College. Field of Concentration: Education.

Harriet Weil Hodgson, Minneapolis

B.S.Ed. with honors '57, Wheelock College. Field of Concentration: Art Education.

Robert Eugene Hollander, Cloquet

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

Carl Alfred Holmstrom, Buhl

B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Judson Paul Jasmin, Minneapolis

B.A. *cum laude* '59, University of Minnesota. Field of Concentration: Industrial Relations.

Harold Edwin Johnson, Ivanhoe

B.E. '32, Winona State College. Field of Concentration: Curriculum and Instruction.

James Arthur Johnson, Gheen

B.A. '58, University of Minnesota. Field of Concentration: Economics.

Jon Dennis Juola, Eveleth

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

Mary Belle KaDell, Highland Park, Ill.

B.A. '58, Northwestern University. Major: Child Development and Welfare. Minor: Psychology. Thesis: A Factor Analysis of the Vineland Social Maturity Scale and the Stanford Binet Intelligence Scale.

Ronald Saul Kaiser, Minneapolis

B.S. with distinction '59, University of Minnesota. Field of Concentration: Educational Psychology.

Margie Kallemeyn, Edgerton

B.A. '43, Calvin College. Field of Concentration: Curriculum and Instruction.

Norbert Henry Kerfeld, Little Fork

B.S. '49, St. Cloud State College. Field of Concentration: Educational Administration.

James Fletcher Kerfoot, White Bear Lake

B.S. '59, University of Minnesota. Field of Concentration: Educational Psychology.

Iftikhar Ahmad Khan, Karachi, Pakistan

B.A. '46, Allahabad University; M.A. '48, LL.B. '48, Lucknow University. Field of Concentration: English.

Elizabeth Joan Knop, LaCrosse, Wis.

B.A. '59, Viterbo College. Field of Concentration: Library Science.

Theodore Wayne Kobs, Edina

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

Dorothy Taraldsen Kozak, Valley City, N.D.

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

Ronald Edward Kramnic, Duluth

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

- Merle Lee Kruschke, Breckenridge  
B.A. '59, University of Minnesota. Field of Concentration: International Relations.
- Yoon Tai Kuark, Seoul, Korea  
B.B.A. '59, University of Minnesota. Field of Concentration: Economics.
- Alvira Kipp Lanz, Minneapolis  
B.S. '40, St. Cloud State College. Field of Concentration: Curriculum and Instruction.
- Louis Everett Larson, McDougal, Alaska  
B.A. '42, Gustavus Adolphus College. Field of Concentration: Geography.
- David Abram Laventhol, St. Petersburg, Fla.  
B.A. '57, Yale University. Field of Concentration: English.
- Milton Warren Legg, Champlin  
B.S. with distinction '57, University of Minnesota. Field of Concentration: Mathematics.
- Herbert David Levy, St. Paul  
B.S. '52, University of Minnesota. Field of Concentration: Educational Administration.
- David Lieberman, Minneapolis  
B.A. '48, University of Minnesota. Field of Concentration: Spanish.
- Emma Louise Tohms Liebreuz, Mound  
B.S. in Ed. with high honors '34, Ohio University; B.S. '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- George Robert Lonner, Butte, Mont.  
B.S.F.S. '59, Georgetown University. Major: International Relations. Thesis: Gustav Stresemann and the League of Nations.
- Margaret Sue Lund, Cedar Falls, Iowa  
B.A. '39, Iowa State Teachers College; M.A. '40, University of Wisconsin. Field of Concentration: Educational Psychology.
- Robert Kenneth Lundgren, St. Louis Park  
B.S. '52, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Helen Lillian Lundholm, Minneapolis  
B.S. with honors '51, Wisconsin State College (Superior). Field of Concentration: Curriculum and Instruction.
- Norbert William Maertens, Fairmont  
B.S. '58, Mankato State College. Field of Concentration: Educational Administration.
- William Michael Marchand, Bemidji  
B.S. '54, Bemidji State College. Field of Concentration: Speech and Theater Arts.
- Virgil Frank Massman, New Munich  
B.A. '57, St. John's University (Collegeville). Field of Concentration: Library Science.
- Virgil Frank Massman, New Munich  
B.A. '57, St. John's University (Collegeville). Field of Concentration: English.
- LaVern Luger McIntyre, Minneapolis  
B.S. '59, University of Minnesota. Field of Concentration: Art Education.
- Donald Wilbur Michels, Duluth  
B.S. '56, Bemidji State College. Field of Concentration: Curriculum and Instruction.
- Harold William Michie, South St. Paul  
B.A. '52, University of Minnesota. Field of Concentration: Educational Psychology.
- Robert Henry Graham Mitchell, Halifax, Nova Scotia, Canada  
B.S. with honors '57, University of Dalhousie. Major: Mathematics. Minor: Physics. Thesis: Modules Over the P-Adic Integers.
- William Francis Murray, Paradise, Calif.  
B.A. '58, Chico State College. Field of Concentration: Speech and Theater Arts.
- Cornelia MacGregor Nachbar, Minneapolis  
B.A. *cum laude* '36, Hamline University. Major: Journalism. Minor: Speech. Thesis: A Study of Media Use and Social Attitudes of Selected High School Seniors.
- Eleanor Lindblom Ohm, St. Louis Park  
B.S. '57, Valley City State Teachers College. Field of Concentration: Curriculum and Instruction.

Alden Marvin Olson, New Albin,  
Iowa

B.A. '52, Luther College. Field of Concentration: Educational Administration.

Marguerite Benson Olson, Hopkins  
B.S.Ed. with distinction '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Stewart George Patrick, Bird Island  
B.S. with distinction '54, University of Minnesota. Field of Concentration: Music.

Richard Grant Peleaux, Minnesota  
Lake

B.A. '53, St. Olaf College. Field of Concentration: Educational Administration.

Rohl Carlo Peterson, Northome  
B.S. '57, Bemidji State College. Field of Concentration: Educational Psychology.

Thomas Vere Philbrook, Minneapolis  
B.A. '58, University of Minnesota. Major: Sociology. Minor: Biostatistics. Thesis: Religion and Social Stratification: A Study of Three Large Urban Congregations.

Ida Mary Pladson, Fargo, N.D.  
B.S. '49, Moorhead State College. Field of Concentration: Curriculum and Instruction.

Joyce Theresa Povlacs, Akron, Ohio  
B.A. *summa cum laude* '59, Kent State University. Field of Concentration: English.

Ronald Radakovich, Calumet  
B.S. in Law '58, University of Minnesota. Field of Concentration: Industrial Relations.

Richard Charles Rademacher, St. Paul  
B.S. '53, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

Eugene Joseph Rafferty, Jr., Minneapolis  
B.A. '55, Lehigh University. Field of Concentration: Industrial Relations.

Donald Gene Rakowsky, Biwabik  
B.A. '50, University of Minnesota. Field of Concentration: Education.

Arnold Melvin Rehmann, St. Paul  
B.S. with distinction '53, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Edith Anne Reynolds, Minneapolis  
B.S. in Ed. '53, University of South Dakota. Field of Concentration: Educational Psychology.

Agnes Hedstrand Rhode, Silver Bay  
B.S. '57, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

Margaret E. R. Richardson, Austin  
B.A. '58, University of Minnesota. Field of Concentration: Library Science.

Alan Dale Riley, Paducah, Ky.  
B.A. '53, University of Minnesota. Field of Concentration: Educational Psychology.

Donnita Lamb Rogers, Kokomo, Ind.  
B.A. with honorable mention '59, Earlham College. Field of Concentration: English.

Alvin Eugene Rolland, Bode, Iowa  
B.A. '53, Iowa State Teachers College. Field of Concentration: Curriculum and Instruction.

Mary Lloyd Scharf, Minneapolis  
B.A. '58, DePauw University. Field of Concentration: Speech and Theater Arts.

Thomas G. Scheller, Minneapolis  
B.A. '51, St. Paul Seminary. Field of Concentration: Educational Psychology.

John Arthur Schoen, LeCenter  
B.S. '50, University of Minnesota. Field of Concentration: Educational Administration.

Jose Serebrier, Montevideo, Uruguay  
Graduate '54, Escuela Municipal de Musica (Uruguay); Graduate '58, Curtis Institute of Music. Major: Music. Minor: Spanish. Thesis: *Partita*—(for Full Symphony Orchestra, 1958-1960).

Gertrude McCarthy Shevlin, Scarsdale, N.Y.  
B.S. with distinction '60, University of Minnesota. Field of Concentration: Library Science.

Janice Mae Sisley, Wisconsin Rapids, Wis.  
B.S. '50, Wisconsin State College (Stevens Point). Field of Concentration: Curriculum and Instruction.

Sister Olga Graf, Rochester  
B.A. '49, College of St. Teresa. Field of Concentration: Educational Administration.

Sister Rose Immacula Brennan,  
St. Paul

B.A. '55, St. Catherine's College. Major: Music. Minor: Music Education. Thesis: Operatic Recitative: A Study of Its Development Based on Representative Works.

Eugene Harold Sprinkel, Minneapolis  
B.S. '56, University of Minnesota. Field of Concentration: Educational Psychology.

Arthur Allan Stahnke, St. Paul

B.A. '57, Bethel College. Field of Concentration: Political Science.

Arthur Valdemar Steffenson, Robbinsdale

B.S. '50, B.A. '50, Moorhead State College. Field of Concentration: Industrial Education.

Frank Charles Stever, Winona

B.S. '56, Winona State College. Field of Concentration: Curriculum and Instruction.

Ingeborg Stolee, Northfield

B.A. '31, St. Olaf College. Field of Concentration: English.

David T. Strange, Minneapolis

B.A. with honors '57, San Francisco State College. Field of Concentration: Art Education.

Lynn Cook Street, Osseo

B.S. '56, St. Cloud State College. Field of Concentration: Educational Administration.

Jerry Wayne Summers, Houston

B.S. '50, Winona State College. Field of Concentration: Educational Psychology.

Lynn Donald Swanson, Minneapolis

B.A. '49, University of Minnesota. Major: Sociology. Minor: Public Administration. Thesis: A Study of Curfew Ordinances in Large Cities.

Curtis Lee Swenson, Fairmont

B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Harry Nash Sykes, Lexington, Ky.

B.S. '52, Kentucky State College. Field of Concentration: Curriculum and Instruction.

Wai Yin Syn, Singapore, Malaya

B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Raymond Martin Szymanski, Abbotsford, Wis.

B.S. '50, Wisconsin State College (Stevens Point). Field of Concentration: Curriculum and Instruction.

Frank Joseph Thibault, Jr., St. Paul

B.A. '49, College of St. Thomas. Field of Concentration: Curriculum and Instruction.

Blake B. Traeder, Port Hueneme, Calif.

B.A. '57, Los Angeles State College. Field of Concentration: Educational Administration.

William A. Uhrich, Staples

B.S. '51, Wartburg College. Field of Concentration: Educational Administration.

John J. Van Bockel, Battle Lake

B.A. '58, University of Minnesota. Field of Concentration: Psychology.

Kasmer Vidruk, Winnipeg, Manitoba, Canada

B.Sc. '51, McGill University. Field of Concentration: Physical Education.

Roger LeRoy Wald, Roseville

B.A. *magna cum laude* '53, College of St. Thomas. Field of Concentration: Educational Psychology.

James Ronald Warren, St. Paul

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

James Douglas Watson, Bemidji

B.A. '54, Bemidji State College. Field of Concentration: Mathematics.

Vernon William Wenberg, Jr., Hibbing

B.S. '57, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

Antoinette Chapman Whitman, Ames, Iowa

B.A. '59, University of Minnesota. Field of Concentration: Library Science.

Margaret Jane Wilcox, Hudson, Wis.

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

Elayne Butler Wright, Minneapolis  
B.S. '53, Macalester College. Field of Concentration: Curriculum and Instruction.

Kaoru Yamamoto, Tokyo, Japan  
B.S. '53, University of Tokyo. Field of Concentration: Educational Psychology.

## Master of Arts in Public Administration

Thomas James Anderson, Ames, Iowa  
B.S. '56, Iowa State College. Major: Public Administration. Thesis: The Feasibility of Operating One-Man Police Patrol Cars on an Exclusive Basis in the Village of Richfield, Minnesota.

Woo Hyun Lee, Seoul, Korea  
LL.B. '50, Seoul National University. Field of Concentration: Public Administration.

## Master of Science

Arne Skytt Andersen, Brabrand, Denmark  
B.S. '57, Royal Veterinary and Agricultural College of Copenhagen. Major: Plant Pathology and Botany. Minor: Horticulture. Thesis: The Duration of Effectiveness of Activity of Systematic Fungicides in Wheat Seedlings Against Stem Rust.

David Leonard Dilcher, Anoka  
B.S. '58, University of Minnesota. Field of Concentration: Botany.

Oluchukwu Ekechukwu, Owerri, Nigeria

B.S. '55, Arizona State College (Tempe); B.Ch.E. '57, University of Minnesota. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Syntheses of Azines from 2-Aminoanthraquinone: The Formation of Linear Indanthrone.

William John Begue, Coon Rapids  
B.S. *summa cum laude* '53, College of St. Thomas. Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Studies on the Increased Nutritional Requirements of *Saccharomyces cerevisiae* (Fleishman Strain 139) Manifested at Increased Temperature of Incubation.

Roger James Forbord, St. Paul  
B.S. with high distinction '58, University of Minnesota. Field of Concentration: Agricultural Economics.

Mary Marjorie Blomquist, Dexter, Iowa  
B.S. '58, Iowa State College. Major: Home Economics. Minor: Statistics. Thesis: Thermal Properties of Blankets Composed of Wool and Man-Made Fibers.

James Kenneth Foster, Minneapolis  
B.S. with high distinction '58, University of Minnesota. Field of Concentration: Mathematics.

Tzu-chen Chang, Kiangsi, China  
B.S. '58, Taiwan Provincial Cheng Kung University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Studies Related to the Biogenesis of Gramine.

Walter Gensurowsky, Minneapolis  
B.S. with distinction '58, University of Minnesota. Major: Agricultural Economics. Minor: Statistics. Thesis: Impact of a Controlled Access Highway Upon Economic Organization of Farm Units.

John Stephen Connolly, Helena, Mont.  
B.A. *cum laude* '58, Carroll College (Montana). Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: A Study of Some Aspects of the Flash Photolysis of Thionine.

Patricia Mary Giovannetti, St. John's, Newfoundland, Canada  
B.Sc. *cum laude* '50, Saint Francis Xavier University. Field of Concentration: Home Economics.

Marilyn Catherine Couch, Jefferson City, Mo.  
B.S. '57, College of Saint Teresa. Field of Concentration: Home Economics.

Paul Robert Gustafson, Washington, D.C.  
B.Chem '49, University of Minnesota. Field of Concentration: Agricultural Botany.

