

THE
UNIVERSITY OF MINNESOTA

Announces Its

March Commencement

1963

NORTHROP MEMORIAL AUDITORIUM

SATURDAY EVENING, MARCH 23

AT EIGHT THIRTY O'CLOCK



University of Minnesota

THE BOARD OF REGENTS*

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

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The Honorable Marjorie J. Howard (Mrs. C. Edward), Excelsior
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The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable A. J. Olson, Renville

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

* As of March 12, 1963.

SMOKING AND USE OF CAMERAS AND RECORDERS—It is requested, by action of the Board of Regents, that in Northrop Memorial Auditorium smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. The use of cameras or tape recorders in the auditorium by members of the audience is prohibited.

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 twelfth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded more than 165,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 30,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester 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. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five 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 Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, 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 renowned artists and lecturers to more than a million and a half persons living in the area it serves.

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 thing and expresses itself in many ways. Contributions from them have made it pos-

sible 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. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses 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 tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

Much of the University's thought and energy must be directed to planning for the anticipated increases in future enrollments. At present nearly half of the students participating in a program of higher education in the state attend the University of Minnesota. If our enrollment continues to increase as expected and if the other colleges in the state continue their enrollment growth according to the estimates they have themselves made, not less than 55,700 full-time college-level students will be attending the University in 1972. This will mean that more teachers, more civil service staff members, more land and more buildings will be needed.

THE 1961 LEGISLATURE granted the University \$49,068,181 for general operations and maintenance during the 1961-63 biennium. In addition, the University received \$6,938,423 for University Hospitals; \$4,432,496 for special appropriations, including special extension and research activities; and \$7,789,351 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 1961-62 showed that the University's current income amounted to \$97,799,438.73 and the current expenditures, transfers, and adjustments amounted to \$97,800,406.54. Of the total received, \$8,728,544.63 came from student tuition and fees; \$11,688,647.86 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theater receipts and the sale of bulletins and agricultural products; \$1,687,180.03 from intercollegiate athletics; \$15,065,926.00 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$23,140,602.50 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

\$2,699,858.78 came from federal appropriations for instruction, research, and agricultural extension. The state provided \$34,808,668.93 or 35.6% for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$10,204,703.01.

Commencement marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with and their financial support of the University through the Minnesota Alumni Association and its many alumni projects. Financial support is also urged for its various Special Project Programs including scholarships, medical and technological research, and college service funds which are administered by the Department of University Relations, 213 Morrill Hall, on the Minneapolis Campus.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates, their families, and their friends reach the Minneapolis Campus of the University of Minnesota this evening, they will hear the Frances Miller Brown Memorial Bells in Northrop Memorial Auditorium being played from 7:45 to 8:15 p.m. by Mr. Daniel W. Chorzempa, SLA '63, 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 Assistant Professor of Music and Bandmaster Frank P. A. Benciscutto, D.M.A., will play:

Hands Across the Sea - - - - - John Philip Sousa
Air from Third Suite - - - - - Bach
Dance of the Buffoons - - - - - Rimsky-Korsakoff
Passacaglia and Fugue - - - - - R. Crane

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 8:30 p.m., Associate Professor Rodney C. Loehr, Ph.D., College of Science, Literature, and the Arts, Faculty Marshal, will carry the Mace into the Auditorium, heralding the arrival of the academic procession of candidates for degrees. Professor Loehr, as Mace Bearer, will present the Mace at the center of the stage. When all those in the procession have taken their seats, he will put the Mace on the table to signal the beginning of the ceremonies. During the procession, the Concert Band Ensemble will play:

Marche Turque - - - - - Moussorgsky
March from the Original Suite - - - - - G. Jacob

ON THE STAGE: The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Professor Warren S. Loud, Ph.D., College of Science, Literature, and the Arts, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Professor Edwin L. Haislet, Ed.D., Executive Director of the Minnesota Alumni Association; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Captain Eric A. Erickson, Jr., U.S.A., Assistant Professor of Military Science; Dean William B. Lockhart, S.J.D., Law School; Vice President Laurence R. Lunden, LL.D., Business Administration; Dean Horace T. Morse, Ph.D., General College; Associate Professor Helen A. Ludwig, M.A., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Professor Wallace A. Russell, Ph.D., Graduate School; Dean Harold Macy, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; President O. Meredith Wilson, Ph.D., University of Minnesota; Dr. Fred Harvey Harrington, Ph.D., President, University of Wisconsin, Commencement Speaker; Professor William C. Rogers, Ph.D., Director of State Organization Service; Associate Dean Francis M. Boddy, Ph.D., Graduate School; Dean Edmund G. Williamson,

Order of Events

Ph.D., Dean of Students; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; The Reverend James Boren, B.D., Presbyterian Campus Minister on the Minneapolis Campus of the University; Assistant Dean Roger B. Page, Ph.D., College of Science, Literature, and the Arts; Dean Athelstan Spilhaus, D.Sc., Institute of Technology; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Walter W. Cook, Ph.D., College of Education; Captain Edward M. Morgan, U.S.N., Professor of Naval Science; Associate Professor Arnold F. Caswell, D.Ed., Department of Music Education; Associate Professor Allen Nussbaum, Ph.D., Institute of Technology, Marshal; Professor William H. Dankers, Ph.D., College of Agriculture, Forestry, and Home Economics of the 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 Concert Band Ensemble will play:

Fanfare - - - - - Frank Bencriscutto

THE NATIONAL ANTHEM: The entire audience and Associate Professor Caswell, 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 James Boren.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson.

COMMENCEMENT ADDRESS: Dr. Fred Harvey Harrington, President, University of Wisconsin, *Can We Save the World?*

CONFERRING OF ROTC CERTIFICATES: Associate Dean Boddy will introduce Captain Erickson and Captain Morgan 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: Associate Dean Boddy will introduce the deans of the several colleges or their representatives who will present

Order of Events

to President Wilson the candidates for certificates and degrees. They are, in order of their introduction: Professor Rogers, for the General Extension Division; Dean Morse, for the General College; Assistant Dean Page, for the College of Science, Literature, and the Arts; Associate Professor Ludwig, for University College; Dean Spilhaus, 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 Lockhart, for the Law School; Dean Howard, for the College of Medical Sciences; Professor Russell, for the Graduate School.

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

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Professor Edwin L. Haislet.

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

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

HAIL! MINNESOTA: The University's Alma Mater song, sung by the audience and Associate Professor Caswell, 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 the woods and waters fair,
Will proclaim thee near and far;	From thy prairies waving far,
They will guard thy fame	At thy call they throng
And adore thy name;	With their shout and song,
Thou shalt be their Northern Star.	Hailing thee their Northern Star.

RECESSIONAL: The Concert Band Ensemble will play:

<i>Festival</i>	- - - - -	A. Reed
<i>Moorside March</i>	- - - - -	G. Holst

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

Second Lieutenant, Adjutant General Corps

Rolfe S. Wittmann, St. Louis Park

Second Lieutenant, Infantry

Michael R. Kulenkamp, Minneapolis

Second Lieutenant, Signal Corps

William F. Wielinski, Little Falls

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Jeffrey M. Parsons, Minneapolis

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

William Valerius Limpert, Minneapolis
Oscar Gerhard Olsen, Minneapolis

John Oscar Saxton, Jr., Minneapolis
David William Timmersman, Jr., Minneapolis

General Engineering Certificate

Robert Albert Dunst, White Bear Lake

GENERAL COLLEGE

Associate in Arts

John Harold Altstatt, St. Paul
Rolf Francis Amundsen, St. Paul
Dale Alan Anderson, Minneapolis
Robert Peter Aschenbach, St. Paul
William Charles Bailey, Minneapolis
Charles Martin Becker, St. Paul
Garrett Robert Benner, Minneapolis
Audrey Frances Berglund, Minneapolis
Robert Steven Berkovitz, St. Paul
Norman D. Bican, Clarissa
Michael Bruce Boyd, Minneapolis
John Michael Brundidge, Minneapolis
Sandra Vernell Buirge, St. Paul
Elden Keith Carlson, Minneapolis
John Bentley Caton III, St. Paul
Robert Dale Champlin, Minneapolis
James William Chirhart, Cold Spring
Mary M. Corbett, Minneapolis
Robert Leroy Creager, St. Paul
Therman Creager, St. Paul
James Herbert Cushman, Hopkins
Sandra Jean Dahl, Minneapolis

Donald Bruce Dahlquist, St. Paul
Neil Arthur Damrow, West St. Paul
Wendell Nelson Draves, Richfield
Jeffrey Robert Drew, St. Paul
Vincent Erhard Egan, Anoka
Gary Wayne Eissinger, St. Paul
John Scott Elkins, Minneapolis
James Richard Elmquist, Minneapolis
Ramon Roy Enz, Minneapolis
Bruce Craig Erickson, Minneapolis
James David Farrells, Minneapolis
John Henry Fischer, Minneapolis
Robert Owen Fisher, West St. Paul
Stephen Baard Flesche, Lake City
David Charles Fredlund, Minneapolis
John Joseph Galant, Minneapolis
Roger Thomas Gammel, St. Paul
Robert R. Ganzer, Minneapolis
Charles Edward Girk, Mahtomedi
Carl Dennis Gjertson, St. Paul
Diane Sharon Halper, St. Paul

Eugene Howard Hamlin, Jr., Bloomington
 Beverly Jeanne Hansen, Minneapolis
 Gary Clinton Hanson, Minneapolis
 John Stewart Hasslen III, St. Paul
 Terry Henry Havir, Minneapolis
 Richard Lawrence Hoek, Mountain Lake
 Howard Thomas Humenik, Minneapolis
 Byron Glen Huseby, Minneapolis
 Richard Michael Jacquemart, Anoka
 James Stephen Jannett, St. Paul
 Howard Dale Jensen, Willmar
 Allan Thomas Johnson, Minneapolis
 Neal Frank Johnson, St. Paul
 Paul Norman Johnson, Minneapolis
 Steven Earl Johnson, Minneapolis
 James Joseph Kara, Minneapolis
 Robert Wallace Kingsbury III, Excelsior
 Kenneth Herbert Kost, Minneapolis
 Douglas John Kraft, St. Paul
 Richard Dennis Kruger, Minneapolis
 Victor Richard Krumm, St. Paul
 John Joseph Lapakko, West St. Paul
 Bruce Fyhrle Larsen, St. Paul
 Franklin James Larson, Minneapolis
 Sara Jean Larson, Montevideo
 Thomas Daniel Lawson, Minneapolis
 Myron Sheldon Lazar, Minneapolis
 Robert Lee Lenon, Minneapolis
 Richard William Lynch, Minneapolis
 David Patrick Malone, Minneapolis
 David Roy Malzahn, Minneapolis
 Robert Thomas McIntyre, Jr., Wayzata
 Bruce Frederick Mielke, South St. Paul
 John Daniel Miller, Minneapolis
 Philip Robert Moe, Minneapolis
 Joseph Ross Murashie, Bloomington
 Karen Lenore Myring, Minneapolis
 Timothy O'Reilly Neary, Minneapolis
 Richard Vernon Nelson, St. Paul
 Michael T. Newstrom, Robbinsdale
 Robert August Nicolai, Hector
 Gary Warren Nielsen, Anoka
 Daniel Edward Norlin, Minneapolis
 William Reidar Oas, Hopkins
 Phillip B. Oleisky, Minneapolis
 Clifford Gerald Olson, Minneapolis
 Thomas Arthur O'Neill, St. Paul
 Udom Siri Orr, Bangkok, Thailand
 Donald Gary Osell, Mound
 Kathleen Elizabeth Palmen, Minneapolis
 Donald LeRoy Paulson, Willmar
 Harry Wayne Phipps, Jr., North St. Paul
 Dennis Charles Plain, Edina
 John William Poor, Jr., St. Paul
 James Lozel Rippetoe, Wayzata
 Wayne William Rooke, St. Paul
 Dennis Gerald Rosdahl, St. Paul
 Nancy Jane Sampson, St. Paul
 Roy Albert Scherer, Minneapolis
 Glenn Frank Schreier, St. Paul
 Darcey Lynn Scott, St. Paul
 Diane Marguerite Seemann, Minneapolis
 Susan Elaine Segal, Minneapolis
 Thomas Frederick Soderberg, St. Paul
 Paul Anthony Solstad, Mound
 Kurt William Sorenson, Minneapolis
 Gerald Ray Sorsoleil, Minneapolis
 John Charles Stanaway, Minneapolis
 Paul Anthony Stepanchak, Minneapolis
 Abby Weed Stoddard, St. Paul
 Thomas Edgar Stuck, Anoka
 Anne Louise Sundell, Minneapolis
 David Keith Sunderland, St. Paul
 Robert Michael Svihel, Minneapolis
 Sharon Marion Taylor, Minneapolis
 Robert James Timmer, Minneapolis
 Martha Agnes Tomsche, Albany
 Peter Donald Warner, Minneapolis
 Bruce Richard Weinard, St. Louis Park
 John Warren Welch, Minneapolis
 Haydn Eugene Widtfeldt, Jr., Minneapolis
 David Fredric Wilson, Eau Claire, Wis.
 Richard Merle Winandy, St. Paul
 Marvin Henry Zilka, St. Louis Park

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Patrick Henry Burgess, Minneapolis
Helen T. Fleckenstein, Faribault
Betty Jean Foster, Minneapolis
Roberta G. Balstad Lange, Minneapolis

Marion Alice Irwin Osell, Minneapolis
Diane Olivia Saari, Minneapolis
Steven Wayne Townsend, Minneapolis

Bachelor of Arts

Ruthanne Esther Amundsen, Robbinsdale
Doris Mae Anderson, Minneapolis
Inga Ellen Anderson, Minneapolis
John Buckler Auten, St. Louis Park
Myrna Joan Back, Pine Island, CUM LAUDE
Carole A. E. Bailey, Minneapolis
Willard Fee Bailey, Jr., St. Paul, CUM LAUDE
Thomas Royston Banks, St. Paul, CUM LAUDE
Jane Lord Barr, Minneapolis
Judith Marie Beske, Stillwater
James Conrad Bettendorf, St. Paul
Lois Mae Bock, Balaton
James Regan Bostic, A.A., Willmar
Dale Erik Bowman, Minneapolis
Lyda Whicker Boyer, St. Paul
Gerald Douglas Branham, Minneapolis
Roger Lester Brennan, Minneapolis
Cydney Olivia Burrell, Winnipeg, Manitoba, Canada
Richard Merrill Bymark, Minneapolis
Veda Earlee Chaffin, Clear Lake
Carol Elizabeth Higbie Chapman, Minneapolis, CUM LAUDE
Charles Ohiri Chikeka, Owerri, Nigeria
Bridget Ann Connelly, Graceville, CUM LAUDE
Kathleen Ann Crenshaw, St. Paul
Edwin Albert Cutting, West Concord
Robert Marvin Davis, Minneapolis
Joan Lucille McPherson Droll, Minneapolis, CUM LAUDE

James Rudolph Eckert, Hopkins
Nancy Joan Edin, Hinckley, MAGNA CUM LAUDE
Donald Maxwell Feigum, Glenwood
Edward Mathias Feirer, Hinckley
William Lloyd Felker, Minneapolis
Myrna Ann Wexler Feller, Liberty, N.Y.
Richard A. Fichtelman, Hopkins
Michael George Filbrandt, Boulder Junction, Wis.
Lawrence Kenneth Fink, St. Paul
Jane Irene Flitter, Mankato
Vern Robert Foss, White Bear Lake
Donald Pat Foster, Minneapolis
Ellin Marsden Fry, St. Paul
Donald Leroy Fuller, St. Paul
Suzanne Ganschinetz, St. Paul, CUM LAUDE
Dennis John Gerwing, Pierz, CUM LAUDE
Loris Ann Goldner, Minneapolis, CUM LAUDE
Thomas Marvin Graves, St. Paul
James Henry Grina, Rochester
Karen Lou Haht, Minneapolis
Milton Daniel Hakel, Jr., A.L.A., Hopkins
Jervel Brogger Halmrast, Minneapolis
Kathryn Mooers Harrington, Minneapolis
Della Joy Hawkinson, Grand Rapids
William Anthony Heisenfelt, Minneapolis
Donald A. Hennings, Maple Plain
Otis Frederick Hilbert, Minneapolis
Reinart Wayne Holland, Park Rapids

Thomas Leonard Holmbeck, St. Paul
Evelyn Louise Holmboe, St. Paul,
 CUM LAUDE
 Roger Patrick Hultman, Minneapolis
 Arlon Jason Hunt, Minneapolis
 Cynthia Victoria Istas, St. Paul
 Dean Marley Johnson, Nisswa
Marlene Carole Johnson, Fertile, CUM
 LAUDE
Marvin Karlins, Minneapolis, SUMMA
 CUM LAUDE
 Thomas Michael Kelly, Minneapolis
 Michael Peter Kennedy, Minneapolis
 Kathryn Eileen Kertson, Minneapolis
 James Morse Kingsley III, Minne-
 apolis
Robert Paul Kittel, St. Paul, MAGNA
 CUM LAUDE
 Demeter Kokosh, Minneapolis
 Robert Harley Lee, Jr., Minneapolis
 Wilfred John Legato, A.A., Glendive,
 Mont.
 Jerome Clayton Litschke, Hastings
 John Robert Loza, Minneapolis
 Barbara Louise Maki, Duluth
 Marjorie Ann Malmberg, Lafayette
 Dennis Britton McGrath, Minne-
 apolis
 Karen Louise Melbostad, Edina
 James Raymond Mengelkoch, Rich-
 field
 Charles Patrick Menshek, Minne-
 apolis
 Dahl Brougham Metters, St. Paul
 Warren Andre Monson, St. Paul
 James Stuart Moore, Jr., Minneapolis
 William F. Neish, St. Paul
 Mark Timothy Nelson, Minneapolis
 Richard Arthur Nelson, St. Peter
 Richard John O'Laughlin, Minne-
 apolis
 James Belair Olin, West St. Paul
 Gordon Meade Olsen, Princeton
 Daniel Leland Olson, Hayward, Wis.
 David Carl Olson, White Bear Lake
 Kathleen Elaine Olson, Fertile
Robert Leroy Opsahl, Fergus Falls,
 MAGNA CUM LAUDE
 Carol Mae Oren, Wells
 Virgil Wesley Ostrander, Minne-
 apolis
 Frank LaRue Owen, Spicer
 John Edward Palmer, Minneapolis
 R. Willis Parlin, St. Paul
 Erik Charles Paul, Oslo, Norway
 John Michael Pavlik, Minneapolis
 Ernest Frederick Pedersen, Minne-
 apolis
 Judith Lynn Pieser, Fairmont
 David Marvin Prass, Minneapolis
Laila Luella Predmore, Rochester,
 MAGNA CUM LAUDE
 Perry Harold Prestholdt, Minneapolis
 Mary Katherine Raetz, Minneapolis
Douglas R. Rainbow, Anoka, CUM
 LAUDE
Varad Anil Raj, St. Paul, CUM LAUDE
 Richard Lynn Ramberg, Minneapolis
Susan D. Heller Rappaport, Minne-
 apolis, CUM LAUDE
 David Michael Rouzer, Minneapolis
 Robert William Sabes, Minneapolis
 Larry Myles Saliterman, Minneapolis
 Pamela Savage, Wayzata
 Arnold Richard Schmalzbauer, New
 Brighton
 Carole Madalyn Schneidman, Minne-
 apolis
 Robert David Schumacher, Willmar
 Gerald Ralph Seaton, Hibbing
 Charlotte M. B. Seguin, Minneapolis
 Pamela Kay Shepherd, Edina
 Craig Lawrence Shurr, Minneapolis
 Dennis Franklin Siebold, St. Paul
 Vaughn Livingston Simon, Jr., St.
 Paul
 Robin Ann Slotin, Winnipeg, Mani-
 toba, Canada
 Sally Jean Smith, Minneapolis
 Norman Ross Soland, Minneapolis
 Sandra Diane Solland, A.L.A., St.
 Paul
 Sandra Lee Somod, Minneapolis
 Abigail Palmer Sprague, Caledonia
 Margaret Anne Starkey, Sioux Falls,
 S.D.
 Robert Allan Stead, A.L.A., Minne-
 apolis
 Kathleen Mae Streeter, A.A., Austin
 Marshall William Swain, Minneapolis
 William Lawrence Thibault, A.A., St.
 Paul

Susan K. Buckbee Valentine, Minneapolis
Merry Ann Vilett, Edina
Carol Jean Leavenworth Vobejda,
Minneapolis
Carole Jean Watson, Anoka
Herbert Yorke Weber, St. Paul
Maher Jacob Weinstein, Minneapolis

Joyce Sandra Welcome, Mankato
Vincent Raymond Welter, Shakopee
Caroline Elizabeth Wilke, St. Paul
James Lewis Wilkus, West St. Paul
John Wesley Williams, Jr., Minneapolis
Sharone Naydeane Zabrok, St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Mary Louise Hyde, Minneapolis

INSTITUTE OF TECHNOLOGY

Bachelor of Science

James Bernstein, Sioux City, Iowa,
WITH DISTINCTION

John Andrew Fisher, Minneapolis
Edward Joseph Haugland, Minneapolis

Bachelor of Aeronautical Engineering

Joseph Eric Gregorie, Murdock
Doran Duane Koste, Aurora

Robert Le Roy Rogge, Jackson

Bachelor of Agricultural Engineering

James Virgil Hanks, Elmore

Bachelor of Architecture

Philip Burton Anderson, B.A., Preston
Ray Lee Brovold, Kenyon

Richard Louis Lundahl, Minneapolis
Gary Neal Paulsen, B.A., Minneapolis

Tokiaki Toyama, B.S., Paia, Maui, Hawaii

Bachelor of Chemistry

Gerald Charles Fuhrmann, St. Paul

Bachelor of Civil Engineering

Arnold Eugene Epstein, Minneapolis
Earl Goldberg, B.A., St. Paul
Joel Charles Goldman, Forest Hills,
N.Y.
David Murray Gordon, Robbinsdale
Thomas Charles Hensel, Eagle Lake
Reynold Albert Hokenson, Minne-
apolis
Thomas Clement Horsch, Minne-
apolis

Roger Arthur Just, Henderson
Robert Eldon Knudson, Hopkins
Richard Stillwell McGinnis, Excelsior
James Robert Merila, Kimball
Lawrence Richard Molsather, Rich-
field
Latifu Olasunkanmi Okunade, Ibadan,
Nigeria
Darrell Clarence Rosen, Two Harbors

Bachelor of Mathematics

Philip John Bergh, St. Charles

Warren Winston Lacey, Gaylord

Bachelor of Mechanical Engineering

Lanny R. Berke, St. Paul
Dale Gerald Byboth, Winona
Gary Joseph Goth, Rogers, WITH
HIGH DISTINCTION
Andre Jackson Kenyon, St. Paul
Norman Lee Ledeboer, Raymond
Joel August Lindquist, St. Louis Park
Lynn David Lindquist, Minneapolis

Sikiru Adigun Moreira, Lagos, Nigeria
Charles Larry Olson, Braham
William Anthon Pike, Brainerd
Edward Lester Schwarz, Vernon
Center
Richard Lowell Tennis, A.A., Austin
Ronald H. Widenhoefer, B.B.A.,
Minneapolis

Bachelor of Metallurgical Engineering

Gary Maurice Gilbert, Nashwauk
Richard William Matheson, Minne-
apolis

Maurice Patrick Roach, Mason City,
Iowa

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

Technical Certificate in Agriculture

Le Roy Karl Battcher, Gaylord
Bernard Gordon Danielson, Stillwater
James Albert Eberhard, Lake Elmo
John Martin Egeland, Fisher
Richard Anthony Eltgroth, Sauk
Centre
Daniel Arthur Fink, Maple Plain

Jerome Wallace Johnson, Hector
John Lawrence Krueger, Stillwater
Eugene Le Roy Lundquist, Blomkest
James Arnold Meyer, Kiester
Robert George Radke, Hastings
Charles Quintin Strack, Blue Earth
Wayne Erwin Torgerson, Belgrade

Bachelor of Science

- John William Austin, St. Paul,
Forestry
William Lee Brown, St. Paul, For-
estry, WITH DISTINCTION
Alan Ronald Bruce, White Rock,
S.D., Agriculture
Mary Ellen Byrne, Minneapolis,
Home Economics
Timothy George Curtis, Stillwater,
Forestry
Gayle Marlin Emberland, Willmar,
Agriculture
Larry LeRoy Foster, Cass Lake, For-
estry
Darrell Medard Frogness, Hayward,
Wis., Forestry, WITH HIGH DISTINC-
TION
David Harold Hansen, Duluth, For-
estry
Warren Lee Holzheid, White Bear
Lake, Forestry
Harold Arthur Kantrud, Fergus Falls,
Agriculture, WITH DISTINCTION
Myrtle Anne Patricia Klukas, Ada,
Home Economics
Garland Lee Kotek, Pine City, Agri-
culture
Michael James Leonard, Minneapolis,
Agriculture
Wayne William Marzolf, Preston,
Agriculture
Duane Werner Meyer, Glencoe, Agri-
culture, WITH DISTINCTION
Charles Ronald Neitzel, Minneapolis,
Agriculture
Margaret Ruth Oscid, Baudette,
Home Economics
Richard Neumann Pierson, Mound,
Forestry
William John Quello, Atwater, Agri-
culture
Herbert Bolanos Quinones, Guate-
mala, C.A., Agriculture
Lyle Richard Salmela, Sebeka, Agricul-
ture
Joan Louise Santo, St. Paul, Home
Economics
Alton Louis Schallock, Ladysmith,
Wis., Forestry
Mary Helen Schrer, Minneapolis,
Home Economics
Susan Helen Stockton, Wayzata,
Home Economics
Romaine William Thornton, Alexan-
dria, Agriculture
Conrad Roy Wetzol, St. Paul, Forestry

COLLEGE OF EDUCATION

Bachelor of Science

- Marilyn Lea Ackerson, Edina, WITH
DISTINCTION
Astrid Loree Anderson, Minneapolis,
WITH HIGH DISTINCTION
David William Bahnmann, West St.
Paul, WITH HIGH DISTINCTION
Heidrun Becker, Minneapolis, WITH
DISTINCTION
John Arthur Berge, A.A., Minneapolis
Lois Ronna Bialick, Minneapolis
Marvin Stanley Bloom, Minneapolis,
WITH HIGH DISTINCTION
Sandra Annette Boeskov, Minneapolis,
WITH DISTINCTION
Richard Andrew Borstad, B.A., De-
troit Lakes
Marcia Ann Bowles, B.A., Eau Claire,
Wis.
Ethel Willcox Brooke, Westfield, N.J.
Ainsley Ann Brye, Minneapolis, WITH
DISTINCTION
Jacqueline Jean Byers, Fairmont
Judith Irene Carlson, Marshall, WITH
DISTINCTION
Sharon Lee Connolley, Waseca
Florimond Robert Corens, Wayzata
Susan Elizabeth Davis, Anoka, WITH
HIGH DISTINCTION

Susan June Day, Minneapolis
 Patricia Diane Duckett, St. Louis Park
 Joan Marie Engberg, B.A., South St. Paul
 Diana D. Abrahamson Ensign, Wayzata
 Harvey Melvin Feldman, St. Louis Park
 Katherine Ann Fitzgerald, Minneapolis
 Tom R. Foster, St. Paul
 Duncan Cameron Fowler, A.A., Minneapolis
 Janet Carole Frerichs, Minneapolis, WITH DISTINCTION
 Richard Paul Gibbons, St. Paul
 Jesse Ardell Hall, International Falls, WITH DISTINCTION
 Gladys Mae Ham, St. Paul
 Delrene Joy Hanni, B.A., Zion, Ill.
 Diane Carol Erickson Hansen, Minneapolis
 Karen Jean Harveaux, St. Paul
 Clara Kurz Hockstedler, Minneapolis, WITH DISTINCTION
 Reinart Wayne Holland, Park Rapids
 Jacquelyn Kay Howell, East Chain, WITH DISTINCTION*
 Judith Jane Hunter, B.A., Freeport, Ill.
 Charlotte J. P. Johnson, B.A., Anoka
 Suzanne Karcher, Minneapolis
 Warren Dudley Kendrick, Excelsior
 Joyce Karen Kessel, La Moure, N.D.
 Helen Marie Knudson, Minneapolis
 John Stephen Kolles, B.A., St. Paul
 Dennis Arnold Krieg, A.A., Minneapolis, WITH DISTINCTION
 Michael Ronald Kulenkamp, Minneapolis
 Judith Ann Lewis, Minneapolis, WITH DISTINCTION
 Susan Javan Longstaff, Minneapolis
 Harriet Elaine Marsh, Minneapolis, WITH DISTINCTION
 Shirley Johnstone McPherron, Stillwater
 Patricia Ann McVey, Chicago, Ill.
 Peter Emmet Medernach, B.A., St. Paul
 Wayne Brent Meredith, Minneapolis
 Mary Ann Michels, St. Paul
 Doyle Walter Miller, St. Paul
 Elisabeth Anne Misure, Mahtomedi
 Eloise Marianne Monson, Minneapolis
 Ronald Joseph Musil, St. Paul
 Bernard Charles Nice, Sr., West St. Paul
 Karen Lois Nyholm, Minneapolis
 Lloyd Elmer Oehlke, Stewartville
 Ronald Lynn Panter, St. Paul
 Edward Eugene Paradis, Minneapolis, WITH DISTINCTION
 Sandra Lee Jacobson Prohofskey, St. Paul
 Karen Nell Rodahl, A.A., Austin
 Judith Vera Dostal Rolain, A.A., Edina
 Mary Ann Holstein Rolloff, Tracy, WITH DISTINCTION
 Sharon Ruth Hill Ross, Minneapolis, WITH DISTINCTION
 Myndel Lee Rotstein, St. Paul
 Betty Arlynn Sandberg, Minneapolis
 Robert Louis Scheibel, Bird Island
 Paula Luntz Schneiderman, St. Paul, WITH DISTINCTION
 Marjorie Grace Scholl, Minneapolis
 Karen Ruth Schwantes, B.A., Stillwater
 David George Seaberg, St. Paul
 Jo Anne Skinner, B.A., Endeavor, Wis.
 Lynnea Gail Snodgrass, Minneapolis
 James Joseph Stepnick, St. Paul
 Karen Louise Strachauer, Minneapolis
 Dale Everett Stroud, A.M.S., St. Louis Park
 Susan Elizabeth Sunderland, A.A., Minneapolis
 Gay Kathleen Thysell, Minneapolis
 Arla Marie Tollefson, Minneapolis, WITH DISTINCTION*
 Nancy Irene Williams Tremann, Excelsior

* Nursing Education Curriculum

Mary Rose VanPoperin, St. Paul
Donald LeRoy Varville, Minneapolis
Sandra Jane Vincent, Eau Claire,
Wis.
Mary Susan Walker, B.A., Minne-
apolis

Valerie Lee Wentzel, B.A., Minne-
apolis
Nancy Mae Westergren, Minneapolis
William Allen Yambrick, St. Paul

Master of Education

Richard Harlan Fischer, B.S., Stetson-
ville, Wis.
Jerry Stephen Hong, B.A., Minne-
apolis

Richard Raymond Kempster, B.S.,
Minneapolis
Lois Elizabeth Fritzell Top, B.S.,
New Haven, Conn.

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

Bachelor of Science

Dana Lee Allen, Howard Lake, Agri-
cultural Education
Patricia Daniels Benson, Tracy, Home
Economics Education, WITH HIGH
DISTINCTION
Louise Eunice Evans, Rosemount,
Home Economics Education

John Leo Hogan, Morton, Agricul-
tural Education
Sandra Diane Johnson, Minneapolis,
Home Economics Education
Loren Dean Nelson, Adams, Agricul-
tural Education
Kathleen Evelyn Swanson, St. Paul,
Home Economics Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

William Elliot Sullivan, Robbinsdale

Bachelor of Science in Business

David Hannard Abramson, St. Paul
Richard Welsley Alder, Minneapolis
Arvid Mahlon Baldwin, Montevideo
Charles Graham Baumann, Jr., St.
Paul
Arthur John Benschopf, Garrison, N.D.
Kenneth Irid Bjerck, Luverne

Eugene Boeckman, St. Paul
Alson Landon Bondy, Minneapolis
Ralph S. Borseth, Jr., Minneapolis
Jerome Richard Brust, Olivia
James Frederick Collett, Jr., Minne-
apolis
Greg Goodrich Glynn, Austin

Roger Andrew Granberg, St. Louis
Park

Robert John Halonen, Gilbert

Peter Allen Hoff, Fergus Falls

Donald Dwayne Johnson, McGregor

Donald James Johnson, Minneapolis

Richard Leslie Jorgensen, Minneapolis

Howard Jesse Kauffman, Minneapolis,

WITH HIGH DISTINCTION

James Richard Keyes, Richfield

Dennis Bartholomew Kowal, Brower-
ville

Richard Brian Lea, Minneapolis, WITH
DISTINCTION

Robert Joseph Mahoney, St. Paul

John Alan Mathews, Minneapolis

Walter Donald McCoy, B.A., St. Paul
Hoyt Thornton McIntyre, B.A.,

Albert Lea

Daniel Benjamin Otto, South St. Paul

James Leo Parshall, Grand Rapids

Jeffrey Mead Parsons, Minneapolis

Vernon E. Rude, St. Paul

Robert Peter St. Germain, St. Paul

Robert Loy Schaal, B.S., Minneapolis

Vernon Vincent Vobejda, Minne-
apolis

William Francis Wielinski, Little
Falls

Paul Francis Wojciak, Minneapolis

Allan Joseph Zlimen, Eveleth

Bachelor of Science in Economics

Howard David Glatzel, Minneapolis

Bruce Albert Richard, B.E.E., Minot,
N.D.

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

Bachelor of Agricultural Business Administration

Joseph Michael Houle, Forest Lake

Loren Russell Irvine, Wheaton

LAW SCHOOL

Bachelor of Laws

Dwain Holland Legler, B.A., Hastings
Howard G. Stacker, St. Paul

Stanley Martin Taube, B.A., Minot,
N.D.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing*

- Judith Ann Ahlberg, West St. Paul,
WITH DISTINCTION
Bonnie Carol Anderson, Green Bay,
Wis.
Anita Genevieve Bloom, Scandia,
WITH DISTINCTION
Nicole Virginny Bunn, Minneapolis
Joan Valerie Clink, Chippewa Falls,
Wis.
Marlys Mae Danielson, A.A., St. Paul
Deborah Jean Dodge, Minneapolis
Darlene O'Bena Dommel, Charles
City, Iowa, WITH HIGH DISTINCTION
Shirley Jean Hanks, Winnebago
Janet Lee Harris, Lynd
Judith Ann Harris, Lynd, WITH DIS-
TINCTION
Miriam Ruth Hazzard, Minneapolis
Judith Ann Holub, New Prague, WITH
HIGH DISTINCTION
Carol Ann Jakway, St. Paul
Ruth Ann Johnson, Storden
Phyllis Marie Ledin, Minneapolis
Sally Ann LeMere, Minneapolis
Barbara Jean Lubarski, Rochester
Barbara Marie Morken, Climax
Elgean Hazel Nordley, Minneapolis
Cynthia Ann Ofstad, Minneapolis,
WITH HIGH DISTINCTION
Margorie Diane Okstad, Winton
Ruth Charlet Olds, New Richland
Carol Sue Barness Overby, Minne-
apolis, WITH DISTINCTION
Phyllis Ann Peterson, Duluth
Patricia Mae Podoll, Fargo, N.D.
Priscilla I. B. Pol, St. Paul
Carolyn Ruth Prunty, Minneapolis
Suzanne Kathryn Rathbun, Minne-
apolis
Marlene Ann Reed, Minneapolis
Catherine L. Remes, New Prague
Sandra Ann Rommelmeyer, Minne-
apolis, WITH DISTINCTION
Joan Caroline Rudser, Golden Valley
Janet Virginia Samuelson, Minne-
apolis, WITH DISTINCTION
Katherine Elizabeth Schabel, Minne-
apolis
Karen Lee Shogren, Bloomington
Kathleen Marie Sonnesyn, Minne-
apolis
Harriet Elizabeth Steen, Ortonville
Florence Anna Stroebel, B.A.,
Rochester
Janet Pauline Thorpe, Minneapolis,
WITH DISTINCTION
Joyce Elaine Tow, Rose Creek
Linda Florence Youngs, Minneapolis,
WITH DISTINCTION

Bachelor of Science in Nursing Administration

Janet Marie Redgate, Brockton, Mass., WITH DISTINCTION

Bachelor of Science

- Nancy Jean Carlson, Beloit, Wis.,
Public Health Nursing
Beverly Lou Fancher, Minneapolis,
Public Health Nursing

* These degrees are conferred subject to the completion of nursing practice prior to June 15, 1963.

Karin Jean Johnson Grossman, Minneapolis, Medical Technology, WITH DISTINCTION**

Lila June Hertzberg, Minneapolis, Public Health Nursing

Betty Grace Johnson, Grantsburg, Wis., Public Health Nursing

Wilma Boothe Johnson, Ellsworth, Wis., Public Health Nursing, WITH DISTINCTION

Lucy Smathers Olson, Tower, Public Health Nursing, WITH HIGH DISTINCTION

Eunice Goldie Price, Minneapolis, Public Health Nursing

Dorothy I. Sorbo, St. Charles, Public Health Nursing

Susan Sprague, Rochester, Medical Technology**

Keneth Ray Williamson, St. Paul, Medicine

GRADUATE SCHOOL

Master of Arts

Norman Myron Abrahams, Minneapolis

B.A. '60, University of Minnesota. Field of Concentration: Psychology.

Marilyn Jeanne Anderson, Menahga

B.A. magna cum laude '58, Augsburg College. Field of Concentration: English.

Wilda Zoe Anderson, Mahtomedi

B.A. '57, University of Arizona. Major: Anthropology. Minor: History. Thesis: Red River Aspect Skeletal Remains.

Robert James Armstrong, Evanston, Ill.

B.A. '60, Grinnell College. Field of Concentration: Economics.

Paul Hugo Boerger, Edina

B.S. in Educ. '56, Concordia Teachers College. Field of Concentration: Curriculum and Instruction.

Linwood Carroll Brann, Eau Claire, Wis.

B.S. with honors '57, Wisconsin State College (LaCrosse). Field of Concentration: Educational Administration.

Charlotte McGill Brook, Winona

B.A. '56, College of St. Teresa. Field of Concentration: Music.

Rex Sehler Burns, Los Angeles, Calif.

B.A. '58, Stanford University. Field of Concentration: English.

MaryJoyce Ann Busch, Minneapolis

B.A. '61, College of St. Catherine. Field of Concentration: American Studies.

Jean Delores Carlson, McIntosh

B.S. '58, Bemidji State College. Field of Concentration: Curriculum and Instruction.

Robert Milton Copeland, Minneapolis

B.A. '60, Carleton College. Field of Concentration: Library Science.

Bruce John Cripe, Brainerd

B.A. '59, St. John's University (Minnesota). Field of Concentration: Industrial Relations.

Ardith Loreine Dale, Minneapolis

B.S. in Educ. '54, Drake University. Field of Concentration: Educational Psychology.

Harry James Davis, Duluth

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

James Allen Dunlop, Minneapolis

B.A. '59, Carleton College. Field of Concentration: Spanish.

** These degrees are conferred subject to the completion of practical work prior to June 15, 1963.

Allen S. Ehrlich, Cincinnati, Ohio

B.A. '60, University of Cincinnati. Major: Anthropology. Minor: Psychology. Thesis: The Tale the Trickster Tells: A Study in Apache Folklore.

Jean Adams Ervin, Northampton, Mass.

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

Gayle Edward Evans, St. Paul

B.A. '59, M.A. '61, University of Minnesota. Field of Concentration: Library Science.

Roger Adrian Fischer, Minneapolis

B.A. *cum laude* '60, University of Minnesota. Field of Concentration: History.

Sandra Joy Green, Minneapolis

B.A. *summa cum laude* '59, University of Minnesota. Field of Concentration: Zoology.

John Kingland Hinsverk, Hendricks

B.S. with distinction '61, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Ursula Nighat Jan, Lahore, Pakistan

B.A. '57, Kinnard College for Women; M.A. '59, Punjab University (India). Field of Concentration: Psychology.

James Herbert Jordal, Minneapolis

B.A. *magna cum laude* '55, B.S. '57, University of Minnesota. Field of Concentration: Education.

Keijo Karimata, Taira City, Japan

B. of Educ. '58, Tokyo University of Education. Field of Concentration: Curriculum and Instruction.

Young-Jin Kim, Soonchun, Korea

B.A. '59, University of Minnesota. Field of Concentration: Library Science.

Michael Louis Klein, Brooklyn, N.Y.

B.A. '60, University of Rochester. Field of Concentration: American Studies.

Lyman George Kopp, St. Paul

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

Ronell Antoinette Robison Laitinen, Minneapolis

B.S. with distinction '60, University of Minnesota. Field of Concentration: Speech and Theater Arts.

Dale Gordon Leathers, Lansford, N.D.

B.A. *cum laude* '60, University of Minnesota. Field of Concentration: Speech and Theater Arts.

Nancy Way Lienke, Minneapolis

B.S. '46, University of Minnesota. Major: Anthropology. Minor: Sociology. Thesis: The Ethnological Use of the Cornell Medical Index in an Ojibwa Indian Reservation Community.

Otto Paul Link, Minneapolis

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

Ronald Charles Mrachek, Winona

B.S. '58, Winona State College. Field of Concentration: Curriculum and Instruction.

Donald Frederick Nelson, Minneapolis

B.A. *magna cum laude* '53, University of Minnesota. Field of Concentration: German.

Nguyen Van Nha, Saigon, South Viet Nam

Diploma '58, University of Saigon. Field of Concentration: Education.

William Ellsworth Oyler, Jr., St. Paul

B.A. '54, Carleton College; B.S. '61, University of Minnesota. Major: German. Minor: French. Thesis: The Treatment of the Artist-Outsider in the Early Works of Thomas Mann and Hermann Hesse—A Comparative Study.

Ronald Gerald Palosaari, Hudson, Wis.

B.S. with honors '55, Bethel College. Field of Concentration: English.

Vasiliki Chouramanis Papandreou, Minneapolis

B.F.A. with honors '59, Minneapolis School of Art. Field of Concentration: Museology.

Francis Neil Puhl, Mason City, Iowa

B.S. '38, South Dakota State College. Field of Concentration: Journalism.

Henrik Rosenmeier, St. Paul

B.A. '54, Carleton College. Field of Concentration: English.

Robert Hoxie Rutford, St. Paul

B.A. '54, University of Minnesota. Major: Geography. Minor: Geology. Thesis: The Geography of the Sandy Lake and Sachiga Lake Area, Northwestern Ontario.

Mahmoud Sayrafiezadeh, Tabriz, Iran
B.A. '57, Colgate University. Field of Concentration: Mathematics.

Fred E. H. Schroeder, Manitowoc, Wis.

B.S. '60, University of Wisconsin. Field of Concentration: English.

Robert Philip Snow, St. Paul

B.S. '60, University of Minnesota. Major: Sociology. Minor: History. Thesis: Roles of Junior Colleges in Higher Education in Minnesota.

Zenith Ethel Svalgaard, Minneapolis

B.S. with distinction '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Donald Louis Tillman, Cold Spring
B.S. '59, St. John's University (Minnesota). Field of Concentration: Educational Administration.

Andrew Török, Budapest, Hungary

M.S. '58, Stanford University. Major: German. Minor: Philology. Thesis: Hermann Hesses Stellung Zur Musik.

Frank John Vukmonich, Minneapolis

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

Richard Charles Williams, Rochester

B.A. '55, Gustavus Adolphus College; B.S. '60, Mankato State College. Field of Concentration: Educational Administration.

Master of Business Administration

Franklin Ernest Fisher, Amherst, S.D.

B.S. '53, South Dakota State College. Field of Concentration: Business Administration.

Robert Lee Fjerstad, Minneapolis

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

Robert Henry Knoch, Richfield

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

Paul Robert Larson, Minneapolis

B.S.B. '60, University of Minnesota. Field of Concentration: Business Administration.

Alden Conrad Lorents, Bagley

B.S. '60, Concordia College (Moorhead). Field of Concentration: Business Administration.

Thomas Alan Sherman, St. Paul

B.B.A. '60, University of Minnesota. Field of Concentration: Business Administration.

Master of Fine Arts

Gopal Chandra Mitra, Patna, Bihar,
India

Diploma '53, Government School of Art (India). Major: Art. Minor: Art Education. Thesis: The Aesthetics of Contemporary Art in India and in the West.

Master of Forestry

Keith Roy McCaffery, Stanley, Wis.

B.S. with distinction '61, University of Minnesota. Field of Concentration: Forestry.

Master of Science

Nicholas Evald Berkholtz, Minneapolis

B.S. '56, Iowa State College. Major: Business Administration. Minor: Industrial Engineering. Thesis: Standards for Management Control.

Patrick John Borich, Carlton

B.S. with distinction '55, University of Minnesota. Major: Plant Pathology. Minor: Genetics. Thesis: Comparative Studies with Single-Urediospore Lines of Races 15B and 56 of *Puccinia Graminis Tritici*.

Eveline Carol Dierks, Rosemount

B.S. '55, South Dakota State College. Field of Concentration: Home Economics.

Edward Ronald French, Wickford, R.I.

B.S. *cum laude* '60, University of Rhode Island. Major: Plant Pathology. Minor: Botany. Thesis: Investigations on Root Rot of Soybeans, with Emphasis on *Fusarium Oxysporum* as the Causative Agent.

Theodor Bernhard Grage, Minneapolis

M.D. '55, Creighton University. Major: Physiological Chemistry. Minor: Microbiology. Thesis: Bioassay of Antidiuretic Hormone.

David John Hofmann, Albany

B. of Phys. with distinction '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Simultaneous Balloon Observations at Fort Churchill and Minneapolis During the Solar Cosmic Ray Events of July, 1961.

Lamartine Frain Hood, George School, Pa.

B.S. '59, Pennsylvania State University. Major: Dairy Industries. Minor: Agricultural Biochemistry. Thesis: A Study of the Emollient Properties of Fatty Table Spreads.

Norris William Jones, Minneapolis

B.A. '59, Carleton College. Major: Geology. Minor: Physical Chemistry. Thesis: The Relationships Between the Duluth Gabbro and the Dikes and Sills in the Vicinity of Hovland, Minnesota.

Harold Eugene Kautz, Cleveland, Ohio

B.A. '59, Western Reserve University. Major: Physics. Minor: Mathematics. Thesis: Experiments on the Diffusion of Copper into Antimony-Doped Germanium.

Karen Lenore Kuncl, Cicero, Ill.

B.S. with honors '60, University of Illinois. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Reaction of 4H-1-Benzothiopyran and 2,5-Dihydro-p-Dimethoxybenzene with Halocarbene.

Vance Gerald Leak, Worthington

B.S. with distinction '58, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: Diffusion of Tin and Silver in Liquid Silver.

James John MacKenzie, Cambridge, Mass.

B.S. '61, Boston College. Major: Physics. Minor: Mathematics. Thesis: A Computational Program for Clebsch-Gordan Coefficients.

Peter Augustus Mattson, Minnetonka

B.A. '57, Harvard University. Field of Concentration: Botany.

Donald Andrew Mills, Minneapolis

B.Ch. '58, University of Minnesota. Major: Physiological Chemistry. Minor: Microbiology. Thesis: N-Terminal Studies on the Proteolysis of Human Fibrinogen and Fibrin Plasmin.

Larry Joe Nutter, Belpre, Ohio

B.S. '60, Ohio University. Major: Geology. Minor: Geophysics. Thesis: Stratigraphy of the Newton Hamilton Formation (Onondagan) of South Central Pennsylvania.

John Edward Osborn, Minneapolis

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

Benjamin Willard Papermaster, Minneapolis

B.A. '56, Harvard University. Major: Microbiology. Minor: Anatomy. Thesis: Population Dynamic Studies of Immunologically Competent Cells.

Daniel Pearl, Duluth

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

James Robert Peterson, Chisago City

B.S. '61, California State Polytechnic College. Major: Soil Science. Minor: Botany. Thesis: Boron Fertilization of Corn and Alfalfa in Minnesota.

Eugene Francis Pilgram, Montevideo
B.S. '49, University of Minnesota. Field of
Concentration: Agricultural Economics.

James Darrell Punch, Conover, N.C.
B.S. with honors '59, North Carolina State
College. Major: Dairy Industries. Minor: Agri-
cultural Biochemistry. Thesis: Psychrophilic
Bacteria in Milk.

Dennis Lee Schweitzer, Cleveland,
Ohio

B.S.F. '61, Pennsylvania State University. Field
of Concentration: Forestry.

Henry Irwin Snider, Mattapan, Mass.
B.S. '60, Texas Western College. Major:
Geology. Minor: Geophysics. Thesis: Subsur-
face Geology and the Mt. Simon-Precambrian
Contact in Southeastern Minnesota.

James Arlo White, Ontario, Calif.

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

Master of Science in Aeronautical Engineering

Daryl Joseph Monson, West St. Paul
B.S. with distinction '60, University of Min-
nesota. Major: Aeronautical Engineering.
Minor: Mathematics. Thesis: Stress Analysis
of an Opening Parachute Canopy.

James Jay Paulsen, Worthington

B.S. with distinction '61, University of Min-
nesota. Major: Aeronautical Engineering.
Minor: Mechanical Engineering. Thesis: Theoretical
and Experimental Investigation of the
Dynamic Stability of a Parachute Stabilized
Ogive Cylinder.

Master of Science in Agricultural Engineering

Igal Amiri, Tel-Aviv, Israel

B.S. in Ag. Eng. '60, Israel Institute of Tech-
nology. Field of Concentration: Agricultural
Engineering.

Master of Science in Chemical Engineering

Dennis Glenn Nelson, Pine City

B.S. with distinction '61, University of Min-
nesota. Major: Chemical Engineering. Minor:
Physical Chemistry. Thesis: Mass Transfer
Coefficients in Agitated Solid-Liquid Suspen-
sions.

T. Narayana Sreenivasan, Trichirapalli,
Madras, India

B.Sc. '57, University of Madras; Diploma '59,
Indian Institute of Science. Major: Chemical
Engineering. Minor: Mathematics. Thesis:
Comparison of Graphical Methods of Adiabatic
Reactor Design.

Master of Science in Civil Engineering

Ajmal Ahmad Abbasi, Karachi,
Pakistan

B.E. (Civil) '61, N. E. D. Government
Engineering College. Field of Concentration:
Civil Engineering.

Safa AbdulWahid Al-Farhan, Bagh-
dad, Iraq

B.Sc. '59, College of Engineering (Iraq). Field
of Concentration: Civil Engineering.

Alberto Jose Alizo, Maracaibo, Venezuela

Engineer '61, University of Zulia. Field of Concentration: Civil Engineering.

Jayeshkumar Ramahlal Desai, Ahmedabad, India

B.E. (Civil) '61, University of Barpda (India). Field of Concentration: Civil Engineering.

David Edward Jankowski, South St. Paul

B.C.E. '61, University of Minnesota. Field of Concentration: Civil Engineering.

Chuan-Tau Lan, Taiwan, China

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

Ming-Ta Lee, Tainan, Taiwan, China

B.Sc. '57, Taiwan Provincial Cheng Kung University. Field of Concentration: Civil Engineering.

Rashmikant Maganbhai Patel, Kampala, Uganda

B.E. (Civil) '61, University of Poona. Field of Concentration: Civil Engineering.

Tirunelveli K. Ramanathan, Tirunelveli, India

B.E. '57, University of Madras; M.Tech. '58, Indian Institute of Technology. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Walter Donald Maddox, Chicago, Ill.

B.S. '53, D.D.S. '57, Northwestern University. Major: Dentistry. Minor: Pathology. Thesis: Multiple Basal Cell Tumors, Jaw Cysts and Skeletal Defects: A Clinical Syndrome.

Master of Science in Electrical Engineering

Paul Leroy Hill, Minneapolis

B.S. with distinction '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Electrical Linearity of Muscle Tissue.

Charles Bruce Johnson, Sioux City, Iowa

B.S. '57, Iowa State University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Properties of Vacuum and Gas Diodes.

Robert Royal Longhenry, St. Paul

B.E.E. with distinction '55, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Compensation for Second-Order Saturating Feedback Control Systems.

Roger Edward Lund, Tyler

B.S. with high distinction '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Measurement of Plasma Radiation by Means of Coaxial Systems.

John Laverne Plumb, Harlan, Iowa

B.S.E.E. '55, Iowa State University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Flicker Noise in Junction Transistors.

Clark Wellington Searle, Middle River

B.S. with distinction '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Spin-Wave Resonance in Permalloy Films.

George Rembert Smythe, St. Paul

B.S.E.E. '55, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Low Frequency Parametric Amplifier.

Master of Science in Industrial Engineering

David Price Vanarsdall III, Minneapolis

B.M.E. '60, University of Minnesota. Field of Concentration: Industrial Engineering.

Master of Science in Mechanical Engineering

Abir Arbel, Tel-Aviv, Israel

B.S. (M.E.) '60, Israel Institute of Technology. Field of Concentration: Mechanical Engineering.

Gerald Warren Brothers, South Pasadena, Calif.

B.S. with distinction '60, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: Viscosity Influence on Pressure Drop and Film Thickness Measurements in Vertical Annular Two-Phase Flow.

Allen Hum, Crystal

B.Mech.E. '51, University of Minnesota. Field of Concentration: Mechanical Engineering.

Shian-shaw Koong, China

B.S. in Eng. '54, National Taiwan University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Mass Transfer from a Rotating Disk in a Uniform Stream.

Master of Science in Medicine

Morton Irving Brookler, Winnipeg, Manitoba, Canada

B.A. '54, M.D. '58, University of Manitoba. Major: Medicine. Minor: Pathology. Thesis: Mycotic Infections of the Adrenal Glands.

Richard Franz Emslander, Eichstaett, Germany

M.D. '54, Wuerzburg University (Germany). Major: Medicine. Minor: Hematology. Thesis: Blood Volume Studies and Ferrokinetics in Polycythemia.

Joachim Ludwig Opitz, Rochester

M.D. '53, University of Goettingen (Germany). Major: Medicine. Minor: Physiology. Thesis: The Effect of Adrenocosteroids on the Blood Vessel of the Skin in Patients with Rheumatoid Arthritis.

Richard Earl Sedlack, Chicago, Ill.

B.S. '51, M.D. '56, Northwestern University. Major: Medicine. Minor: Physiology. Thesis: The Metabolism of Serum Albumin in Selected Disorders of the Gastrointestinal Tract.

Master of Science in Metallurgical Engineering

Dontula Virabhadra Swami, Hyderabad, India

B.Sc.(Hons) '54, M.Sc. '57, Andhra University. Major: Metallurgical Engineering. Minor: Geology. Thesis: Reactions of Xanthates on Pyrite.

Master of Science in Orthopedic Surgery

Arnold Louis Hamel, Minneapolis
B.S. '50, Holy Cross College; M.D. '54, Marquette University. Major: Orthopedic Surgery. Minor: Anatomy. Thesis: The Collapsing Spine.

Ronald Lee Linscheid, Rochester
B.S. '51, Kansas State College; M.D. '55, Kansas University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Pleomorphic Rhabdomyosarcomas of the Extremities.

Donald Mitsuo Yamaguchi, Honolulu, Hawaii

B.A. '53, University of Hawaii; B.S. '55, University of North Dakota; M.D. '57, Harvard University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Carpal Tunnel Syndrome: A Clinical and Pathological Study.

Master of Science in Pathology

Nelson Howard Stone, St. Paul

M.D. '57, Ohio State University. Major: Pathology. Minor: Physiological Chemistry. Thesis: Experimental Gastric Ulcerogenesis in Rats.

Master of Science in Surgery

James Joseph Mongé, Joliet, Ill.

B.A. '49, University of Chicago; M.D. '55, Northwestern University. Major: Surgery. Minor: Pathology. Thesis: Carcinoma in the Region of the Papilla of Vater: A Clinicopathological Study of Cases That Have Undergone Radical Pancreatoduodenal Resection.

Certificate of Specialist in Education

Donald Arthur Swanson, Brainerd

B.S. '51, M.A. '58, University of Minnesota.
Field: School Psychological Services.

Doctor of Philosophy

Hashim Aly Abdel-Rahman, Cairo, Egypt

B.Sc.(Hons) '54, M.Sc. '58, Ain Shams University (Egypt). Major: Entomology. Minor: Plant Pathology. Thesis: A Study on the Ecology of the Indian Meal Moth, *Plodia interpunctella* Hb., with Emphasis on Its Relation to Stored Grain Fungi. Major Adviser: Prof. A. C. Hodson.

Fred Bernard Abeles, New York, N.Y.

B.S. '57, Cornell University. Major: Botany. Minor: Agricultural Biochemistry. Thesis: Cell Free Photoreduction. Major Adviser: Prof. A. H. Brown.

Gordon Randolph Antelman, Aberdeen, S.D.

B.S. in Econ. with high distinction '52, M.A. '58, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Bayes Decision Theory: Insensitivity to Non-Optimal Design. Major Adviser: Prof. I. R. Savage.

Karel Denis Bicha, La Crosse, Wis.

B.S.(Educ.) with honors '58, University of Wisconsin. Major: History. Minor: Economics. Thesis: Canadian Immigration Policy and the American Farmer, 1896-1914. Major Adviser: Prof. R. C. Lochr.

Alfred H. Boersch, Ft. Collins, Colo.

B.A. '48, University of Kansas City; M.A. '50, University of Minnesota. Major: English. Minor: Philosophy. Thesis: *The Sense of Beauty, The Idea of Beauty, and The Beauty of Nature, Theories of Beauty in England, 1700-1760.* Major Adviser: Prof. S. H. Monk.

Benjamin Anton Buck, Mankato

B.A. '46, Lawrence College; M.A. '50, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: Success in Teaching as Attained by Men in Elementary Education as Compared with Women in Elementary Education and as Compared with Men in Secondary Education. Major Adviser: Prof. O. E. Domian.

Wei-Kong Chen, Taiwan, China

B.S. in Eng. '54, National Taiwan University; M. of Eng. '58, Tokyo Institute of Technology. Major: Metallurgy. Minor: Physical Chemistry. Thesis: A Study of the Anomalous Electrical Resistivity Change Accompanying Plastic Deformation in Silver-Palladium Alloys. Major Adviser: Prof. M. E. Nicholson.

Roswell Strong Coles, Jr., Minneapolis

B.S. '55, Wagner College; M.S. *cum laude* '57, Long Island University. Major: Microbiology. Minor: Agricultural Biochemistry. Thesis: The Effect of Oleic Acid on the Malic Enzyme of *Lactobacillus Arabinosus*. Major Advisers: Drs. H. C. Lichstein and Palmer Rogers.

Marlene Anderegg DeLuca, La Crosse, Wis.

B.A. '45, University of Minnesota; B.S. '58, Hamline University. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Studies of the Rapid Uptake of Inorganic Phosphate P_{252} by Mitochondria as Related to Oxidative Phosphorylation. Major Adviser: Dr. P. D. Boyer.

Rollin Marshall Dennistoun, Rosemount

B.S. '47, M.S. '52, University of Minnesota. Major: Agricultural Economics. Minor: Agricultural Education. Thesis: Some Economic Aspects of an Agricultural Machinery Leasing Program. Major Adviser: Prof. T. R. Nodland.

William Guenther Dewald, Chicago, Ill.

B.S. '50, Northwestern University; M.A. '56, University of Minnesota. Major: Economics. Minor: Statistics. Thesis: Monetary Control and the Distribution of Money. Major Adviser: Prof. O. H. Brownlee.

Huseyin Siret Ener, Izmir, Turkey

B.S. '47, University of Istanbul; M.S. '53, Agricultural and Mechanical College of Texas. Major: Pharmacology. Minor: Physiological Chemistry. Thesis: The Estimation of Epinephrine, Norepinephrine, and Aldrin (a Chlorinated Naphthalene Derivative) in Mammalian Tissue Employing Biological and Chemical Methods of Assay, and Some Considerations of Toxicological Effects of Aldrin. Major Adviser: Dr. H. N. Wright.

Jonathan Pascal Green, Great Neck, N.Y.

B.S. '57, Pennsylvania State University. Major: Zoology. Minors: Entomology and Philosophy. Thesis: An Analysis of Morphological Color Change in Two Species of Brachyuram Crustaceans. Major Adviser: Prof. G. C. Stephens.

Jess Dyson Hartley, Jr., Greensburg, Pa.

B.S. in Educ. '42, Indiana State Teachers College; M.A. '48, University of Houston. Major: English. Minor: History. Thesis: A Study of the Imagery in Edmund Spenser's *The Faërie Queene*. Major Adviser: Prof. Huntington Brown.

Don Mark Hausdorff, East Lansing, Mich.

B.A. '49, University of Colorado; M.A. '56, Columbia University. Major: American Studies. Thesis: Depression Laughter: Magazine Humor and American Society, 1929-33. Major Adviser: Prof. Brom Weber.

Grace Beatrice Hinrichs, Red Wing

B.A. *cum laude* '57, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Associative Learning: All-or-None or Incremental? Major Advisers: Profs. D. L. LaBerge and H. P. Longstaff.