Narayan Laxmanrao Halleppanavar,  
Dharwar, India

B.Sc.(Agr.) '49, University of Bombay; M.Sc. (Agr.) '53, Karnatak University. Major: Entomology. Minor: Plant Pathology. Thesis: A Study of the Relationship Between Density and Mortality of the Granary Weevils (*Sitophilus granarius* L.) Exposed to Insecticide-Treated Wheat.

Laxmikant Rangrao Hirekerur, India

B.Sc.(Agr.) with distinction '52, Karnatak University. Major: Soils. Minor: Agricultural Biochemistry. Thesis: Characterization of Clay in Some Great Soil Groups by X-Ray Diffraction Patterns.

Nellie Merritt King, Concordia, Mo.

B.S. in Ed. '42, University of Missouri. Field of Concentration: Home Economics.

Johng Ki Lim, Seoul, Korea

B.S. '58, University of Minnesota. Major: Plant Genetics. Minor: Botany. Thesis: Genetic Variability in Germinating Ability of *Zea mays* L. at Low Temperatures.

Charles Wesley Miller, Hillside, N.J.

B.A. '58, Montana State University. Major: Plant Pathology. Minor: Botany. Thesis: Ecologic Variability in Stem Rust Reactions of Kubanka Wheat.

Roxy Ru-Jien Ni, Taipei, China

B.S. '58, Taiwan Provincial Cheng-Kung University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Biogenesis of Cannabidiol.

Norman James Norton, Percy, Ill.

B.A. '58, Southern Illinois University. Field of Concentration: Botany.

Carmen Delia Santana, Rio Piedras,  
Puerto Rico

B.S. with high honors '56, University of Puerto Rico. Field of Concentration: Analytical Chemistry.

Duane Paul Sather, Minneapolis

B. of Phys. with high distinction '59, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: A Higher Order Stationary Phase Problem Involving Two Parameters.

Eric Gordon Schleder, Winona

B.S. '57, Winona State College. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: The Relation of Certain Nematode Species to the Development of Fusarium Wilt of Flax.

Rafael Acosta Sison, Bautista, Pangasinan, Philippines

B.S. in Ag.Eng. '56, Araneta Institute of Agriculture. Field of Concentration: Agricultural Economics.

George William Sornson, Minneapolis

B.B.A. '57, University of Minnesota. Field of Concentration: Business Administration.

Al Worth Stinson, Monroe, N.C.

B.S. '49, North Carolina State College; D.V.M. '56, University of Georgia. Major: Veterinary Anatomy. Minor: Zoology. Thesis: An Electron Microscopic Study of the Bovine Endometrium.

Wesley Roy Swanson, McIntosh

B.M.E. '58, University of Minnesota. Field of Concentration: Business Administration.

## Master of Science in Aeronautical Engineering

Brian Kenneth Hannula, Minneapolis

B.A. *cum laude* '52, University of Minnesota; B.S. in Aero.E. '59, United States Naval Postgraduate School. Field of Concentration: Aeronautical Engineering.

Orville Wendell McGuire, Amoret,  
Mo.

B.S. in Ed. '52, Central Missouri State College; B.S. in Aero.E. '59, United States Naval Postgraduate School. Field of Concentration: Aeronautical Engineering.

Paul Edward Rubbert, Minneapolis

B.S. with high distinction '58, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Investigation of the Velocity Distribution in the Wake of an Axially Symmetric Body.

## Master of Science in Chemical Engineering

Glenn Leroy Damerell, Minneapolis

B.Ch.E. with distinction '58, University of Minnesota. Major: Chemical Engineering. Minor: Organic Chemistry. Thesis: Studies of the Coalescence Frequency in Agitated Two-Phase Liquid Systems.

## Master of Science in Civil Engineering

Haralambos Argyriou Apostolopulos,  
Athens, Greece

B.C.E. '58, University of Minnesota. Field of Concentration: Civil Engineering.

Fu Chang, Liaoning, China

B.S. in C.E. '57, Gonzaga University. Field of Concentration: Civil Engineering.

Chih-Kuo Ko, Taipei, Taiwan, China

B.S. in Engr. '56, National Taiwan University. Field of Concentration: Civil Engineering.

Muhammad Bashir Minhas, Gujranwala, Punjab, Pakistan

B.C.E. '59, N.E.D. Government Engineering College. Field of Concentration: Civil Engineering.

Siddiq Abdul Sattar, Karachi, Pakistan

B.S. '58, University of the Punjab. Field of Concentration: Civil Engineering.

Carlos Alberto Solares, Guatemala,  
Guatemala, Central America

Graduate '59, Universidad de San Carlos. Field of Concentration: Civil Engineering.

## Master of Science in Dermatology

Lealand L. Clark, Pleasant Grove,  
Utah

B.A. '52, M.D. '56, Columbia University. Major: Dermatology. Minor: Pathology. Thesis: The Vascular Effects of Parenteral Mecholyl (acetyl-beta-methylcholine) in Atopic Dermatitis.

## Master of Science in Electrical Engineering

Joseph Thurmond Maupin, Excelsior

B.S. in E.E. with distinction '47, University of Kentucky. Major: Electrical Engineering. Minor: Mathematics. Thesis: Transistor Circuit Feedback Analysis, and Constant Resistance Stage Design.

Owen Lloyd Nelson, International  
Falls

B.S. with distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Chemical Activation of the Oxide-Coated Cathode in an Atmosphere of Alkaline Earth Metal Vapor.

## Master of Science in Industrial Engineering

Dean Merritt Akins, St. Louis Park

B.S. with distinction '58, University of Minnesota. Major: Industrial Engineering. Minor: Business Administration. Thesis: Effects of Various Fibrous Metallic Filler Combinations on Physical Properties of Epoxy Resin Systems Used in Industrial Tooling Applications.

Douglas Harry Anderson, Minneapolis

B.E.E. with distinction '48, B.S. '57, University of Minnesota. Field of Concentration: Industrial Engineering.

## Master of Science in Mechanical Engineering

Richard Reed Dahlen, Lake Park

B.S. with distinction '58, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: An Investigation of Flame Temperatures and Flame Speeds of Propane-Air Flame Kernels.

## Master of Science in Medicine

Fred Fletcher Whitcomb, Rochester

B.A. '49, Yale University; M.D. '53, Columbia University. Major: Medicine. Minor: Pathology. Thesis: Bile Pigments of Jaundice.

## Master of Science in Pathology

Edward Leonard Segal, Minneapolis

B.S. '51, B.A. *magna cum laude* '53, M.D. '53, University of Minnesota. Major: Pathology. Minor: Hematology. Thesis: The Study of Surgically Excised Pulmonary Granulomas with Gomori's Methenamine-Silver Nitrate Stain.

## Master of Science in Surgery

Ara Vahan Doumanian, Rochester

B.A. '47, French College (Beirut); B.A. '49, M.D. '53, American University of Beirut. Major: Surgery. Minor: Pathology. Thesis: Experimental Deep Venous Insufficiency in the Dog.

George Schimert, Minneapolis

M.D. '42, Friedrich Wilhelm University. Major: Surgery. Minor: Pathology. Thesis: Certain Aspects in the Design and Construction of Bubble and Film Oxygenators.

## Master of Social Work

Charles H. Cooper, Pittsburgh, Pa.

B.Ed. '50, Duquesne University. Field of Concentration: Social Work.



## Certificate of Specialist in Education

Claereda Marjorie Dethmers, New  
Ulm

B.A. '50, Macalester College; M.A. '59, University of Minnesota. Field: School Psychological Services.

Edmond Harvey Rubin, Hopkins

B.A. '50, M.A. '53, University of Minnesota. Field: School Psychological Services.

## Doctor of Philosophy

Robert Neils Andersen, St. Paul

B.S. '51, M.S. '53, University of Nebraska. Major: Agronomy. Minor: Agricultural Botany. Thesis: Investigations of the Basis of Selective Action of Dalapon. Major Adviser: Prof. A. R. Schmid.

Bertram Barer, Brooklyn, N.Y.

B.S. cum laude '51, Syracuse University; M.A. '57, University of Minnesota. Major: Speech and Theater Arts. Minor: English. Thesis: A Rhetorical Analysis of the American Presentational Social Theatre of the Thirties. Major Advisers: Profs. D. W. Thompson and R. L. Scott.

Torab Bassiri, Shiraz, Iran

Licentiate '36, University of Teheran; Graduate '50, University of London. Major: Education. Minor: History and Philosophy of Education. Thesis: Aspects of American College Teaching Which Have an Implication for Higher Education in Iran. Major Adviser: Prof. G. H. McCune.

William David Blackley, Lake Crystal

B.S. with honor '53, Mankato State College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Deuteration of Aromatic Compounds. Major Adviser: Prof. W. M. Lauer.

Frank Raymond Braun, Minneapolis

B.S. '48, M.A. '51, University of Minnesota. Major: Education. Minor: Political Science. Thesis: A Study of the Relationships in the Planning for School Buildings Between the City Planning Agencies and School Authorities in American Cities Over 100,000 Population. Major Adviser: Prof. O. E. Domian.

William S. Caldwell, St. Paul

B.A. magna cum laude '43, M.A. '54, University of Minnesota. Major: Political Science. Minor: Journalism. Thesis: The Organization and Operations of American Information and Propaganda Activities in Early Postwar Italy. Major Adviser: Prof. C. H. McLaughlin.

Frederick Irwin Dretske, Waukegan,  
Ill.

B.S.E.E. '54, Purdue University; M.A. '58, University of Minnesota. Major: Philosophy. Minor: Mathematics. Thesis: Space, Time and Substance: A Philosophical Inquiry. Major Adviser: Prof. May Brodbeck.

Rodney David Driver, Minneapolis

B.S. with high distinction '53, M.S. '55, University of Minnesota. Major: Mathematics. Minor: Electrical Engineering. Thesis: Delay-Differential Equations and an Application to a Two-Body Problem of Classical Electrodynamics. Major Adviser: Prof. Lawrence Markus.

Owen Warner Dukelow, Minneapolis

B.A. '47, M.A. '53, University of Minnesota. Major: Philosophy. Minor: History. Thesis: Herbert Butterfield: The Epistemology of a Working Historian. Major Adviser: Prof. P. L. Holmer.

Glen Walter Erickson, St. Paul

B.S. with high distinction '55, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Formal Techniques in the Lamb Shift Calculation. Major Adviser: Prof. D. R. Yennie.

D. Kent Halstead, Minneapolis

B.S. in M.E. '53, Northwestern Technological Institute; M.B.A. '57, University of Minnesota. Major: Business Administration. Minor: Industrial Engineering. Thesis: The Derivation and Evaluation of an Individual-Stock Formula Investment Plan. Major Adviser: Prof. B. B. Sutton.

Carl Blixseth Heggstad, Windom

B.A. magna cum laude '52, M.D. '57, University of Minnesota. Major: Anatomy. Minor: Physiology. Thesis: The Influence of Growth Hormone upon Fetal Development in the Rat. Major Adviser: Prof. L. J. Wells.

Klaus Jacob Herrmann, Minneapolis  
B.A. '54, M.A. in P.A. '58, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: Politics of Administrative Reorganization in Minnesota State Government, 1949-1959. Major Adviser: Prof. L. M. Short.

Ronald William Hinz, Avoca, Iowa  
B.A. '49, St. Olaf College; M.S. '55, University of Minnesota. Major: Bacteriology. Minor: Veterinary Pathology. Thesis: Mammalian Cells in Culture for Host Cell-Virus Relationship Studies. Major Adviser: Dr. J. T. Syverton.

Yu-tseng Hsi, Tsing-Po, China  
B.S. '40, National Central University; M.S. '54, University of Minnesota. Major: Botany. Minor: Horticulture. Thesis: Taxonomy, Distribution and Relationships of the Species of *Cirsium* Belonging to the Series *Undulata*. Major Adviser: Prof. G. B. Ownbey.

Arthur Lennart Kalleberg, Minneapolis  
B.A. *cum laude* '52, M.A. '57, University of Minnesota. Major: Political Science. Minor: Sociology. Thesis: An Analysis of the Nature and Validity of the Idea of a Science of Politics in Recent Political Theory. Major Adviser: Prof. M. Q. Sibley.

Roger George Krohn, Blue Earth  
B.A. '53, St. Olaf College; M.A. '57, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: Science and Social Change: Effects of New Institutional Locals on the Traditional Structure of Science. Major Adviser: Prof. D. A. Martindale.

Ernest Bruce Lee, Brainerd  
B.S. in M.E. '55, M.S. in M.E. '56, University of North Dakota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Methods of Optimum Feedback Control. Major Adviser: Prof. Katsuhiko Ogata.

John Albert Lindberg, Jr., Brooklyn, N.Y.  
B.S. '54, Wagner College; M.A. '57, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: On the Theory of Algebraic Extensions of a Normed Algebra. Major Adviser: Prof. B. R. Gelbaum.

Patrick Daniel Lynch, Minneapolis  
B.A. '50, St. John's University (Collegeville); M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of Expectations of the Superintendent's Exercise of Social Power in the State of Minnesota. Major Advisers: Profs. O. E. Domian and E. P. Torrance.

Amritlal Chhaganlal Parekh, Bhaj-nagar, India  
B.Sc. '52, Samaldas College and Sir P. P. Institute of Science; M.S. '54, University of Bombay. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Quantitative Cytochemical Studies of the Mast Cell. Major Adviser: Prof. David Glick.

Thomas Bradley Reddy, Amesbury, Mass.  
B.S. '55, Yale University. Major: Physical Chemistry. Minor: Analytical Chemistry. Thesis: Electrochemical and Acid-Base Studies in Dimethylsulfoxide as Solvent. Major Adviser: Prof. I. M. Kolthoff.

Edgar Verne Roberts, Jr., Minneapolis  
B.A. *summa cum laude* '51, M.A. '52, University of Minnesota. Major: English. Minor: History. Thesis: The Ballad Operas of Henry Fielding, 1730-1732: A Critical Edition (*The Author's Farce, The Grub-Street Opera, The Lottery, The Mock Doctor*). Major Adviser: Prof. J. D. Hurrell.

Gerald Garland Robinson, Barnum  
B.S. with high distinction '55, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: Some Effects of the Hormone Prolactin on the Reproductive Behavior of the Brown-headed Cowbird (*Molothrus ater*). Major Adviser: Prof. D. W. Warner.

Mervine Rosen, Wilmington, Del.  
B.S. with honors '51, University of Delaware. Major: Physics. Minor: Mathematics. Thesis: Semi-classical Approximations in High Energy Scattering Theory. Major Adviser: Prof. D. R. Yennie.

Erhart Alfred Schinske, Bellingham, Wash.  
B.A. '40, Hamline University; M.A. '53, University of Minnesota. Major: Speech and Theater Arts. Minor: Education. Thesis: An Experimental Study of the Relationship Between Political Frame of Reference, Critical Thinking Ability, and Confidence as a Speaker in Recall and Rationalization by Listeners. Major Adviser: Prof. D. K. Smith.