Robin Pearsall Hoople, Winnipeg,
Manitoba, Canada

B.A. '53, M.A. '54, Syracuse University. Major: American Studies. Thesis: *Leaves of Grass* (1860) as Opinion: A Study of Whitman's Understanding of the Major Problems of 1860 American Culture as Reflected in the Third Edition of *Leaves of Grass*. Major Adviser: Prof. M. C. Turpie.

James Preston Houck, Jr., Pittsburgh,
Pa.

B.S. '57, M.S. '59, Pennsylvania State University. Major: Agricultural Economics. Minor: Economics. Thesis: Demand and Price Analysis of the United States' Soybean Market. Major Adviser: Prof. E. W. Learn.

Lydia Lucille Inman, Ames, Iowa

B.S. '40, M.S. '50, Iowa State University. Major: Education. Minor: Home Economics. Thesis: Exploratory Study of Household Equipment Subject Matter for Secondary School Home Economics Curricula. Major Adviser: Prof. R. R. Ford.

Rochelle Joan Johnson, Lanesboro

B.A. *magna cum laude* '54, University of Minnesota. Major: Psychology. Minor: Philosophy. Thesis: Operant Reinforcement of an Autonomic Response. Major Adviser: Prof. Kenneth MacCorquodale.

Charles Donald Kavaloski, South St.
Paul

B.S. with distinction '59, M.S. '59, M.S. '60, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: (p,d) Nuclear Structure Studies on Medium Mass Nuclei. Major Adviser: Prof. N. M. Hintz.

John Richard Keenan, St. Paul

B.S. *summa cum laude* '57, College of St. Thomas. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Synthetic Studies in the Pyrrole and Indole Series. Major Adviser: Prof. Edward Leete.

Terry Brank Kinney, Jr., Middleboro,
Mass.

B.S. '55, M.S. '56, University of Massachusetts. Major: Poultry Science. Minor: Statistics. Thesis: Estimates of Genetic Parameters and Responses to Selection in Meat Type Poultry Populations. Major Adviser: Prof. E. L. Johnson.

Paruchuri Rama Krishnaiah, India

B.Sc. (Hons) '54, University of Madras; M.A. '57, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Simultaneous Tests and the Efficiency of Generalized Balanced Incomplete Block Designs. Major Adviser: Prof. Leonid Hurwicz.

Robert Andrew Lester, Seattle, Wash.

B.A. *cum laude* '56, Seattle University; M.A. '59, Marquette University. Major: Psychology. Minor: Educational Psychology. Thesis: The Relationship of SVIB and ACT Scores to Differential Academic Achievement. Major Adviser: Prof. R. F. Berdie.

Paul Woolman Lukens, Jr., Duluth

B.S. with distinction '52, University of Minnesota; M.S. '56, Agricultural and Mechanical College of Texas. Major: Zoology. Minors: Botany and Geology. Thesis: Some Ethnozoological Implications of Mammalian Faunas from Minnesota Archeological Sites. Major Adviser: Prof. D. W. Warner.

Milford Burton Lytle, Minneapolis

B.A. *cum laude* '49, M.S.W. '51, M.A. '57, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Recidivism Scale for Adult Male Probationers from the Minnesota Multiphasic Personality Inventory. Major Adviser: Prof. E. P. Torrance.

Richard Rolland Martin, Minneapolis

B.A. '56, College of Idaho; M.A. '58, State University of Iowa. Major: Speech Pathology. Minor: Educational Psychology. Thesis: Direct Magnitude-Estimation Scaling of Stuttering Severity Utilizing Auditory and Auditory-Visual Stimuli. Major Adviser: Prof. E. H. Hendrikson.

Sylvester Henry Massmann, Melrose

B.A. '51, St. John's University (Minnesota); M.A. '54, The Catholic University of America. Major: Political Science. Minor: Philosophy. Thesis: Approaches to Freedom in the Twentieth Century. Major Adviser: Prof. B. E. Lippincott.

Norma Louise McCoy, Vancouver,
Wash.

B.A. '56, Stanford University; M.A. '60, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Effects of Test Anxiety on Children's Performance as a Function of Instructions and Type of Task. Major Adviser: Prof. B. K. Ruebush.

Robert Donald Milholland, Little
Rock, Ark.

B.S. '57, M.S. '59, Oklahoma A. and M. Col-
lege. Major: Plant Pathology. Minor: Botany.
Thesis: Biological Adjustments of Rust Fungus
Cells to Wheat Cells. Major Adviser: Prof.
Helen Hart.

Roxy Ru-Jien Ni, China

B.Sc. '58, Cheng Kung University; M.S. '60,
University of Minnesota. Major: Organic
Chemistry. Minor: Physical Chemistry. Thesis:
Biogenesis of Substances of Medicinal Interest.
Major Adviser: Prof. Edward Lecte.

Carmen Ordell Nohre, Houston

B.S. with high distinction '50, M.S. '60, Uni-
versity of Minnesota. Major: Agricultural Eco-
nomics. Minor: Economics. Thesis: Optimal
Organizations for Farms and Normative Supply
Responses for Hogs and Beef in South Central
Minnesota. Major Adviser: Prof. H. R. Jensen.

Norman James Norton, Percy, Ill.

B.A. '58, Southern Illinois University; M.S.
'60, University of Minnesota. Major: Botany.
Minor: Geology. Thesis: Palynology of the
Upper Cretaceous and Lower Tertiary in the
Type Locality of the Hell Creek Formation.
Major Adviser: Prof. J. W. Hall.

Glen Allan Omans, Philadelphia, Pa.

B.A. with honors '51, Michigan State Uni-
versity; M.A. '52, University of Michigan.
Major: English. Minor: French. Thesis: Mediaeval
French Poetic Forms in Victorian Poetry.
Major Advisers: Profs. Franz Montgomery and
G. R. Stange.

Jack F. Rhode, Mauston, Wis.

B.B.A. with honors '53, M.B.A. '54, Univer-
sity of Wisconsin. Major: Business Adminis-
tration. Minor: Psychology. Thesis: A Pilot
Study of the Prediction of Salesmen's Success
in an Electronics Organization. Major Ad-
viser: Prof. H. G. Heneman.

Jerome Odell Sather, Minneapolis

B.S. '57, M.S. '59, University of Minnesota.
Major: Mathematics. Minor: Physics. Thesis:
The Initial-Boundary Value Problem for the
Navier-Stokes Equations in Regions with Mov-
ing Boundaries. Major Adviser: Prof. J. B.
Serrin.

Robert Wallace Seabloom, St. Paul

B.A. '53, M.S. '58, University of Minnesota.
Major: Fishery and Wildlife Management.
Minor: Forestry. Thesis: Adrenocortical Ac-
tivity in the Meadow Vole. Major Adviser:
Prof. J. R. Beer.

Clyde Eugene Stauffer, St. Paul

B.S. with honors '56, M.S. '58, North Dakota
State University. Major: Agricultural Biochem-
istry. Minor: Microbiology. Thesis: The Es-
teratic Enzymes of Wheat Germ. Major Ad-
viser: Prof. R. L. Glass.

Rose Edith Stedman, Minneapolis

B.A. '44, University of Arizona; M.A. '57,
Claremont College. Major: Education. Minor:
Sociology. Thesis: Relation of Masculinity-
Femininity to Perception of Self, Chosen Oc-
cupation, and College Teaching Among Uni-
versity Honor Students. Major Advisers: Profs.
R. E. Eckert and C. G. Wrenn.

John William Velz, St. Paul

B.A. with high distinction '53, M.A. '54, Uni-
versity of Michigan. Major: English. Minor:
Greek. Thesis: Shakespeare and the Classical
Tradition: A Reference Guide to Published
Commentary in English, 1660-1960. Major
Adviser: Prof. Huntington Brown.

John Lawrence Walker, Jr., Evans-
ville, Wis.

B.S. '56, University of Wisconsin; M.A. '58,
Duke University. Major: Physiology. Minor:
Mathematics. Thesis: Phasic Efflux of Various
Ions from Frog Heart Muscle. Major Adviser:
Dr. Victor Lorber.

Lloyd Claude Warner, Delta, Utah

B.S. '55, M.S. '59, Utah State University.
Major: Agronomy. Minor: Agricultural Plant
Physiology. Thesis: Factors Affecting the Fate
and Phytotoxicity of 3-Amino-2,5-Dichloro-
benzoic Acid (Amiben). Major Adviser: Prof.
Richard Behrens.

Doctor of Philosophy in Surgery

Ward Orin Griffen, Jr., Minneapolis
B.A. '49, Princeton University; M.D. '53,
Cornell University. Major: Surgery. Minor:
Physiology. Thesis: Observations on the In-
fluence of Hypothermia on the Gastric Secre-
tory Mechanisms. 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 was graduated, as well as the degree which he holds, and, in some cases, the field of his major interest.

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



President's Reception

MARCH, 1963

The members of the graduating class, their families, and friends, are invited to attend the President's Reception immediately after the Commencement ceremonies. It will be held in the Main Ballroom of the Coffman Memorial Union.

Those in the receiving line will be President and Mrs. O. Meredith Wilson, Dr. and Mrs. Fred Harvey Harrington, Miss Kathryn Wagnild, President of the Coffman Union Board of Governors, and Mr. Norman Uphoff, President of the Minnesota Student Association.

Assisting as hosts at the Reception will be members of the Union Board of Governors and its committees, and of the following honorary societies: Arrowhead, Chimes, Grey Friars, Innocents Society, Iron Wedge, Mortar Board, Phoenix, and Silver Spur.

Refreshments will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the refreshment tables.



UNIVERSITY OF MINNESOTA

June Commencement, 1963

SATURDAY EVENING, JUNE 15, 7:30 P.M.

MEMORIAL STADIUM

THE BOARD OF REGENTS

The Honorable Charles W. Mayo, M.D., Rochester
First Vice President and Chairman

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable A. J. Olson, Renville

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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 twelfth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded more than 166,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 30,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester 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. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five 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 Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, the University Theatre, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings renowned artists and lecturers to more than a million and a half persons living in the area it serves.

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 thing and expresses itself in many ways. Contributions from them have made it pos-

sible 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. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses 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 tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

Much of the University's thought and energy must be directed to planning for the anticipated increases in future enrollments. At present nearly half of the students participating in a program of higher education in the state attend the University of Minnesota. If our enrollment continues to increase as expected and if the other colleges in the state continue their enrollment growth according to the estimates they have themselves made, not less than 55,700 full-time college-level students will be attending the University in 1972. This will mean that more teachers, more civil service staff members, more land and more buildings will be needed.

THE 1963 LEGISLATURE granted the University \$63,502,050 for general operations and maintenance during the 1963-65 biennium. In addition, the University received \$8,028,242 for University Hospitals; \$5,309,483 for special appropriations, including special extension and research activities; \$12,478,700 for new buildings, land, and for the rehabilitation of existing buildings; and \$964,135 for University of Minnesota, Morris.

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 1961-62 showed that the University's current income amounted to \$97,799,438.73 and the current expenditures, transfers, and adjustments amounted to \$97,800,406.54. Of the total received, \$8,728,544.63 came from student tuition and fees; \$11,688,647.86 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,687,180.03 from intercollegiate athletics; \$15,065,926.00 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$23,140,602.50 from trust funds, including gifts, grants, donations, and income from endowments and research con-

tracts for instruction, research, prizes, scholarships, and the care of the sick. Also \$2,699,858.78 came from federal appropriations for instruction, research, and agricultural extension. The state provided \$34,808,668.93 or 35.6% for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$10,204,703.01.

Commencement marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund and the various Special Project Programs including scholarships, medical and technological research, and college service funds which are administered by the Department of University Relations, 213 Morrill Hall, on the Minneapolis Campus.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.

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 6:30 to 7:00 p.m., they will hear the Frances Miller Brown Memorial Bells played from Northrop Memorial Auditorium by Mr. Daniel Chorzempa, SLA '63, University 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 7:00 to 7:30 p.m., the University Concert and Symphony Bands, conducted by Assistant Professor Frank Bencriscutto, D.M.A., Bandmaster, will play:

<i>March of the Steel Men</i>	- - - - -	Charles Belstering
<i>Amparito Roca</i>	- - - - -	Jaime Texidor
<i>March and Chorus</i>	- - - - -	George Frederick Handel
<i>Carousel Waltz</i>	- - - - -	Richard Rodgers
<i>Golden Gate</i>	- - - - -	Frank Erickson

PROCESSION: At 7:30 p.m. the procession will enter the Stadium, led by the Mace Bearer, Professor Walter K. Vivrett, M.Arch., School of Architecture, Faculty marshal. The procession includes candidates for degrees, marching by colleges, the faculty, distinguished guests, and the Regents. The line of march for degree candidates is as follows: 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; University of Minnesota, Morris; 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; School of Dentistry; College of Medical Sciences; and the Graduate School. Faculty marshals will be Professor Vivrett; Professor Frank E. DiGangi, Ph.D., College of Pharmacy; Professor Raymond G. Price, Ed.D., College of Education; and Professor W. Edwin Emery, Ph.D., College of Science, Literature, and the Arts. During the procession the Bands will play:

<i>Procession of the Nobles</i>	- - - - -	Rimsky-Korsakov
<i>Grand Symphony for Band</i>		
<i>III. Apotheosis</i>	- - - - -	Hector Berlioz

* 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 limited 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

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 George F. Hall, Ph.D., Campus Pastor, Lutheran Student Foundation.

SPEAKING FOR THE UNIVERSITY AND INTRODUCTION OF GUESTS: President O. Meredith Wilson, Ph.D., University of Minnesota.

CONFERRING OF ROTC CERTIFICATES: Vice President Willey will introduce Lt. Colonel Robert J. Elliot, USA, Professor of Military Science; Captain Edward M. Morgan, USN, Professor of Naval Science; and Major Frederick D. Stockdale, 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 Wilson.

CONFERRING OF DEGREES: Vice President Malcolm M. Willey, Ph.D., Academic Administration, 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: Professor Burton Paulu, Ph.D., General Extension Division; Dean Horace T. Morse, Ph.D., General College; Dean Errett W. McDiarmid, Ph.D., College of Science, Literature, and the Arts; Dean of Admissions and Records Robert E. Summers, M.E., University College; Dean Rodney A. Briggs, Ph.D., University of Minnesota, Morris; Dean Athelstan Spilhaus, D.Sc., Institute of Technology; Dean Harold Macy, Ph.D., Institute of Agriculture; Dean Walter W. Cook, Ph.D., College of Education; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Associate Dean Charles V. Netz, Ph.D., College of Pharmacy; Dean William J. Lockhart, S.J.D., Law School; Dean William T. S.

Order of Events

Thorp, D.V.M., College of Veterinary Medicine; Assistant Dean Mellor R. Holland, D.D.S., School of Dentistry; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Bryce L. Crawford, Jr., 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 Harold H. Alford, M.A., General Extension Division; Associate Dean Alfred L. Vaughan, Ph.D., General College; Associate Professor Mabel K. Powers, Ph.D., College of Science, Literature, and the Arts; Professor Benjamin J. Lazan, Ph.D., Institute of Technology; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Professor Herbert G. Heneman, Jr., Ph.D., School of Business Administration; Professor Willard J. Hadley, Ph.D., College of Pharmacy; Professor John J. Cound, LL.B., Law School; Assistant Dean Ralph L. Kitchell, D.V.M., College of Veterinary Medicine; Professor James R. Jensen, D.D.S., School of Dentistry; Assistant Dean William H. Fleeson, M.D., College of Medical Sciences; Professor William G. Shepherd, Ph.D., Graduate School.

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: the audience and Professor Schuessler.

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

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

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

Second Lieutenant, Armor

Mark H. Kohler, St. Paul

Paul G. Rehkamp, Marshall

Second Lieutenant, Army Intelligence Service

Gerald E. Parshall, St. Paul

Thomas Wexler, Minneapolis

Second Lieutenant, Artillery

Alden D. Ackels, Winona

Millard M. Garrison, Minneapolis

Thomas B. Hess, Wayzata

Richard P. Hill, Minneapolis

Ralph M. Hoag, Excelsior

James C. Starkey, Minneapolis

Richard G. Vingers, St. Paul

Second Lieutenant, Corps of Engineers

Rodney T. Goodell, Grand Rapids

Second Lieutenant, Infantry

Melvyn D. Gustafson, Hopkins

Second Lieutenant, Medical Service Corps

Erwin E. Abrams, Minneapolis

Richard E. Cook, Hastings

Donald R. Gessner, Duluth

Rudolph E. Gulstrand, Minneapolis

John H. Merrill, St. Paul

Second Lieutenant, Ordnance Corps

Richard M. Dunlop, St. Paul

Myles H. Grunewald, St. Paul

Charles B. Gustafson, Minneapolis

Robert A. Parker, Jr., St. Paul

Second Lieutenant, Signal Corps

Marvin C. Ingber, St. Paul

Allan S. Robins, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Eugene E. Cook, Ellsworth, Wis.	Edward M. Nelson, St. Louis Park
Kurt A. Driscoll, Anoka	Charles E. Nightengale, Alexandria
Robert P. Gustafson, St. Paul	William M. Ryan, Clinton, Iowa
Donald E. Hanson, Minneapolis	James E. Traver, Arlington Heights, Ill.
James H. Harmon, Anoka	Douglas R. Wellumson, Edina
Kenneth E. Hendrickson, Minneapolis	Charles R. Witt, Bemidji
Judsen R. Marquardt, Wausau, Wis.	

Ensign, USNR

Tucker D. Ausman, Minneapolis	James W. Mueller, St. Paul
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Ensign, CEC, USN

Roger E. Ring, Medford	Roger G. Schroeder, Faribault
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Ensign, SC, USN

James L. Barsness, Minneapolis	John C. Jordahl, Albert Lea
John R. Bergquist, Minneapolis	Richard E. Miller, Pipestone
Joseph F. Hering, St. Paul	Robert C. Ullman, Albert Lea

Second Lieutenant, USMC

Allan P. Bakke, Miami, Fla.	Leonard R. Krolak, Stephen
Richard F. Fullerton, Lakewood, Ohio	John H. Warner, Minneapolis
Stuart L. Henning, Milwaukee, Wis.	

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Lance W. Berglund, St. Paul	Louis L. Ochocki, Osseo
Brian G. Gnauck, Shakopee	Allan L. Olson, Dawson
Richard C. Griffith, Warsaw	Ronald C. Sacre, Minneapolis
Roger A. Gruenke, St. Paul	Jack S. Welsh, Mankato
Richard W. Kautt, St. Paul	William P. Wright, Minneapolis
Gary C. Kleinsmith, New Ulm	Dennis J. Zurbay, Minneapolis
Laughlin D. McLean, St. Louis Park	

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

Shirlie Marie Lundgren, Minneapolis Rudolph O. Potuzak, Minneapolis

Civil Engineering Technician Certificate

Charles Edward Heitmiller, Stillwater John David Petrich, Coon Rapids

Electrical Engineering Technician Certificate

Philip Theodore Layeux, Minneapolis

General Engineering Certificate

Ronald Clarence Nelson, Minneapolis Richard Edgar Nordquist, St. Paul

Industrial Engineering Technician Certificate

John Joseph Rishavy, St. Paul

Mechanical Engineering Technician Certificate

Irvin John Cooper, St. Paul

Associate in Mortuary Science

Thomas Robert Acklam, Racine, Wis.
John Herman Almlie, B.A., Bricelyn
Raynord Charles Apfel, B.A., Wood
River, Neb.
Richard Edward Baker, St. Paul
Wayne Franklin Bateman, Dakota
Marvin Frederick Beier, B.S., Portage,
Wis.

Richard Leo Birk, Monticello
James Lynn Boxwell, Amarillo, Tex.
Larry Donovan Butler, Hastings, Neb.
Craig Kent Chenoweth, Nashua, Iowa
Jeffrey Lynn Cleveland, Waverly, Iowa
Larry Ross Davis, Winnebago
Ben H. Engbrecht, Bridgewater, S.D.
Richard James Flaig, Alexandria

Michael Dale Gaynor, Minneapolis	John Michael Mulhall, Sioux City, Iowa
Wayne Eldon Hamilton, Denver, Colo.	Richard Anthony Poirier, Faribault
Glenn Thomas Hansen, Little Marais	Paul Gregory Rehkamp, Marshall
Brent Arlen Hanson, Maynard	Richard Arthur Roth, Roseau
Everett George Hantge, Brownton	Bernard Jerome Schad, Maple Lake
James Jackson Hendricks, White Bear Lake	Ronald Duane Schroeder, Hartley, Iowa
George Hoyt Hewell, Jacksonville, Fla.	Spencer David Segal, St. Paul
Robert James Hladky, Hopkins	Roger Dale Sheets, Breckenridge
James Harold Jansen, Mahtomedi	John Michael Soman, Livingston, Wis.
Daniel James Javor, Hibbing	Merlynn Berdell Sorrenson, Laurel, Neb.
Eldon S. Jensen, Faith, S.D.	Robert Sloan Stanley, Grand Forks, N.D.
Stephen Warren Johnson, Duluth	Robert Charles Wass, Mason City, Iowa
Ralph Mortimer Knight III, Windsor, Vt.	Arthur James Williams, B.S.B., A.A., Lake Worth, Fla.
Alan Dean Kruthoff, Lake View, Iowa	John B. Wilson, Sibley, Iowa
David Edward Lee, Minneapolis	Dennis Gene Zornig, Rock Rapids, Iowa
Craig Hall Leyda, B.S., Bloomfield, Iowa	
Mark Conley Lindsey, Page, N.D.	
Delbert Dale Lindstrom, Ida Grove, Iowa	
F. Malcolm McMullen, B.S., Largo, Fla.	

GENERAL COLLEGE

Associate in Arts

David Ray Anderson, Edina	Thomas Neil Charbonneau, St. Paul
Thomas Marvin Anderson, Minne- apolis	Donald William Christ, Minneapolis
James Paul Baker, Minneapolis	David Harrison Clark, Minneapolis
Francine Rae Baseman, Minneapolis	Daniel Keith Cloninger, Robbinsdale
Michael Lee Beal, Minneapolis	Howard Lee Clyman, Minneapolis
Robert Andrew Becchetti, Minne- apolis	John David Curry, Minneapolis
Robert Eugene Becroft, St. Paul	Corinne Eleanor Custer, Minneapolis
Wayne H. Behm, St. Paul	Shirley Marie Dahl, Minneapolis
Clayton Roland Benish, St. Paul	Vicki Marie Dahlberg, Minneapolis
Joseph Kenneth Benson, Blooming Prairie	Dennis Ralph Dahlstrom, Minneapolis
Bruce John Berry, Crosby	Roger Urs Danielson, St. Paul
Judith Ann Bolz, Aurora	Marjorie Marian Dawson, St. Paul
Janet Marie Broms, Minneapolis	Richard William Deppa, Robbinsdale
Marianne Lois Carland, Minneapolis	Dennis Ronald Detjen, Minneapolis
Marcia Jean Carney, Minneapolis	Diane Marie Dick, Wayzata
Carol Louise Catlin, Buffalo	Bonita Marlene Dietz, New Prague
	Stephen Alan Dodge, Robbinsdale
	Maria Victoria Donohue, St. Paul
	Raymond Carl Dressel, Minneapolis

Gail Elizabeth Dryer, New York, N.Y.
 Dennis Allen Dushaw, Sauk Rapids
 Bruce Lee Dynes, Minneapolis
 James Milo Dyrdaahl, Minneapolis
 Clifford Edwin Egeland, Jr., Minneapolis
 Loren John Elinger, Blooming Prairie
 Sharon Lee Elmhurst, St. Louis Park
 David Melvin Elmquist, Minneapolis
 Rodney Norman Elton, South St. Paul
 Samuel Evans Engdahl, St. Paul
 Robert Joseph Engman, Jr., Wayzata
 Gerald Albert Engstrom, Minneapolis
 Stanley Loren Erstad, Lake Wilson
 Conrad John Ertz, St. Paul
 David Gerald Flipp, St. Paul
 Roman G. Flynn, Belgrade
 James William Freeman, St. Paul
 Kent Edward Goar, Minneapolis
 Michael Gerald Gorski, Minneapolis
 Roger Dale Goski, St. Paul
 Sanford Wells Grant, Minneapolis
 Victor James Gunst, Minneapolis
 William Joseph Gutterman, St. Paul
 Alvin George Haes, Jr., St. Paul
 Kenneth William Haider, St. Paul
 William Edward Hamilton, Osseo
 Gary Freeman Hanley, Minneapolis
 Michael Joseph Hart, Minneapolis
 Lonna Gay Hayes, St. Paul
 Arthur James Hedman, St. Paul
 Fred Robert Hempel, Minneapolis
 Robert Peter Hildebrandt, St. Paul
 David Louis Hoffman, Minneapolis
 Kenneth Willis Hoffman, Jr., Minneapolis
 Marlys Marie Hoisve, Robbinsdale
 Arnold Potter Holcomb, Minneapolis
 Delroy Gene Howard, Spring Grove
 Patricia M. Huber, Bloomington
 David Laurence Huebener, St. Paul
 Thomas Erling Hughes, Minneapolis
 Edward Harold Jarosch, St. Paul
 Kevin Charles Jents, North St. Paul
 Jerry Lee Johnson, Minneapolis
 Judy Grace Johnson, Minneapolis
 Roger Allen Johnson, Minneapolis
 Sharon Mary Johnson, Minneapolis
 Graham Elliot Kairies, Minneapolis
 Richard Henry King, Grand Rapids
 William Robert Kinn, Hopkins

Ronald Bruno Koebnick, Buffalo Lake
 Frances Margaret Kokesh, Hopkins
 Lawrence Lee Kringen, Minneapolis
 Duane Victor Krippner, Minneapolis
 Joellyn Kronick, Minneapolis
 Gerald Allen Laird, Aitkin
 Dennis Ryan Langanki, Minneapolis
 David LeRoy Lewis, Minneapolis
 Althera Amy Linder, Stillwater
 Linda Zelda Mack, Minneapolis
 Lynda Jean MacKay, Edina
 Roger Douglas Mahre, Minneapolis
 Robert Edward Malone, Minneapolis
 Alberta Ann Manning, Hales Corners, Wis.
 Thomas Mathew Marty, Minneapolis
 Marilyn Maynard, St. Paul
 Donn R. McCoy, Fairfax
 Richard James McFarland, Wayzata
 Michael John Mc Graw, Minneapolis
 Kenneth Charles McMorrان, Minneapolis
 Susan Elizabeth Melin, Minneapolis
 Joyce Rita Meuwissen, St. Paul
 Richard James Miles, Jr., Golden Valley
 Ann Marie Miller, Anoka
 Kathleen Ann Mliner, Minneapolis
 William James Mockenhaupt, St. Paul
 Gary John Modean, St. Paul
 Joan Evelyn Montgomery, St. Paul
 Constance June Mooney, Montevideo
 Clifford James Mottaz, Jr., St. Paul
 Thomas Leo Murlowski, St. Paul
 Peter Anthony Nasvik, West St. Paul
 Dottie Lee Oberndorf, Minneapolis
 Constance Ann Ogorek, Orleans
 Carol Jean Olson, Minneapolis
 Michael Peter Olson, Owatonna
 Mary Louise Opstad, White Bear Lake
 Ronald Nils Orfield, Minneapolis
 Marshall Kent Osman, Minneapolis
 William Robert Otto, St. Paul
 Samuel Guy Parker, Bloomington
 Charles Gustaf Parten, Long Lake
 Bruce George Peck, Chicago, Ill.
 Grant Frederick Petersen, St. Louis Park
 Dale Weston Peterson, Minneapolis
 David Carl Peterson, St. Paul

Janet Louise Peterson, Minneapolis
 Richard Holm Peterson, St. Paul
 Paul Louis Pierce, Jr., Anoka
 Susan Margaret Pilarski, St. Paul
 Ronald James Reed, Minneapolis
 Steven George Revor, Minneapolis
 Patrick William Riley, St. Paul
 Ramona Marie Rivers, St. Paul
 Mary Ann Roban, Minneapolis
 James Charles Rook, Minneapolis
 David James Rudberg, Minneapolis
 Michael David Russinik, Minneapolis
 Susanne Anthony Salas, Minneapolis
 Raymond Leonard Salden, Mound
 William Oscar Sallberg, Minneapolis
 Larry Norbert Scapanski, South St. Paul
 Lawrence Henry Schloer, St. Paul
 Larry Wayne Schluter, St. Paul
 Florence Elizabeth Schroetter, St. Paul
 Gene Robert Schuldt, St. Paul
 Dawn Rose Shearer, St. Paul
 Leonard Joseph Sibinski, Columbia Heights
 Donald Dean Siegrist, Minneapolis
 Thomas John Simcoe, Wayzata
 James Leonard Sitarz, Minneapolis
 Brian George Smith, Minneapolis
 DeAnn Mary Smith, Minneapolis
 Irving Oliver Smith, Minneapolis
 James Warren Smith, Minneapolis
 Larry George Smith, St. Paul
 Harijs Sneiders, Minneapolis
 Roberta Carol Soelberg, Minneapolis
 Gerald Kenneth Sognesand, Minneapolis
 Paul Robert Stafford, Minneapolis
 William H. Stensrud, Minneapolis
 William Welch Stewart, Minneapolis
 Carol Ann Stucinski, St. Paul
 John Anthony Swaja, Minneapolis
 Susan Lee Swanson, Minneapolis
 Floyd Harlan Swenson, Minneapolis
 Dorothy Jane Swirtz, Minneapolis
 Patricia Louise Symington, Minneapolis
 Thomas Allan Syverson, Blue Earth
 Mary Elizabeth Tacheny, Minneapolis
 Peter Jon Tatro, Minneapolis
 Norman Leslie Thomson, New Brighton
 Richard Rolland Toenjes, St. Paul
 Melvin Theodore Tollefson, Minneapolis
 Cameron Bruce Turnbull, Minneapolis
 Clifford Terrence Wangen, Minneapolis
 William Douglas Welte, Minneapolis
 Carol Ann Wold, Minneapolis
 Dennis Emil Wormley, St. Paul
 Dennis Earl Wortman, St. Paul
 Cynthia Jane Yerxa, Edina

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

Associate in Liberal Arts

Elsie Bertha Wickberg Anderson, Minneapolis
 Gerald Clyde Anderson, Minneapolis
 David Raoul Brown, St. Louis Park
 John Weldon Busher, St. Paul
 Barbara Ann Butt, Long Lake
 Patrick Henry Cain, Minneapolis
 Herbert Halvor Conrow, Minneapolis
 Annette Hope Down, Minneapolis
 Catherine Sophia Hofstede, Minneapolis
 Joan Catherine Kemble, Fridley
 Darryl Steven Krause, Minneapolis
 Lester Herman Lentz, Minneapolis
 Sandra June Mazion, St. Paul
 Dennis Stuart Medd, Waconia
 Stella Marie Muckenthaler, Paxico, Kan.
 Catherine Grace Mulcare Mullen, St. Paul
 Judy Lynn Nelson, St. Paul
 Ronald Charles Nelson, Minneapolis
 Jane Alison Parker, Minneapolis
 Gayle E. Smith, St. Paul
 Harro Rudolf Weise, Minneapolis

Bachelor of Arts

- James Eugene Abate, Keewatin
 Dennis Alden Abbott, Minneapolis,
 CUM LAUDE
 Ann Louise Lindstrom Abeles, St.
 Louis Park
 Erwin Edward Abrams, Minneapolis
 Leslie Fraya Abramson, Minneapolis
 Alden Dale Ackels, Winona
 Michael Ken Adams, Minneapolis
 William Phillip Ahern, Albert Lea
 Arnold Robert Alanen, Tamarack
 Karla Kay Alberg, South St. Paul
 Sandra Rae Alcorn, West Union, Iowa
 Barbara Ann Alford, Montgomery,
 Ala.
 Betty Ann Segred Almquist, R.N., St.
 Paul
 William James Amery, Minneapolis
 David James Anderson, Benson, CUM
 LAUDE
 Donald Arthur Anderson, Brooklyn
 Center
 Gary Roy Anderson, St. Paul
 Jan Ellen Anderson, Minneapolis,
 CUM LAUDE
 Jay Clifford Anderson, Minneapolis
 Joyce Ruth Anderson, Barrington, R.I.
 Mary Jo Anderson, Minneapolis
 Mary Trisko Anderson, A.A., Minne-
 apolis
 Patricia Ann Skildum Anderson, St.
 Paul, MAGNA CUM LAUDE
 Richard Paul Anderson, Blooming
 Prairie, MAGNA CUM LAUDE
 Robert Kenneth Anderson, Robbins-
 dale
 Robert LeRoy Anderson, Minneapolis
 Roger Charles Anderson, Minneapolis,
 CUM LAUDE
 Scott Pearce Anderson, Minneapolis
 Susan Emilia Anderson, Orono
 Virgene Mary Andren, Austin
 Judith Anne Applebaum, St. Paul
 Julie Louise Argue, Albert Lea
 Timothy Campbell Armstrong, Min-
 neapolis
 Neil Ira Arnold, St. Paul
 Janet Ruth Landrum Aufderheide, St.
 Paul, SUMMA CUM LAUDE
 Tucker Dalrymple Ausman, Minne-
 apolis
 Anne Glover Austin, Northfield
 Richard Ellis Bailey, Minneapolis,
 CUM LAUDE
 Reva Marie Bakewell, Browerville
 Paul John Bakke, Thief River Falls
 Richard William Bakke, New
 Brighton
 Honora Baldes, Rochester
 James Calvin Baldwin, Austin
 Marjorie Gaylord Bardeen, Urbana,
 Ill.
 Jeffry Parker Barnes, Minneapolis,
 MAGNA CUM LAUDE
 Roberta Ruth Barrett, South St. Paul,
 CUM LAUDE
 Jerry Nels Barringer, Eagle Bend
 Robert Russell Barth, Minneapolis
 Robert Keith Barton, St. Paul
 Bryan John Baudler, Austin
 David Evan Baudler, Austin
 Marianne Bernadette Beaudoin,
 Duluth
 Gary Kent Becker, Minneapolis
 James Miles Beckley, Edina
 Diana Lynn Beddow, Edina
 Ronald Alan Beggs, Edina
 Paul John Bekowies, Minneapolis
 Edwin Marshall Bell, Minneapolis
 James Edward Bell, Fargo, N.D.,
 SUMMA CUM LAUDE
 Gerald Jacob Bender, Minneapolis
 Edward Leonard Benson, Minneapolis
 David Donald Berglund, Minneapolis
 John Roy Bergquist, Minneapolis
 John Edward Bergstedt, Jr., St. Paul
 Glenn Robert Bergstrom, Minneapolis
 Gary Dennis Bernard, Minneapolis
 David Lee Berquam, St. Paul
 Susan Frances Berstein, St. Louis Park,
 CUM LAUDE
 Richard Martin Biery, St. Louis Park,
 CUM LAUDE
 William Daniel Biessener, St. Paul
 Roberta Kay Binford, B.S.N., Osceola,
 Wis., CUM LAUDE
 John Hale Bix, Minneapolis
 Grace Lucille Blair, Ekalaka, Mont.