Douglas Martin Schwegel, Gary, Ind.  
B.A. *cum laude* '50, Lake Forest College;  
M.A. '56, George Washington University.  
Major: English. Minor: History. Thesis: The  
Use of American Motifs by British Poets of  
the Romantic Period. Major Advisers: Profs.  
F. J. Montgomery and G. R. Stange.

Edward Harvey Selden, St. Louis Park  
B.S. '40, Wisconsin State College (Superior);  
M.A. '47, University of Minnesota. Major:  
Educational Psychology. Minor: Education.  
Thesis: A Study of Self-Structure and Level  
of Aspiration in Delinquent and Non-Delin-  
quent Boys. Major Adviser: Prof. C. G.  
Wrenn.

Fredric R. Steinhauser, St. Paul  
B.S. with highest honors '49, Mankato State  
College; M.A. '51, University of Chicago.  
Major: Geography. Minor: Education. Thesis:  
A Geographic Study of the Southeast Minne-  
apolis Planning Area. Major Adviser: Prof.  
J. O. M. Broek.

Fred Scott Van Vleck, Clearwater,  
Neb.

B.Sc. with distinction '56, M.A. '57, Univer-  
sity of Nebraska. Major: Mathematics. Minor:  
Statistics. Thesis: Bifurcation of an Invariant  
Manifold from a Periodic Solution of a Differ-  
ential System. Major Adviser: Prof. Lawrence  
Markus.

George Clyde Welton, Mora

B.A. *magna cum laude* '48, Hamline Univer-  
sity; M.S.W. '50, University of Minnesota.  
Major: Social Work. Minor: Sociology. Thesis:  
An Application of the Thurstone Scaling Tech-  
nique to an Area of Social Work Practice.  
Major Adviser: Prof. J. C. Kidneigh.

Joseph Porter Woodring, Jr., St. Paul

B.S. '54, Pennsylvania State University; M.S.  
'58, University of Minnesota. Major: Ento-  
mology. Minors: Zoology and Statistics. The-  
sis: The Biology of *Ceratozetes calpinus*  
Berlese, *Schleoribates laevigatus* Koch, and  
*Oppia neerlandica* Oudemans (Oribatei), with  
a Description of All Stages. Major Adviser:  
Prof. E. F. Cook.

## Doctor of Philosophy in Surgery

Donald Bernard Shahon, St. Paul

B.S. '44, M.D. '49, Tufts College. Major:  
Surgery. Minors: Pathology and Physiological  
Chemistry. Thesis: The Uptake of Radioactive  
Phosphorus by Human and Experimental Tu-  
mors. Major Adviser: Dr. O. H. Wangensteen.

## Academic Costume

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

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

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

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

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

(In the order of march)

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

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

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



# UNIVERSITY OF MINNESOTA

## *Senior Reception*

*August, 1960*

- The members of the graduating class, their families and friends, are invited to attend the Senior Reception immediately after the commencement exercises. The Reception will be held on the Terrace of the Coffman Memorial Union. In case of rain the Main Ballroom will be used.
- Those in the receiving line will be President and Mrs. Wilson, Mr. Richard Stanford, President of the Coffman Union Board of Governors, and Mr. James R. Spensley, President of the Minnesota Student Association.
- Assisting in the Reception are members of the Union Board of Governors and its committees, and of the following honorary societies: Chimes, Grey Friars, Iron Wedge, Mortar Board, and Phoenix.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.

THE  
UNIVERSITY OF MINNESOTA

Announces Its

*December Commencement*

*1960*

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



## *University of Minnesota*

### THE BOARD OF REGENTS

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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

The Honorable Charles W. Mayo, M.D., Rochester  
Second Vice President

The Honorable James F. Bell, Minneapolis

The Honorable Edward B. Cosgrove, Le Sueur

The Honorable Daniel C. Gaincy, Owatonna

The Honorable Richard L. Griggs, Duluth

The Honorable Robert E. Hess, White Bear Lake

The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable A. J. Olson, Renville

The Honorable Herman F. Skyberg, Fisher

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As a courtesy to those attending functions, and out of respect for the character of the building, be it resolved by the Board of Regents that there be printed in the programs of all functions held in 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 ninth 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 physicians, lawyers, engineers, social workers, educators, journalists, dentists, veterinarians, farmers, businessmen—community and civic leaders in all fields—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 151,000 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 28,000 students on its Minneapolis, St. Paul, Duluth, and Morris Campuses, the University offers, through its Schools of Agriculture and its General Extension Division, 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, 4-H Club agents, and recreation and health consultants give effective 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 the diverse research laboratories on its four campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Mayo Foundation at Rochester, the Hormel Institute at Austin, and at University Hospitals, University scientists at any one moment are working on countless research experiments of vital importance to the future health and welfare of us all. These projects deal with such matters as cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, nuclear energy, school surveys, and new varieties of grains, fruits, and flowers, 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, Radio Station KUOM, the University Theater, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings to more than a million and a half people in the area it serves, artists and lecturers of quality and talent.

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic, living thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. 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 disease. Further contributions have made it possible for the University to build the Masonic Memorial Hospital and the Veterans of Foreign Wars Cancer Research Center and are making it possible to construct Diehl Hall (which will house the biological-medical library and additional medical research facilities).

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 number 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 1959 LEGISLATURE granted the University \$49,068,181 for general maintenance during the 1959-61 biennium. In addition, the University will receive \$8,879,748 for University Hospitals; \$4,141,355.69 for special appropriations, including special extension and research activities; and \$14,457,150 for new buildings, land, and for the rehabilitation of existing buildings.

Each year the University publishes and widely circulates a summary financial statement, which is available to anyone upon request as is 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 1959-60 showed that the University received \$90,177,067.15 and spent \$90,177,626.52. This includes a total of \$16,228,815.94 received from student tuition and fees, hospital and other department receipts; \$1,254,107.29 from intercollegiate athletics; \$15,243,194.78 from such services as dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, the University Theater, and the Health Service, and from the revolving funds; and \$20,265,209.92 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. Also, \$2,659,035.91 came from federal appropriations for instruction, research, Agricultural Extension, and plant expansion.

Of the total of \$90,177,067.15 which the University received for 1959-60, \$34,526,703.31, or 38.3 per cent, came from the state.

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

## Order of Events

**ASSEMBLING OF THE AUDIENCE:** As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Miss Helen Garvey, Graduate Student, 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 PRELUDE:** From 7:30 to 8:00 p.m., Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

### PROCESSIONAL:

*Prelude in E Flat Major* - - - - - Bach

**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: Professor William S. Howell, Ph.D., College of Science, Literature, and the Arts, Marshal; Assistant Professor Norman W. Moen, Ph.D., General College, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Associate Dean Huntington Miller, LL.B., General Extension Division; Colonel Roy K. Kauffman, USA, Professor of Military Science; Vice President and Administrative Assistant Stanley J. Wenberg, M.A.; Dean Robert B. Howard, M.D., College of Medical Sciences; Colonel Arthur W. Dern, USAF, Professor of Air Science; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Dean Harold Macy, Ph.D., Institute of Agriculture; Vice President Malcolm M. Willey, Ph.D., Academic Administration; President Conrad A. Elvehjem, Ph.D., The University of Wisconsin, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Dean of Students Edmund G. Williamson, Ph.D.; The Reverend George F. Hall, Adviser to Lutheran students and staff members on the Minneapolis Campus of the University; Dean Walter W. Cook, Ph.D., College of Education; Vice President Laurence R. Lunden, LL.D., Business Administration; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations; Dean George P. Hager, Ph.D., College of Pharmacy; Professor Robert J. Keller, Ph.D., Graduate School; Dean Horace T. Morse, Ph.D., General College; Captain Cary H. Hall, USN, Professor of Naval Science; Mr. Arnold Walker, Department of Radio and Television Broadcasting; Associate Professor Don Davies, Ed.D., College of Education, Marshal; Professor Orrin C. Turnquist, Ph.D., Institute of Agriculture, Marshal.

**PRESENTATION OF COLORS:** As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the

## *Order of Events*

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

THE NATIONAL ANTHEM: The entire audience and Mr. Walker, 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 F. Hall.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson.

COMMENCEMENT ADDRESS: President Conrad A. Elvehjem, The University of Wisconsin, *The Future Is Yours*.

CONFERRING OF ROTC CERTIFICATES: Vice President Willey will introduce Colonel Kauffman, Captain Hall, and Colonel Dern, who will present the candidates for commissions in their respective branches of the Armed Services. Certificates of ROTC completion will be presented by President Wilson.

PRESENTATION OF CANDIDATES: Vice President Willey will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction: Associate Dean Miller for the General Extension Division; Dean Morse for the General College; Dean McDiarmid for the College of Science, Literature, and the Arts, and for University College; Associate Dean Verbrugge for the Institute of Technology; Dean Macy for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Cook for the College of Education; Dean Grambsch for the School of Business Administration; Dean Hager for the College of Pharmacy; Dean Howard for the College of Medical Sciences; Professor Keller for the Graduate School.

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

## Order of Events

**SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION:** Professor Edwin L. Haislet, Executive Secretary of the Minnesota Alumni Association and Director of the Department of Alumni Relations.

**PRESENTATION OF DIPLOMAS:** With Dean Williamson presiding, 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 Professor Keller to President Wilson, who will confer the degrees.

**HAIL! MINNESOTA:** The University's Alma Mater song, sung by the audience and Mr. Walker, 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:** Associate Professor Fleischer, organist.

*Fugue in E Flat Major* - - - - - Bach

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

## *Candidates for Commissions*

Subject to the completion of all curriculum requirements at the close of the 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, Army Intelligence Corps**

Thomas H. Correll, St. Paul

David K. Lewis, Madison, Wis.

#### **Second Lieutenant, Infantry**

Thomas H. Pesck, Minneapolis

#### **Second Lieutenant, Quartermaster Corps**

Gerald G. Alexander, West St. Paul

#### **Second Lieutenant, Transportation Corps**

Richard L. Liffbrig, Mazeppa

### DEPARTMENT OF NAVAL SCIENCE

#### **Ensign, SC, USN**

Douglas J. Lary, Northfield

### DEPARTMENT OF AIR SCIENCE

#### **Second Lieutenant, USAF Reserve**

Harry F. Murphy, Minneapolis

## *Candidates for Graduation*

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

### GENERAL EXTENSION DIVISION

#### General Engineering Certificate

George Theodore Gilbert, Bayport

Stephen Joseph Votruba, Minneapolis

### GENERAL COLLEGE

#### Associate in Arts

Gary Jerome Aanes, St. Paul

Louis Harold Abramson, Minneapolis

Robert Michelet Adam, St. Paul

David Lee Anderson, Robbinsdale

Harold Nicholas Andres, Jr., St. Paul

Melvyn Dale Awes, Winona

Michael James Barker, Minneapolis

James E. Beard, Minneapolis

Bruce John Becker, Minneapolis

Robert Paul Behrend, Minneapolis

Theodore Raymond Beise, Minneapolis

Charles William Benson, Minneapolis

John Howard Billingsley, Minneapolis

Jerry Howard Braesch, Robbinsdale

Glenda Doreen Bratlie, Minneapolis

John LaRue Brenneman, Minneapolis

Gene Harris Buffington, Richfield

Mary Jo Carlsen, Edina

John Evald Carlson, St. Paul

Morris Jay Carpenter, Robbinsdale

James Leon Cepress, St. Paul

Floyd Raymond Dahlberg, Jr., Minneapolis

Judith Anne Doar, Minneapolis

Roger Floyd Eller, Minneapolis

James Edwin Elliott, Minneapolis

William Edwin Elmquist, Minneapolis

Richard Lewis Freedman, St. Paul

James Raymond Friederich, Minneapolis

Richard Franklin Ganske, Wayzata

Richard Allen Gaudette, Minneapolis

John J. Giere, Minneapolis

Douglas Dawes Gillespie, Cambridge

Richard Benjamin Gillette, White Bear Lake

John Wesley Gilmer, Dassel

Cary Jon Halverson, West St. Paul

Judy Anne Halverson, Minneapolis

Donald Elmer Halvorson, Minneapolis

James Wesley Hayes, St. Paul

Jerome Ronald Hempel, St. Cloud

Dennis Edwin Herkal, Minneapolis

James Clifford Hollenbeck, Minneapolis

Richard Palmer Holton, Minneapolis  
Herbert Stanley Hoppenstedt,  
St. Paul

John Douglas Hughes, Minneapolis

George V. James, St. Paul

Barry Phillip Johnson, Minneapolis

Karl Steven Johnson, St. Paul

Richard Lee Johnson, International Falls  
Aristides Steve Kereakos, Rochester  
Stephen Conrad Koepcke, Excelsior  
William Lewis Kormanik, Minneapolis  
Terry Thomas Labatt, Hopkins  
Allan Jerome LaClair, St. Paul  
Gary Vincent Larrive, St. Paul  
Anthony Dean LaVelle, Hopkins  
Mary A. Le Sage, Superior, Wis.  
Bruce Franklin Lindgren, Richfield  
James Jon Lund, Minneapolis  
Dennis Eugene Mack, Minneapolis  
Gerald E. Macken, Rochester  
Roger John Makowski, Minneapolis  
Edward Frank Martin, Minneapolis  
Robert Anton Martinson, St. Paul  
Ronald Wayne Matson, Minneapolis  
Robert Charles McCart, Minneapolis  
Peter Harold McHardy, Hibbing  
William Carlyle McNurlen, Minneapolis  
Mervyn LeRoy Meredith, Minneapolis  
Donald Raymond Metzger, St. Paul  
Ann Almo Mortenson, Minneapolis  
Charles Gary Mykleby, St. Louis Park  
Cynthia Clare Neary, Minneapolis  
Dale Roland Nelson, Minneapolis  
Gerald Warren Nelson, Minneapolis  
Douglas Francis Neuberger, Minneapolis  
Roger John Nicholson, Minneapolis  
Harold Markus Nirschl, Fergus Falls  
Dennis Herbert Norbeck, St. Paul  
Ronald Leroy Nyberg, Minneapolis  
William Lovell Olsen, Minneapolis  
Karen Diane Olstad, Minneapolis  
David Walter Owens, Robbinsdale  
Katherine Abbie Owens, Minneapolis  
Louis Henry Paff, Minneapolis  
Richard Anthony Palmer, Minneapolis