Maurice Dean Blehert, St. Paul
 Sandra L. Reitz Blehert, St. Paul,
 SUMMA CUM LAUDE
 Larry John Blocker, Minneapolis
 David Jon Blomberg, Minneapolis
 William Louis Bloom, West St. Paul
 Neil Saunder Blumberg, Minneapolis
 Robert Albert Boettger, Montevideo
 James Andrew Bohrer, Edina
 Diane Kay Bomsta, Edina
 Isaac Leon Bonder, Chicago, Ill.,
 CUM LAUDE
 Gerald Thomas Bongard, St. Paul
 Paul Edward Boog, A.A., St. Paul
 Margaret Drusilla Boone, Wayzata
 Janice Elaine Borden, Minneapolis,
 MAGNA CUM LAUDE
 Carol Ann Borgerson, Minneapolis
 David Armitage Boyd IV, Rochester
 Beverly Jean Brabec, Albert Lea
 Catherine Ann Brady, South St. Paul
 Chloe Louise Brand, Lambertton
 Robert Leo Brandt, Minneapolis
 Margaret Adelaide Brennen, Seneca
 Falls, N.Y.
 Zinta Brivkalns, Minneapolis
 David Raoul Brown, Minneapolis
 Marcia Elizabeth Brown, Minnetonka
 Village
 Vija Malda Ameriks Brown, Minne-
 apolis
 Raymond Paul Brozovich, A.A.,
 Hibbing
 Richard Arthur Brustad, Bagley
 Kenneth Owen Bryant, Minneapolis
 David Paul Buck, Minneapolis
 Jon Harold Buck, Austin
 Dennis Linden Buer, Atwater
 Nancy Ann Page Burns, Anoka
 James William Busse, Minneapolis
 Donald Wallace Bussewitz, Minne-
 apolis
 Donald Levang Bye, A.A., Pequot
 Lakes, CUM LAUDE
 Judith Jean Cady, Brooklyn Center
 Patrick Anthony L. Cady, Minneapolis
 Thomas Richard Campbell, Rochester,
 CUM LAUDE
 James Edwin Campion, Minneapolis,
 CUM LAUDE
 Harry Charles Carlson, Minneapolis

John Gregory Carlson, Minneapolis,
 SUMMA CUM LAUDE
 Laurel Helen Carlson, Minneapolis
 Michael Francis Carlson, Minneapolis
 Michael Lee Carrier, New Ulm
 Neill Thomas Carter, Willmar
 James Vincent Casey, Jr., St. Paul
 Thomas Farrell Casey, Jordan
 Richard Brooke Castle, Salem, Ore.
 Henry Chazankin, St. Louis Park
 Michael Mayer Chemino, Mendota
 Heights
 Karen Marie Christensen, Morgan
 Jean Louise Christianson, Minneapolis
 Susan A. Clark, Minneapolis
 Curtis Allan Cleveland, Detroit Lakes
 Mary L. McBurney Clinton, Minne-
 apolis, MAGNA CUM LAUDE
 Paula Adeline Coduti, Minneapolis
 Marvin Mayer Cohan, St. Paul, CUM
 LAUDE
 Malcolm Stuart Cohen, Minneapolis,
 SUMMA CUM LAUDE
 Stephen Marlin Coleman, Minne-
 apolis
 Eugene Elmer Cook, Ellsworth, Wis.
 Nancy Rae Cook, Minneapolis
 Judith Alice Copeland, St. Louis Park
 Kathryn Juel Copsey, Minneapolis
 Judith Martin Corlett, Minneapolis,
 MAGNA CUM LAUDE
 Thomas More Cracraft, Minneapolis
 Mary Catherine Crawford, Superior,
 Wis.
 Shirley Ann Crohn, Minneapolis,
 SUMMA CUM LAUDE
 John Steven Crouch, Minneapolis
 Michael John Cudahy, St. Paul
 Richard Thompson Cummings, Jr.,
 Minneapolis, CUM LAUDE
 Judy Ann Cunningham, St. Paul
 Margery Lillian Cunningham, St.
 Paul, SUMMA CUM LAUDE
 Lawrence Raymond Cutlan, Excelsior
 Diane Lee Daehlin, Fergus Falls
 James Anthony Daire, Minneapolis
 Sonja Gale Dalsbo, Fridley
 Marlene Gerry Daniels, St. Paul
 Marlene A. Larson Daws, Minneapolis
 Betty Virginia Decker, Minneapolis

Donald Michael DeCourcy, Jr., St. Paul, MAGNA CUM LAUDE
 Richard Fred DeGeer, Minneapolis
 Joseph Thomas Delaney, St. Paul
 Donald Delos Dickinson, Jr., Vern-dale, CUM LAUDE
 Lawrence Edward Doffing, Minneapolis
 Thomas Mathias Donndelinger, New Trier, CUM LAUDE
 Karen B. Trask Doolen, Billings, Mont.
 Steven Richard Drosman, Fairmont
 Margot Ann DuFrene, St. Paul
 Charles Kenneth Dunham, Minneapolis
 James Christian Ekern, St. Paul
 Karen Marie Ekberg, St. Paul
 David Charles Ekroth, Superior, Wis.
 John Stewart Elam, Mound
 Larry Daniel Engelmann, Austin
 Jerry Clarence Erickson, St. Paul
 Lee Edward Erickson, St. Paul
 Linda Hildegard Erickson, Lake Park
 Richard Oscar Erickson, Minneapolis
 Ronald Edward Erickson, St. Paul
 Timothy R. Erlander, Minneapolis, CUM LAUDE
 Michael Anthony Esch, B.S., St. Paul
 Judith Helen Espelien, Minneapolis, CUM LAUDE
 George Anthony Estel III, Hopkins
 Margaret Ann Evans, Minneapolis
 Carole J. Ewing, Thief River Falls
 Dennis Leon Falk, Golden Valley
 Yvonne Claire Falk, St. Paul
 Ronald Walter Fallness, Hibbing
 Sandra Gail Cutler Feldman, Winthrop, Mass., CUM LAUDE
 Nancy Ann Feldstein, St. Paul
 Karen Anne Gartner Felien, Minneapolis
 Robert Allen Findlay, Richfield
 Janice Gay Finkelstein, Minneapolis, CUM LAUDE
 James Joseph Finn, Minneapolis
 Henry Robson Fiola, Duluth
 Hedy Helen Edith Fischbach, Cincinnati, Ohio
 James Arthur Fischer, Linton, N.D.
 John Allan Fisher, St. Paul
 Elizabeth Kay Flannery, Minneapolis
 Peter Fleischer, Minneapolis
 Rachel Anna Foley, Mounds View, MAGNA CUM LAUDE
 Richard Paul Ford, Lawrence, Mass.
 Robert Francis Forston, Minneapolis
 Allen John Franzen, A.A., Chisholm, MAGNA CUM LAUDE
 James Thomas Freer, Hopkins
 Bethel Evelyn Anderson Freidline, Fridley
 John Clifford Frentz, Mankato
 Kenneth Masato Fujino, St. Louis Park
 Charles Mallory Gaile, A.A., Minneapolis
 Darryl Michael Galush, Minneapolis
 Jeffrey Cheely Ganfield, St. Paul
 Adele Judith Garten, Minneapolis
 Judy Marie Gentile, St. Paul
 Douglas George, Minneapolis
 Paul Don Gerber, Minneapolis
 Gregory Rither Germaine, Minneapolis
 Mary Barbara Scott Giebink, Minneapolis, CUM LAUDE
 David Lee Gilbertson, St. Paul
 James Harlan Gilbertson, Spring Lake Park, MAGNA CUM LAUDE
 Steven LeRoy Glowka, Minneapolis
 Nicholas Joseph Goergen, Austin
 John Frank Goettl, Bloomington
 Melvin Bert Goldberg, St. Paul
 Michael Donald Goldman, Minneapolis
 John Harmon Goodman, Minneapolis
 Phillip Bruce Goodman, Minneapolis
 David Allen Gortner, St. Paul, CUM LAUDE
 Dorothy Goth, St. Paul Park, CUM LAUDE
 Gretchen Ann Grabow, Minneapolis, CUM LAUDE
 Ronald Frederick Graceman, Minneapolis
 John Remington Graham, Brainerd
 Ralph Raymond Grams, Edina, CUM LAUDE
 Bart Eugene Grassie, Minneapolis
 Lillian Morgenstern Grayson, Brooklyn, N.Y.

Betty L. Radley Green, St. Louis Park
 Lionell Neal Greenberg, St. Paul
 Ernest A. Greene, St. Paul
 Richard Curtis Griffith, Warsaw, CUM
 LAUDE
 Ethel Roberta Welch Griggs, St. Paul,
 SUMMA CUM LAUDE
 Jane Carolyn Brown Gross, Minne-
 apolis, MAGNA CUM LAUDE
 David Jalmer Gustafson, Eveleth
 Melvyn Douglas Gustafson, Hopkins
 Jon Robert Gustason, Minneapolis
 Joseph John Gutenkauf, St. Paul,
 CUM LAUDE
 Sandra Lee Guth, Excelsior
 Robert Thomas Haake, Winona
 John Peter Hagen, Mankato
 Gerald Joseph Haiden, Millerville
 Judith Ann Haider, St. Paul
 Gerald Layton Hall, Coon Rapids
 Richard Harleth Hall, Minneapolis
 Maribeth Halloran, Minneapolis, CUM
 LAUDE
 David William Halper, St. Paul
 Gretchen Laden Halpern, Glen Ullin,
 N.D.
 Lee Richard Halseth, Minneapolis
 Dea Halverson, Excelsior
 Donald Elmer Halvorson, A.A., Min-
 neapolis
 Thomas David Hammond, South St.
 Paul
 Gary Leslie William Hamre, Minne-
 apolis
 DuWayne Allen Hansen, Minneapolis
 David Luther Hanson, Albert Lea,
 CUM LAUDE
 George Daniel Harden, Minneapolis
 Warren David Harris, St. Paul
 Richard William Hauer, Faribault
 William John Hay, Worthington,
 CUM LAUDE
 James Richard Hayden, Hutchinson,
 CUM LAUDE
 Susan Stephanie Heaseman, St. Paul
 Donald Owen Hedman, McIntosh
 Ella Louise Hedman, Grand Rapids
 William Edward Heikkila, Virginia
 Lyle Raymond Heim, Milaca
 Charles Alan Heinemann, Minne-
 apolis
 James Douglas Henderson, Spring
 Valley
 Joseph Florian Hering, St. Paul
 Gail Stephanie Hersh, Minneapolis
 Janet Marie Hetland, Minneapolis
 Jean Marjorie Heuton, Minneapolis
 Thomas Alton Hiatt, Sheffield, Ala.
 Sara S. Whitney Higgins, Nashville,
 Tenn.
 Robert Milton Hiland, Jr., Farlington,
 Kan., CUM LAUDE
 Cynthia Ann Gabbert Hilden,
 Eugene, Ore.
 Richard Peder Hill, Minneapolis
 Judith Rae Shussin Hobbs, Minne-
 apolis
 Joyce Clarine Hoff, St. Paul
 Eugene Joseph Hokanson, Minne-
 apolis
 Edwin Victor Holmberg, Minneapolis
 Douglas Siats Holst, International
 Falls
 Eugene Nelson Holt, St. Paul
 Kenneth Donald Hopkins, Minne-
 apolis
 Elizabeth Jo B. Hostad, A.A., Minne-
 apolis
 Marlow Sutton Hotchkiss, St. Paul,
 SUMMA CUM LAUDE
 Wayne Douglas Hoyt, Milford, Del.
 Doris Louise Humnick, Minneapolis
 John Fairchild Hunt, St. Paul
 John Frederick Husband, Rochester
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 Daniel Jerome Rhodes, Robbinsdale
 Roger Eugene Ring, Medford
 Walter Michael Roles, Minneapolis
 Robert Norman Romfo, Minneapolis
 Karl Arthur Schopmeyer, Minneapolis
 Edward Arthur Schuck, Minneapolis
 Leonard Albert Smith, Minneapolis

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 Ralph Archie Stone, Minneapolis
 Earl John David Swanson, Edina
 Jon Keith Swanson, Minneapolis
 John Vernon Swartch, Minneapolis
 John Raymond Syrjanen, Kinney,
 WITH DISTINCTION
 Jon Earl Tammel, Spring Valley
 Curtis A. Teske, Faribault
 James William Tetrud, Minneapolis
 Alfred Wayne Thompson, Montevideo
 Merle Clark Thompson, Lakeville
 Dale Riese Thronson, Minneapolis

Robert John Tibor, Rollingstone
 Michael Grant Tilbury, Minneapolis
 Gerald Wayne Timm, Garfield
 John Edward Trollman, Annandale
 Harlan Eugene Vergin, Benson
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 Richard Louis Wagner, Minneapolis
 Eugene Thomas Waldorf, St. Cloud
 Kenneth Charles Weber, Cold Spring
 Elwood Emery Welk, Jr., Minneapolis
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Bachelor of Geological Engineering

Verlyn Gerald Louks, A.A., Claremont David Anthony Puetz, Minneapolis

Bachelor of Geophysics

Henry Alvin Baski, Duluth

Bachelor of Mathematics

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 Jerry Roman Hordinsky, Drake, N.D.,
 WITH HIGH DISTINCTION
 Darrell Duane Johnson, Litchfield,
 WITH DISTINCTION
 Eugene Anthony Scales, Minneapolis

Leslie Carl Smith, Jr., Mahtomedi
 Roger Vaughn Stageberg, Orr, WITH
 DISTINCTION
 Kenneth Edward Unger, International
 Falls, WITH HIGH DISTINCTION

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 Darroll Dean Bengtson, Minneapolis
 Lyle David Biedscheid, Minneapolis
 Stephen Goodrich Brown, Hutchinson,
 WITH DISTINCTION
 Paul Francis Buccowich, Ely, WITH
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 Robert Michael Buchmeier, St. Paul
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 Claude Donald Casey, Minneapolis
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 John Leslie Danielson, Fosston
 Raymond Richard Eberhart, Hutchinson,
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 David Anthony Gregerson, Bemidji
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 Douglas Jacob Kluge, St. Paul
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 James Peter Legus, Robbinsdale
 Lynn David Lindquist, Minneapolis
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 Lawrence Hitoshi Maeda, St. Paul
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Bachelor of Metallurgy

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Jean Bezoier, Rochester, Home Economics
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Oral Arne Evanson, Peterson, Agriculture
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 Melvin Loren Kessel, Brice lyn,
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 Home Economics, WITH DISTINC-
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 ture, WITH DISTINCTION
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 Agriculture
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 Agriculture
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 ture
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Home Economics
Mona-Lisa Elsa Wedin, Minneapolis,
Home Economics, WITH DISTINCTION

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 Lorraine June Toms Conley, Excelsior, WITH HIGH DISTINCTION
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 Carol Jacquelyn Cote, Minneapolis
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 Waneta Sue Downing, Albert Lea
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Dianne Ardell Fagen, St. Paul

Maren Elaine Fail, Adel, Iowa, WITH
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Ann Elizabeth Farnham, Stillwater

John Christ Ferber, Henning

Marvis Jean Ferguson, Richfield, WITH
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Carole Yvonne Fick, Vergas, WITH
DISTINCTION

Carolyn Lee Fignar, Minneapolis

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Gloria Deane Fjone, Freeborn

Dclores Otsea Fletcher, St. Louis Park

Donald Anton Fondrick, Minneapolis

Margaret Ann Formo, Minneapolis,
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Sharon Rosalie Forsline, Cook

Murray Bruce Forsyth, Carlyle, Sas-
katchewan, Canada

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Debbie Kay Ganzhorn, Minneapolis

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Paul

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George W. Gibbs, Brooklyn, N.Y.

Evelyn Mary Ginnaty, Minneapolis

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Kandiyohi

William Howard Glumack, Virginia

Arthur J. Gohl, St. Paul

Louise Rebecca Goldberg, St. Paul

Rochelle Masse Goldman, Minneapo-
lis, WITH DISTINCTION

Jo-Ann Marie Golle, Minneapolis,
WITH DISTINCTION

LeRoy James Goodenough, Rice Lake,
Wis.

Janis Holmbo Googins, Anoka

Janet Luree Gorder, Albert Lea

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Elizabeth Kay Harmala, Cloquet,
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apolis

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apolis

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Chrisanne Alice Hokanson, Minne-
apolis

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Paul, WITH HIGH DISTINCTION

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 WITH DISTINCTION
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 Theresa Nancy Jurkovich, A.A., Buhl
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 Gary Allen Kambeitz, Minneapolis
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 Ross Gerald Kiihn, Bricelyn
 Robert George Kissell, St. Paul
 Brigitte Klaus, Minneapolis, WITH DIS-
 TINATION
 Jerrold Jerry Kline, A.A., Minneapolis
 John Roger Klinger, Minneapolis
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 Park
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 pewa Falls, Wis.
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 Patricia Catherine Mulholland, St.
 Paul
 Colleen Rose Murray, International
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 WITH DISTINCTION
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 Barbara Lynne Samuels, Duluth
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 JoAnn Shock, Nashwauk
 Richard James Shumway, Northfield
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 Manley Fredrick Smith, Marble, WITH DISTINCTION
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 Bradley Gordon Tatting, Columbia Heights
 Mary Jane Tauscheck, New Ulm*
 Arlene Carol Bjurstrom Telke, Minneapolis, WITH DISTINCTION
 Charlotte Helene Templin, Gibbon
 Mary Jo Ann Thomas, Minneapolis, WITH HIGH DISTINCTION
 Rosalee Avon Thomas, Mora, WITH DISTINCTION
 Sharon Kay Thompson, Minneapolis, WITH HIGH DISTINCTION
 Trudy Jean Thomsen, Minneapolis
 June Pierce Tilden, B.A., Bloomington
 Richard Dwain Trumble, Minneapolis
 Robert Andrew Turk, St. Paul
 Maureen Van Heerden, Port Elizabeth, South Africa
 Irene Ann Vannelli, St. Paul, WITH DISTINCTION
 Robert John Vanusek, Minneapolis
 Kathryn Elise Wagnild, Minneapolis
 Carl Imanuel Wahlstrom, Braham, WITH DISTINCTION
 Judith Barbara Walter, Buffalo Lake

Mary Alice Wannarka, Comfrey, WITH HIGH DISTINCTION
 James Vernon Ward, Minneapolis, WITH DISTINCTION
 Susan Mary Ward, Cambridge, WITH DISTINCTION
 Eleanor Jean Baker Wartnick, Minneapolis
 Juanita Elaine Wee, B.A., Huxley, Iowa
 Roberta Anne Weinard, Robbinsdale
 Michael Joseph Weiszel, South St. Paul, WITH DISTINCTION
 Donna Rose Welbes, B.A., St. Paul
 Sandra Marie Westcott, St. Paul
 James Jess Wheeler, Robbinsdale, WITH DISTINCTION
 Mary Bertine Wiberg, Minneapolis
 Gloria Goldie Wiener, St. Paul
 Gilbert Avery Wilson, B.B.A., Minneapolis
 Lawrence John Wilson, A.A., Wayzata
 Luise Anne Wilson, Edina
 Joanne Carolyn Wind, St. Paul, WITH DISTINCTION
 Joan Marie Wolens, St. Paul, WITH DISTINCTION
 Virginia Nalley Woodson, B.A., St. Paul
 James Nicholas Woog, South St. Paul
 Janet A. Wykes, B.A., St. Paul
 Harold James Wynia, Cokato
 Dorothy Lewis Yund, B.A., Minneapolis
 Mary Kathryn Zaber, Albert Lea, WITH DISTINCTION
 Ruth M. Fife Zink, B.A., Minneapolis

Master of Education

Frank Philip Arendt, Two Harbors
 Ruth Eleanor Bertell, B.S.N.A., Negaunee, Mich.
 Charles Layton Byrne, B.S., Minneapolis

Sally Joanne Harding, B.S.N., Des Moines, Iowa
 Arnold David Silberman, B.A., Minneapolis
 Emmy Lou Post Wilson, R.N., B.S.N., Lancaster, Pa.

* Nursing Education Curriculum

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

Bachelor of Science

- | | |
|---|---|
| <p>Carol Joy Andersen, Minneapolis,
Home Economics Education</p> <p>Carol Lynn Anderson, Richfield,
Home Economics Education</p> <p>Donald Gene Barstad, Littlefork,
Agricultural Education</p> <p>Carol Jean Bergman, Hutchinson,
Home Economics Education</p> <p>Weslyn Concidine Biever, Minneapo-
lis, Home Economics Education,
WITH DISTINCTION</p> <p>DeeAnn Rose Breuer, Lake City,
Home Economics Education</p> <p>Barbara Jean Brown, Floodwood,
Home Economics Education, WITH
DISTINCTION</p> <p>Diane Judith Chumley, Minneapolis,
Home Economics Education</p> <p>Elizabeth Ann Clark, Barrett, Home
Economics Education</p> <p>Charles Nelson Davis, Cleveland, Agri-
cultural Education</p> <p>Danford William Erhart, Pine City,
Agricultural Education, WITH DIS-
TINCTION</p> <p>Patricia Gayle Erland, Minneapolis,
Home Economics Education</p> <p>Wayne E. Fahning, Cleveland, Agri-
cultural Education</p> <p>Orley Donald Gunderson, Mahno-
men, Agricultural Education</p> <p>Clark William Hanson, Freeborn,
Agricultural Education</p> <p>Elizabeth Ann Hanson, Benson,
Home Economics Education</p> <p>Richard John Hanson, Brandon,
Agricultural Education</p> <p>Ronald Dale Harder, Mountain Lake,
Agricultural Education</p> <p>Joseph Mark Helgevold, Ayrshire,
Iowa, Agricultural Education</p> <p>Dianne Jean Hittner, Minneapolis,
Home Economics Education</p> | <p>Bonnie Marie Hoiness, Harmony,
Home Economics Education</p> <p>Louise Mary Jasken, Arlington, Home
Economics Education, WITH HIGH
DISTINCTION</p> <p>Wilton Palmer Johnson, Grove City,
Agricultural Education, WITH DIS-
TINCTION</p> <p>Sharon Hope Kahnert, St. Paul Park,
Home Economics Education</p> <p>Eugene Steven Kelly, Parkville, Agri-
cultural Education</p> <p>Norma Adelle Krenik, Cleveland,
Home Economics Education, WITH
HIGH DISTINCTION</p> <p>Phyllis June Larson, New Ulm, Home
Economics Education</p> <p>Edward Adam Martinco, Hinckley,
Agricultural Education</p> <p>Gloria Clarice Ellickson Melby, Oklee,
Home Economics Education, WITH
DISTINCTION</p> <p>Bonnie Kay Moline, Minneapolis,
Home Economics Education</p> <p>Richard Peter Nelson, Ashby, Agri-
cultural Education</p> <p>Karen Olson Nitz, Hopkins, Home
Economics Education</p> <p>Norma Jane Oslund, Sacred Heart,
Home Economics Education</p> <p>Kay Diane Palmer, Redwood Falls,
Home Economics Education</p> <p>Fritz-Arno Purrmann, Hanover, Ger-
many, Agricultural Education, WITH
DISTINCTION</p> <p>Lou Ann Eckberg Reese, Lafayette,
Home Economics Education</p> <p>Janette Ellen Smith, North Redwood,
Home Economics Education</p> <p>Robert Dale Sorensen, St. James,
Agricultural Education</p> |
|---|---|

Carol Jean Streufert, Robbinsdale,
Home Economics Education, WITH
HIGH DISTINCTION
Judith Margaret Thompson, Bemidji,
Home Economics Education
Beverly Julia Tonsfeldt, Pipestone,
Home Economics Education
Frederick Christ Tuma, Pine City,
Agricultural Education, WITH DIS-
TINCTION

Josephine Agnes Tupy, New Prague,
Home Economics Education
Herbert Nickolas Walch, Winona,
Agricultural Education, WITH HIGH
DISTINCTION
Jane Cheryl Wildung, Nassau, Home
Economics Education, WITH DIS-
TINCTION
Annette Frances Zimmerman, Waseca,
Home Economics Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Earl Raymond Anderson, Minneapolis
Van H. Chapman, Minneapolis
Neil Roland Hoagland, Minneapolis,
WITH HIGH DISTINCTION
Gilbert Michael Horsch, Minneapolis

Donald Raymond Klym, Minneapolis
Robert Emmett Mountain, St. Paul
Theodore Allen Neby, Alexandria
John Sperling Ostby, Plummer

Bachelor of Science in Business

Stephen Allan Abrams, Minneapolis
Robert Blair Allen, Richfield
Alfred John Anderson, North St. Paul
Ronald Floyd Anhorn, Austin
Daniel Zachary Averbook, Austin
Joseph Mathew Backes, Minneapolis
James Llewellyn Barsness, Minneapo-
lis, WITH HIGH DISTINCTION
William Hunt Baxter, Minneapolis
John Norman Beckstrom, St. Paul
Richard Charles Benson, Marshall
Elizabeth Rose Berner, Minneapolis
Robert Harry Bjorklund, Jr., Minne-
apolis
James Redalen Brokken, Harmony
Thomas James Buck, St. Paul
Michael Joseph Buhr, Minneapolis
Duane Lee Burnham, South St. Paul
David Joseph Byron, Minneapolis
Richard John Carlson, Excelsior
Wayne Glenn Carlson, St. Cloud,
WITH DISTINCTION
James Duane Coulombe, Turtle Lake,
Wis.
Harold Lannie Cragg, A.L.A., Rob-
binsdale

Kay Anita Crandall, St. Paul
Jeffrey Lee Currier, Minneapolis
Curtis Ardel Delegard, Minneapolis
Richard Henry Erickson, Anoka
Emmett B. Erpelding, Blackduck
Eugene Brooke Finkenaur, Jr., Minne-
apolis
Richard Alphonse Fischer, St. Paul
Robert Willard Folstad, Ruthton
Ronald Eugene Frain, Minneapolis
David Hugh Frellsen, Minneapolis
Richard Frederick Fullerton, Lake-
wood, Ohio
Gerald Donald Garski, Minneapolis
Donald Robert Gessner, Duluth
Sanford J. Goldberg, Minneapolis
Norton Saul Gray, Minneapolis
James Andrew Guettler, Cologne
Robert Phillip Gustafson, St. Paul
David Gordon Hamm, Litchfield
Glenn Warren Hasse, Jr., Plainview
Stuart Lee Henning, Milwaukee, Wis.
Leslie Charles Hill, Mound
Ralph Edward Hoff, Virginia
Julian James Hook, Minneapolis
Phillip Carlyle Hovde, Ellsworth, Wis.