Byron Leslie Panushka, St. Paul  
Jacqueline Anne Pavelka, Hopkins  
Bambridge Evans Peterson, Lake City  
Carolyn Joan Pinomaki, Minneapolis  
Walter Sherwood Rca, Minneapolis  
Gary Edward Reitan, Minneapolis  
Richard Lee Reynolds, Minneapolis  
David Lyn Roam, Minneapolis  
Elaine Myrna Rose, Minneapolis  
Kathleen Theresa Ryan, St. Paul  
Eugene Edward Scharenbroich, St. Paul  
James Joseph Shubert, Minneapolis  
Carmen Pauline Siewert, Minneapolis  
James Louis Sirbasku, South St. Paul  
Lynn Adair Stenzel, Alexandria  
Michael Peter Stoms, St. Paul  
Harry Roy Stone, New Ulm  
Eileen Anne Sullivan, Minneapolis  
Dennis John Sundelius, Minneapolis  
Einar Carl Svang, Minneapolis  
Robert Carl Swanson, Minneapolis  
Zaiga Martinsons Terauds, Minneapolis  
William Lawrence Thibault, St. Paul  
Barbara Lonnis Towler, Minneapolis  
Robert Lewis Tuttle, Minneapolis  
Thomas Arthur Van Ornum, Richfield  
John Joseph Vesel, Nashwauk  
Lawrence Mathew Vesel, Nashwauk  
Joseph Eugene Vogel, St. Paul  
LaRoy Carl Watson, Minneapolis  
Edward Leo Watzl, St. Paul  
Kenneth Ray Weeks, Champlin  
Ronald Fredric Weseman, Minneapolis  
David Cameron Whitcomb, St. Paul  
Michael Dennis Wilk, St. Paul  
Gerry George Wold, Minneapolis  
James Ernest Young, Minneapolis  
David Joseph Zandlo, Minneapolis  
Marvin Alan Zeff, St. Paul



# COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

## Associate in Liberal Arts

Eugene Andrew Alexander, Minneapolis  
Judith Ann Carroll, St. Louis Park  
Donald L. Engstrom, Minneapolis  
Jo Ann Helen Fanter, Ceylon  
Sharon Mae Jude, Wheaton  
John George Karjala, Duluth  
Marilyn Joy Kossof, Minneapolis

Le Roy Richard Larson, St. Paul  
Edwin Anthony Rath, Minneapolis  
Richard John Schneider, Loretto  
Sandra Diane Solland, St. Paul  
Joel Jon Torgerson, Minneapolis  
Floyd Carol Vare, Minneapolis  
Sandra Jeane Zalik, Minneapolis

## Bachelor of Arts

Carol Josephine Ackland, Minneapolis  
Gail L. Gunther Adams, Minneapolis,  
CUM LAUDE  
George Raymond Algren, Minneapolis  
Barbara Jean Anderson, Hopkins,  
CUM LAUDE\*  
Merlin Lee Anderson, Bertha  
Helen Constance Atcas, Hopkins  
Diane Ruth Baker, Detroit Lakes  
Ann Marguerite Banovetz, Duluth,  
CUM LAUDE  
Donald Keith Benson, Minneapolis  
Martha Bereziuk, Hibbing  
Donna Louise Bischoff, Excelsior  
Lloyd Adolph Blazek, Pine City,  
MAGNA CUM LAUDE  
Edward Albert Boissineau, A.A., Escanaba, Mich.  
Janet Marie Burke, Minneapolis  
Richard John Cahill, A.A., Minneapolis  
Paul Loizeaux Canner, St. Paul,  
SUMMA CUM LAUDE  
Mary Ann Capko, Minneapolis  
Arlene Teckla Carlson, Minneapolis  
Sharon Natalie Casper, Alamosa, Colo.  
James Ernest Chelberg, North Branch  
Arnold Bernard Clickstein, Lynn, Mass.

Thomas Henry Curtis, Milwaukee, Wis.  
Michelle Marie Davison, Minneapolis  
Karen Anne Severson Donnelly, St. Paul  
Marsanne Donohoo, Minneapolis  
William Edward Douglas, A.L.A., Minneapolis  
Frank Alphonse Eldredge, St. Paul  
Kenneth Robert Ellis, Minneapolis  
Thomas Maxwell Fawcett, Renville  
Mary Agnes Flesner, Brainerd  
Margery Delores Forare, A.L.A., Minneapolis  
Ralph Allen Foster, Minneapolis,  
CUM LAUDE  
Robert John Freer, Farmington,  
MAGNA CUM LAUDE  
Ross Alexander Gamble, Minneapolis  
David Clarence Gildenzopf, A.A., Lindstrom  
Roger Louis Gilles, St. Louis Park  
Leone Keile Green, Minneapolis  
John Ralph Hadd, St. Paul, CUM LAUDE  
James Maglorie Hahn, Minneapolis  
Werner Richard Halvorson, Wayzata  
Thomas James Harrigan, Stillwater  
Beverly Diane Hayden, Rockford, Ill.,  
MAGNA CUM LAUDE  
Carl Jerome Hedberg, Minneapolis

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\* Degree conferred as of August 18, 1960

Kenneth Andrew Heilman, St. Paul  
 Eugene Delano Hogenson, Madison  
 Lake  
 Albert Ervin Howell, Jr., Minneapolis  
*Norcen Sander Humphrey, Minne-  
 apolis, CUM LAUDE*  
 Vance Lauteen Huntsinger, Worth-  
 ington  
 Patrick Michael Hurley, Minneapolis  
 Leonard Jankowski, Minneapolis  
*Dwayne Marvin Jones, St. Paul, cum  
 LAUDE*  
 Lily Ann Jones, Remer  
 Richard Le Roy Jorandby, Minne-  
 apolis  
 Judith Karcher, Minneapolis  
 Gail Schwartz Katz, Minneapolis  
 Lois Ann Kinneberg, Spring Grove  
 Carol Eileen Steffy Klepperich,  
 Minneapolis  
 John Michael Kosmalski, Minneapolis  
 Lorrie Rice Kutcher, Moorhead  
 Gerald Herbert Kvist, Ranier  
 Jacqueline Marion Lathrop, St. Paul  
 Deanna Isabelle Le Barron, Austin  
 Norman Sigurd Lillegard, A.A., Man-  
 kato  
*Patricia Marie Lines, Minneapolis,  
 CUM LAUDE*  
 John Ralph Long, A.A., Minneapolis  
 Lawrence Patrick Markovich, Minne-  
 apolis  
 Mark A. Mathison, A.A., Rochester  
 Thomas Gregory Matthews, Minne-  
 apolis  
 Marno Milo McDermott, Jr., Austin  
 Hoyt Thornton McIntyre, Albert Lea  
 Rodney Charles Melka, Minneapolis  
 Robert William Middleton, Rob-  
 binsdale  
 Stephen Karl Miller, Minneapolis  
 Mark Emmons Moore, Minneapolis  
 Mary Catherine Motherway, Hibbing  
 Harry Franklin Murphy, Minneapolis  
 Robert William Neale, Ivanhoe  
 Robert Owen Nelson, Minneapolis  
 Linda Lee Nordaune, Mahanomen  
 Merle Chester Olson, Alexandria  
 Harvey Livingston Parker, Jr., Mound  
 Kenneth Allan Parsch, Minneapolis  
 Thomas Homer Pesck, Minneapolis  
 Elaine Janet Pestorious, Albert Lea  
 David Melvin Plum, St. Paul  
 Duane Roger Pogue, Minneapolis  
 Charles Elwood Pratt, Jr., Tioga,  
 N.D.  
 Maria Pshenichny, Minneapolis  
 Gordon LeRoy Pullen, Echo  
 John Harrison Reeder, Minneapolis  
 Sandra J. Mohn Rice, Minneapolis  
 John Lackie Robertson, St. Paul  
*Michael Jerome Rockler, Minneapolis,  
 MAGNA CUM LAUDE*  
 Patrick Eugene Rodgers, A.A., Anoka  
*Kathleen Blake Rogers, Minneapolis,  
 MAGNA CUM LAUDE*  
 Alan Lee Rubel, Minneapolis  
 James Philip Schaenzler, St. Paul  
*Lois Klein Schochet, St. Paul, cum  
 LAUDE*  
 Margaret Joan Schultz, Sanborn, Iowa  
 Ernie Lloyd Sellman, Taylors Falls  
*Adrienne Merle Serbine, St. Paul,  
 MAGNA CUM LAUDE*  
 Tamara C. Shian, Minneapolis  
 Larry Weston Shobe, Minneapolis  
 Jerold James Simonson, St. Paul  
 Brenda Lee Smith, A.L.A., Minne-  
 apolis  
 Douglas Wayne Snyder, A.A., Minne-  
 apolis  
*Leif Ivar Solberg, Minneapolis,  
 SUMMA CUM LAUDE*  
 James Arthur Soukup, Owatonna  
 JoAnn Carole Sperling, Detroit Lakes  
 Eugene Russell Strantz, St. Paul  
 Donald Bernard Strei, Bellingham  
 Camilla Grace Strobbe, Moline, Ill.  
 Joseph Martin Sullivan, Jr., Chisholm  
 James Fordham Sutherland, Minne-  
 apolis  
*Paul Herbert Thomas, Minneapolis,  
 CUM LAUDE*  
 Joseph Tuetzer, St. Paul  
 Thomas Eldridge Tyler, St. Louis  
 Park  
 Judith Carolyn Vogel, Wayzata  
 Miriam Eileen Voracek, St. Paul  
*Paule Wannebo, Paris, France, cum  
 LAUDE*

Jon Wentworth Webber, Austin  
Orville Marion Wellslager, Jr., Minne-  
neapolis  
Paul Lawrence Westerlund, Minne-  
apolis

Richard Walter White, St. Louis Park  
Richard Stanford Zeglen, Minneapolis  
Carol Jean Zimmerman, Robbinsdale,  
CUM LAUDE

## UNIVERSITY COLLEGE

### Bachelor of Arts

Gordon Mac Farlane Dunkley, Edina

## INSTITUTE OF TECHNOLOGY

### Certificate in Science

Wayne Russell Markison, West St. Paul

### Bachelor of Science

James Robert Datta, Winona, WITH  
DISTINCTION  
Raymond Sheldon Hess, Minneapolis,  
WITH DISTINCTION

Charles Kenneth Knox, Jr., Minne-  
apolis  
Andrew Perlbachs, Minneapolis,  
WITH DISTINCTION

### Bachelor of Aeronautical Engineering

Ronald Eugene Albrecht, St. Paul  
William James Astleford, Minncapo-  
lis, WITH DISTINCTION

Thomas Walter Hughes, Robbinsdale,  
WITH DISTINCTION  
Charles William Rainer, Forest Lake

### Bachelor of Agricultural Engineering

Gordon Ernest Bock, Minneapolis

### Bachelor of Architecture

Carl John Erickson, Minneapolis  
Roland Russell Erickson, Minneapolis  
Fredric Earl Melby, Rochester, WITH  
DISTINCTION  
William H. Nara, Hibbing

Ralph Charles Olson, B.A., Duluth  
James Edward Rydeen, Minneapolis  
Clinton LeRoy Sathrum, B.A, Wana-  
mingo, WITH HIGH DISTINCTION

## **Bachelor of Chemical Engineering**

James Wendell Kovala, St. Paul

## **Bachelor of Civil Engineering**

Bruce Wallace Baumann, South St.  
Paul

*Donald Nicholas Holzmer, Hastings,*  
WITH DISTINCTION

Luther David Nelson, Excelsior  
Robert Charles Ramsdell, Jr., Minne-  
apolis  
William James Wandersee, Buffalo

## **Bachelor of Electrical Engineering**

James Edward Fancher, Minneapolis

## **Bachelor of Geological Engineering**

John Frederick Spletstoeser, Waconia

## **Bachelor of Geophysics**

Lymann T. Johnson, Houston

## **Bachelor of Mechanical Engineering**

Leo George Adams, Minneapolis  
Gene William Bunde, St. Paul  
Dale Allen Knutson, B.S., Little Falls  
Ronald Francis Kocher, Minneapolis  
James Frank Liska, Hopkins

Sheldon Wayne Peterson, A.A, Tri-  
mont  
Sheldon Joel Resig, St. Paul  
Alden Junius Schoess, A.L.A., Minne-  
apolis  
Merle Dennis Schule, North St. Paul

## **Bachelor of Metallurgy**

Richard Kielty, Minneapolis

## **Bachelor of Mining Engineering**

Douglas Charles Trask, Mound

## **Bachelor of Physics**

Taylor Applegate Smith, Shreveport,  
La.

Donald William Wieriman, Minne-  
apolis

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

## Bachelor of Science

- Paul John Arend, St. Paul, Forestry  
Ardis Merchant Arendt, St. Paul,  
Home Economics  
Gerald Norman Beach, International  
Falls, Agriculture  
Richard Heber Bishop, A.A., Pequot  
Lakes, Agriculture  
Donald Robert Breiland, Thief River  
Falls, Agriculture  
Karen Louise Brown, Robbinsdale,  
Home Economics  
Donald Joseph Buysse, Minneota, Ag-  
riculture  
*John Dale Engels, Chicago, Ill., For-  
estry, WITH DISTINCTION*  
Roland Orlen Gertjens, Fulda,  
Forestry  
Joan Nielsen Groe, Emmons, Home  
Economics  
*Duane Donald Hacklander, Blue  
Earth, Agriculture, WITH DISTINC-  
TION*  
Carroll James Hillesland, Nelson, Ag-  
riculture  
Mary Jane Marjorie Jurgens, Willmar,  
Home Economics  
William Walter Kauth, Wisconsin  
Rapids, Wis., Forestry  
Richard Henry Kruger, Wabasha, Ag-  
riculture  
*Roland Roy Larter, Lancaster, Agri-  
culture, WITH DISTINCTION*  
William Wesley LeBarron, Austin,  
Forestry  
Judith Ann LeMay, St. Paul, Home  
Economics  
David Kent Lewis, Madison, Wis.,  
Forestry  
Rex Gary Lindberg, St. Louis Park,  
Agriculture  
David Welton Loveless, Wells, Agri-  
culture  
Delmer Dean Matasovsky, Lakefield,  
Agriculture  
Terrence Charles McKnight, White  
Bear Lake, Agriculture  
Frederick Bowler Morlock, St. Paul,  
Agriculture  
Vernon Edwin Oberg, Walnut Grove,  
Forestry  
Richard Orian Paulson, Dawson,  
Agriculture  
*Gene Verle Peterson, Fisher, Agri-  
culture, WITH DISTINCTION*  
Roger John Pulkrabek, Angus, Agri-  
culture  
Gary Alden Roam, Minneapolis, For-  
estry  
Janice Elizabeth Schaefer, Robbins-  
dale, Home Economics  
Ronald Dean Sether, Jackson, Agricul-  
ture  
Paul Fredrick Smith, Minneapolis,  
Forestry  
Robert Leif Steiro, Boulder Junction,  
Wis., Forestry  
Donald Victor Swedberg, Pillager,  
Agriculture  
Roger Julian Turnquist, Murdock,  
Agriculture  
Robert M. Wiggins, Green Bay, Wis.,  
Forestry

## COLLEGE OF EDUCATION

### Bachelor of Science

Lynn Owen Adams, Rochester  
Barbara May Anderson, Excelsior

*Elaine Mildred Hummel Anderson,  
Litchfield, WITH HIGH DISTINCTION*

- Nancy Sue Anderson, Minneapolis  
 Jean Leslie Steinberg Baer, St. Paul  
 Sandra Lee Barnes, Edina, WITH DISTINCTION  
 Gloria Ann Bengtson, Dassel  
 Dean Gilbert Berntsen, Minneapolis, WITH DISTINCTION  
 June Marie Nelson Carlson, B.A., Dubuc, Saskatchewan, Canada  
 Judith Helen Christian, Adrian  
 Bonnie Jean Christoffersen, Ogema, Wis., WITH DISTINCTION\*  
 Rosemarie Carol Cooper, Minneapolis  
 Bethel Marie Dahl, Bisbee, N.D.  
 Janice Rae Dahl, Faribault  
 Joanne M. Deal Dobberstein, A.L.A., Wheaton  
 Richard Thomas Earl, B.A., Minneapolis  
 Kathleen Eleanor Erickson, St. Paul, WITH DISTINCTION  
 Bernadine Margaret Feldman, Prior Lake, WITH DISTINCTION\*  
 Nancy L. W. Fesler, Minneapolis  
 Judy Mae Hogrefe Fick, A. A., Austin  
 Willis Alvin Finifrock, Barnum  
 Anna Loraine Fogarty, R.N., Chicago, Ill.\*  
 Edna Mac Fordyce, Minneapolis\*  
 Jeanne Jones Fox, Minneapolis, WITH DISTINCTION  
 Betty Marlene Frazee, Olivia  
 Marilyn Johnson Froland, Hopkins  
 Royce Allen Fuller, Renville  
 Helen Leona Gibbon, Milnor, N.D.  
 Anita Joy Gold, Minneapolis  
 Lois Marie Gotfredson, Mora  
 Naomi Miriam Gottstein, Minneapolis  
 Marisue Green, Minneapolis, WITH HIGH DISTINCTION  
 Gladys Gustafson, Maple Plain  
 Ruthye Evangeline Gustafson, Minneapolis, WITH HIGH DISTINCTION\*  
 Mary Jean Hage, Minneapolis, WITH DISTINCTION  
 Barbara Sue Harris, St. Paul  
 Carol Ann Henrikson, Decphaven  
 Ione Beverly Henry, B.B.A., Minneapolis  
 Lois Jean Hokanson, Minneapolis  
 Regina Benigna Humphreys, Eddystone, Pa.\*  
 Arloine V. Dolan Johnson, Minneapolis  
 Delores Marlene Johnson, Osage, Iowa, WITH DISTINCTION\*  
 Thomas Henry Johnson, Robbinsdale  
 Albert Julius Kampa, Minneapolis  
 James Joseph Kappelhoff, A.A., St. Paul  
 Geraldine Marie Kleeman, Morton  
 Gordon Dale Knutson, Mound  
 Carolyn Louise Hirsch Koemptgen, St. Paul, WITH DISTINCTION  
 Phyllis Jean Koppy, St. Paul  
 Geraldine Kyle, White Bear Lake  
 Janice Caryn Lagerquist, Minneapolis, WITH DISTINCTION  
 Beverly Arleen Laing, Minneapolis, WITH DISTINCTION  
 Susan Angela Lampe, St. Paul  
 Dorothy Ann Lances, Montevideo  
 Luanne Jean Lemberg, Culver, WITH DISTINCTION  
 Larry Lee Leslie, Delavan, WITH DISTINCTION  
 Victoria Bowman Lewis, Minneapolis  
 Jean Harriet Lindberg, Minneapolis  
 Patricia Louise Linderman, Minneapolis, WITH HIGH DISTINCTION  
 Marlys Ann Livermore, Fairmont  
 Marie Jeannette Magnuson, B.A., Dennison  
 Velma Marie Manthey, Cloquet, WITH DISTINCTION  
 Roderic Gawain Marschke, St. Paul  
 Patricia Joanne Maywald, Albert Lea  
 Mae Colleen McWecny, Edgar, Wis.\*  
 Jean Louise Miller, Kenneth Square, Pa., WITH DISTINCTION\*  
 Margaret Marie Miller, A.A., Minneapolis  
 Barbara Jean Morey, R.N., Greene, Iowa, WITH DISTINCTION\*

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\* Nursing Education Curriculum

Judith Larsen Nelson, St. Paul, WITH  
DISTINCTION

Jane Ann Nezworski, Ironwood, Mich.

Sylvia Eleanor Nissila, Markham,  
WITH DISTINCTION\*

Dean Harvey Odegard, St. Paul

Ursela Oettinger, Duluth

Diane Gail Hageman Patterson,  
Bloomington

Bette Jean Peltola, B.A., Richfield

Adrian Peyrat, Minneapolis, WITH  
DISTINCTION

R. Jeannette Upton Porter, Minne-  
apolis

Roger James Porter, Minneapolis

Richard Joseph Rano, Hibbing

Robert Bruce Roessel, A.A., Minne-  
apolis

Phyllis Adrienne Rovelsky, Ironwood,  
Mich.

Antoinette Fortunata Sarico, Minne-  
apolis

Adrienne Merle Serbine, St. Paul,  
WITH HIGH DISTINCTION

Francis John Simonsen, Minneapolis

Harold James Skokan, B.S.N., Minne-  
apolis\*

Linda Starr Smiley, Mason City, Iowa

Bonnie Marie Thompson Snater,  
Minneapolis

Marlen Bennett Sorum, Pelican  
Rapids

Kathleen Margaret Stevens, Mound

Mary Helen Sundell, Minneapolis

Gladys Turk Thompson, B.A., Min-  
neapolis

Nancy Ann Westerberg, Columbia  
Heights, WITH HIGH DISTINCTION

Judith Kay Wilson, St. Paul

Shirley Ann Winter, Minneapolis

Louise Marie Wuertz, A.A., Austin,  
WITH DISTINCTION

## Master of Education

Ruth Irene Fuerstenau, B.S., Cedar  
Rapids, Iowa

Mary Margaret Kelly, B.S.N., Lincoln,  
Neb.

Doris Eleanor Yokie, B.S.N., Minne-  
apolis

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

### Bachelor of Science

Juanita Marie Aagard, Dunnell, Home  
Economics Education

Phyllis June Knutson Beckman, Hous-  
ton, Home Economics Education

Arlene Ione Bergjord, Minneapolis,  
Home Economics Education

Dennis Harold Carlson, Worthington,  
Agricultural Education

Sue Crowell, A.L.A., Golden Valley,  
Home Economics Education, WITH  
DISTINCTION

Donna Jane Frecberg, Clarissa, Home  
Economics Education

Kirsten Glenice Giving, St. Paul,  
Home Economics Education

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\* Nursing Education Curriculum

George Allen Johnson, Granite Falls, Agricultural Education  
*James Melvin Langmo, St. Peter, Agricultural Education, WITH HIGH DISTINCTION*  
Loren Harold Lindholm, B.A., Ortonville, Agricultural Education  
Myrna Helen Moreland, Dodge Center, Home Economics Education  
Richard Alan Osmundson, Mabel, Agricultural Education

*Edwin Robert Poore, Stillwater, Agricultural Education, WITH DISTINCTION*  
James Leonard Rabehl, St. Paul, Agricultural Education  
Margaret Gjernes Richards, Oklee, Home Economics Education  
Ronald Frederick Rieke, Fairfax, Agricultural Education  
Lyle Mason Ross, Ellendale, Agricultural Education  
Arnold Robert Wells, Clinton, Agricultural Education

## SCHOOL OF BUSINESS ADMINISTRATION

### Bachelor of Business Administration

Melroy LaVerne Aslakson, Red Wing  
Roger William Boyce, Minneapolis  
Hubert Wayne Boyer, Aitkin  
Vernon Gene Carlson, Rushford  
Willis D. Cook, Austin  
Charles Howard Elmer, Moline, Ill.  
David Earl Erickson, Minneapolis  
Henry Halverson Gower, Austin  
David Roy Herzog, St. Louis Park  
*Thomas Walter Hughes, Robbinsdale, WITH DISTINCTION*  
James Charles Karosich, Eveleth  
Douglas John Lary, Northfield  
Erwin Israel Leizer, Waterloo, Iowa

Richard Louis Liffrig, Mazeppa  
Malcolm John Mahaffey, Minneapolis  
Peter Dallas Medchill, St. Paul  
Russell Arden Melgaard, Warren  
Barbara Lynne Montgomery, La Crosse, Wis.  
Robert Edward Raab, St. Paul  
Thomas Merritt Robbins, St. Paul  
John Peter Skalbeck, Sacred Heart  
Roy Merrill Swanson, Minneapolis  
John David Sward, Galesburg, Ill.  
*Darrell Erwin Tilleskjoer, Anoka, WITH DISTINCTION*

### Bachelor of Science in Business

Helmar Norman Anderson, La Crescent  
Richard Erwin Bastable, Minneapolis  
John Arlon Bogard, Mankato  
Thomas Patrick Bowman, A.A., Minneapolis  
Richard George Dewhurst, Stillwater  
Georgine Johnson Edblom, Hallock  
Robert Allen Hogan, A.L.A., White Bear Lake  
Richard Allan Huntington, Hampton, Iowa  
Robert Dale Koss, South St. Paul

Donald H. A. Kurtzahn, Minneapolis  
James Wilbur May, Minneapolis  
Hugo Richard Meisser, Minneapolis  
Kenneth Otto Olson, Lake City  
Clifford Allan Renna, Fertile  
William Matthew Shaw, Minneapolis  
Thomas William Smeed, Jr., Minneapolis  
Ronald Alvin Stockdill, Golden Valley  
Emanuel von Koenig, St. Paul  
Daniel Joseph Wegleitner, St. Paul  
Raymond James Zierden, Minneapolis



## **Bachelor of Science in Economics**

Ronald Charles Peterson, Minneapolis

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

### **Bachelor of Agricultural Business Administration**

George Evan Vitalis, Taylors Falls

## **COLLEGE OF PHARMACY**

### **Bachelor of Science in Pharmacy**

Norman Tolchiner, Minneapolis

## **COLLEGE OF MEDICAL SCIENCES**

### **Bachelor of Science in Nursing Administration**

*Dolores Cleon Peterson, Effie, WITH DISTINCTION*

### **Bachelor of Science**

Caroline May Bartels, Hopkins, Public Health Nursing

Barbara Ann Mahoney, Hibbing, Public Health Nursing

Judith Alberta Ohs, Minneapolis, Public Health Nursing

Jonathan Allen Parsons, B.A., Minneapolis, Medicine

Karen Hassis Swanson, Minneapolis, Public Health Nursing, WITH DISTINCTION

### **Master of Nursing Administration**

Dolores Elizabeth Schiller, B.S., Winona

# GRADUATE SCHOOL

## Master of Arts

Carl G. Aanonsen, Princeton, N.J.

B.A. '58, Luther College. Field of Concentration: Educational Administration.

Richard Henry Acker, Brooklyn Center

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

Mohamed Said Aitchaalal, Setif, Algeria

Graduate '58, University of Lausanne (Switzerland). Major: International Relations. Thesis: The Algerian Problem in the United Nations.

Maxwell Eugene Alvord, Long Lake

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

Mary Adeline Andresen, Duluth

B.A. '42, University of Michigan. Field of Concentration: Library Science.

Wayne S. Applebaum, St. Louis Park

B.S. '59, University of Minnesota. Field of Concentration: Educational Psychology.

Cyrne J. Arendt, Two Harbors

B.S. '53, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

John Hill Barcroft, Memphis, Tenn.

B.A. '59, Brown University. Major: History. Minor: English. Thesis: Political Patronage Under the Duke of Buckingham, 1616-1628.

Joanne Roehr Barr, Chicago, Ill.

B.A. '56, Miami University. Field of Concentration: Child Development and Welfare.

Marilyn Margaret Barthol, St. Paul

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

Vernon Stanley Bennett, Balsam Lake, Wis.

B.S. '55, Wisconsin State College (Eau Claire). Field of Concentration: Educational Administration.

Lyle Frederick Benson, Montevideo

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

Joseph Charles Bentley, Provo, Utah

B.A. with honors '59, Brigham Young University. Field of Concentration: Educational Psychology.

Eugene Merrill Berndt, Breckenridge

B.S. '55, Moorhead State College. Field of Concentration: Curriculum and Instruction.

Philip Besonen, St. Louis Park

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

Erwin Henry Bitz, Anamoose, N.D.

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

Robert Lee Bonawitz, Moorhead

B.S. '59, University of Minnesota. Field of Concentration: Industrial Education.

Michael Arthur Bosanko, Minneapolis

B.A. '52, B.S. '54, University of Minnesota. Field of Concentration: American Studies.

Terry Martin Butorac, Hibbing

B.S. '57, St. Cloud State College. Field of Concentration: Industrial Relations.

William Albert Buttery, Platteville, Wis.

B.S. '57, Wisconsin State College (Platteville). Field of Concentration: Industrial Education.

Ruth Elizabeth Carroll, White Bear Lake

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

Charles Raymond Chamberlin, Edina

B.A. with high distinction '58, State University of Iowa. Field of Concentration: Curriculum and Instruction.

Ping-Chii Cheng, Poutze Chiayi, I'ormosa

B.A. '54, National Taiwan University. Field of Concentration: Political Science.

Rajendranath Singh Chowdhary,  
Etawah, UP., India

B.A. '46, Agra University; Certificate in S.S. and Adm. '56, The London School of Economics and Political Science. Major: Industrial Relations. Thesis: Does Industrial Recreation Pay? A Pilot Study Conducted in Four Selected Companies in the Twin Cities.

Duane Marland Christ, Lakota, Iowa

B.S. '53, Iowa State College. Field of Concentration: Mathematics.

Robert G. Collison, Richfield

B.S. '50, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Patrick Lawrence Downey, Plattsburg,  
Mo.

B.A. '59, St. Benedict's College. Field of Concentration: History.

Gordon Ross Eastwood, Perth, Australia

B.Ed. '53, Cert. Ed. Adm. '53, B.A. '58, University of Western Australia. Field of Concentration: Education.

Frank Henry Epp, Altona, Manitoba,  
Canada

B.A. '56, Bethel College (Kansas). Field of Concentration: Journalism.

Thomas Henry Fahcy, Jr., South St.  
Paul

B.A. '51, College of St. Thomas. Field of Concentration: Educational Psychology.

J. Joy Ganyo, Warroad

B.S. *cum laude* '52, University of Minnesota. Field of Concentration: Speech and Theater Arts.

Harry S. Gaples, Jr., St. Cloud

B.A. '57, University of Minnesota. Major: Mathematics. Minor: Business Administration. Thesis: Equivalence of Different Approaches to Lebesgue Integration.

Donald Henry Gillquist, Minneapolis

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

Eugene Arlen Glader, Cambridge

B.A. '55, Wheaton College (Illinois). Field of Concentration: Physical Education.

Robert Leland Glass, Reno, Nev.

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

Seymour Gross, Brooklyn, N.Y.

B.A. '57, Brooklyn College. Major: Child Development and Welfare. Minor: Psychology. Thesis: The Relationship of Functional Verbal Ability and Environmental Stimulation in Grade School Children of Average Intelligence.

Marian Dekker Hall, Minneapolis

B.A. '37, Calvin College; M.A. '38, University of Michigan. Major: Child Development and Welfare. Minor: Educational Psychology. Thesis: Concepts of Physical Causality in Normal and Brain-Damaged Sibling Pairs Matched for Mental Age.