Raymond Leo Jensen, Minneapolis
Darrell Duane Johnson, Litchfield,

WITH DISTINCTION

Gordon Hilman Johnston, St. Paul
Richard Anthony Kallio, Cook
Thomas Lyall Kezar, Austin, WITH
DISTINCTION

John Robert Kidney, Minneapolis
Edward John Kline, Crookston
Gerald Richard Konietzko, Minne-
apolis

William Lynn Korstad, Minneapolis
J. Allen Larsen, Miami, Fla.

Gregory Kenneth Larson, Minneapolis
Lowell Arthur Lee, Minneapolis

Vernon Carl Lindfors, Fosston
Lance Arthur Lonson, St. Paul
Curtis Maynard Lund, Mobridge, S.D.
Charles Armand Maas, Minneapolis

Gordon Lee Martin, Minneapolis
Nora Jasvee Mattsson, Minneapolis
Terence Louis Maus, Austin, WITH
DISTINCTION

C. Richard McCabe, Edina
Thomas Michael Medwig, Carnegie,
Pa.

Roger Francis Meyer, Sauk Centre
Charles Frederick Michelson, Duluth,
WITH DISTINCTION

George Thomas Milkovich, Virginia,
WITH DISTINCTION

Carlton Eugene Mix, St. Paul
Gene Sheldon Moody, Minneapolis
Thomas Irvin Mueller, Mankato
Louis Vincent Nanne, Sault Ste.
Marie, Ontario, Canada

Richard August Neumann, Minne-
apolis
James Frederick Nixon, Minneapolis,
WITH DISTINCTION

Dean Owen Nordquist, Minneapolis
Louis Leo Ochocki, Osseo
James Frederick Olson, B.A., Minne-
apolis

Richard Elliot Olson, Milaca
Richard Glen Olson, St. Paul
James Hardy Parker, Minneapolis
Leslie Gene Peterson, Redwood Falls
Thomas Joseph Petrie, Minneapolis
James Clarmont Piepho, Wendell
Thomas Allen Porter, St. Louis Park
Michael John Ratzlaff, St. Paul
Donald William Reed, Virginia
John Dennis Ristine, St. Paul
Allan Stanley Robins, St. Paul
Arthur James Sauter, Minneapolis,

WITH DISTINCTION

Richard Barry Schachtman, St. Paul
Charles Anthony Schall, Wayzata
Raitis Schefers, Westbrook
Edward James Schelske, Columbia
Heights

Michael Louis Scott, St. Paul
Thomas Christian Sipe, Robbinsdale
Glen Joseph Skovholt, St. Paul
Todd Norman Sorlie, Minneapolis

Billy George Speck, Mankato
James George Stanson, Montevideo
Roger Duane Stenzel, Arlington
James Clayton Stordahl, Roseau
Robert Eugene Swanson, Columbia
Heights

Roger James Syverson, Trimont
John Richard Tews, Edina
John William Tobolt, Moorhead
William Torodor, Minneapolis
Orville Gene Verding, Minneapolis
Robert Adrian Waataja, St. Louis
Park

Donald Winn White, Minneapolis
Gary David White, B.E.E., Crystal
Bay

Bylund Virgil Wik, Long Prairie
Bruce Hampton Wilson, Indianapolis,
Ind.

Gordon Donald Wilson, Minneapolis

Bachelor of Science in Economics

Richard Wayne Custer, Minneapolis
Marguerite Ann Krueger Jacobson,
Chisholm

Robert Edward Kircher, Minneapolis
Michael Earl McLaughlin, St. Paul
Philip Martin McLaughlin, St. Paul

Stuart Morris McRae, Minneapolis
Betsy Jean Myers, Minneapolis, WITH
DISTINCTION
Richard Raymond Nielsen, Minneapo-
lis, WITH DISTINCTION

Stephen Pepelnjak, Virginia
Gary Michael Schroepfer, Sleepy Eye
Peter Nitter Sonnesyn, Minneapolis
Charles Joseph Sullivan, St. Paul
Sunai Tephaval, LL.B., Bangkok,
Thailand

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

Bachelor of Agricultural Business Administration

Swen Lee Anderson, Jackson
Kenneth Marvin Behm, Atwater
Harold Lawrence Bous, Long Prairie
Brian George Gnauck, Shakopee
Jerry Vince Johnson, Minneapolis
Allan Lynn Olson, Dawson
Donald Duane Schroeder, Wells

Marvin Arthur Strobel, Minneapolis
Richard George Vingers, St. Paul
Marcus Lloyd Winter, Hoffman, WITH
DISTINCTION
Habeeb Fuad Zoumut, Amman,
Jordan
Dennis Jerome Zurbay, Robbinsdale

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Sharon Gail Ahlgren, Austin
Eugene Michael Arone, Minneapolis
Albert Dell Barsness, Elk River
Sidney Bruce Benson, St. Paul
Jean W. Rohrer Botnan, Hamel
Richard Edward Cook, Hastings
Steven Sanford Goodman, Minne-
apolis
Rudolph Elmer Gulstrand, Jr., Min-
neapolis
Donald Nordeen Hanson, West St.
Paul
Gerald Mitchell Hirschorn, St. Paul
John Robert Jorissen, Minneapolis
Robert Young Josephs, Duluth
Glen Richard Larson, Holt
Richard S. Lauring, Coleraine
John Arthur Marshall, Fergus Falls

Lee Carl Martinson, Warren
Joanne Marie Murray, St. Paul
Kenneth Edwin Newman, Duluth
Charles Michael North, Olivia
Bernard Irwin Ostrow, Minneapolis
James Ernest Peck, Deer River
Earl John Poirier, Jr., B.S., Faribault
David Lyle Regal, South St. Paul
Sharon Louise Rowelson, Minneapolis
Harold Charles Seim, Spring Valley
James Clarke Starkey, Richfield
Aija Skaidrite Strelnieks, Minneapolis
David Edward Swenson, B.S., North
Branch
Helen Ann Teske, Minneapolis
Roger Carl Wachter, Farmington
Dean Clark Watson, Minneapolis
Vija Vizbulite Zemmers, Duluth

LAW SCHOOL

Bachelor of Science in Law

John Gray Fillenworth, Minneapolis
Daniels Wyman McLean, Anchorage,
Alaska

William Starr, Minneapolis

Bachelor of Laws

John Derck Amerman, B.A., Minne-
apolis
Charles Bringgold Andrews, B.A.,
Lindstrom
Robert V. Atmore, B.A., Duluth
David Moir Beadie, B.A., St. Paul,
CUM LAUDE
James Randall Becker, B.B.A., St.
Paul
Richard Fred Bellman, B.A., Minne-
apolis, CUM LAUDE
Paul Leland Billings, B.B.A., Wayzata
Paul Tideman Birkeland, B.A., Min-
neapolis, CUM LAUDE
Bailey Wilson Blethen, B.A., Man-
kato, CUM LAUDE
Richard Henry Breen, B.S., Minne-
apolis
Robert Chester Brown, B.A., Bloom-
ington
James Somers Bullock, B.A., Minne-
apolis
Michael Owen Burns, B.A., St. Cloud
Don Levang Bye, Pequot Lakes
Thomas John Campbell, B.A., St.
Paul
Lynn Sumner Castner, B.A., Minne-
apolis
Robert James Christianson, Jr., B.A.,
Edina
Thomas Arthur Clure, B.A., Duluth,
CUM LAUDE
John Leo Devney, B.A., Minneapolis
William Patrick Dinan, B.A., Duluth
William Thomas Dolan, B.S., St.
Paul
James Whitcomb Fahlgren, B.A.,
Chatfield, CUM LAUDE
John Gray Fillenworth, Lamberton
Terence Melling Fruth, B.S., Brainerd

James Hugh Gaffney, B.A., Minne-
apolis
Lawrence Tuohy Gallagher, B.S., St.
Paul
Joseph Gallo, B.A., Superior, Wis.,
CUM LAUDE
Charles Henry Gauck, B.S.B., Fair-
mont, CUM LAUDE
Stanley Howard Green, B.A., Duluth
Marvin Curtis Guthrie, B.A., White
Bear Lake
Ronald Leo Haskvitz, B.A., Minne-
apolis
Winfred Scott Herzog, B.A., Hopkins
C. Byron Holje, B.A., St. Paul, CUM
LAUDE
Donald Forrest Hunter, B.A., St. Paul
John Carl Jeppesen, B.B.A., Minne-
apolis
John Peter Karalis, B.A., Edina, CUM
LAUDE
Richard William Kautt, B.A., St. Paul
David Earl Kelby, B.A., Minneapolis,
CUM LAUDE
Michael L. Kiefer, Minneapolis
David John Koskinen, B.A., Hibbing
Fred William Lambrecht, B.A., St.
Paul
Steven Zwy Lange, B.A., Minneapolis
Donovan Douglas Larson, B.A.,
Stanchfield
Jonathan Galanter Lebedoff, B.A.,
Minneapolis
Stephen Elmer Lee, B.A., Hutchinson,
MAGNA CUM LAUDE
Frank Warren Levin, B.A., St. Paul
Daniel Lynn Lieberman, B.A., Min-
neapolis
Peter Joseph Lindberg, B.A.B.A., St.
Louis Park

- Patricia Marie Lines, B.A., Minneapolis, CUM LAUDE*
Felix August Mannella, B.A., Minneapolis
Lester Eugene McAuliffe, B.A., St. Paul
Thomas Michael Meshbesh, B.A., Minneapolis
Robert Arthur Minish, B.A., Robbinsdale, MAGNA CUM LAUDE
Warren David Moberg, B.B.A., Rochester
Thomas Odd Moe, B.A., Edina, CUM LAUDE
Robert George Munro, B.S., Minneapolis
Dennis James Murphy, B.B.A., Grand Rapids
George Patrick Murray, B.A., Minneapolis, CUM LAUDE
Thomas Dale Nagel, B.A., Chatfield
James Merton Neilson, B.A., Minneapolis
Grant Steel Nelson, B.A. magna cum laude, St. Paul, CUM LAUDE
Lawrence Patrick Nelson, B.B.A., St. Paul
David Henry Nycklemoe, B.A., Fergus Falls
James Herman O'Hagan, B.A., Mounds View, CUM LAUDE
Terence Joseph O'Loughlin, B.A., St. Paul
David Russell Olson, B.B.A., St. Louis Park
Dale Edward Parker, A.A., B.A., Byron
Dean Edward Peterson, B.A., Minneapolis, CUM LAUDE
John Burton Rachie, B.A., Minneapolis
Douglas Dale Reid, Jr., B.A., St. Paul, MAGNA CUM LAUDE
Samuel Walter Richey, B.S., St. Paul, CUM LAUDE
Larry James Rietz, B.A., Owatonna
Roger Ardell Rodness, B.S., Clarkfield
John Wesley Romine, B.B.A., Minneapolis
Jonathan Rose, B.A., Mahtomedi, MAGNA CUM LAUDE
Jerome Jay Segal, B.S.L., St. Paul
Victor Paul Seiler, B.S.L., Minneapolis
James William Slade, B.A., St. Paul
Edwin Steeves Smith, B.A., Watertown, S.D.
Thomas Alexander Smith, B.A., Duluth
Donald John Sorensen, A.L.A., B.S.L., B.A. cum laude, Wayzata
Warren Richard Spannaus, B.B.A., St. Paul
William Starr, Minneapolis
Tom George Togas, B.A., Austin
Robert John Wagner, B.A., Watertown, S.D., MAGNA CUM LAUDE
Harry McManus Walsh, B.A., St. Paul
James Lewis Wegner, B.A., Minneapolis
Gary Wickert Wolf, B.B.A., St. Paul, CUM LAUDE
J. Peter Wolf, B.A., St. Paul
Michael William Wright, B.A., Minneapolis, CUM LAUDE

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

- Larry Victor Baudin, New Brighton*
Milton Carl Bauer, B.A., Montgomery
Edith Ann Bemis, St. Cloud
Gilbert Isadore Boerboom, Marshall
Dennis Melvin Dammen, Currie
Roger Edward Doom, Canby
Eugene Edward Fenske, Duluth
David A. Garlie, Northfield
Charles Frederick Gehrman, Minneapolis
Jerold Dennis Gemar, Fullerton, N.D.
Ronald George Goos, Roseau

Eldon Ramon Grazin, Williams, WITH
DISTINCTION
Evelyn Louise Groth, Wanamingo
George Donald Ihrke, Jr., Dover
Douglas Earl Jensen, Minneapolis
Douglas Richard Jensen, Circle Pines
James Burdell Johnson, Litchfield
Stanley Herbert Kleven, Dawson,
WITH HIGH DISTINCTION
Leonard William Knoll, Blomkest
Charles Philip Maier, Jr., East Troy,
Wis., WITH DISTINCTION
Patrick James Manning, St. Paul,
WITH DISTINCTION
Roger William Meads, Freeport, Ill.
Charles Richard Meiners, Hemmosa,
S.D.
David Rae Naatz, Austin
Gerald William Nelson, St. Francis
Dwight Stanley Olson, Minneapolis

Norman LeRoy Osgood, Blair, Wis.,
WITH HIGH DISTINCTION
Gerald Jerome Pecha, Bloomer, Wis.
Emil Ernest Roth, Jr., Minneapolis
Clair Dean Sauer, Walters
Ronald John Scheuring, Iona
Conrad Baxter Schmidt, Worthington
Jerome Aloysius Schmidt, Loyal, Wis.,
WITH DISTINCTION
Judith Ann Soderstrom, Lake City
David Alan Spong, B.A., Fargo, N.D.,
WITH HIGH DISTINCTION
Alfred Strating, Pease
Larry Patrick Traynor, St. Paul
Richard Raymond Uhlig, Cedarburg,
Wis., WITH HIGH DISTINCTION
Verlon D. Vallery, Belle Fourche,
S.D., WITH DISTINCTION
James Edward Varley, Faribault
Alan Vernon Vogen, Lanesboro

Doctor of Veterinary Medicine

John Robert Aldrich, B.S., Buffalo
Richard King Anderson, B.S., Helena,
Mont.
Ronald Lee Bailey, Austin
Olander Melroy Benson, B.S., Sioux
Falls, S.D.
Terry Michael Bolding, B.S., Breck-
enridge
Edwin Sylvester Brokken, Jr., B.S.,
Harmony
Charles Henry Casey, B.S., St. Paul
William Lyle Collins, B.S., Sioux
City, Iowa
Robert Paul Cotter, B.S., Ripon, Wis.
Terry Ray Cowan, B.S., St. Paul
Jerry Jay Cummings, B.S., Wells
Alois Anthony William Damer, B.S.,
Belgrade
James Norman Dougherty, B.S. with
high distinction, Ettrick, Wis.
Richard Arthur Faulkner, B.S., St.
Paul
John James Flynn, B.S., Eau Claire,
Wis.
Allan Bjorn Fredrickson, B.S., St. Paul
Ralph James Ganz, B.S., Swanville
Herbert M. Halverson, B.S., Lafayette

Larry J. Hei, B.S., Plum City, Wis.
Richard Anthony Higgins, B.S.,
Niagara, Wis.
Wade Robert Himes, B.S., Ray
Richard V. Huston, B.S., St. Paul
Dean Elwood Jensen, B.S., Lake
Preston, S.D.
Todd Donnem Johnson, B.S., Clara
City
John Raymond Kunkel, B.S., Kimball
Gerald Arthur Lahmers, B.S., Eyota
William John Magee, B.S., Little Falls
Harlan Gary Manguson, B.S., Tracy
Roger William Meads, B.S., Freeport,
Ill.
Donald Dean Minnick, B.S., Monte-
video
David Rae Naatz, Austin
John William Nelson, B.S., Grants-
burg, Wis.
James Alfred Nordstrom, B.S., Fort
Meade, S.D.
Lowell Duane Olson, B.S., Kiester
George Charles Palmer, B.S., Granite
Falls
Edmund Lawrence Pavek, B.S.,
Waubun

Kenneth Albin Peterson, B.S., Brown-
ton
Clarke Maynard Poad, B.S., Hancock,
Wis.
Lynn Eugene Runquist, Cokato
David Herman Schaer, B.S., Clare-
mont
Charles John Smith, B.S., St. Paul

Dennis Charles Stresemann, B.S.,
Winthrop
James Alvin Swenson, B.S., Jasper
James Thomas Tammeus, B.S.,
Brewster
John Leonard Walch, B.A., Altura
James Earnest Wheeler, B.S., St. Paul

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Bryce Jingle Baker, St. Paul
Barbara Jean Bigler, Perham
Laurel Ruth Brant, Bloomington
Beryl Anne Butwin, St. Paul
Barbara Ellen Cooley, Waukesha,
Wis.
Linda Kay Diehl, Iowa Falls, Iowa
Beverly Ann Eckl, St. Paul
Barbara Lois Fisher, Minneapolis
Judy Marie Wendell Fretheim,
Hopkins
Kathleen Marie Genung, Robbinsdale
Carmen Roxanne Gilman, Willmar
Virginia Rae Gussner, Minneapolis
Joanne Alleyn Haag, North St. Paul
Carol Lee Halterman, Billings, Mont.
Jean Karen Halverson, Deerwood
Jane Aileen Hedlund, B.S., Minne-
apolis

Susan Kay Hovick, Superior, Wis.
Susan Marjorie Jones, Minneapolis
Loretta Charlotte Reid Lothner, Red
Wing
Marion Jeanette Meier, Minneapolis
Nickolee Ann Meyer, St. Paul
Margaret Rachal Perzel, Minneapolis
Marianne Schwegel, Ely
Joyce Elaine Sorenson, Albert Lea
Karen Louise Swanson, Watertown
Barbara Dorothea Tenney, Minne-
apolis
Olivia Rita Thompson, Ely
Sandra Jean Voigt, Waukesha, Wis.
Margaret Gene Whitehead, Hampton,
Iowa
Julicanne Wilhelmson, Staples
Joyce Ann Kurth Young, Hutchinson
Sandra Lois Zebill, Parker, S.D.

Bachelor of Science

Mark Andrew Anderson, St. James
Joseph Evon Ausich, Mackay, Idaho
Jon Redmond Barrett, Hibbing
Michael Francis Beck, Bismarck,
N.D., WITH DISTINCTION
David Dale Benson, Minneapolis
Lewis Owen Berge, Fergus Falls
Richard Reid Bevis, Minneapolis,
WITH DISTINCTION
Joseph Edward Bouvette, Hallock
Jon Harold Buck, Austin
Keith Alan Churchill, Spring Valley
William Boos Colby, Minneapolis

Donald John Cuskey, Spooner, Wis.
Roger Alan Dahlseid, Willmar
Donald Michael Dailey, Winner, S.D.
Gerald Wesley Dick, Springfield
Edward Joseph Eifert, Long Prairie
David Charles Ellenberg, Spring Val-
ley, WITH HIGH DISTINCTION
Alfred Marshall Fenstad, Grand
Marais, WITH HIGH DISTINCTION
Stephen Finkelstein, Minneapolis
Richard King Gerretson, Willmar
Jack Otto Glander, Wahpeton, N.D.
Donald Robert Goodrich, Warren

Lowell Richard Graves, Albert Lea
 Lionell Neal Greenberg, St. Paul
Kent Christopher Gulden, Omaha, Neb., WITH DISTINCTION
 James David Guptill, Hinckley
 William George Haggberg, St. Louis Park
 George James Hansen, Minneapolis
 Edgar Allen Hanson, Ortonville
 David Patrick Hardy, Minto, N.D.
 James Raymond Holtan, Minneapolis
 Jack Chester Hoppe, Minneapolis
 Kern Michael Hoppe, St. Louis Park
Eugene Frank Jasper, Ely, WITH HIGH DISTINCTION
 Jerald Bruce Johnson, Fargo, N.D.
 Richard Lionel Kannenberg, Paynesville
 Charles Edward Kath, St. Paul
 Richard Stanley Katzoff, B.A., Minneapolis
Jeffrey Allen Kent, Bloomer, Wis., WITH DISTINCTION
 Kurt Jay King, St. Paul
 James Paul Knudson, Redwood Falls
 Kenneth Thomas Larsen, Minneapolis
 Rodney Allen Lenz, Olivia
William Frank Liljemark, Minneapolis, WITH HIGH DISTINCTION
 Clarence Sidney Lindley, Jr., Minneapolis
 James Fredrick Lundstrom, Fargo, N.D.
 Kenneth Wallace Marble, St. Paul
 Thomas James McCarter, St. Paul
 William Peter McCulloch, Duluth
 Gerald Neil McGirl, Duluth
 Donald Gerald McMillan, Jr., Minneapolis
 Wesley Alfred McNutt, Fargo, N.D.
William Edward McPherson, Chinoook, Mont., WITH DISTINCTION
 James Dean Naeve, Rapid City, S.D., WITH DISTINCTION

Robert Thaddeus Nelson, Minneapolis
 Virgil Wayne Nelson, Minneapolis
William Howard Olson, Lanesboro, WITH HIGH DISTINCTION
 Charles Raymond Ott, Deer River
 Richard Nathan Overby, B.A., Minneapolis
 Thomas Joseph Pekarna, Jordan
 James Donald Raymond, Minneapolis
 Robert Victor Shelton, Rapid City, S.D.
 James Richard Sher, B.A., Hibbing
 Wayne Orville Sletten, Madison
 Charles Claude Somers, Minneapolis
 James Henry Steffen, Alexandria
 Robert Charles Stoudt, Wahpeton, N.D.
 Harvey Richard Syverson, Webster, S.D.
 John Erwin Tabor, B.A., Detroit Lakes
 John Clifford Taylor, Hibbing
 Garrett Earl Thomas, Mobridge, S.D.
 Dennis Martin Thompson, Osakis
 Harold Max Thompson, Jerome, Idaho
 Richard Arthur Thompson, B.A., Minneapolis
 Lawrence Tsunemichi Tottori, B.A., Honolulu, Hawaii
 Dennis Peter Vaillant, Minneapolis
 Donald Richard Van Bibber, Superior, Wis.
 John Bennett Vick, Minneapolis
 Carl Braman Walden, Minneapolis
 George Thurlow Waxler, Hot Springs, S.D.
 James Wallace Weber, Duluth
 Philip Harold White, Hutchinson
Richard John Wilhelm, Coeur d'Alene, Idaho, WITH DISTINCTION
 Richard James Yorston, Minneapolis
 Grant Gale Zwick, Valley City, N.D.

Doctor of Dental Surgery

Mark Andrew Anderson, St. James
 Joseph Evon Ausich, Mackay, Idaho
 John Drake Bangh, B.S., St. Louis Park
 Jon Redmond Barrett, Hibbing
 Michael Francis Beck, Bismarck, N.D.
 Douglas Phillips Beedon, B.A., B.S., St. Paul

William Cowling Bender, B.S.,
 Brainerd
 John Clark Bergstrom, B.S., Devils
 Lake, N.D.
 Dennis Martin Bertsch, B.S., Ashley,
 N.D.
 Jon Harold Buck, Austin
 James Burr Cheever, B.S., Minneapolis
 Richard Harold Clausen, Echo
 Roger Alan Dahlseid, Willmar
 Donald Michael Dailey, Winner, S.D.
 John Roger De Lange, B.A., West St.
 Paul
 Gerald Wesley Dick, Springfield
 Robert Palmer Ellingson, B.S.,
 Hastings
 Richard Henry Fettig, B.S., Crosby,
 N.D.
 Jerry Lee Fields, B.S., Pine River
 James Harold Fjerstad, B.S., Pipestone
 Tad Garland Gates, B.S., Minneapolis
 Richard King Gerretson, Willmar
 James Garnet Ghostley, B.S., Aurora
 James Emory Gjerset, B.S. with high
 distinction, Minneapolis
 Robert Allen Godfrey, St. Paul
 Donald Robert Goodrich, Warren
 William George Haggberg, St. Louis
 Park
 Edgar Allen Hanson, Ortonville
 George Joe Hayano, Minneapolis
 Arnold Joseph Hill, Jr., B.S., Minne-
 apolis
 Charles Stuebe Hintz, B.S., New Ulm
 Robert Lee Holliday, B.S., Brookings,
 S.D.
 James Raymond Holtan, Minneapolis
 James Wendell Horst, B.S., Moorhead
 Kip Byron Jentoft, B.S., Duluth
 Malcolm Farrish Johnson, B.S., Sher-
 burn
 Richard Lionel Kannenberg, Paynes-
 ville
 Richard Stanley Katzoff, B.A., Minne-
 apolis
 David Lee King, B.S., Cambridge
 Kurt Jay King, St. Paul
 Gary David Lange, B.A., B.S., Minne-
 apolis
 Robert Douglas Lawton, B.S., Long
 Lake
 John Oliver Childs Look, B.S., Anoka
 James Henry Manion, Pipestone
 Daniel Christopher Martin, B.S.,
 Rochester
 Arthur Joseph McGregor, Interna-
 tional Falls
 William Edward McPherson, Chi-
 nook, Mont.
 Henry Joseph Menke, B.S., Minne-
 apolis
 Ricardo Christopher Menor, Duluth
 John Mark Mitchell, B.A., Wichita
 Falls, Tex.
 James Dean Naeve, Rapid City, S.D.
 Robert Thaddeus Nelson, B.S., Min-
 neapolis
 Ronald Thomas Nelson, B.S., Fari-
 bault
 Virgil Wayne Nelson, Minneapolis
 William Henry Newhouse, Jr., B.A.,
 B.S., St. Paul
 James Harold Nyberg, B.A., Yankton,
 S.D.
 Gene Paul Nystrom, B.A., B.S., Min-
 neapolis
 Leroy W. Odland, Hopkins
 Kermit Howard Ohlsen, B.S., Minne-
 apolis
 Gary John Olin, Minneapolis
 Robert George Olson, B.S., Rapid
 City, S.D.
 William Howard Olson, Lanesboro
 Douglas Victor Petersen, B.S., Minne-
 apolis
 Roger Clarence Peterson, Minneapolis
 Lyle Clair Quiram, B.A., Elysian
 Kenneth Donald Salo, B.S., Cloquet
 Charles William Schindler, B.S.,
 Kendall, Wis.
 Frank Vernon Searl, B.S., Great Falls,
 Mont.
 Bernard Joseph Simon, B.S.Pharm.,
 Bismarck, N.D.
 Marlyn Peter Storm, B.S., Ortonville
 Harvey Richard Syverson, Webster,
 S.D.
 John Erwin Tabor, B.A., Detroit
 Lakes
 James Edward Tarnowski, B.A., Min-
 neapolis

Garrett Earl Thomas, Mobridge, S.D.
Richard Arthur Thompson, B.A.,
Minneapolis
Lawrence Tsunemichi Tottori, B.A.,
Honolulu, Hawaii
David Walter Twomey, B.A., St.
Cloud
Olivier Henri Von Der Muhll, Lau-
sanne, Switzerland
Carl Braman Walden, Minneapolis

George Thurlow Waxler, Hot Springs,
S.D.
James Wallace Weber, Duluth
Richard John Wilhelm, Coeur
d'Alene, Idaho
Richard James Yorston, Minneapolis
Gust John Zahariades, B.A., Minne-
apolis
Grant Gale Zwick, Valley City, N.D.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing Administration

Marjorie Ethel Uelmen, Beach, N.D., WITH DISTINCTION

Bachelor of Science

Yossef Aelony, B.A., Minneapolis,
Medicine
Roger Dean Ambrosion, B.A., Leland,
Iowa, Medicine
Richard Conrad Baker, B.A., Fergus
Falls, Medicine
Anthony Richard Baraga, Chisholm,
Medicine
John Maynard Barry, B.A., St. Charles,
Medicine
Kathy Pauline Belgea, B.A., St. Paul,
Medicine
Larry Jerome Brettingen, Brook Park,
Medicine
Frederic Michael Brown, Minneapolis,
Medicine
Lillian Mary Bruska, Buffalo, Physical
Therapy
Geraldine Elizabeth Buckley, Minne-
apolis, Physical Therapy
Marsha Kay Cameron, Washington,
D.C., Physical Therapy
Terrance Donald Capistrant, B.A., St.
Paul, Medicine
Mary Joan McCann Carlson, Minne-
apolis, Medical Technology*

Thomas Matthew Clifford, Eveleth,
Medicine
James Allan Collinge, B.A., Stillwater,
Medicine
Karen Marie Corder, Minneapolis,
Medical Technology, WITH DISTINC-
TION*
Charles Edward Crutchfield, B.A.,
Minneapolis, Medicine
Susan Ellis Crutchfield, B.A., Minne-
apolis, Medicine
Virginia Ann Dahlberg, Minneapolis,
Medical Technology, WITH DISTINC-
TION*
Darrell Charles DeVilliers, Jr., B.A.,
Minneapolis, Medicine
James Francis DeVinck, Superior,
Wis., Medicine
Ursula Lucy De Wahl, Coon Rapids,
Public Health Nursing
Dzintra Dombrovskis, Minncapolis,
Medical Technology*
Bernice Ella Drenckhahn, Minneiska,
Occupational Therapy, WITH DIS-
TINCTION

* These degrees are conferred subject to the completion of practical work prior to August 22, 1963.