Gary David Hansen, Firth, Idaho

B.S. '58, Utah State University. Major: Sociology. Minor: Curriculum and Instruction. Thesis: Personal Adjustment in Aging—A Field Study.

Jack William Hanson, Claremont

B.S. '52, Wisconsin State College (River Falls). Field of Concentration: Educational Administration.

Lawrence Alan Hartman, St. Louis  
Park

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

John Hiben, Minneapolis

B.A. with high honors '54, Bethel College (Minnesota). Field of Concentration: Psychology.

Donald James Hill, Eau Claire, Wis.

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

Edward Clinton Hotaling, Saratoga  
Springs, N.Y.

B.A. '59, Syracuse University. Field of Concentration: Journalism.

James Edward Jacobson, Minneapolis

B.S. '56, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: The Wilcoxon Two Sample Statistic.

Sheila Mae Johnsgard, Moorhead

B.A. *magna cum laude* '56, Concordia College.  
Field of Concentration: Educational Psychology.

Loren Frank Kamish, St. Croix Falls,  
Wis.

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

Rachel Elizabeth Keen, Burkesville,  
Ky.

B.A. '59, Berea College. Major: Child Development and Welfare. Minor: Psychology. Thesis: The Effects of Incentive Conditions on the Performance of Children in a Two-Choice Situation.

Doris McCabe Kemler, Gettysburg,  
Pa.

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

William Webster Lammers, Minneapolis

B.A. *magna cum laude* '59, University of Minnesota. Field of Concentration: Political Science.

John Ralph Landis, Appleton, Wis.

B.S. *cum laude* '53, Lawrence College. Field  
of Concentration: Mathematics.

John Baptist Lange, Sioux Falls, S.D.

B.A. '50, College of St. Thomas. Major: Spanish. Minor: French. Thesis: The Reform of Education in Spain Through Krausism.

Bertha Deborah Lillehei, Minneapolis

B.A. '34, Augsburg College. Field of Concentration: English.

Jameson Chun-Hsiang Lin, Foochow,  
China

B.A. '47, National Chi Nan University. Field  
of Concentration: Geography.

John Russell Lindquist, Minneapolis

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

Kenneth Einer Lundgren, Duluth

B.S. '57, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Charles George Lusk, San Diego,  
Calif.

B.S. '55, University of Minnesota. Field of  
Concentration: Industrial Arts.

Eugene Reuben Melander, Minneapolis

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

Vasant Vallabhdas Merchant, Bombay, India

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

Myron Milstein, Minneapolis

B.S. '59, University of Minnesota. Field of  
Concentration: History.

Ghulam Mohammed, Lahore, Pakistan

B.A. '57, University of Minnesota. Major: Political Science. Minor: Geography. Thesis: An Investigation of Soviet Finnish Relations: 1917-1958: With Particular Emphasis on the Limitations Imposed Upon Finland by the Soviet Union.

David Montgomery, St. Paul

B.A. with highest honors '50, Swarthmore College. Major: History. Minor: Political Science. Thesis: Labor and the Radical Republicans: A Study of the Revival of the American Labor Movement, 1864 to 1866.

Frank Andrew Moon, Amiret

B.S. '59, University of Minnesota. Field of  
Concentration: Agricultural Education.

Silvia Moreau, Santiago, Chile

B.A. '59, University of Chile. Field of Concentration: Curriculum and Instruction.

Eva Barbara Nenoff, Vienna, Austria

B.A. with honors '52, University of Vienna. Field of Concentration: Music.

Milton H. Ojala, Hopkins

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

Robert S. Osterhus, Eau Claire, Wis.

B.S. '50, Wisconsin State College (Eau Claire). Field of Concentration: Curriculum and Instruction.

Kenneth Elmer Osvoid, St. Paul  
B.S. '51, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Ellsworth Minton Outwin, Bemidji  
B.E. '36, St. Cloud State College. Field of  
Concentration: Curriculum and Instruction.

Leo Irving Oxman, Duluth  
B.S. '43, University of Minnesota. Field of  
Concentration: Educational Psychology.

Michael Prichard, St. Paul  
B.A. '58, Harvard College. Field of Concen-  
tration: Economics.

James Laxman Rathod, Baroda, India  
B.A. (Hons.) '43, M.Ed. '52, Baroda Univer-  
sity. Field of Concentration: Educational Ad-  
ministration.

Kalyani Roy, Minneapolis  
B.A. '42, Fateh Chand College; M.A. '46,  
East Panjab University. Major: Sociology.  
Minor: Economics. Thesis: The Development  
of Indian Sociology.

Sally Rochlin Rue, Los Angeles,  
Calif.  
B.A. '56, Reed College. Field of Concentra-  
tion: Political Science.

Arnold George Sandahl, Glencoe  
B.S. '28, University of Minnesota. Field of  
Concentration: Agricultural Education.

Lee Warren Schick, Minneapolis  
B.A. '56, University of Minnesota. Field of  
Concentration: Psychology.

Eileen Zita Scully, Minneapolis  
B.S. '51, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Brian Thomas Shears, Cardiff, Wales  
B.A. '58, University of Wales. Field of Con-  
centration: Child Development and Welfare.

Wallace DeForest Shodean, Detroit  
Lakes  
B.S. '52, University of Minnesota. Field of  
Concentration: Agricultural Education.

Donna Mae Spooner, Minneapolis  
B.S. with distinction '58, University of Min-  
nesota. Field of Concentration: Home Eco-  
nomics.

Charlotte Dillon Swanson, Minne-  
apolis  
B.A. '51, Asbury College. Field of Concen-  
tration: History.

Clayton Howard Tiede, Rochester  
B.S. with distinction '54, University of Min-  
nesota. Field of Concentration: Music Educa-  
tion.

Anton Hugh Turrittin, Minneapolis  
B.A. *cum laude* '59, University of Minnesota.  
Major: Sociology. Minor: Mathematics. The-  
sis: Social Change in an Isolated Community:  
A Study of the Transformation of Madeline  
Island, Wisconsin.

Harry V. Wall, Mountain Lake  
B.S. '56, Mankato State College. Field of  
Concentration: Educational Psychology.

Dale Eugene Warland, Fort Dodge,  
Iowa  
B.A. '54, St. Olaf College. Field of Concen-  
tration: Music.

Donald Joseph Weiss, Roberts, Wis.  
B.S. '57, Wisconsin State College (River  
Falls). Field of Concentration: Educational  
Psychology.

Clarence Richard Wesenberg, St.  
Paul  
B.S. '54, University of Minnesota. Field of  
Concentration: Curriculum and Instruction.

Roger Graydon Wheeler, Minne-  
apolis  
B.B.A. '56, University of Minnesota. Field of  
Concentration: Industrial Relations.

Frederick John Windland, Excelsior  
B.S. '50, Gustavus Adolphus College. Field of  
Concentration: Educational Psychology.

## Master of Arts in Public Administration

Richard Webster Barsness, Lynwood, Calif.  
B.S. '57, M.A. '58, University of Minnesota.  
Field of Concentration: Public Administration.

Leo John Harris, Minneapolis  
B.A. '54, LL.B. '57, University of Minnesota.  
Major: Public Administration. Thesis: Department of State Reorganization, 1960.

Ronald James Lang, St. Paul  
B.A. '57, St. John's University (Minnesota).  
Major: Public Administration. Thesis: Attitude Measurement for Social Case Work—A Case Study.

Jong Han Park, Seoul, Korea  
Bach. of Econ. '53, Master of Econ. '56, Seoul National University. Field of Concentration: Public Administration.

## Master of Business Administration

Robert Harris Allen, Minneapolis  
B.A. *magna cum laude* '53, University of Minnesota. Field of Concentration: Business Administration.

Promod Kumar Batra, New Delhi, India  
B.Com. '57, University of Delhi. Field of Concentration: Business Administration.

Melvin Arthur Hanson, Hudson, Wis.  
B.B.A. with distinction '55, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: Trailer-on-Flatcar Development.

Vernon Wayne Jahn, Rochester  
B.A. '58, Luther College. Field of Concentration: Business Administration.

Donald Richard Johnston, Minneapolis  
B.S.B. '59, University of Minnesota. Field of Concentration: Business Administration.

Jay David Kopp, Hoyt Lakes  
B.A. *cum laude* '59, University of Minnesota. Field of Concentration: Business Administration.

## Master of Forestry

David V. Swenson, Midland, Tex.  
B.S. with distinction '49, University of Minnesota. Field of Concentration: Forestry.

## Master of Science

Arnold Jay Anderson, Golden Valley  
B.S. '56, University of Minnesota. Field of Concentration: Mathematics.

Louis E. Andrade, San Jose, Calif.  
B.B.A. '58, University of Oregon. Major: Business Administration. Minor: Law. Thesis: An Examination and Reconciliation of the Differences Underlying the "Retained Earnings" and "Accumulated Earnings and Profits" Concepts.

Henry Albert Bates, Minneapolis  
B.A. '51, University of Minnesota. Major: Veterinary Bacteriology. Minor: Physiological Chemistry. Thesis: Immunological Studies on the Infectious Bronchitis Virus of Chickens.

Keith Butterworth, Bradford, England  
B.Sc. '54, Durham University. Field of Concentration: Agricultural Economics.

Dean Tin Chen, Cheng-Chiang,  
Kiang Su, China

B.S. '56, National Taiwan University. Field of Concentration: Agricultural Economics.

Rex Boland Conn, Jr., Minneapolis

B.S. '49, Iowa State College; M.D. '53, Yale University; B.Sc. '55, University of Oxford. Major: Anatomy. Minor: Pathology. Thesis: Amyloid Disease of the Bone Marrow.

Arnold Jay Dahm, Pella, Iowa

B.A. '58, Central College. Major: Physics. Minor: Mathematics. Thesis: Mobility of Electrons in Liquid Helium II.

Richard Ernest Duvall, Roseburg,  
Ore.

B.A. '57, Brigham Young University. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Use of Ethyl 3-Phenylindone-2-carboxylate in the Synthesis of Compounds of Possible Analgesic Value.

David Conger Ewert, Rochester

B.S. '59, Iowa State College. Major: Business Administration. Minor: Psychology. Thesis: An Analysis of the Effect of an Electric Stock Board of Securities Dealers.

Robert Charles Fitzsimmons, Clark-  
ston, Wash.

B.S. '58, Washington State College. Major: Poultry Husbandry. Minor: Agricultural Biochemistry. Thesis: Determination of the Limiting Amino Acids in Low Protein Diets for Young Turkeys.

Allan A. Gravitz, Brooklyn, N.Y.

B.S.A. '58, University of Georgia. Major: Entomology. Minor: Plant Pathology. Thesis: The Biology, Ecology, and Chemical Control of the Black Field Cricket (*Acheta assimilis* Fabr.) in Birdsfoot Trefoil Fields in Minnesota.

John Ronald Hollahan, Seattle,  
Wash.

B.S. *cum laude* '58, University of Washington. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Electron Spin Resonance of Some Semiquinone Free Radicals.

Hui-min Hwang, Kaohsiung, For-  
mosa

B.S. '55, National Taiwan University. Field of Concentration: Agricultural Economics.

Yuji Ijiri, Tokyo, Japan

LL.B. '56, Ritsumeikan University. Field of Concentration: Business Administration.

Mahmood Haj Kasim, Nabi, Iraq

B.S. '56, Iraq Agricultural College. Major: Plant Genetics. Minor: Plant Pathology. Thesis: A Genetic Study of Seedling Reactions to an Isolate of Stem Rust in Progenies of the Wheat Cross Chinese Spring X II-44-22.

Charles Donald Kavaloski, South St.  
Paul

B.S. with distinction '57, M.S. '59, University of Minnesota. Field of Concentration: Business Administration.

Norimoto Kazama, Tokyo, Japan

B.S. '53, Hokkaido University. Field of Concentration: Animal Husbandry.

Robert James Knapp, Swatara

B.S. '56, University of Minnesota. Major: Fishery and Wildlife Management. Minor: Statistics. Thesis: Plankton Fluctuations in the Lower Red Lake and Food Utilization by Young of the Year Perch in 1956 and 1957.

Frederick Bayard Koch, Northfield

B.A. '57, Carleton College. Major: Metallurgy. Minor: Electrical Engineering. Thesis: A Magnetic Investigation of Low Temperature Aging in the Gold-Nickel System.

Richard Jean Legare, Central Falls,  
R.I.

B.S. '56, Providence College. Field of Concentration: Physical Chemistry.

Phillip Allen Lincrode, Byron

B.S. in Ag. '58, D.V.M. '58, The Ohio State University. Major: Poultry Husbandry. Minor: Veterinary Bacteriology. Thesis: Nutritional Aspects of Dietary Antibiotics in Turkeys with Emphasis on Raw Soybean Utilization.

Robert Charles Melchior, Moorhead

B.S. '58, Moorhead State College. Field of Concentration: Botany.

Deva Narain Misra, Darbhanga,  
Bihar, India

B.S. in Agr. '50, Bihar Agricultural College; Associate '53, Indian Agricultural Research Institute. Field of Concentration: Plant Genetics.

Emma Jean Ollanketo, Minneapolis

B.S. with distinction '58, University of Minnesota. Field of Concentration: Home Economics.

John Michael Purcell, Clonmel, Ireland

B.Agr.Sc. '55, University College (Dublin). Major: Plant Genetics. Minor: Plant Pathology. Thesis: Inheritance Studies in a Spring Wheat Cross.

Frank Maximillian Ringwelski, Minneapolis

B.S. '41, St. Mary's College (Minnesota). Major: Mathematics. Minor: Biostatistics. Thesis: Curvature in Manifolds.

David Bernard Rozendal, Huron, S.D.

B.S.C.E. '58, South Dakota School of Mines and Technology. Field of Concentration: Mechanics and Materials.

Harbans Singh, India

B.V.Sc. and A.H. '55, Agra University. Field of Concentration: Dairy Husbandry.

Edmund Norman Siratovich, Chicago, Ill.

B.A. '58, Northwestern University. Major: Geology. Minor: Petroleum Engineering. Thesis: The Upper Cretaceous Rocks of Union County, Arkansas.

Jose Luis Troncoso, Santiago, Chile

D.V.M. '56, University of Chile. Field of Concentration: Agricultural Economics.

Abraham Tai-Hsin Wan, China

B.S. in Agr. '55, National Taiwan University. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Studies on the Prediction of the Malting Quality of Barley.

Carl Duane Zimmerman, St. Paul

B.A. '57, Emmanuel Missionary College. Field of Concentration: Mathematics.

## Master of Science in Agricultural Engineering

Barney Thorvardur Stephanson, Edmonton, Alberta, Canada

B.E. '44, University of Saskatchewan. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: The Influence of Gasoline and Propane Fuels on Spark Ignition Engine Wear Rates During Low Temperature Operation.

## Master of Science in Chemical Engineering

Gerald Raymond Talandis, Chicago, Ill.

B.S. in Ch.E. '58, Illinois Institute of Technology. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Mechanics of Irregular Particle Bounce.

## Master of Science in Civil Engineering

Syed Zafar Ahmad, Karachi, Pakistan

B.Sc. in C.E. '57, Aligarh Muslim University. Field of Concentration: Civil Engineering.

Lawrence Henry Breimhurst, St. Paul

B.S. '59, University of Minnesota. Field of Concentration: Civil Engineering.

Glenn Robert Korfhage, South St. Paul

B.S.C.E. '58, University of Minnesota. Major: Civil Engineering (Highway Engineering and Soils Mechanics). Minor: Civil Engineering (Structures). Thesis: A Study of Thawing in Highway Sections.



Shen Ling, China

B.S. '56, National Taiwan University. Field of Concentration: Civil Engineering.

Chieh Ou-Yang, Taiwan, China

B.S. '56, National Taiwan University. Field of Concentration: Civil Engineering.

Suryakant Narsinhbhai Patel, Baroda, India

B.E.(Civil) '57, The Maharaja Sayajirao University of Baroda. Field of Concentration: Civil Engineering.

Carl Edward Schultz, Pine River

B.S.C.E. '58, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: The Ultimate Strength of Reinforced Concrete Columns Subjected to Biaxial Bending.

Jayantilal Hiralal Shah, Dabhoi, India

B.E.(Civil) '58, The Maharaja Sayajirao University of Baroda. Field of Concentration: Civil Engineering.

Qutub-ud-Din Shaikh, Hyderabad, Pakistan

B.E.(Civil) '55, University of Karachi. Field of Concentration: Civil Engineering.

Kesava Rao Yalamanchili, Krishna, India

B.E. '59, University of Mysore. Field of Concentration: Civil Engineering.

## Master of Science in Dentistry

Franklin R. Stickel, Minneapolis

D.D.S. '58, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: A Quantitative Study of Bone Regeneration in the Rat Calvarium After Decalcified Bone Matrix Implantation.

## Master of Science in Dermatology

Harry Leo Roth, Beverly Hills, Calif.

B.A. '50, M.D. '54, University of California. Major: Dermatology. Minor: Pathology. Thesis: Histochemical Studies of Macroscopic Colonies of Fungi.

Frank Henry Urban, Milwaukee, Wis.

B.S. '50, M.D. '54, University of Wisconsin. Major: Dermatology. Minor: Pathology. Thesis: Sebaceous Tumors of the Skin: A Clinical and Histopathologic Investigation.

## Master of Science in Electrical Engineering

Charles Nord Dunn, St. Paul

B.S. with high distinction '58, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Deactivation Processes in the Oxide-Coated Cathode.

Shou-Ling Hou, Taipei, Taiwan, China

B.S. '56, National Taiwan University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of a Parametric Amplifier.

Erwin Anton Kelen, Budapest, Hungary

B.S. '56, Technical University of Budapest. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Magnetic Amplifier Integrators.

Chung-Kuang Liu, Hsiang Yang, China

B.S. '54, Taiwan College of Engineering. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Some Strip-Transmission-Line Components in X-Band.

**Allen Laurel Morehead, St. Paul**

B.S. with distinction '58, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Flicker Noise in Field Emission Tubes.

**Balthasar Hubert Pinckaers, Minneapolis**

B.S.E.E. '44, Middelbare Technische School (Holland). Major: Electrical Engineering. Minor: Mathematics. Thesis: The Junction Transistor in Some Feedback Amplifiers.

**Donald Arthur Smith, Minneapolis**

B.S. with distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Elastic Wave Motion at a Bend in a Rod.

**Robert Harold Springer, Hastings**

B.S. '58, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Controlled Chemical Activation of Oxide Coated Cathodes Utilizing the Application and Removal of Carbon.

**Duane H. Tack, Marshall**

B.S. with high distinction '58, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Response of a Bar to Random Forcing by Boundary Layer Turbulence.

**Rodger David Thuras, Minneapolis**

B.S. with distinction '57, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Electrolytic Activation in the Oxide-Coated Cathode.

## Master of Science in Industrial Engineering

**Allan Arnold Esterberg, Ely**

B.A. '58, Harvard College. Field of Concentration: Industrial Engineering.

## Master of Science in Mechanical Engineering

**Roland Clement Birkebak, St. Paul**

B.S. with distinction '55, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Experimental Determination of Spectral Normal Reflectivity of Several Engineering Materials from 0.1 to 10.0 Microns.

**Prem Chand Jain, Delhi, India**

B.Sc.(Mech.Eng.) '57, Banaras Hindu University. Field of Concentration: Mechanical Engineering.

**Bruce Virgil Johnson, Northfield**

B.M.E. with distinction '58, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Heat Transfer from a Cylinder in Crossflow with Transpiration Cooling.

**Thomas Frederick McCarthy, New York, N.Y.**

B. Marine E. '57, New York State Maritime College. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Heat Transfer to Turbulent Boundary Layers with a Pressure Gradient.

**Stuart T. McComas, Milwaukee, Wis.**

B.M.E. '56, Marquette University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Temperature Profiles and Heat Transfer Associated with a Single Isothermal Disk Rotating in Still Air.

## Master of Science in Medicine

**Gene Edberne Burke, Houston, Tex.**

B.A. '52, University of Texas; M.D. '56, Baylor University. Major: Medicine. Minor: Physiology. Thesis: A Method for the Study of a Protocytic Enzyme System Found in Human Blood.

**Richard Bourne Byrd, Lentner, Mo.**

B.A. '50, Central College (Missouri); M.D. '54, St. Louis University. Major: Medicine. Minor: Hematology. Thesis: Hypochromic Iron Loading Anemia with Secondary Hemochromatosis.

**Bernard Frederick Clowdus II, Wash-  
ington, D.C.**

B.A. '51, M.D. '54, Vanderbilt University. Major: Medicine. Minor: Physiology. Thesis: Therapeutic and Metabolic Aspects of Resistant Ascites.

**Patrick James Connor, Omaha, Neb.**

B.S. '51, M.D. '55, Creighton University. Major: Medicine. Minor: Physiology. Thesis: The Measurement of the Carbon Monoxide Diffusing Capacity of the Lung.

**Robert Edgar Hatfield, Calgary, Al-  
berta, Canada**

B.Sc. '51, M.D. '53, University of Alberta. Major: Medicine. Minor: Pathology. Thesis: A Clinicopathologic Study of Patients Who Have Had Primary Hyperparathyroidism.

**Maurice John Martin, Tuscola, Ill.**

B.S. '52, M.D. '54, University of Illinois. Major: Medicine. Minor: Pathology. Thesis: A Study of Atherosclerosis in the Carotid and Vertebral Arteries.

**Donald Vail Rhoads, Rochester**

B.A. '50, Stanford University; M.D. '54, University of Pennsylvania. Major: Medicine. Minor: Pathology. Thesis: The Electrocardiogram in the Presence of Left Bundle Branch Block and Myocardial Infarction.

**Bernard Francis Rice, St. Augustine,  
Fla.**

B.A. '52, M.D. '56, Temple University. Major: Medicine. Minor: Physiology. Thesis: Bioassay of Pituitary Gonadotropin in Blood.

**James V. Ross, Jr., Rochester**

B.A. '51, M.D. '55, Duke University. Major: Medicine. Minor: Pathology. Thesis: Gangrene of the Lower Extremity Secondary to Extensive Venous Occlusion.

**James Lockhart Russell, Belfast,  
Northern Ireland**

M.D. '50, Queen's University (Ireland). Major: Medicine. Minor: Physiology. Thesis: Study of an Indicator-Dilution Method of Localizing and Quantitating Left to Right Shunts in Dogs with Surgically Produced Intracardiac and Great Vessel Defects.

**Fred Warren Ten Eyck, Long Beach,  
Calif.**

B.A. '50, M.D. '55, Stanford University. Major: Medicine. Minor: Pathology. Thesis: "Acute Intermittent Porphyria": Necropsy Studies in Nine Patients.

**Mack Vincent Traynor, Jr., Fargo,  
N.D.**

B.A. '46, B.S. '47, University of North Dakota; M.D. '49, Northwestern University. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Vascular Lesions Associated with Disseminated Lupus Erythematosus.

**Samuel Weisz, Rochester**

B.S. '52, M.D. '56, University of Alberta. Major: Medicine. Minor: Pathologic Anatomy. Thesis: Dissecting Hematoma of the Aorta—A Clinico-Pathological Study of 29 Cases.

## **Master of Science in Neurology**

**Harris Milton Hauser, Houston, Tex.**

M.D. '55, Baylor University. Major: Neurology. Minor: Basic Neurological Sciences. Thesis: Brain Protein and Polysaccharide Alterations in Experimental Cerebral Edema in Dogs.

## **Master of Science in Obstetrics and Gynecology**

**Rodolfo Robles Herrera, Guatemala  
City, Guatemala**

M.D. '53, Universidad de San Carlos. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Ovarian Alterations of Non-malignant Nature in Association with Endometrial Carcinoma.

**Roger Dyke Kempers, Rochester**

B.A. '49, Hope College; M.D. '54, Wayne University. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: A Clinical and Histologic Study of Clinically Significant Postmenopausal Endometriosis.

## Master of Science in Orthopedic Surgery

Sanford Harold Anzel, Sumter, S.C.

B.A. '50, Yale University; M.D. '54, New York Medical College. Major: Orthopedic Surgery. Minor: Surgical Pathology. Thesis: Experimental Attempts at Construction of Artificial Tendon Sheaths in Dogs.

Norman Winfred Hoover, Rochester

B.S. '46, M.D. '50, University of Minnesota. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Experimental Skin Arthroplasty.

Frank Patrick Murphy, Tampa, Fla.

M.D. '54, Loyola University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Synovial Chondromatosis.

Rudolf Aloisius Pyka, Marshfield, Wis.

M.D. '52, University of Erlangen. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Vascular Bed of the Foot.

Newsom Stool, San Antonio, Tex.

B.A. '48, University of Texas; M.D. '53, Baylor University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: An Experimental Approach to the Problem of Bone Ischemia.

## Master of Science in Radiology

David Melvin Witten, Rochester

B.A. '50, M.D. '54, Washington University (Missouri). Major: Radiology. Minor: Surgical Pathology. Thesis: Intrathoracic Bronchial Cysts.

## Master of Science in Surgery

John F. Carnevali, White Plains, N.Y.

B.S. '49, M.D. '53, Georgetown University. Major: Surgery. Minor: Pathology. Thesis: An Experimental Study of Side-to-Side Pancreaticojejunostomy.

Stephen Engle, El Paso, Tex.

M.D. '54, University of Texas. Major: Surgery. Minor: Pathology. Thesis: Calcification and/or Ossification in Rectal Malignancies: A Surgical-Pathologic Study.

Leslie David Guidry, New Orleans, La.

B.S. '49, Southwestern Louisiana Institute; M.D. '53, Louisiana State University. Major: Surgery. Minor: Pathology. Thesis: Acute Postoperative Cholecystitis: A Clinical and Pathologic Study of Twenty-Five Cases.

Clifford Matthew Phibbs, Jr., Sumner, Wash.

B.S. with honors '52, M.D. '55, University of Washington. Major: Surgery. Minor: Pharmacology. Thesis: The Influence of Temperature and Coronary Occlusion on the Ventricular Fibrillation Threshold.

George Fraser Woodington, Beloit, Wis.

B.S. '50, M.D. '53, University of Wisconsin. Major: Surgery. Minor: Pathology. Thesis: Adenoacanthoma of the Endometrium.

## Specialist in Education

Ruth Eloise Burkhardt, Minneapolis

B.A. '45, University of California (Los Angeles); M.A. '60, University of Minnesota. Field: School Psychological Services.

Harold Bruce Dreyer, Mankato

B.S. '52, Bemidji State College; M.A. '53, University of Minnesota. Field: School Psychological Services.

Arnold Melvin Rehmann, St. Paul

B.S. with distinction '53, M.A. '60, University of Minnesota. Field: School Psychological Services.

## Doctor of Philosophy

Frederick Paul Abel, Winona

B.S. '43, Winona State College; M.A. '48, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Use of Closed Circuit Television in Teacher Education: Relationship to Achievement and Subject Matter Understandings. Major Adviser: Prof. R. J. Keller.

Karl Adolf Andresen, Eau Claire, Wis.

B.A. '49, Luther College; M.A. '50, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Theory of State Interposition to Control Federal Action: A Study of the Kentucky and Virginia Resolutions of 1798, of Calhoun's Doctrine of Nullification, and the Contemporary Interposition Resolutions of Some Southern States. Major Adviser: Prof. H. W. Chase.

John James Baldwin, Wilmington, Del.

B.S. '56, University of Delaware. Major: Organic Chemistry. Minor: Physiological Chemistry. Thesis: Synthesis and Study of Derivatives of Trimethylhydroquinone Possessing a Conjugated Side Chain at Position Six. Major Adviser: Prof. L. I. Smith.

Helmut Walter Baumgartner, St. Paul

Dr. Agr. '49, University of Giessen; M.A. '56, McGill University. Major: Agricultural Economics. Minor: Economics. Thesis: Factors Associated With Potential Mobility Among Farmers. Major Adviser: Prof. P. M. Raup.

Harold Nicholas Benson, Milaca

B.S. with distinction '55, M.S. '57, University of Minnesota. Major: Poultry Husbandry. Minor: Bacteriology. Thesis: Requirement of Avian C'I for Fixation of Guinea Pig Complement by Avian Antibody-Antigen Complexes. Major Adviser: Prof. M. H. Swanson.

Lucy Mae Erickson Bergman, Mound

B.S. '34, M.S. '35, Kansas State Teachers College (Pittsburg). Major: Speech and Theater Arts. Minor: Education. Thesis: A Study of the Relationship Between Selected Language Variables in Extemporaneous Speech and Critical Thinking Ability. Major Adviser: Prof. D. K. Smith.

David Phillip Campbell, Greenfield, Iowa

B.S. '55, M.S. '58, Iowa State College. Major: Psychology. Minor: Statistics. Thesis: Psychometric Analysis of Response Patterns to Interest Inventory Items. Major Adviser: Prof. K. E. Clark.

Michael Marcus DeMann, Minneapolis

B.A. '55, M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Selected Counselor Characteristics Predictive of Successful Case Closure in Vocational Rehabilitation. Major Advisers: Profs. W. E. Dugan and C. G. Wrenn.

Dolan Hoyer Eargle, Jr., Austin, Tex.

B.A. with honors '54, B.Mus. with honors '54, University of Texas. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Nitrocyclobutyl Ketones I: The Synthesis and Methoxide Reaction of 2-Nitrocyclobutyl Phenyl Ketones. Major Adviser: Prof. L. I. Smith.

Patricia Marguerita Fergus, Minneapolis

B.S. '39, M.A. '41, University of Minnesota. Major: Education. Minor: Music. Thesis: Factors Affecting the Development of the Orchestra and String Program in Minnesota Secondary Schools, 1940-1960. Major Adviser: Prof. N. L. Bossing.