- Patricia Bailey Edwards, St. Paul, Public Health Nursing
- Edward Allen Ellis, B.A., Minnesota City, Medicine
- Hartley John Erickson, B.A., Golden Valley, Medicine
- Paul Steven Etzell, Clarissa, Medicine
- Carolyn Deborah Fiterman, A.L.A., Golden Valley, Physical Therapy, WITH DISTINCTION
- Gerald Theodore Frane, Minneapolis, Medicine
- Larry James Gallagher, B.A., Wadena, Medicine
- Joanne Marie Garrard, Mason City, Iowa, Physical Therapy
- James Alan Gealow, A.A., Belmond, Iowa, Physical Therapy, WITH DISTINCTION
- George Bruce Gerstenkorn, B.A., Belgrade, Medicine
- Sydne Jane Gervais, St. Paul, Public Health Nursing
- Edith Rae Goldstein, Kenosha, Wis., Medical Technology*
- Marilyn Jane Kolbak Gomon, Duluth, Public Health Nursing, WITH DISTINCTION
- Greta Ann Gustafson, Brainerd, Physical Therapy, WITH DISTINCTION
- Paul William Hageman, Bovey, Medicine
- Beverly Mae Hallquist, B.A., Minneapolis, Medicine
- Herbert Russell Halvorson, Chatfield, Medicine
- Michael Duncan Hammar, Minneapolis, Medicine
- Geraldine Louise Havrilla, Minneapolis, Medical Technology*
- David Brakke Hertsgaard, B.A., Minneapolis, Medicine
- Carolyn Esther Holmsten, St. Paul, Occupational Therapy, WITH HIGH DISTINCTION
- Jacquelyn Sue Horne, South St. Paul, Physical Therapy
- Robert Phillip Huber, B.A., Montgomery, Medicine
- Sharon Lorraine Huss, Bayport, Physical Therapy, WITH DISTINCTION
- Zara Belle Iund, Anoka, Public Health Nursing
- Jerry Arden Iverson, Kerkhoven, Medicine
- Patricia Ann Iverson, Luverne, Medical Technology*
- Marilyn Larrie Johnson, Sleepy Eye, Medical Technology*
- Helen Joyce Kaplan, Minneapolis, Medical Technology*
- Marlys A. Breberg Keefe, St. Paul, Medical Technology, WITH DISTINCTION*
- Karen Ruth Kettunen, Keewatin, Physical Therapy
- Margaret Joan Klopp, Dundee, Public Health Nursing
- Brian Michael Krasnow, B.A., St. Paul, Medicine
- Kathleen Wynn Kryewinske, St. Paul, Medical Technology*
- Klaus K. A. Kuehn, B.A., Minneapolis, Medicine
- Nancy Deborah Langer, Minneapolis, Physical Therapy, WITH DISTINCTION
- Carol Ann Larson, B.A., Minneapolis, Medicine
- Marian Ruth Karlstrom Larson, B.A., Minneapolis, Medicine
- Rolf Henry Larson, B.A., Minneapolis, Medicine
- Thomas Charles Leach, B.A., Minneapolis, Medicine
- Carol Anne Lehner, A.L.A., St. Paul, Physical Therapy
- Janet Marie Lindquist, B.A., Grand Marais, Medicine
- Kathryn Louise Little, Minneapolis, Medical Technology, WITH DISTINCTION*
- James Harlan Lueders, Breckenridge, Medicine
- Barbara Lynn Luoma, International Falls, Occupational Therapy, WITH DISTINCTION
- Edward Charles Maeder, B.A., Minneapolis, Medicine

* These degrees are conferred subject to the completion of practical work prior to August 22, 1963.

- Patrick Martin Malone, Le Sueur, Medicine
- Leonard I. Mastbaum, B.A., St. Paul, Medicine
- Suellen Rose McCarty, Bismarck, N.D., *Physical Therapy*, WITH HIGH DISTINCTION
- Donna Harrison McKenna, Cheyenne, Wyo., *Public Health Nursing*
- Marilyn Ruth McManus, B.A., Princeton, Medicine
- John Michael McMillin, Minneapolis, Medicine
- William Irvie Mennis, B.A., Toronto, S.D., Medicine
- Jean Marie Michales, Minneapolis, *Medical Technology*, WITH DISTINCTION*
- Virginia Lee Middlemist, Minneapolis, *Occupational Therapy*
- Cleone Lucille Miller, Duluth, *Medical Technology**
- Dorothy Vinell Moburg, Sycamore, Ill., *Public Health Nursing*
- Sharon Lee Holmberg Moeller, Minneapolis, *Physical Therapy*
- Barbara Grace Rolig Mortensen, West St. Paul, *Physical Therapy*, WITH DISTINCTION
- John Garrett Mulrooney, B.A., Mankato, Medicine
- Richard Lee Mulvania, B.A., Red Wing, Medicine
- Sandra Jeanne Munter, Minneapolis, *Medical Technology**
- Ann Louise Musser, Twin Falls, Idaho, *Occupational Therapy*
- Audrey May Nelson, B.A., Austin, Medicine
- Glen David Nelson, B.A., Minneapolis, Medicine
- Marjorie Kay Nelson, Minneapolis, *Occupational Therapy*, WITH DISTINCTION
- Robert Peter Nelson, Grove City, Medicine
- Ned B. Nichols, B.A., St. Paul, Medicine
- Jane Ann Nilan, Austin, *Occupational Therapy*
- Richard Arvid Oas, B.A., St. Louis Park, Medicine
- Guy Edward O'Grady, A.L.A., B.A. magna cum laude, Minneapolis, Medicine
- William Joseph O'Hanlon, Minneapolis, Medicine
- Terrill Carlyle Olsen, B.A., Albert Lea, Medicine
- Duane Charles Olson, B.A., Minneapolis, Medicine
- Norman Daniel Olson, St. Paul, Medicine
- Linda Lou Osgood, Minneapolis, *Medical Technology*, WITH DISTINCTION*
- Sandra Lee Palmer, Minneapolis, *Medical Technology**
- Beverly Jane Paurus, Minneapolis, *Occupational Therapy*
- Judith Ann Penk, Springfield, *Occupational Therapy*
- Loren Paul Petersen, Luverne, Medicine
- George Edward Plourde, B.A., Minneapolis, Medicine
- Lawrence M. Poston, B.A., St. Paul, Medicine
- Thelma Jean Purcelli, Newcastle, Wyo., *Medical Technology**
- John Jerome Ranalls, St. Paul, *Physical Therapy*
- Terrance Duane Reynen, Ashby, *Physical Therapy*
- Anita Joyce Cheetham Robins, Duluth, *Physical Therapy*
- Karen Joan Ross, International Falls, *Occupational Therapy*, WITH DISTINCTION
- Diane Marie Scheer, Fremont, Neb., *Physical Therapy*
- Margaret Mary Schreiner, St. Paul, *Public Health Nursing*
- Roger Owen Schroepfel, Winthrop, Medicine

* These degrees are conferred subject to the completion of practical work prior to August 22, 1963.

- Idella Maroah Seiberling, Kasson,
Medical Technology*
- Richard C. Siebert, B. A., Edina,
Medicine
- Maria Helena Silva, Swansea, Mass.,
Occupational Therapy
- Richard Glenn Sletten, B.A., Minne-
apolis, Medicine
- Audrey Arline Smart, Minneapolis,
Medical Technology*
- Karen Ruth Soderberg, Soudan, Medi-
cal Technology, WITH DISTINCTION*
- Calvin Lauritz Strand, Redwood Falls,
Medicine
- Jon Robert Stratte, B.A., Pine City,
Medicine
- David Albert Swanson, B.A., Cam-
bridge, Medicine
- David Marlin Thompson, Minneapo-
lis, Medicine
- Marguerite Edith Thorpe, Minneapo-
lis, Occupational Therapy
- Gary Richard Thurnau, Minneapolis,
Medicine
- Michael Andrew Tischler, Delano,
Medical Technology*
- Shirley Yvonne Tormoen, Minneapo-
lis, Public Health Nursing
- Lynn Fern Trostad, Duluth, Occupa-
tional Therapy
- Michael Lawrance Tuck, B.A., Minne-
apolis, Medicine
- Carole Louise Turner, Minneapolis,
Occupational Therapy
- Daniel Joseph Ullyot, B.A., St. Paul,
Medicine
- Gwen Marion Varner, Robbinsdale,
Medical Technology*
- Sandra Lucille Viker, Little Falls,
Medical Technology, WITH HIGH
DISTINCTION*
- Marilyn Jean Wainio, Duluth, Medi-
cal Technology, WITH DISTINCTION*
- Joan Eleanor Wallestad, Amboy,
Medical Technology, WITH DISTINC-
TION*
- Melinda Sue Wayne, Albert Lea, Oc-
cupational Therapy
- Raymond Butler Weiss, Annandale,
Medicine
- David Allan West, B.A., Fort Thomas,
Ky., Medicine
- John Walker Wheeler, Jr., B.A.,
Minneapolis, Medicine
- Thomas McKay Wilmot, B.A., Litch-
field, Medicine
- Patricia Anne Wilson, Duluth, Physi-
cal Therapy, WITH DISTINCTION
- Jon Karl Wogensen, B.A., Minneapo-
lis, Medicine
- Adrian James Wolbrink, Bloomington,
Medicine
- David Samuel Zarek, B.A., Redding,
Calif., Medicine

Master of Hospital Administration

- Assad Nili Aram, D.D.S., Iran
- Richard Robertson Barr, B.A., Mil-
waukee, Wis.
- Douglas Atherton Bean, B.A., Minne-
apolis
- Leroy Clinton Dykes, B.A., Pensacola,
Fla.
- Dan Lester Haymons, Jr., A.A., B.A.,
Moultrie, Ga.
- Roy Hopkins Holmberg, B.A., Man-
kato
- John Victor Holper, B.A.B.A., St. Paul
- James Edward Jarvey, B.A., Chisholm
- George Odin Johnson, B.A., Minne-
apolis
- Bo Eun Kim, LL.B., Taegu, Korea
- John Gregory King, B.A., Waseca
- Theodore Harmon Kittell, B.B.A.,
Bloomfield, N.M.
- James Keene Knoble, B.A., Minne-
apolis
- John Francis Lannon, B.S., St. Paul
- Carl Edward Lincke, B.A., Carrollton,
Ohio
- Glenn Emerson Lowery, B.A., New
Castle, Pa.

* These degrees are conferred subject to the completion of practical work prior to August 22, 1963.

Robert Wolfe Mandelstam, B.S., Minneapolis	Sanfrid Esko Ruohoniemi, B.B.A., Floodwood
Ingo Metusalem, B.S.B., Reykjavik, Iceland	Wilson Macklyn Stinnett, B.A., Fort Worth, Tex.
Wayne Evan Miller, B.A., Harbor City, Calif.	Walter A. Strauch, B.S.B., Elmhurst, Ill.
Rita Louise Montgomery, B.A., Louis- ville, Ky.	Antonio G. Tan, M.D., M.P.H., Philippines
Edwin Richard Moore, B.A., Yonkers, N.Y.	Robert Roy Tracht, B.A., St. Paul
John McIntyre Phin, M.D., Hamilton, Ontario, Canada	Michael Alan West, B.A., Waseca
William Ernest Polack, B.S., Parma, Ohio	David Bitner Wirthlin, B.S.B., Salt Lake City, Utah
	Stephen Paust Yerxa, B.A., Minne- apolis

Master of Nursing Administration

Shirley Carolyn Asklund, B.S.N.A., Minneapolis	Gregor Ronald McDonald, B.S.N.A., Green Bay, Wis.
Burdette Muriel Blaska, B.S.N.A., Sun Prairie, Wis.	

Master of Public Health

Curtis Carl Andersen, B.S., Lake Norden, S.D.	James Derrill Fett, M.D., B.A., Campbell
Herbert Marshall BIRTHA, B.S., Phila- delphia, Pa.	Byron John Francis, B.A., M.D., Seattle, Wash.
John Wesley Burnett, B.A., Denver, Colo.*	Ervin Joseph Frank, B.S., Phila- delphia, Pa.
Edwin William Chaffee, Boston, Mass.	Mary Elizabeth Hamlin, B.A., Minne- apolis*
Richard Paul Crawford, Jr., D.V.M., M.S., Auburn, Ala.	Clarence Earl Henke, B.Geol.Eng., B.S., South St. Paul
Herbert Carlton Crowe, B.S., Great Falls, Mont.	Robert Sanderson Horn, B.S., Wil- liamsport, Pa.
Massih Daneshi, M.D., Iran	Abdelaziz Eltayeb Ibrahim, Sudan
Richard Ernest Dierks, B.S., D.V.M., Rosemount	Kenneth Harold Kary, B.S., Mandan, N.D.
Stanley La.Verne Diesch, B.S., D.V.M., Winthrop, Iowa	Momčilo Stevan Kilibarda, M.D., Beograd, Yugoslavia
Robert Ewing Drew, Sr., B.S., M.S., Bemidji*	William Oren Lamb, B.C.E., Macon, Mo.
John Einarson, B.A., B.S., M.D., Hensel, N.D.	David John Majors, Omaha, Neb.*
Mark Pierce Elliott, B.S., D.V.M., Tacoma, Wash.	John Roy Marks, B.A., M.D., Black River Falls, Wis.
	Olli Sakari Miettinen, M.D., Minne- apolis

* These degrees are conferred subject to the completion of field work prior to August 22, 1963.

Robert Arthur Mood, B.S., Greenbelt, Md.	A.F.M. Habibur Rahman, B.S., Pakistan
Claude J. Nelson, B.S., D.V.M., Rapidan	Anthony Victor Resnik, B.Min.E., M.S., Poplar Bluff, Mo.
Raymond Alvin Odde, B.C.E., Minneapolis	James Keith Roberts, B.S., Lexington, Ky.
Alger James Olson, B.A., Minneapolis*	Sarnanto, M.D., Indonesia
Richard Langley Parker, B.S., D.V.M., St. Paul	Alvin Henry Tucker, Jr., B.A., Greenbelt, Md.*
	Jean Boor Young, Orlando, Fla.*

Doctor of Medicine

Richard Irving Adams, B.A., Mankato	Michael Gary Edwards, B.A., Minneapolis
Roger Dean Ambrosio, B.A., Leland, Iowa	Phillip L. Edwardson, B.A., Minneapolis
Marvin Earl Ament, B.S., Chicago, Ill.	Charles Philip Ehlen, B.S., Alexandria
Hans Pierce Anderson, B.A., Red Wing	Eric Joseph Eisenklam, B.A., New York, N.Y.
John David Anderson, B.A., Minneapolis	Edward Allen Ellis, B.A., Minnesota City
Robert Frank Avant, B.A., Chisholm	John A. Elstrom, B.A., Minneapolis
Richard Conrad Baker, B.A., Fergus Falls	Paul Herman Engebretson, B.A., Lowry
Stanley Ronald Balchunas, B.A., B.S., Mahanomen	Hartley John Erickson, B.A., Golden Valley
Russell Edwin Beran, B.A., Wymore, Neb.	Larry Ray Erickson, B.A., Frazee
Allen Vernon Bergh, B.A., Long Prairie	John David Farr, B.A., Minneapolis
Jon Howard Bosland, B.S., Willmar	Abe Lewis Fox, B.S., Minneapolis
Robert William Cameron, B.A., Minneapolis	Dennis Clinton Frisbie, B.S., McAllister, Mont.
Terrance Donald Capistrant, B.A., St. Paul	Larry James Gallagher, B.A., Wadena
Peter Christen Christenson, B.A., St. Paul	George Bruce Gerstenkorn, B.A., Belgrade
James Allan Collinge, B.A., Stillwater	Roger Lyle Gilbertson, B.A., B.S., Lake Park
Charles Edward Crutchfield, B.A., Minneapolis	James Leland Gorder, B.S., Minneapolis
Susan Ellis Crutchfield, B.A., Minneapolis	Arnold Peter Hageman, B.A., Anaconda, Mont.
Charles Walter Decker, B.A., Buhl	Beverly Mae Hallquist, B.A., Minneapolis
Paul Bates Dickinson, B.S., Granite Falls	Robert Dale Hanek, B.A., Rice Lake, Wis.
James P. Dunn, B.S., Red Wing	Arthur Stuart Hanson, B.A., Minneapolis
John William Eckholdt, B.A., B.S., Minneapolis	

* These degrees are conferred subject to the completion of field work prior to August 22, 1963.

Richard Charles Harano, B.S.,
 Wabasha
 Clarence Earl Henke, B.S., South St.
 Paul
 David Brakke Hertsgaard, B.A., Min-
 neapolis
 Herbert Thomas Hobday, B.A., Le
 Center
 Creighton Allen Holstad, B.A.,
 Aberdeen, S.D.
 James Herbert House, B.S., Wood
 Lake
 Robert Phillip Huber, B.A., Mont-
 gomery
 Paul Jarl Isakson, B.A., St. Paul
 Dennis Duane Jacobsen, B.S., Arco
 Bruce Lamont Jensen, B.S., Ellendale
 Bradley Dean Johnson, B.A., Minne-
 apolis
 Richard Westfall Johnson, B.A., B.S.,
 Rugby, N.D.
 Dale Carl Kaiser, B.A., Minneapolis
 Dale Robert Kaye, B.A., Minneapolis
 James Burton Keplinger, B.A., Delano
 Henry David Knudsen, B.A., Rosholt,
 S.D.
 Thomas Arden Koelz, A.A., B.A.,
 Worthington
 Nikolai Koropchak, B.S., Waymart,
 Pa.
 Brian Michael Krasnow, B.A., St. Paul
 Klaus K. A. Kuehn, B.A., Minneapolis
 Raoul T. Kunert, B.A., Minneapolis
 Allen Keith Larson, B.A., Clarkfield
 Jerrold Victor Larson, B.S.Pharm.,
 Cambridge
 Rolf Henry Larson, B.A., Minneapolis
 Thomas Charles Leach, B.A., Minne-
 apolis
 Lloyd Laurence Leider, Jr., B.S., St.
 Paul
 Robert Norman Lindholm, B.A., B.S.,
 Minneapolis
 Janet Marie Lindquist, B.A., Grand
 Marais
 Robert F. Mack, B.S., Waterville
 Edward Charles Maeder, B.A., Minne-
 apolis
 John Herbert Mahler, B.A., Franklin
 Patrick Martin Malone, Le Sueur
 Leonard I. Mastbaum, B.A., St. Paul
 Robert Dale Mathison, A.A., B.S.,
 Rochester
 Stephen Ward McCann, B.S., North
 Branch
 John Bert McMullen, B.S., St. Paul
 James Kyle Medelman, B.S., White
 Bear Lake
 William Irvie Mennis, B.A., Toronto,
 S.D.
 David Orin Monson, B.A., B.S.,
 Climax
 David LeRoy Nelson, B.A., Grove
 City
 Glen David Nelson, B.A., Minne-
 apolis
 Anton Stephan Nesse, B.S., Jordan
 Ned B. Nichols, B.A., St. Paul
 Richard Towley Olson, B.A., Tower
 Alfred Gunnar Pearson, B.A., B.S.,
 Minneapolis
 Richard Charles Pembroke, B.S., Min-
 neapolis
 Donald Ames Person, B.S., Fargo,
 N.D.
 Clifford Allen Pesonen, B.A., Aurora
 John Otto Holt Peterson, B.S.Pharm.,
 Minneapolis
 Lawrence M. Poston, B.A., St. Paul
 Dean Byron Pratt, B.A., Minneapolis
 James Harrison Quakenbush, Jr., B.S.,
 Minneapolis
 William Corwin Reed, B.A., St. Louis
 Park
 Alyson Pierce Rieke, B.A., Mankato
 Spencer Louis Robnik, B.A., Minne-
 apolis
 Patty Jean Ryan, B.S., Phoenix, Ariz.
 John Howard Sargent, B.A., St. Paul
 John Michael Scanlan, B.S., St. Paul
 Hugh Aloysius Scanlon, B.S., St. Paul
 Robert Lyle Schneider, B.S., Okla-
 homa City, Okla.
 Alan Keith Schultz, B.A., B.S., Moor-
 head
 Michael M. Sher, B.S., Virginia
 Richard C. Siebert, B.A., Edina
 Richard Glenn Sletten, B.A., Minne-
 apolis
 Barlow Smith, B.A., LL.B., Minne-
 apolis

Leif Ivar Solberg, B.A. *summa cum laude*, Minneapolis
 Joseph Anthony Stenzel, B.A., Minneapolis
 Peter Johnson Strand, B.S., Bayport
 Jon Robert Stratte, B.A., Pine City
 Alan Conrad Suddard, Minneapolis
 David Albert Swanson, B.A., Cambridge
 Orville Peter Swenson, B.A., Mabel
 Michael Lawrance Tuck, B.A., Minneapolis
 Daniel Joseph Ulylot, B.A., St. Paul

John Michael Vener, B.S., Grey Eagle
 H. James Ver Steeg, B.A., Hopkins
 Adolf Hermann Walser, B.A., M.S., Vienna, Austria
 Darryl M. Washa, B.S., Montgomery
 John Davis Watson, B.A., Mendota Heights
 John Walker Wheeler, Jr., B.A., Minneapolis
 Kenneth Ray Williamson, Rochester
 David Bruce Youel, B.A., Mankato
 John David Zapf, B.S., St. Cloud

GRADUATE SCHOOL

Master of Arts

Gary Lyle Alberg, South St. Paul
 B.A. '58, Macalester College. Field of Concentration: Educational Psychology.

Eva Strandmark Anderson, Duluth
 B.A. '31, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction.

Margaret Sihler Anderson, Minneapolis
 B.A. *cum laude* '57, Luther College. Field of Concentration: Music.

Sheldon Reinhold Anderson, Ely
 B.S. '54, St. Cloud State College. Field of Concentration: Physical Education.

James William Andress, Hopkins
 B.A. '51, Augsburg College. Field of Concentration: Educational Administration.

Irene Bernice Arens, Minneapolis
 B.A. *cum laude* '58, St. Olaf College. Field of Concentration: Library Science.

Gary Burke Barclay, Soderville
 B.A. '58, University of Wisconsin. Field of Concentration: History.

Allen Edward Bartyzal, Shakopee
 B.A. '54, College of St. Thomas. Field of Concentration: Educational Administration.

Roger Anthony Bird, Ottawa, Ontario, Canada
 B.A. with honors '61, Carleton University. Field of Concentration: English.

Marguerite L. Bittner, Winona
 B.A. '57, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: A Baseline Study of the Minnesota Home School for Girls Population as Compared with Population of the Minnesota State Training School for Boys.

Carl Allan Bodin, Minneapolis
 B.A. '53, Augsburg College. Field of Concentration: Curriculum and Instruction.

William Fred Boughton, Winona
 B.A. '59, University of Minnesota. Field of Concentration: Speech and Theater Arts.

Heinrich Hermann Brusckhe, Minneapolis
 Diploma '56, Free University of Berlin (Germany). Field of Concentration: Economics.

Judith Brooks Buck, Mason City, Iowa
 B.A. '56, William Jewell College. Field of Concentration: Child Psychology.

Donald G. Cain, Minneapolis
 B.A. '54, University of Minnesota. Field of Concentration: Curriculum and Instruction.

- John Robert Chuchel, Winona
B.A. *summa cum laude* '60, St. Mary's College. Field of Concentration: Mathematics.
- Frank Fowler Conlon, Park Ridge, Ill.
B.A. '60, Northwestern University. Field of Concentration: Area Studies: Asian.
- James Collier Crewe, Minneapolis
B.A. '61, University of Minnesota. Field of Concentration: Educational Psychology.
- Stuart Samuel Dansinger, Duluth
B.A. '60, University of Minnesota. Field of Concentration: Educational Psychology.
- Francis Garvin Davenport, Jr., Monmouth, Ill.
B.A. '61, Grinnell College. Field of Concentration: American Studies.
- Frederick Walter Dietrich, Minneapolis
B.S. '56, Mankato State College. Field of Concentration: Curriculum and Instruction.
- Clayton Lorentz Diskerd, Minneapolis
B.S. '59, Carthage College. Field of Concentration: Educational Administration.
- Omar Harold Dittmer, Hyattsville, Md.
B.S. in Educ. '54, Concordia Teachers College. Field of Concentration: Curriculum and Instruction.
- Edward McNallan Dolan, Worthington
B.A. *cum laude* '61, University of Minnesota. Field of Concentration: Library Science.
- Edmund Thomas Dowd, Jr., Minneapolis
B.A. '60, University of Minnesota. Field of Concentration: Psychology.
- James Gordon Duck, Minneapolis
B.A. '60, University of Minnesota. Field of Concentration: Psychology.
- John Charles Duck, St. Louis Park
B.A. '61, University of Minnesota. Major: Music. Minor: Music Education. Thesis: Form in Early Mozart Masses.
- Luis Benito Duran, Havana, Cuba
B.A. '50, College of Belen (Cuba). Major: Spanish. Minor: Latin. Thesis: *La Metafora En La Poesia Moderna*.
- Jane Frances Earley, Traer, Iowa
B.A. *magna cum laude* '61, Coe College. Field of Concentration: English.
- Ruth M. Egeland, Minneapolis
B.S. '49, Bemidji State College. Field of Concentration: Curriculum and Instruction.
- Judy Espointour, Askov
B.S. '54, University of Minnesota. Field of Concentration: Education.
- Mary Louise Evans, Minneapolis
B.S. '52, University of Minnesota. Field of Concentration: Speech and Theater Arts.
- Edwin E. Felien, Minneapolis
B.A. '60, University of Minnesota. Field of Concentration: Speech and Theater Arts.
- Adelyne Bias Fitzsimmons, St. Louis Park
B.S. with high distinction '55, University of Minnesota. Field of Concentration: Educational Psychology.
- Richard Thornton Fry, Minneapolis
B.A. '61, Grinnell College. Field of Concentration: American Studies.
- Ronald Eugene Gilbert, Cheyenne, Wyo.
B.A. '57, Iowa State Teachers College. Field of Concentration: Educational Administration.
- Jim John Gleboff, Clear Lake, Wis.
B.S. '58, Wisconsin State College (Eau Claire). Field of Concentration: Physical Education.
- William Kendall Glidden, Minneapolis
B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Paul Herbert B. Godwin, Minneapolis
B.A. '60, Dartmouth College. Major: Area Studies: East Asian. Thesis: *Continuity and Change in Chinese Policy in Sinkiang: 1860-1960*.

Eunice Thompson Goodin, Glencoe,
Ill.

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

Alan Lewis Gould, Minneapolis

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

George Bearnard Graen, Minneapolis

B.A. *cum laude* '61, University of Minnesota. Major: Industrial Relations. Minor: Psychology. Thesis: The Factors of the Job Satisfaction—Dissatisfaction Continuum.

Monroe David Grams, Fond du Lac,
Wis.

B.Th. '62, North Central Bible College. Field of Concentration: Speech and Theater Arts.

Gerald Jerome Hanggi, St. Paul

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

David Warren Haskin, Minneapolis

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

Raymond Elving Hillstrom, Willmar

B.S. '57, University of Minnesota. Field of Concentration: Agricultural Education.

John Walter Hislop, St. Paul

B.S. '54, College of St. Thomas. Field of Concentration: Physical Education.

William Henry House, Two Harbors

B.S. '38, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Marlys Carol Howe, St. Paul

B.A. '60, University of Minnesota. Field of Concentration: Library Science.

John Hultmann, St. Paul

B.S. '52, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

Robert Dorsey Ivey, Jr., Miami, Fla.

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

Carl Francis Jeanetta, Duluth

B.S. '59, University of Minnesota. Field of Concentration: Education.

Joanne Justine Jedlicki, Sauk Rapids

B.A. '62, College of St. Benedict. Field of Concentration: English.

Alton Chauncey Jensen, Grantsburg,
Wis.

B.S. '53, Wisconsin State College (Superior). Field of Concentration: Curriculum and Instruction.

Elsie Violet Johnson, Duluth

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

Waleta Daryl Johnson, Minneapolis

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

Martha Dillon Jordan, Minneapolis

B.A. *cum laude* '61, Mount Holyoke College. Major: History. Minor: Political Science. Thesis: An Examination of the Political and Religious Writings of Sir Henry Vane, the Younger.

Milan Steve Karich, Duluth

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

Charles Edwin Kirk, Jr., St. Paul

B.B.A. '61, University of Minnesota. Field of Concentration: Political Science.

Donald Paul Kohns, Cherokee, Iowa

B.S.Com. '55, Creighton University; B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Maynard Ross Lager, Hopkins

B.S. with honors '52, Mankato State College. Field of Concentration: Industrial Education.

Donald B. Lamont, Chippewa Falls,
Wis.

B.S. '57, Wisconsin State College (Eau Claire). Field of Concentration: History.

Grace Wu Lee, Manila, Philippines

B.S.E.Ed. '58, University of the East (Philippines). Field of Concentration: Curriculum and Instruction.

John Gorden Lind, Milaca

B.S. '57, St. Cloud State College. Field of Concentration: Industrial Education.

Lynn Mansell Louden, St. Louis Park
B.A. *magna cum laude* '58, Gettysburg College. Major: Philosophy. Minor: Art. Thesis: Action and Motives, with Special Reference to Hume's Treatise of Human Nature.

Warren Herbert Loveless, Vinalhaven, Maine

B.A. with distinction '58, University of Maine. Field of Concentration: English.

Verna-Marie Miller Maas, St. Paul

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

Gene Ervin Malott, St. Paul

B.S. '55, Northwestern University. Field of Concentration: Journalism.

Della Wenum Miller, Spring Valley, Wis.

B.S. '57, Wisconsin State College (River Falls). Field of Concentration: Curriculum and Instruction.

Donald Swanson Milton, Minneapolis

B.A. *cum laude* '58, Gustavus Adolphus College. Major: Philosophy. Minor: Greek. Thesis: 'Nous' and 'Noein' in Aristotle.

Donald Arthur Myrvik, Minneapolis

B.A. '58, Augsburg College. Field of Concentration: Music.

Peter E. Obermeyer, Rochester

B.A. '60, St. Olaf College. Field of Concentration: Industrial Relations.

Kennalee Ogden, LaGrange, Ill.

B.A. '61, College of Wooster. Field of Concentration: Psychology.

David Lee Parmeter, Littlefork

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

Raymond Frank Paskvan, Chisholm

B.A. '60, Carleton College. Field of Concentration: History.

Richard Bruce Pearson, Duluth

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

John Allison Pringle, Minneapolis

B.S. in Educ. '57, Pennsylvania State Teachers College (Shippensburg). Field of Concentration: Educational Administration.

Gilbert Alfred Quaal, Deer River

B.S. '50, St. Cloud State College. Major: Education. Minor: Zoology. Thesis: A Comparison of Conservation Attitudes Held by Conservationists and High School Teachers.

Laura Anita Radtke, Saginaw

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

Dennis G. Raveling, Arlington Heights, Ill.

B.A. '60, Southern Illinois University. Major: Zoology. Minor: Botany. Thesis: Variation Among Samples of Tennessee Warblers (*Vermivora Peregrina*) Killed in Nocturnal Migration at a TV Tower.

Milton Robert Ravensborg, Minneapolis

B.A. '60, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Manifest and Measured Interests of Male, Relief Recipients Who Tend to Score Above T-59 on the Psychopathic Deviate Scale of the Minnesota Multiphasic Personality Inventory.

John Vincent Reitz, Duluth

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

Lucille Doris Rosenow, Minneapolis

B.S. '49, St. Cloud State College. Field of Concentration: Educational Administration.

Ronald John Ross, St. Paul

B.A. *magna cum laude* '61, University of Minnesota. Field of Concentration: History.

Elmer Michael Rusten, Wayzata

B.A. '59, Princeton University. Field of Concentration: Educational Administration.

Curtis Duane Ruud, Sioux Falls, S.D.

B.A. *cum laude* '61, Augustana College. Field of Concentration: English.

Ernesto Sanchez, Santurce, Puerto Rico

B.A. with honors '60, University of Puerto Rico. Field of Concentration: Political Science.

Delores Ann Schaefer, Minneapolis
B.A. '58, College of St. Catherine. Field of
Concentration: French.