Girgis Bakhoum Ghobrial, Cairo, Egypt

B.A. '45, Alexandria University; Graduate '47, Cairo University; M.A. '56, University of Minnesota. Major: Education. Minor: Geography. Thesis: The Maladies of the Egyptian Secondary Education in Historical Perspective. Major Adviser: Prof. R. H. Beck.

Charles Arthur Harvey, Minneapolis

B.A. '51, Nebraska Wesleyan University; M.A. '53, University of Nebraska. Major: Mathematics. Minor: Physics. Thesis: Existence of Periodic Solutions of the Differential Equation  $x'' + g(x) = p(t)$ . Major Adviser: Prof. W. S. Loud.

John David Helmberger, Perham

B.S. '41, M.A. '47, University of Minnesota. Major: Economics. Minor: History. Thesis: State and Local Taxation of Banks. Major Adviser: Prof. W. W. Heller.

Robert Eston Hileman, Light Street, Pa.

B.S. in Ed. '51, Pennsylvania State Teachers College (Bloomsburg); B.S. in Chem. '56, Rutgers University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Rearrangement of 4-(p-Carboethoxyphenoxy)-2-Butene-1-C<sup>14</sup>. Major Adviser: Prof. W. M. Lauer.

Arthur Henry Hill, Perth, Australia

B.A. '57, University of Western Australia. Major: Psychology. Minor: Statistics. Thesis: Social Influence in Interdependent Escape. Major Adviser: Prof. H. H. Kelley.

David Homer Ives, Byron, Ill.

B.A. '55, Cornell College. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: A Kinetic Evaluation, Employing Radiophosphorus of the Synthesis and Metabolic Stability of DNA in Regenerating Rat Liver. Major Adviser: Dr. C. P. Barnum, Jr.

Takumi Izuno, Paho, Hawaii

B.S. '50, University of Hawaii. Major: Plant Genetics. Minor: Botany. Thesis: Characters Affecting Ear Retention in Parental Inbreds and F<sub>1</sub> Progeny of *Zea mays* L. Major Adviser: Prof. E. H. Rinke.

James Stewart Kelleher, Brandon, Manitoba, Canada

B.S. '52, University of Manitoba; M.S. '55, Iowa State College. Major: Entomology. Minor: Plant Pathology. Thesis: Life-History and Ecology of *Doryphorophaga doryphorae* (Riley), a Tachinid Parasite of the Colorado Potato Beetle. Major Adviser: Prof. A. C. Hodson.

Gavin Arthur Kemp, Lethbridge, Alberta, Canada

B.S. '51, University of Alberta. Major: Horticulture. Minor: Plant Genetics. Thesis: Evaluation of the Progeny of F<sub>2</sub> Tomato Selections by Replicated Field Tests. Major Adviser: Prof. T. M. Currence.

Kenneth Wayne Knutson, Williams

B.S. '54, M.S. '56, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Studies on the Nature of Field Resistance of the Potato to *Phytophthora infestans*. Major Adviser: Prof. C. J. Eide.

Ahmad M. Kolkaila, Alexandria, Egypt

B.Sc.(Hons.) '50, M.Sc. '54, University of Alexandria. Major: Entomology. Minors: Plant Pathology and Agronomy. Thesis: Electrical Responses of the Eyes of *Aedes aegypti* L. Larvae Stimulated by Visible Light and the Effect of Insecticides on Their Nerve Action Potentials. Major Adviser: Prof. L. K. Cui-komp.

Herbert Marvin Kulman, Sayre, Pa.

B.S. '52, The Pennsylvania State University; M.F. '55, Duke University. Major: Entomology. Minor: Forestry. Thesis: Nature and Effects of Defoliation of Jack and Red Pine by the Jack-Pine Budworm, *Choristoneura pinus* Free. (Lepidoptera: Tortricidae), and the Occurrence of Budworm Parasites at Particular Locations Within Stands and Trees. Major Adviser: Prof. A. C. Hodson.

William Collier Kuryla, Cuyahoga Falls, Ohio

B.S. '56, Kent State University; M.S. '58, University of Minnesota. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Synthesis of Triindole and Other Indole Trimers and Dimers: The Reactions of Indoles with Dicinophiles. Major Adviser: Prof. W. E. Noland.

Alan Harvey Lawrance, Bedford, England

B.A. '54, University of Cambridge. Major: History. Minor: Political Science. Thesis: The Influence of British Ideas in the British North American Revolution. Major Adviser: Prof. A. L. Burt.

Frederick Charles Markwardt, Jr., Ironton

B.A. '52, Carleton College; M.A. '57, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Pattern Analysis Techniques in the Prediction of College Success. Major Advisers: Profs. W. E. Dugan and C. G. Wrenn.

James Gordon Martin, Harvey, N.D.

B.S. in Ed. '51, University of North Dakota; M.A. '58, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: Mediated Transfer in Two Verbal Learning Paradigms. Major Adviser: Prof. W. A. Russell.

**Robert Paul Marvin, Circle Pines**

B.S. with distinction '48, M.S. '57, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: The Development and Experimental Trial of a Unit Operation Method of Instruction in Mechanized Agriculture. Major Adviser: Prof. M. J. Peterson.

**Thomas Howard McEnroe, Los Angeles, Calif.**

B.A. '51, M.A. '52, University of California (Los Angeles). Major: Political Science. Minor: American Studies. Thesis: The Industrial Workers of the World: Theories, Organizational Problems, and Appeals, as Revealed Principally in the *Industrial Worker*. Major Adviser: Prof. M. Q. Sibley.

**Richard Paul Momsen, Jr., Winter Park, Fla.**

B.A. '50, Dartmouth College; M.A. '52, University of Minnesota. Major: Geography. Minor: Area Studies: Northwest Europe. Thesis: Routes Over the Serra do Mar: An Historical Geography of Transportation in the Rio de Janeiro-São Paulo Arca, Brazil. Major Adviser: Prof. J. O. M. Brock.

**Ralph E. Nelson, Brookings, S.D.**

B.S. with distinction '49, M.S. '52, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Nature of Competition Among South Dakota Dairy Manufacturing Plants. Major Adviser: Prof. E. F. Koller.

**Rodney Alden Nelson, Montevideo**

B.Ch.E. '52, B.B.A. '52, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Simultaneous Heat and Mass Transfer by Natural Convection in Liquid Systems. Major Adviser: Prof. A. J. Madden.

**Jacobo Ortega, Mexico**

Ing.Agr. '56, Escuela Superior de Agricultura (Mexico); M.S. '58, Oklahoma State University. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Genetic Factors Controlling Stem Rust Resistance in Kenya Farmer Wheat. Major Advisers: Profs. L. A. Snyder and J. J. Christensen.

**James Thomas O'Toole, San Francisco, Calif.**

B.A. '56, B.S. '57, Rice Institute. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Role of Internal Motions in the Kinetic Theory of Gases. Major Adviser: Prof. J. S. Dahler.

**Neville P. Pearson, Wheaton**

B.A. '39, Gustavus Adolphus College; M.A. '51, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: Organization and Use of Audio Visual Education in Minnesota Public Schools. Major Adviser: Prof. G. H. McCune.

**Orest Allen Ranum, St. Paul**

B.A. '55, Macalester College; M.A. '57, University of Minnesota. Major: History. Minor: French. Thesis: The Creatures of Richelieu: A Study of the Secretaries of State and Superintendents of Finance in the Ministry of Richelieu, 1635-1642. Major Adviser: Prof. J. B. Wolf.

**Kolli Krishna Rao, Visakhapatnam, India**

B.Sc. (Honours) '53, M.S. '54, Andhra University. Major: Metallurgy. Minors: Physical Chemistry and Chemical Engineering. Thesis: Solid Solubilities of Carbon in Transition Elements and Their Alloys. Major Adviser: Prof. M. E. Nicholson.

**Perry Gardner Rawland, St. Cloud**

B.A. '28, State University of Iowa; M.A. '42, Ohio State University. Major: Education. Minor: Industrial Education. Thesis: Mutual Fund Investing with Implications for General Education. Major Advisers: Profs. A. K. Wickesberg and R. G. Price.

**B. L. Renfro, Big Cabin, Okla.**

B.S.Ed. '52, Central State College (Oklahoma); M.S. '55, Oklahoma A&M College. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Studies Concerning Epidemiology of Black Stem of Alfalfa. Major Adviser: Prof. M. F. Kernkamp.

**Lionel Alexander Richardson, Bridgeport, W. Va.**

B.S.Agr. '53, West Virginia University; M.S. Agr. '54, University of Kentucky. Major: Dairy Industries. Minor: Agricultural Biochemistry. Thesis: An Investigation of the Sorption of Water by Milk Proteins. Major Adviser: Prof. H. A. Morris.

**Robert David Schwartz, Hartford, Conn.**

B.A. with honors '56, University of Connecticut. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Cyanoethylation of 1-Methyl-3-phenylindene. Major Adviser: Prof. C. F. Koelsch.

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

B.S. '53, University of Wisconsin; M.A. '57, University of Minnesota. Major: Speech and Theater Arts. Minor: Educational Psychology. Thesis: An Inductive Investigation Into the Correlates of Ability to Predict Opinion. Major Adviser: Prof. W. S. Howell.

George Sivanich, Minneapolis

B.A. *magna cum laude* '50, University of Minnesota; M.A. '51, Harvard University. Major: Psychology. Minor: Neuropsychiatry. Thesis: Test-Retest Changes During the Course of Hospitalization among Some Frequently Occurring MMPI Profiles. Major Adviser: Prof. S. R. Hathaway.

Betty Faye Smith, Magnolia, Ark.

B.S.H.E. with honors '51, University of Arkansas; M.S. '57, University of Tennessee. Major: Home Economics. Minor: Agricultural Biochemistry. Thesis: Determination of Cellulose in Textile Fibers. Major Adviser: Prof. Suzanne Davison.

Henry Dixon Smith, Emporia, Kan.

B.S. '48, M.A. '49, University of Minnesota. Major: Geography. Minor: Sociology. Thesis: An Analysis of the Water Resources of Three River Basins in Western Minnesota with Special Reference to the Amount of Water Available for Irrigation. Major Adviser: Prof. J. R. Borchert.

Chieh-Shyang Song, Formosa, China

B.Sc. '53, National Taiwan University; M.S. '56, State University of Iowa. Major: Civil Engineering. Minor: Mathematics. Thesis: Similar and Quasi-Similar Solutions of the Boundary Layer Equations for Two-Dimensional Incompressible Flows. Major Adviser: Prof. L. G. Straub.

William Smith Teter, Bartley, Neb.

B.Sc. in Agr. '49, University of Nebraska; M.S. '57, University of Minnesota. Major: Animal Husbandry. Minor: Veterinary Physiology. Thesis: Phosphorus Availability and Quantitative Requirements of Swine for Growth Gestation and Lactation. Major Adviser: Prof. L. E. Hanson.

Herbert Sedgwick Wilgus III, Fort Collins, Colo.

B.S. '54, M.S. '56, Colorado State University. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Indenyl Free Radicals. Major Adviser: Prof. C. F. Koelsch.

Robert Edmond Willette, Big Rapids, Mich.

B.S. '55, Ferris Institute. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Structural Studies of Certain Pharmacologically Active Coumarins Isolated from *Umbelliferae*. Major Adviser: Prof. T. O. Soine.

Donald Stewart Willoughby, Regina, Saskatchewan, Canada

B.A. '48, M.A. '49, Queen's University (Canada). Major: Bacteriology. Minor: Agricultural Biochemistry. Thesis: Host-Parasite Relationships Among Group A Streptococci. Part I. Hyaluronic Acid Production by Group A Streptococci; Part II. The Influence of Sex on the Susceptibility of Inbred Mice Toward Streptococcal Infection. Major Adviser: Prof. D. W. Watson.

Arnold Sylvester Woestehoff, Minneapolis

B.Ed. '38, St. Cloud State College; M.A. '48, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Changes in Offerings of Selected Teacher-Preparatory Colleges Continuously Accredited and State Supported, 1927-1955. Major Adviser: Prof. W. W. Cook.

Stanley Gordon Wold, Edina

B.S. with high distinction '48, M.Ed. '50, University of Minnesota. Major: Education. Minor: Art. Thesis: A Comparison of College Students' Performance on Selected Art Tasks and on the Graves Design Judgment Test. Major Advisers: Profs. R. E. Eckert and C. J. Hoyt.

Eugene Stewart Wright, St. Paul

B.S. with distinction '42, M.A. '51, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Investigation into the Effect of Reading Training on Academic Achievement among Freshmen in the College of Agriculture, Forestry, and Home Economics. Major Adviser: Prof. G. L. Bond.

Thomas D. Wyllie, San Diego, Calif.

B.A. '52, San Diego State College; M.S. '57, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Host-Parasite Relationships Between Soybean and *Rhizoctonia solani*. Major Adviser: Prof. J. J. Christensen.



Marion Edward Zealey, Augusta, Ga.

B.A. '34, Paine College; M.S. '40, Atlanta University. Major: Agricultural Biochemistry. Minor: Physiological Chemistry. Thesis: The Reactivity of Sulfhydryl Groups in Proteins as Evidenced by the Binding of Certain Reagents. Major Adviser: Prof. Robert Jenness.

## Doctor of Philosophy in Medicine

Harry Glenchur, San Francisco, Calif.

B.A. '49, University of California (Berkeley); M.D. '53, University of Rochester. Major: Medicine. Minor: Bacteriology. Thesis: The Serum Agglutinating, Blocking and Precipitating Antibodies and the Proteins in Brucellosis. Major Adviser: Dr. W. H. Hall.

## Doctor of Philosophy in Surgery

Ernest Maurice Berkas, Kenyon

B.A. *magna cum laude* '48, B.S. '49, M.D. '52, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: Water, Sodium and Chloride Flux in the Canine Small and Large Intestine. Major Advisers: Drs. E. D. Grim and W. D. Kelly.

Esten O. Lindseth, Atlanta, Ga.

M.D. '49, University of Oslo. Major: Surgery. Minor: Physiology. Thesis: Vascular Flow Patterns in the Tissues of the Dog Intestine. Major Advisers: Drs. C. R. Hitchcock and E. D. Grim.

## Academic Costume

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

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

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

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

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

(In the order of march)

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

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

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



# UNIVERSITY OF MINNESOTA

## *Senior Reception*

*December, 1960*

- The members of the graduating class, their families and friends, are invited to attend the Senior Reception immediately after the commencement exercises. The Reception will be held in the Main Ballroom of Coffman Memorial Union.
- Those in the receiving line will be President and Mrs. Wilson, Mr. Richard Stanford, President of the Coffman Union Board of Governors, and Mr. James R. Spensley, President of the Minnesota Student Association.
- Assisting in the Reception are members of the Union Board of Governors and its committees, and of the following honorary societies: Chimes, Iron Wedge, Mortar Board, and Phoenix. Santa Claus will be there too.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.