Ann Marie Schoelkopf, Minneapolis
B.S. with distinction '56, University of Min-
nesota. Field of Concentration: Educational
Psychology.

Helen Noon Schoenheider, Robbins-
dale
B.S. '61, University of Minnesota. Field of
Concentration: Art Education.

Elmer Donald Smith, Grand Rapids
B.S. '55, Bemidji State College. Field of Con-
centration: Curriculum and Instruction.

Barbara H. Snowfield, Minneapolis
B.A. '55, University of Minnesota. Field of
Concentration: Library Science.

Anthony Junior Stauber, Duluth
B.S. '51, University of Minnesota. Field of
Concentration: Education.

John James Strucel, Virginia
B.A. '61, University of Minnesota. Field of
Concentration: English.

Gerald John Svat, Lakewood, Ohio
B.A. '60, Ohio State University. Field of Con-
centration: Area Studies: Russian.

Luis Torres, Santurce, Puerto Rico
B.A. '58, Muhlenberg College. Field of Con-
centration: History.

Victor Tso-hsiung Tsou, Fukien,
China
B.A. '59, National Taiwan University. Field of
Concentration: Statistics.

Gordon Stanfield Wade, Minneapolis
B.A. '58, University of Minnesota. Field of
Concentration: Library Science.

Norman Mairs Watt, Minneapolis
B.A. '60, University of Minnesota. Field of
Concentration: German.

James Noel Wegner, Austin
B.S. '53, University of Minnesota. Field of
Concentration: Art Education.

William Steven Widman, St. Paul
B.A. '58, St. John's University (Minnesota).
Field of Concentration: Educational Psy-
chology.

Roger Allan Williams, Minneapolis
B.A. '38, University of Minnesota. Field of
Concentration: History.

Dale LaMar Wolff, Lake Geneva,
Wis.
B.Ed. '55, Wisconsin State College (White-
water). Field of Concentration: Curriculum
and Instruction.

David Joel Zinman, New York, N.Y.
Mus.B. '58, Oberlin Conservatory. Major:
Music. Minor: Speech and Theater Arts.
Thesis: An Orchestral Impression of the Third
Canto From Dante's *Inferno*.

Master of Arts in Public Administration

Gary Lewis Filerman, Minneapolis
B.A. '59, M.H.A. '61, University of Minne-
sota. Major: Public Administration. Thesis:
The Legislative Campaign for the Passage of
a Medical Care for the Aged Bill.

Wayne Clair Olson, Storm Lake,
Iowa
B.A. '55, University of South Dakota. Major:
Public Administration. Thesis: An Adminis-
trative History of Korean Law Enforcement.

Robert William Schaefer, Bloom-
ton

B.A. '54, College of St. Thomas. Major: Pub-
lic Administration. Thesis: Planning the
Municipal Insurance Program.

Master of Business Administration

Oscar Marion Brumfiel, Minnetonka

B.S. in M.E. '40, University of Tennessee. Field of Concentration: Business Administration.

Donald Jay Hempel, Minneapolis

B.A. *cum laude* '59, University of Minnesota. Field of Concentration: Business Administration.

Grant Wetenkamp Howard, St. Paul

B.S.B.A. '48, University of Nebraska. Field of Concentration: Business Administration.

Robert Lyle Jensen, St. Louis Park

B.A. '42, Grinnell College. Field of Concentration: Business Administration.

Thomas Patrick O'Meara, Minneapolis

B.B.A. with distinction '60, University of Minnesota. Field of Concentration: Business Administration.

James Thomas Parry, Edina

B.S. '54, Iowa State University. Field of Concentration: Business Administration.

David Alan Petterson, Minneapolis

B.S.B.A. '55, Northwestern University. Field of Concentration: Business Administration.

Donald Chisholm Reioux, Arden Hills

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

Harry Howard Vernon, White Bear Lake

B.B.A. with honors '54, University of Wisconsin. Field of Concentration: Business Administration.

Arthur John Ziegler, Minneapolis

B.A. '57, University of Minnesota. Field of Concentration: Business Administration.

Master of Social Work

Charles Thomas Besnett, Minneapolis

B.A. '60, University of Minnesota. Field of Concentration: Social Work.

John David Bower, Minneapolis

B.A. *magna cum laude* '61, Northwestern University. Field of Concentration: Social Work.

Lois Kay Christopherson, Spencer, Iowa

B.A. '61, Grinnell College. Field of Concentration: Social Work.

Donald Dennis Ehrich, Stillwater

B.A. '56, Gustavus Adolphus College. Field of Concentration: Social Work.

Gerald Kevin Foley, Kelliher

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

Russell Wesley Goodman, St. Paul

B.A. '57, Macalester College. Field of Concentration: Social Work.

Helen Josephine Evangeline Gulstad, Omaha, Neb.

B.A. with distinction '56, University of Omaha. Field of Concentration: Social Work.

Ruth Elizabeth Hiland, St. Paul

B.A. '61, Franklin College of Indiana. Field of Concentration: Social Work.

Sandra Lynne Overton Holman, Madison, Wis.

B.A. '61, University of Minnesota. Field of Concentration: Social Work.

Karen Elizabeth Gulsvig Johnson, Minneapolis

B.A. '61, Luther College. Field of Concentration: Social Work.

Stella Anastasia Katifori, Athens, Greece

B.A. '61, University of Minnesota. Field of Concentration: Social Work.

Lloyd Warren Lenarz, St. Cloud

B.A. '60, St. Cloud State College. Field of Concentration: Social Work.

Leonard Donald Lorenz, Minneapolis
B.A. *cum laude* '61, Augsburg College. Field of Concentration: Social Work.

David Warren Lundsten, Minneapolis
B.A. '58, University of Minnesota. Field of Concentration: Social Work.

Gloria Donna Elaine MacRae, Calgary, Alberta, Canada
B.A. '53, University of Texas. Field of Concentration: Social Work.

Mary Ann Newman, Minneapolis
B.A. '50, Iowa State Teachers College. Field of Concentration: Social Work.

LaVerne Alice Novak, Willow River
B.A. '61, College of St. Catherine. Field of Concentration: Social Work.

Nathalia Marshman Zimmerman,
Minneapolis

B.S. '49, Iowa State University. Field of Concentration: Social Work.

Jean Carolyn Reps, Minneapolis
B.S. with distinction '58, University of Minnesota. Field of Concentration: Social Work.

Lucy Ann Rowley, Loveland, Colo.
B.S. with honors '61, Texas Woman's University. Field of Concentration: Social Work.

Susan Gail Scheiner, Minneapolis
B.A. *cum laude* '61, University of Minnesota. Field of Concentration: Social Work.

Kristina Toffer, Allentown, Pa.
B.A. '61, Muhlenberg College. Field of Concentration: Social Work.

Marie Jean Wagner, Comfrey
B.A. '61, University of Minnesota. Field of Concentration: Social Work.

Master of Science

Karel B. Absolon, St. Paul
M.D. '52, Yale University. Major: Physiology. Minor: Pathology. Thesis: Experimental Studies on the Pathological Physiology of Pulmonary Edema.

Edward William Bailey, Jr., Denver, Colo.
B.S.C.E. '59, University of Colorado. Field of Concentration: Public Health.

Sung Hwan Ban, Keung Nam, Korea
B.S. '55, M.S. '58, Seoul National University. Field of Concentration: Agricultural Economics.

Frederic John Baude, Milwaukee, Wis.
B.S.(Chem.) '60, University of Wisconsin. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Reactions of 3-Alkylindoles with *p*-Benzoquinone.

Garren Orel Benson, Tofte
B.S. '61, University of Minnesota. Field of Concentration: Soil Science.

Evelyn B. Bergh, Sioux Falls, S.D.
B.S. '42, University of Minnesota. Major: Medical Technology. Minor: Anatomy. Thesis: The Relationship of Laboratory Tests to Transfusion Requirements in Hemolytic Disease of the Newborn.

Maurice Blaug, Minneapolis
B.S. '59, The City College of New York. Field of Concentration: Physics.

Franklin Wagner Briese, Minneapolis
B.A. *cum laude* '59, University of Minnesota. Major: Biostatistics. Minors: Mathematics and Statistics. Thesis: Comparison of Univariate Classification Procedures for Two Populations.

Ben Andrew Brodovicz, Jr., Middletown, Pa.
B.S. '58, Pennsylvania State University. Field of Concentration: Public Health.

Donald Joseph Buysse, Minnesota
B.S. '60, University of Minnesota. Major: Entomology. Minor: Plant Pathology. Thesis: The Effect of Planting Corn Following Corn on the Relative Importance of the Northern Corn Rootworm, *Diabrotica Longicornis* Say, in Southwestern Minnesota.

Joseph Eugene Carroll, Hopkins

B.A. *summa cum laude* '58, St. Mary's College. Major: Physics. Minor: Mathematics. Thesis: The Lagrange-Rayleigh Method in Small Vibration Theory.

Gilbert Bruce Churchill, Austin

B.S. with distinction '61, University of Minnesota. Field of Concentration: Forestry.

Robert Lloyd Cliplef, Minneapolis

B.S. with distinction '60, University of Minnesota. Field of Concentration: Animal Husbandry.

Bruce Oscar Coles, Mobridge, S.D.

B.S. '54, South Dakota State College. Field of Concentration: Agricultural Economics.

Rachel Dardis, Dublin, Ireland

Diploma '49, St. Mary's College (Ireland). Field of Concentration: Home Economics.

Richard Reno Day, Appleton

B.S. '59, University of Minnesota. Major: Dairy Industries. Minor: Agricultural Economics. Thesis: Consumer Acceptance of Milk Fortified by the Addition of Nonfat Milk Solids.

Robert Blair Doolen, Billings, Mont.

B.S. with distinction '61, University of Minnesota. Field of Concentration: Mechanics and Materials.

Verdell Gordon Erickson, La Crosse, Wis.

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

Elbert Eugene Fisher, White Bear Lake

B.S. '59, University of Minnesota. Major: Mathematics. Minor: Fluid Mechanics. Thesis: Gyroscopic Motions of a Fast Symmetrical Top.

George Gamota, Minneapolis

B.Phys. with distinction '61, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: He³ Cryostat for Nuclear Polarization Studies.

Barton David Gross, Freeport, N.Y.

B.A. '60, Cornell University. Field of Concentration: Geology.

Bale S. Gurunanajappa, K. R. Nagar, Mysore, India

B.Sc.(Hons.) '58, M.S. '59, University of Mysore (India). Field of Concentration: Statistics.

Edward George Heinle, Philadelphia, Pa.

B.S. '61, Delaware Valley College. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: Methods of Management to Control Iodine-131 in Fluid Milk Supply.

Gene Willard Hemp, Minneapolis

B.S. with distinction '61, B.S.B. with distinction '62, University of Minnesota. Field of Concentration: Mechanics and Materials.

Herbert Duane Ihle, Minneapolis

B.A. '61, Concordia College. Field of Concentration: Business Administration.

Dorothy Murzyn Kautz, Cleveland, Ohio

B.A. *magna cum laude* '60, Western Reserve University. Field of Concentration: Organic Chemistry.

Harriet Miller Kellner, Cotton

B.S. '55, University of Minnesota. Major: Botany. Minor: Zoology. Thesis: Vegetation and Environment of Portions of the North Shore of Lake Superior, Minnesota.

Hyo Hyung Kim, Seoul, Korea

B.S. '60, Guilford College. Field of Concentration: Biostatistics.

Carol Stewart Kinney, Davis, Calif.

B.S. with honors '61, University of California. Major: Home Economics. Minor: Agricultural Biochemistry. Thesis: The Effect of a Folic Acid Antagonist, Aminopterin, on Pregnancy in the Rat.

Vilis Kurmis, Minneapolis

Diploma '49, Baltic University (Germany). Major: Forestry. Minor: Agricultural Plant Physiology. Thesis: Growth of Green Ash Seedlings in Upland Forest Soils.

Ronald Dorance Lindmark, Leonard

B.S. with distinction '61, University of Minnesota. Field of Concentration: Forestry.

Hsueh-Kang Ling, Taipei, China

B.A. '56, National Taiwan University. Field of Concentration: Physical Chemistry.

Jitendar Singh Mann, India

B.A. '54, M.A. '56, Panjab University (India). Field of Concentration: Agricultural Economics.

Michael Marczuk, St. Paul

B.Arch. '53, North Dakota State University. Major: Architecture. Minor: Art. Thesis: A High Density Housing and Urban Renewal Development.

Richard John Misgen, Faribault

B.S. in Pharm. '60, University of Minnesota. Major: Pharmaceutical Technology. Minor: Pharmacology. Thesis: Compatibilities and Incompatibilities of Some Intravenous Solution Admixtures.

Jean-Yves Misson, Brussels, Belgium

Diploma '58, University of Louvain (Belgium). Field of Concentration: Business Administration.

Curtis Jerome Nelson, Lyle

B.S. '61, University of Minnesota. Major: Agronomy. Minor: Agricultural Plant Physiology. Thesis: Factors Affecting the Value of Berseem Clover (*Trifolium Alexandrinum* L.) as a Forage and Companion Crop.

William Charles Olander, Minneapolis

B.S. with distinction '59, University of Minnesota. Major: Metallurgy. Minor: Physical Chemistry. Thesis: Thermal Diffusion of Defects in Crystals.

Donald Albert Perala, Swan River

B.S. with high distinction '60, University of Minnesota. Major: Forestry. Minor: Statistics. Thesis: Potassium and Sodium as Nutrients of American Elm, Silver Maple, Russian Olive, Hackberry, and Box Elder.

Leslie Larrimore Pointer, Sheridan, Wyo.

B.S. '62, Iowa State University. Major: Genetics. Minor: Agricultural Plant Physiology. Thesis: Effect of Race 8 of Stem Rust on Yield Components in Oats.

Victorin Joseph Ruhland, New Prague

B.S. '60, University of Minnesota. Field of Concentration: Agricultural Economics.

Jorge Salas-Tora, Mexico City, Mexico

B.A. '58, University of Mexico. Field of Concentration: Statistics.

Gerald Ralph Simon, Minneapolis

B.S. '55, University of Minnesota. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Glutamate Oxidation in Guinea Pig Cerebral Cortex Slices "in Vitro."

Vijai Bahadur Singh, Ballia, U. P. India

B.V.Sc. & A.H. '58, U. P. College of Veterinary Science and Animal Husbandry (India). Major: Veterinary Bacteriology. Minor: Dairy Husbandry. Thesis: Antibody Response to the Chicken-Embryo-Lethal-Orphan (Celo) Virus in Chickens and Turkeys.

Thomas Harold Strom, Minneapolis

B.A. '58, College of St. Thomas. Field of Concentration: Business Administration.

Laura Ruth Sweney, International Falls

B.A. cum laude '56, University of Minnesota. Major: Anatomy. Minor: Zoology. Thesis: A Morphological Study of the Islet of Langerhans in *Opsanus Tau* (Toadfish).

Alf Albert Swenson, Lakefield

B.A. magna cum laude '38, St. Olaf College. Field of Concentration: Business Administration.

Glenn Edward Tersteeg, Redwood Falls

B.S. with distinction '61, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: The Free Vibrations of Thin Elastic Shells (Circular Cylinders, Spheres, Cones, Ogives) as Described by Transverse Membrane and Edge Effect Analysis.

Patricia Toyomi Saito Toyama, Hilo, Hawaii

B.S. '60, University of Michigan. Major: Microbiology. Minor: Agricultural Biochemistry. Thesis: Electron Microscopic Studies of Several Arbor Viruses.

Richard Wilfred Trott, Columbus,
Ohio

B.Arch. *summa cum laude* '61, Ohio State University. Field of Concentration: Architecture.

Vital Valdivia, Santiago, Chile

Diploma '53, University of Chile. Field of Concentration: Genetics.

Angelina Ngo Yao, Manila, Philippines

B.S.(Chem.) '60, Mapua Institute of Technology. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: The Reaction of 2-Methylindole with Aminoacetals.

Master of Science in Agricultural Engineering

Myron Paul Molnau, Waconia

B.Ag.Eng. '61, University of Minnesota. Major: Agricultural Engineering. Minor: Mathematics. Thesis: A Field Study of Improved Techniques for the Development of Wellpoints for Irrigation Use.

Master of Science in Civil Engineering

Havard Aas, Oslo, Norway

B.S.C.E. '59, University of Colorado. Major: Civil Engineering (Hydromechanics). Minor: Civil Engineering (Soil Mechanics). Thesis: A Study of the Critical Hydraulic Exit Gradient for Flow Through Granular Media.

Anjan Kumar Bhaumik, Calcutta,
India

B.E.(Civil) '61, University of Calcutta. Field of Concentration: Civil Engineering.

Peter Robin Bjornberg, Willmar

B.C.E. '61, University of Minnesota. Field of Concentration: Civil Engineering.

Chen-Tian Chen, China

B.S. '60, National Taiwan University. Field of Concentration: Civil Engineering.

Min-Tsong Cho, Hualien, Taiwan

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

Sadrul Ula Abul Khair Choudhury,
Dacca, East Pakistan

B.Sc.(Civil) '59, University of Dacca. Field of Concentration: Civil Engineering.

Jack Donald Haag, St. Paul

B.S. with distinction '62, University of Minnesota. Field of Concentration: Civil Engineering.

Shuang Shih Liu, Changsha, China

B.S.(Eng.) '59, National Taiwan University. Field of Concentration: Civil Engineering.

Kaushikbhai Chimanlal Patel, Raipur,
Pakhali's Pole, India

B.E.(Civil) '61, University of Baroda (India). Field of Concentration: Civil Engineering.

Kin te Rai, Taipei, Formosa

B.Sc. '58, Taiwan Provincial Cheng Kung University. Field of Concentration: Civil Engineering.

J. K. Sridhar Rao, Bangalore, India

B.E. '60, University of Mysore (India). Field of Concentration: Civil Engineering.

Dale Allen Reisdorfer, Adrian

B.S. '62, University of Minnesota. Field of Concentration: Civil Engineering.

Charles Hideo Sawa, Ewa, Hawaii

B.S.C.E. '59, University of Hawaii. Field of Concentration: Civil Engineering.

Abdul Mulik Sayeedi, Pakistan

B.E.(Civil) '55, University of Karachi. Field of Concentration: Civil Engineering.

Jagdish Singh Tandon, New Delhi,
India

B.E.(Civil) '61, University of Delhi. Field of Concentration: Civil Engineering.

Sawet Yasaravana, Bangkok, Thailand

B.E. '59, Kasetsart University (Thailand). Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Eugene Ramon Bakalars, St. Paul

B.S. '61, D.D.S. '61, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis:
Some Effects of Extraoral Forces as Revealed
by Cephalometrics and Metallic Implants.

Robert Joseph Boller, Minneapolis

B.A. '45, D.D.S. '46, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis: A
Photographic and Radiographic Study of the
Developmental Status of the Human Denti-
tion During the Fetal Period.

Lee Schoening Chapman, Minne-
apolis

B.S. '61, D.D.S. '61, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis:
The Effects of Mechanical Expansion and
Contraction Forces on the Bony Suture of
a Turtle.

Arthur Herbert Ingram, McKeesport,
Pa.

D.D.S. *cum laude* '59, University of Pittsburgh.
Major: Dentistry. Minor: Anatomy. Thesis:
An Investigation of the Forces Produced Dur-
ing Rapid Maxillary Expansion.

Leslie Roger Jevning, Climax

B.S. '58, D.D.S. '58, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis:
An Investigation of the Effects of Fluoride on
Controlled Tooth Movement in the Hamster.

Lawrence Henry Meskin, Detroit,
Mich.

D.D.S. '61, University of Detroit. Major:
Dentistry. Minor: Pathology. Thesis: The Ab-
normal Morphology of the Soft Palate: The
Frequency and Genetics of Cleft Uvula.

Frank William Worms, Jr., Peoria, Ill.

D.D.S. '61, University of Minnesota. Major:
Dentistry. Minor: Anatomy. Thesis: Radio-
autography Studies of Collagen Formation in
the Hamster Periodontium During Tooth
Movement Using Tritiated Proline.

Master of Science in Dermatology

Bernard Gottlieb, Los Angeles, Calif.

B.S. '52, M.D. '56, University of Pennsylvania.
Major: Dermatology. Minor: Pathology. The-
sis: The Fine Structure of the Nevus Cell.

Charles Martel Wilhelmj, Omaha,
Neb.

B.A. '50, M.D. '56, Creighton University.
Major: Dermatology. Minor: Pathology. Thesis:
The Production of Hypersensitivity to Skin in
Animals.

Master of Science in Electrical Engineering

Paul Tak Hao Chen, Kwangtung,
China

B.S.(Eng.) '60, National Taiwan University.
Major: Electrical Engineering. Minor: Mathe-
matics. Thesis: A Comparison Study of Eastern
and Western Linear Control System Design
Theory.

Bruce Arnold Christensen, Minne-
apolis

B.S. with high distinction '59, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Velocity Distri-
bution of Electrons Emitted from a Pulsed
Oxide Cathode.

Michael Bernt Colligan, Ebro

B.S. with high distinction '61, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Generation-Re-
combination Noise in Single Crystal Silicon.

Peter Swift Hauge, Minneapolis

B.S. with distinction '61, University of Min-
nesota. Major: Electrical Engineering. Minor:
Mathematics. Thesis: A Study of Single Crystal
N-Type Germanium.

Kenneth Earl Hendrickson, Minneapolis

B.S. with high distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Microwave Magnetoconductivity in Germanium.

Matti Kert, Northfield

B.S. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: On the Determination of Lyapunov Functions for Nonlinear Control Systems.

Ronald Ervin Nielsen, St. Paul

B.S. with distinction '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Secondary Electron Emission Characteristics of Anodic Films on Aluminum.

Kenneth Francis Ramacher, St. Francis

B.S. with distinction '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Energy Losses of Electrons Transmitted by Unbacked Gold Films.

Master of Science in Industrial Engineering

Roger Glenn Schroeder, Faribault

B.S. with distinction '62, University of Minnesota. Field of Concentration: Industrial Engineering.

Master of Science in Mechanical Engineering

David Alan Nealy, Adrian

B.S. with high distinction '60, University of Minnesota. Field of Concentration: Mechanical Engineering.

William Fred Raleigh, St. Paul

B.S. with high distinction '61, University of Minnesota. Field of Concentration: Mechanical Engineering.

Master of Science in Medicine

George Leighton Allen, Birmingham, Mich.

B.S. '52, M.D. '56, University of Michigan. Major: Medicine. Minor: Physiology. Thesis: A Search for Relationships Between Antral and Duodenal Electrical Activity.

Harry P. Ward, Pueblo, Colo.

B.A. '55, Princeton University; M.D. '59, Colorado University. Major: Medicine. Minor: Hematology. Thesis: The Kinetics of Radioactive Iron in Bone Marrow Culture as Studied by Cytoautoradiography.

Master of Science in Metallurgical Engineering

John Randall Burke, Ft. Worth, Tex.

Diploma '58, Colorado School of Mines; M.S. '60, Stanford University. Major: Metallurgical Engineering. Minor: Geology. Thesis: The Kinetics of the Dissolution of Metallic Copper and Copper Sulfides in Ferric Sulfate-Sulfuric Acid Solutions.

Master of Science in Mineral Engineering

Karl-Hermann Hulsmann, Freren,
Germany

Diploma '61, Rhenish-Westphalian Technical
University of Aachen (Germany). Field of
Concentration: Mineral Engineering.

Ulrich Willy Schulz, Grevenbroich,
Germany

Diploma '61, Technical University of Stuttgart
(Germany). Field of Concentration: Mineral
Engineering.

Wolfgang R. Wawersik, Germany

Diploma '61, Rhenish-Westphalian Technical
University of Aachen (Germany). Field of
Concentration: Mineral Engineering.

Master of Science in Obstetrics and Gynecology

Joseph Suter Masee, Minneapolis

B.S. '51, University of North Dakota; M.D.
'55, University of Minnesota. Major: Obstetrics
and Gynecology. Minor: Pathology. Thesis:
Use of Fetal Membranes as Replacement for
Pelvic Peritoneum: An Experimental Study.

Master of Science in Orthopedic Surgery

Rodney Lynn Belcher, Arlington, Va.

M.D. '56, University of Miami. Major: Ortho-
pedic Surgery. Minor: Pathology. Thesis: A
Description of the Pathologic Changes Induced
in the Canine Intervertebral Disc Space by In-
troduction of Living *Staphylococcus Aureus*.

Warren Malcolm Granberry, San
Antonio, Tex.

B.S. '53, M.D. '57, Tulane University. Major:
Orthopedic Surgery. Minor: Pathology. Thesis:
The Effects of Microwave Diathermy Applied
to the Knee of Immature Dogs.

Sherwin Sanford Kornblum, Los
Angeles, Calif.

B.A. '52, University of California; M.D. '57,
University of Chicago. Major: Orthopedic Sur-
gery. Minor: Pathology. Thesis: The Micro-
radiographic Morphology of Bone from Is-
chemic Limbs.

Richard Joseph Patterson, Harrisburg,
Pa.

B.S. '52, Dickinson College; M.D. '58, Temple
University. Major: Orthopedic Surgery. Minor:
Pathology. Thesis: Idiopathic Avascular Ne-
crosis of the Femoral Head.

Paul Emerson Van Horn, Jr., Prince-
ton, N.J.

B.A. '51, Yale University; M.D. '55, New
York University. Major: Orthopedic Surgery.
Minor: Pathology. Thesis: Fibrous Dysplasia:
A Clinical Pathologic Study of Orthopedic
Surgical Cases.

Master of Science in Otolaryngology

Paul Lawrence Goethals, Sturgis,
Mich.

B.S. '54, M.D. '58, Loyola University. Major:
Otolaryngology. Minor: Pathology. Thesis:
Cartilaginous Tumors of the Larynx.

Marton Majoros, Budapest, Hungary

M.D. '55, Pazmany Peter University (Hun-
gary). Major: Otolaryngology. Minor: Pathol-
ogy. Thesis: Papilloma of the Larynx in Chil-
dren: A Clinicopathological Study.

Master of Science in Pathology

Lloyd Silverman, Toronto, Ontario,
Canada

M.D. '56, University of Toronto. Major:
Pathology. Minor: Hematology. Thesis: Gang-
lionneuroblastoma.

Master of Science in Radiology

James Richard Stewart, Rochester

M.D. '57, University of Iowa. Major: Radi-
ology. Minor: Pathology. Thesis: Vascular
Rings and Related Malformations of the
Aortic Arch.

Master of Science in Surgery

George Albertal, Argentina

B.A. '50, St. George's College; M.D. '56,
Buenos Aires University (Argentina). Major:
Surgery. Minor: Pathology. Thesis: Hemo-
dynamic Studies Performed Two Weeks and
One to Six Years After Repair of Tetralogy
of Fallot.

Mohammad Ameli, Iran

B.S. '51, M.D. '55, University of Geneva.
Major: Surgery. Minor: Pathology. Thesis:
Regulation of Aldosterone Release.

Anatolio Benedicto Cruz, Jr., Quezon
City, Philippines

M.D. '57, University of the Philippines. Major:
Surgery. Minor: Physiology. Thesis: Effect of
Intra-Arterial Insulin on Tissue Cholesterol
and Fatty Acids in Alloxan-Diabetic Dogs.

Manuel Galofré, Barcelona, Spain

M.D. '55, University of Barcelona (Spain).
Major: Surgery. Minor: Pathology. Thesis:
Cystic Hygroma.

Tomas Antonio Guzman, Bogota, Co-
lombia, South America

M.D. '54, National University of Colombia.
Major: Surgery. Minor: Pathology. Thesis:
Evaluation of Hepatic Response to Inter-
stitial Irradiation by Radioisotope Tagged
Microspheres Introduced into the Hepatic
Artery.

John Mayo Hartzell, Pointe Farms,
Mich.

B.A. '53, Cornell University; M.D. '57, Uni-
versity of Michigan. Major: Surgery. Minor:
Pathology. Thesis: Changes in Duodenal pH
After Exclusion of Pancreatic Secretions in
Dogs.

Donald Marks Hopkins, Rochester

B.S. '53, M.D. '56, Northwestern University.
Major: Surgery. Minor: Pathology. Thesis:
Experimental Free Transplants of the Stomach,
Ileum and Colon as Replacements for the
Cervical Esophagus.

Roger Stanley Johnson, Minneapolis

B.A. '47, B.S. '48, M.B. '50, M.D. '51, Uni-
versity of Minnesota. Major: Surgery. Minor:
Pathology. Thesis: Evaluation of the Treat-
ment of Flail Chest: An Experience with Sixty-
seven Cases.

Morris Joseph Levy, Tel Aviv, Israel

M.D. '50, University of Sofia (Bulgaria).
Major: Surgery. Minor: Pathology. Thesis:
Cardiac Puncture Catheterization.

Certificate of Specialist in Education

James Wendell Anderson, St. Paul
Park

B.S. '53, St. Cloud State College; M.A. '55,
University of Minnesota. Field: Educational
Administration.

Richard R. Rohde, Hales Corners,
Wis.

B.S. '39, Wisconsin State College (Oshkosh);
M.Ph.(Educ.) '45, University of Wisconsin.
Field: Educational Administration.

Doctor of Philosophy

Patrick Robert Ahern, Albert Lea

B.S. with distinction '59, M.S. '61, University
of Minnesota. Major: Mathematics. Minor:
Physics. Thesis: Tauberian Methods in the
Theory of Primes. Major Adviser: Prof. S. A.
Gal.

Khursheed Alam, Karachi, Pakistan

B.S. '41, M.S. '43, Patna University (India).
Major: Statistics. Minor: Mathematics. Thesis:
A Two-Stage Sampling Procedure for Esti-
mating a Common Mean. Major Adviser:
Prof. Milton Sobel.

Edward Alexander, Brooklyn, N.Y.

B.A. with honors '57, Columbia University;
M.A. '59, University of Minnesota. Major:
English. Minor: French. Thesis: Matthew Ar-
nold and John Stuart Mill. Major Adviser:
Prof. J. C. Levenson.

Donald Norris Anderson, Mankato

B.S. '40, Mankato State College; M.A. '53,
University of Minnesota. Major: Education.
Minor: Educational Psychology. Thesis: An
Experimental Evaluation of Two Methods for
Developing Creative Problem Solving Abilities
in an Industrial Arts Course. Major Adviser:
Prof. H. F. Nelson.

Gerald William Anderson, Minne-
apolis

B.S. '52, M.F. '58, University of Minnesota.
Major: Plant Pathology. Minor: Forestry.
Thesis: The Biology and Control of Some
Cronartium Rusts on Jack Pine. Major Adviser:
Prof. D. W. French.

Arthur Lawrence Aronson, Minne-
apolis

B.S. '55, D.V.M. '57, University of Minne-
sota; M.S. '59, Cornell University. Major:
Veterinary Physiology and Pharmacology.
Minor: Agricultural Biochemistry. Thesis: Fac-
tors Determining the Efficiency and Degree of
Lead Mobilization from Soft Tissue by a
Chelating Agent. Major Adviser: Prof. P. B.
Hammond.

Dov Issachar Avishalom, Tel Aviv,
Israel

B.A. '35, University of Warsaw; M.Sc. '37,
Hebrew University in Jerusalem. Major: Mathe-
matics. Minor: Philosophy. Thesis: The Axi-
omatic Processes in the Foundations of Geom-
etry and Their Translation into Reality and
Education. Major Adviser: Prof. P. C. Rosen-
bloom.

Donald McLeod Barnes, St. Paul

B.S. with high distinction '53, D.V.M. '55,
University of Minnesota. Major: Veterinary
Medicine. Minor: Pathology. Thesis: Mecha-
nisms of Pathogenesis of Clostridial Myonecro-
sis. Major Adviser: Prof. D. K. Sorensen.

Gustav Eric Bauer, New York, N.Y.

B.S. '57, Queens College; M.A. '59, Western
Reserve University. Major: Anatomy. Minor:
Zoology. Thesis: The In Vitro Incorporation
of C¹⁴- and H³-Labeled Amino Acids into the
Proteins of Goosefish Islet Tissue. Major Ad-
viser: Dr. Arnold Lazarow.

George Albert Bean, Westbury, N.Y.

B.S. '58, Cornell University; M.S. '60, Uni-
versity of Minnesota. Major: Plant Pathology.
Minor: Botany. Thesis: Studies on the Physi-
ology and Pathogenicity of Helminthosporium
Species Attacking Bluegrass (*Poa Pratensis* L.).
Major Adviser: Prof. R. D. Wilcoxson.

Charles Harris Benrud, Goodhue

B.S. with high distinction '48, M.S. '49, Uni-
versity of Minnesota. Major: Agricultural Eco-
nomics. Minor: Economics. Thesis: Economic
and Other Factors Associated with Variation in
Alfalfa Seed Production in South Dakota.
Major Adviser: Prof. S. A. Engene.

Arnold William Blomquist, Felch,
Mich.

B.S. with honors '58, Michigan State Uni-
versity; M.S. '61, University of Minnesota.
Major: Horticulture. Minor: Genetics. Thesis:
A Quantitative Genetic Analysis of Resistance
to Common Scab (*Streptomyces Scabies*
Thaxt.) in the Irish Potato (*Solanum Tub-
erosum* L.). Major Adviser: Prof. F. I. Lauer.

Gerhardt H. Bohn, River Falls, Wis.

B.S. '54, Wisconsin State College (River Falls); M.S. '56, University of Minnesota. Major: Education. Minor: Agricultural Engineering. Thesis: An Evaluation of the Potential Value of a Maintenance Oriented Instructional Program in Vocational Agriculture as a Means of Improving the Operating Characteristics of the Farm Tractor. Major Adviser: Prof. M. J. Peterson.

Quentin R. Bohne, Bellevue, Wash.

B.C.E. with high distinction '44, M.S. '48, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Ground Wind-Induced Loads on Axisymmetric Launch Vehicles. Major Adviser: Prof. Paul Andersen.

Robert C. Bredeson, Minneapolis

B.A. with honors '51, Grinnell College; M.A. '52, University of Minnesota. Major: English. Minor: History. Thesis: Mark Twain's Landscapes: A Study in Changing Literary Conventions. Major Advisers: Profs. Bernard Bowron and J. C. Levenson.

Robert C. Bright, Preston, Idaho

B.S. '52, M.S. '60, University of Utah. Major: Geology. Minor: Botany. Thesis: Pleistocene Lakes Thatcher and Bonneville, Southeastern Idaho. Major Adviser: Prof. H. E. Wright, Jr.

Samuel Mitchell Brock, Orono, Maine

B.S. with distinction '56, M.F. '56, University of Michigan. Major: Forestry. Minor: Economics. Thesis: Factors Influencing the Use of Maine Softwood Lumber in the Building Construction Industry of the Northeastern United States. Major Adviser: Prof. R. A. Skok.

Sylvan Duane Burgstahler, Glencoe

B.S. with high distinction '51, M.S. '53, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Contributions to the Study of Heat Conduction in Composite Systems and to Heat Potential Theory. Major Adviser: Prof. J. B. Serrin, Jr.

Cornelius B. Canon, Truman

B.S. '55, Mankato State College; M.A. '57, University of Minnesota. Major: Music. Minor: History. Thesis: The Federal Music Project of the Works Progress Administration: Music in a Democracy. Major Adviser: Prof. Johannes Riedel.

William Francis Cates, Prior Lake

B.S. with distinction '52, D.V.M. '54, University of Minnesota. Major: Veterinary Medicine. Minor: Microbiology. Thesis: Minimum Daily Exogenous Progesterone Requirement for Implantation in the Bovine Species. Major Adviser: Prof. Raimunds Zemjanis.

Henry Hung-yeh Chien, China

B.S. '56, Taiwan Provincial Institute of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Optimal Control of a Batch Reactor. Major Adviser: Prof. Rutherford Aris.

Chong-wei Chu, China

B.S. '53, Taiwan College of Engineering; M.S. in M.E. '58, University of Minnesota. Major: Fluid Mechanics. Minor: Mathematics. Thesis: Nonlinear Wave Motion in an Infinite Cylindrical Plasma Confined by a Magnetic Field. Major Adviser: Prof. T. L. Lundgren.

Morris Martin Clinger, Provo, Utah

B.A. '32, M.A. '46, Brigham Young University. Major: Speech and Theater Arts. Minor: English. Thesis: A History of Theater in Mormon Colleges and Universities. Major Adviser: Prof. F. M. Whiting.

Sherwood Stanley Cordier, Kalamazoo, Mich.

B.A. '50, Juniata College; M.A. '51, Yale University. Major: History. Minor: Political Science. Thesis: Erwin Rommel as Commander: The Decisive Years, 1940-1942. Major Adviser: Prof. H. C. Deutsch.

Eloise Norma Courter, St. Cloud

B.A. with honors '37, Rutgers University; M.A. '46, Columbia University Teachers College. Major: Education. Minor: English. Thesis: The Language Beliefs and Attitudes of Minnesota Elementary Teachers. Major Advisers: Profs. H. B. Allen and S. B. Kegler.

Marvin Lee Entner, Minneapolis

B.A. *cum laude* '55, M.A. '58, University of Minnesota. Major: History. Minor: Geography. Thesis: Russia and Persia, 1890-1912. Major Advisers: Profs. G. W. Anderson and H. C. Deutsch.

Harlan Downing Fayle, Hammond, Ind.

B.A. '31, Hamline University; M.S. '36, University of Minnesota. Major: Pharmacology. Minor: Physiological Chemistry. Thesis: Studies in the Toxicology of Cadmium. Major Adviser: Dr. H. N. Wright.

Marion Roger Fedde, Mankato, Kan.

B.S. with honors '57, Kansas State University; M.S. '59, University of Minnesota. Major: Poultry Science. Minor: Veterinary Anatomy. Thesis: Neural Control of Avian Respiration. Major Adviser: Prof. R. E. Burger.

Arie Gaalswyk, Sioux Falls, S.D.

B.A. '42, Luther College; M.S. '47, University of Wisconsin. Major: Mathematics. Minor: Mechanics and Materials. Thesis: An Investigation of the Existence and Qualitative Behavior of One-Dimensional Combustion Shock Layers. Major Adviser: Prof. J. B. Serrin, Jr.

Chater Sen Gelda, Jaipur, India

B.Sc.(Agric.) '48, Allahabad University; M.S. '58, University of Minnesota. Major: Dairy Industries. Minor: Agricultural Economics. Thesis: An Investigation of Flavor Defects in Milk Associated with Sanitizers and Other Chemical Agents. Major Adviser: Prof. E. L. Thomas.

Joseph Genin, Tucson, Ariz.

B.C.E. '52, The City College of New York; M.S. '58, University of Arizona. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Effect of Nonlinear Material Damping on Shaft Vibrations. Major Adviser: Prof. T. J. Mentel.

Naguib Amin Fahmy Greis, Cairo, Egypt

B.A. '45, Cairo University (Egypt); Diploma '54, University of Exeter (England). Major: Education. Minor: English. Thesis: The Pedagogical Implications of a Contrastive Analysis of Cultivated Cairene Arabic and the English Language. Major Advisers: Profs. H. B. Allen and S. B. Kegler.

Walter Gordon Hardwick, Vancouver, British Columbia, Canada

B.A. '54, M.A. '58, University of British Columbia. Major: Geography. Minor: Business Administration. Thesis: The Forestry Industry of Coastal British Columbia: A Geographic Study of Place and Circulation. Major Adviser: Prof. E. C. Mather.

John Fedje Helling, Rosemount

B.S. '50, Hamline University; M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Relationship of Selected Student and School Practices to Differences in Guidance Emphasis. Major Adviser: Prof. C. P. Hooker.

Rachel Keen Hickman, Burkesville, Ky.

B.A. '59, Berea College; M.A. '60, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Auditory Habituation and Discrimination in the Human Neonate. Major Adviser: Prof. H. W. Stevenson.

William Edward Hobbs, St. Paul

B.S. '42, Alcorn A & M College; M.S. '53, University of Massachusetts. Major: Dairy Industries. Minor: Agricultural Biochemistry. Thesis: A Study of the Fortification of Fluid Milk and Milk Products with Nonfat Dry Milk. Major Adviser: Prof. S. T. Coulter.

Harold Robert Ireton, Madison, Conn.

B.A. with high honors '57, University of Connecticut. Major: Psychology. Minor: Neuropsychiatry. Thesis: Perception of Parents, Self-Concept, and Identification in Normal and Psychiatric Groups. Major Adviser: Prof. Ephraim Rosen.

Howard Gordon Jensen, Boulder, Colo.

B.B.A. '45, M.A. '49, University of Minnesota. Major: Business Administration. Minor: History. Thesis: Some Implications of the Cost Data Requirements of Linear Programming Analysis for Cost Accounting. Major Adviser: Prof. C. L. Nelson.

Donald Wilbur Johnson, Maple Plain

B.S. with high distinction '51, D.V.M. '53, University of Minnesota. Major: Veterinary Medicine. Minor: Microbiology. Thesis: Clinical and Experimental Studies on Shipping Fever of Cattle. Major Advisers: Profs. H. H. Hoyt and D. K. Sorenson.

Richard Theodore Johnson, Milwaukee, Wis.

B.S. '59, M.S. '60, Utah State University. Major: Educational Psychology. Minor: Psychology. Thesis: The Growth of Creative Thinking Abilities in Western Samoa. Major Adviser: Prof. E. P. Torrance.

Walter Kline Johnson, Minneapolis

B.S.C.E. with distinction '48, M.S.C.E. '51, University of Minnesota. Major: Civil Engineering. Minor: Chemical Engineering. Thesis: Nitrogen Removal from Waste Water by Biochemical Nitrification and Denitrification. Major Adviser: Prof. G. J. Schroeffer.

Roy Alfred Jorgensen, Jr., Berrien Springs, Mich.

B.A. '50, Emmanuel Missionary College; M.A. '51, University of Michigan. Major: Mathematics. Minor: Physics. Thesis: Construction and Variation of Canonical Conformal Maps of Multiply-Connected Domains. Major Adviser: Prof. S. E. Warschawski.

Robert Melville Knights, Fort William, Ontario, Canada

B.A. '58, University of Western Ontario (Canada). Major: Psychology. Minor: Child Psychology. Thesis: Visual Discrimination and Social Reinforcement in Normal and Emotionally Disturbed Boys. Major Adviser: Prof. R. D. Wirt.

Sigmund Krauthamer, Salt Lake City, Utah

B.S. in B.A. '49, Ohio State University. Major: Economics. Minor: Statistics. Thesis: The Firm's Demand for Productive Assets. Major Adviser: Prof. O. H. Brownlee.

Ivan Joseph Kubanis, La Mesa, Calif.

B.A. *summa cum laude* '47, University of Minnesota. Major: Political Science. Minor: Psychology. Thesis: Attitudes Toward Procedural Rights: Some Psychological and Sociological Correlates. Major Adviser: Prof. L. M. Short.

Alex Kurak, Fridley

B.S. '50, M.A. '53, University of Minnesota. Major: English. Minor: Philosophy. Thesis: Imitation, Burlesque Poetry, and Parody: A Study of Some Augustan Critical Distinctions. Major Adviser: Prof. S. H. Monk.

Richard Allen Lebrun, Langdon, N.D.

B.A. '53, St. John's University (Minnesota); M.A. '57, University of Minnesota. Major: History. Minor: Geography. Thesis: Joseph de Maistre: The Relationship Between His Political Thought and His Religious Thought. Major Adviser: Prof. J. B. Wolf.

James Richard Liesch, St. Paul

B.A. *summa cum laude* '50, College of St. Thomas; M.Ed. '53, University of the Philippines. Major: Education. Minor: Philosophy. Thesis: Philosophic Presuppositions of the Community School Movement of the Philippines. Major Adviser: Prof. R. H. Beck.

Roger Bruce Long, Minneapolis

B.S. '55, M.F. '59, University of Minnesota. Major: Agricultural Economics. Minor: Forestry. Thesis: An Investigation into the Nature of Supplemental Irrigation with an Emphasis on the Economic, Motivational and Physical Factors Involved. Major Adviser: Prof. P. M. Raup.

Johnson Yang-Seng Luh, Shanghai, China

B.S. '47, La Universitato Utopia (China); M.S. '50, Harvard University. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Analysis of a Sampled-Data Control System Containing Prescribed Natural Frequencies Higher Than the Half Sampling Frequency. Major Adviser: Prof. W. G. Shepherd.

John William Malone, Cincinnati, Ohio

Litt.B. *cum laude* '40, Xavier University; Ph.L. '43, S.T.L. '50, Loyola University. Major: Education. Minor: Educational Psychology. Thesis: Faculty Participation in Policy Making in Midwest Jesuit Colleges and Universities. Major Adviser: Prof. R. E. Eckert.

Robert Dean Merideth, Aurora, Ill.

B.A. with honors '57, University of Illinois; M.A. '58, Oklahoma State University. Major: American Studies. Thesis: Edward Beecher, the Deacon of the Civil War Generation: A Biographical Study of the Conflict Between Orthodox Theology and Radical Politics. Major Adviser: Prof. C. H. Foster.

Joseph Frederick Merklin, New York, N.Y.

B.S. '57, Manhattan College. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Radiation Chemistry of Organic Compounds. Major Adviser: Prof. Sanford Lipsky.

Santosh Kumar Nandy, Calcutta, India

B.A. (Hons.) '53, M.A. '56, University of Calcutta (India); M.A. '61, University of Minnesota. Major: Sociology. Minors: Anthropology and Political Science. Thesis: The Traditional and the Modern in the Idea of Social Change in Post-Independence India. Major Advisers: Profs. D. A. Martindale and E. D. Monachesi.

Niels Ole Nielsen, Edmonton,
Alberta, Canada

D.V.M. '56, University of Toronto. Major: Veterinary Pathology. Minor: Agricultural Biochemistry. Thesis: Studies on Edema Disease of Swine. Major Adviser: Prof. J. H. Sautter.

Richard Dean Odom, Corpus Christi,
Tex.

B.A. '56, M.A. '60, University of Texas. Major: Child Psychology. Minor: Psychology. Thesis: The Effects of Brief Auditory and Visual Stimulus Deprivation and Satiation on Children's Performance in a Simple Operant Task. Major Adviser: Prof. H. W. Stevenson.

Roger Gale Olstad, Minneapolis

B.S. '55, M.A. '59, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Secondary School Biology Achievement Related to Class Period Length and Teaching Method. Major Adviser: Prof. C. H. Boeck.

Oliver Alexander Ossanna, Minne-
apolis

B.S. *summa cum laude* '57, College of St. Thomas. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Base-Catalyzed Isomerization of 1,2-Diols. Major Adviser: Prof. S. W. Fenton.

Jin Hwan Park, Suwon, Korea

B.S. '52, M.S. '55, Seoul National University; M.S. '57, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Economics of Resource Use on Rice Farms in Korea. Major Adviser: Prof. S. A. Engene.

Anthony Leo Pavlick, Duluth

B.S.(Agric.) '49, University of Illinois; M.S. '56, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of the Effects of Federal Farm Programs on Incomes of Appalachian Farmers. Major Adviser: Prof. E. W. Learn.

Bernard Pollara, Chicago, Ill.

Ph.B. '51, M.S. '54, Northwestern University. Major: Physiological Chemistry. Minors: Organic Chemistry and Pharmacology. Thesis: Studies on the Nature of Cryofibrinogens. Major Adviser: Dr. R. W. Von Korff.

Richard Metcalf Prouty, Milford,
Mass.

B.S. '51, University of Massachusetts; M.S. '57, University of Connecticut. Major: Animal Husbandry. Minor: Agricultural Biochemistry. Thesis: A Study of the Effects of Selenium and Vitamin E upon the Lipid Metabolism of the Growing Pig. Major Adviser: Prof. R. J. Meade.

Joseph John Rahm, Foley

B.Chem. '59, University of Minnesota. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: The Effects of Dietary Fatty Acids upon Lipids of Subcellular Particles. Major Adviser: Dr. R. T. Holman.

Y. V. Lakshmana Rao, New Delhi,
India

B.A.(hons.) '46, M.A. '49, University of Madras. Major: Journalism. Minor: Political Science. Thesis: Communication and Development: A Study of Two Indian Villages. Major Adviser: Prof. R. B. Nixon.

Richard Ralph Ries, New Ulm

B.S. *maxima cum laude* '57, St. Edward's University; M.S. '59, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Atomic Masses of the Stable Isotopes of the Elements from Gallium Through Molybdenum. Major Adviser: Prof. W. H. Johnson.

Gail Evans Rorer, Eugene, Ore.

B.A. with high honors '58, Swarthmore College. Major: Psychology. Minor: Philosophy. Thesis: A Statistical Study of the Effects of Number of Reinforcements and Distribution of Intervals in a Variable Interval Schedule of Reinforcement. Major Adviser: Prof. Kenneth MacCorquodale.

Leonard G. Rorer, Eugene, Ore.

B.A. '54, Swarthmore College. Major: Psychology. Minor: Biostatistics. Thesis: The Function of Item Content in MMPI Responses. Major Adviser: Prof. P. E. Meehl.

Robert LeRoy Sani, Antioch, Calif.

B.S. '58, M.S. '60, University of California. Major: Chemical Engineering. Minor: Mathematics. Thesis: Convective Instability. Major Adviser: Prof. L. E. Scriven.

Richard Joseph Schuler, St. Paul

B.A. '43, College of St. Thomas; M.A. '50, University of Rochester. Major: Music. Minor: History. Thesis: The Life and Liturgical Works of Giovanni Maria Nanino (1545-1607). Major Adviser: Prof. Johannes Riedel.

Emanuel Silverstein, New York, N.Y.

B.S. *magna cum laude* '50, City College of New York; M.D. '54, State University of New York. Major: Physiological Chemistry. Minor: Pathology. Thesis: Equilibrium Reaction Rates and Enzyme Mechanism. I. Beef Heart and Rabbit Muscle Lactate Dehydrogenase. II. Liver and Yeast Alcohol Dehydrogenase. III. Yeast Hexokinase. Major Adviser: Dr. P. D. Boyer.

Sister St. Dominic Rooney, St. Paul

B.A. '50, College of St. Catherine; M.A. '58, University of Minnesota. Major: Spanish. Minor: Italian. Thesis: Realism in the Original Comedies of Leandro Fernández de Moratín. Major Adviser: Prof. W. T. Pattison.

Arnold Kalmar Solstad, St. Paul

B.S. '41, Wisconsin State College (River Falls); M.S. '54, University of Minnesota. Major: Education. Minor: Agricultural Engineering. Thesis: A Study of the Relationship Between Income of Farmers in the Minnesota Vocational Agriculture Farm Management Service and Their Activities in the Farm Power and Machinery Area with Implications to a Course of Study. Major Advisers: Profs. P. R. Marvin and M. J. Peterson.

Leonard Orlo Sorenson, Leroy

B.A.B.A. '51, M.S. '53, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Government Grain Storage Programs and Their Impact on Grain Market Organization in Kansas. Major Adviser: Prof. S. O. Berg.

Olaf Patrick Stackelberg, St. Paul

B.S. '55, Massachusetts Institute of Technology; M.S. '60, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Probabilistic Limit Theorems Arising in Arithmetic Analysis. Major Adviser: Prof. S. A. Gal.

Walter Franklin Steinman, Hazleton, Pa.

B.S. with honors '50, M.S. '51, Pennsylvania State University. Major: Psychology. Minor: Neuropsychiatry. Thesis: The Performance of Normals and Neuropsychiatric Patients on a Tactile Adaptation of the Block Design Test. Major Adviser: Prof. Ephraim Rosen.

Albert Charles Strafuss, St. Paul

B.S. '54, D.V.M. '54, Kansas State University; M.S. '58, Iowa State University. Major: Veterinary Pathology. Minor: Microbiology. Thesis: The Effects of S-(Dichlorovinyl)-L-Cysteine (DCVC) on Tissues with Particular Emphasis on the Kidney. Major Adviser: Prof. J. H. Sautter.

Ahmad Al-Haj Taha, Mosul, Iraq

Graduate '55, Iraq Agricultural College; M.S. '59, University of Minnesota. Major: Animal Husbandry. Minor: Veterinary Physiology and Pharmacology. Thesis: The Effect of Roughage-Concentrate Ratios and Level and Source of Nitrogen on Nutrient Digestibility and Nitrogen Retention by Sheep. Major Adviser: Prof. L. E. Hanson.

Verling Charles Troidahl, Henderson

B.A. *summa cum laude* '58, University of Minnesota. Major: Journalism. Minor: Psychology. Thesis: Mediated Communication and Personal Influence: A Field Experiment. Major Adviser: Prof. R. E. Carter, Jr.

Adolph Peter White, Northfield

B.S. with distinction '40, University of Minnesota; M.Mus. '48, Northwestern University. Major: Education. Minor: Educational Psychology. Thesis: The Construction and Validation of a Group Test in Music Reading for Intermediate Grades. Major Adviser: Prof. P. S. Ivory.

Marshall Eldon Wick, Eau Claire, Wis.

B.S. '51, Wisconsin State College (Eau Claire); M.A. '54, University of Minnesota. Major: Education. Minor: Mathematics. Thesis: A Study of the Factors Associated with Achievement in First-Year College Mathematics. Major Adviser: Prof. D. A. Johnson.

Janardanarao Yalamanchili, Kolavenu, India

B.S. '52, Andhra University; Diploma '56, Madras Institute of Technology (India); M.S.-A.E. '59, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanics and Materials. Thesis: Non-Equilibrium Hypersonic Flow of Air in Hypersonic Nozzles and Around Blunt Bodies. Major Adviser: Prof. Rudolf Hermann.

Elizabeth Yu-Yin Hsi Yen, Shanghai,
China

B.A. '52, National Taiwan University; M.A. '56, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: On Two-Stage Non-Parametric Estimation. Major Adviser: Prof. I. R. Savage.

John Tsung-shun Ying, Taipei,
Formosa

B.A. '55, National Taiwan University; M.A. '58, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Relationship of Earnings and Efficiency to Acres Per Farm. Major Adviser: Prof. S. A. Engene.

Rhodes Charles Young, Minneapolis

B.A. '48, Whittier College. Major: Psychology. Minor: Neuropsychiatry. Thesis: Some Parameters of Personality Description with the MMPI in a State Hospital Population. Major Adviser: Prof. P. E. Mechl.

Doctor of Philosophy in Medicine

John Francis Foley, Minneapolis

M.D. '55, University of Buffalo. Major: Medicine. Minor: Microbiology. Thesis: Interactions Between Diverse Cell Types: The Formation of a Growth Factor by HeLa Cells Promoting Colonial Growth of Human Fibroblast-like Cells in Culture. Major Adviser: Dr. B. J. Kennedy.

Doctor of Philosophy in Surgery

Karel B. Absolon, St. Paul

M.D. '52, Yale University. Major: Surgery. Minor: Physiology. Thesis: Experimental Studies of Abdominal Emergencies with Reference to Pancreatitis, Chemical Peritonitis and Mesenteric Infarction. Major Adviser: Prof. O. H. Wangenstein.

Jerry C. Rosenberg, New York, N.Y.

B.S. cum laude '50, Wagner College; M.D. '54, Chicago Medical School. Major: Surgery. Minor: Pathology. Thesis: The Determination of Plasma Catecholamine and Serum Serotonin Concentration by Fluorimetric Analysis in Irreversible Hemorrhagic and Lethal Endotoxin Shock. Major Adviser: Dr. J. B. Aust.

Summary of Degrees Conferred by the University During the Academic Year 1962-63

Conferred July, August, and December 1962; March 1963.....	2880*
Conferred June 1963 (subject to completion of requirements).....	3140
Total degrees conferred 1962-63.....	6020

* Includes 127 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.



UNIVERSITY OF MINNESOTA

July Commencement, 1963

THURSDAY EVENING, JULY 18, 8:00 P.M.
ON THE MALL FACING
NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

The Honorable Charles W. Mayo, M.D., Rochester
First Vice President and Chairman

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable A. J. Olson, Renville

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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 twelfth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded nearly 170,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 30,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester 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. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five 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 Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, the University Theatre, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings renowned artists and lecturers to more than a million and a half persons living in the area it serves.

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 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. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses 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 tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

Much of the University's thought and energy must be directed to planning for the anticipated increases in future enrollments. At present nearly half of the students participating in a program of higher education in the state attend the University of Minnesota. If our enrollment continues to increase as expected and if the other colleges in the state continue their enrollment growth according to the estimates they have themselves made, not less than 55,700 full-time college-level students will be attending the University in 1972. This will mean that more teachers, more civil service staff members, more land and more buildings will be needed.

THE 1963 LEGISLATURE granted the University \$63,502,050 for general operations and maintenance during the 1963-65 biennium. In addition, the University received \$8,028,242 for University Hospitals; \$5,309,483 for special appropriations, including special extension and research activities; \$12,478,700 for new buildings, land, and for the rehabilitation of existing buildings; and \$964,135 for University of Minnesota, Morris.

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 1961-62 showed that the University's current income amounted to \$97,799,438.73 and the current expenditures, transfers, and adjustments amounted to \$97,800,406.54. Of the total received, \$8,728,544.63 came from student tuition and fees; \$11,688,647.86 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,687,180.03 from intercollegiate athletics; \$15,-

065,926.00 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$23,140,602.50 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 \$2,699,858.78 came from federal appropriations for instruction, research, and agricultural extension. The state provided \$34,808,668.93 or 35.6% for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$10,204,703.01.

Commencement marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund and the various Special Project Programs including scholarships, medical and technological research, and college service funds which are administered by the Department of University Relations, 213 Morrill Hall, on the Minneapolis Campus.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.

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 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Lowell Lindgren, Arts '64, Carillonneur. Admission to the July commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

PRELUDE CONCERT: From 7:30 to 8:00 p.m., the University Summer Session Band, conducted by Assistant Professor Frank Bencriscutto, D.M.A., Bandmaster, will play:

- | | | |
|------------------------------------|-----------------|---------------------|
| <i>Fanfare and March, Number 2</i> | - - - - | Frank Bencriscutto |
| <i>Slavonic Dances</i> | - - - - - - - - | Antonin Dvořák |
| <i>Allegro Maestoso</i> | - - - - - - - - | Frederick Handel |
| <i>Civil War Suite</i> | - - - - - - - - | James McCloud |
| <i>Italian Polka</i> | - - - - - - - - | Sergei Rachmaninoff |

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Associate Professor Forrest G. Moore, Ph.D., College of Education, Faculty Marshal, will carry the Mace onto the stage, heralding the arrival of the academic procession of candidates for degrees. Marshal Moore, as Mace Bearer, will present the Mace at the center of the stage. When all of those marching have taken their seats, he will put the Mace in its cradle to signal the beginning of the ceremony. During the procession, the band will play:

- | | | |
|---------------------------|-----------------|--------------|
| <i>Huldigung's Marsch</i> | - - - - - - - - | Edvard Grieg |
|---------------------------|-----------------|--------------|

ON THE STAGE: Seated on the stage, from left to right, in the front row, are: Marshal Moore; Associate Professor Donald Beatty, Ph.D., Marshal; Dean E.W. Ziebarth, Ph.D., College of Liberal Arts; The Honorable Bjarne E. Grottum, Regent of the University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; The Honorable Richard L. Griggs, former Regent of the University of Minnesota; Vice President Malcolm M. Willey, Ph.D., Academic Administration; Dean William C. Jones, Ph.D.,

* In the event of rain, the ceremony will be held Friday evening, July 19, at 8:00 p.m. If it rains Friday, the ceremony will be held Saturday morning, July 20, at 10:00 a.m.

Dean of Administration, University of Oregon, Commencement Speaker; President O. Meredith Wilson, Ph.D., President, University of Minnesota; Recorder True E. Pettengill, M.S., Admissions and Records; The Reverend George G. Garrelts, Director of the Newman Foundation and Adviser to Catholic students and staff members at the University; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Associate Dean Francis M. Boddy, Ph.D., Graduate School; Dean Sherwood O. Berg, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Willard L. Thompson, Ph.D., Summer Session; Dean Horace T. Morse, Ph.D., General College; Professor Andrew Hustrulid, Ph.D., Institute of Agriculture, Marshal; and Associate Professor J. Merle Harris, M.A., General College, Marshal. Seated in the second row, from left to right, directly behind Vice President Lunden, are: Captain Robert H. Thompson, USAF, Assistant Professor of Air Science; Captain Raymond L. George, USA, Assistant Professor of Military Science; Professor Stuart W. Fenton, Ph.D., Institute of Technology; Dean Walter W. Cook, Ph.D., College of Education; Dean Robert B. Howard, M.D., College of Medical Sciences; Professor Donald R. Torbert, Ph.D., University College; Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association; Lieutenant George A. Sissel, USN, Assistant Professor of Military Science; Professor Roy A. Schuessler, M.M., Department of Music; Associate Dean Charles V. Netz, Ph.D., College of Pharmacy.

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

THE NATIONAL ANTHEM: Following a fanfare from the band, the entire audience and Professor Schuessler, soloist, will sing:

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 G. Garrelts.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson.

PRESENTATION OF THE REGENTS CERTIFICATE OF MERIT TO FORMER REGENT GRIGGS: Vice President Willey will introduce former Regent Griggs. President Wilson will present the Regents' Certificate of Merit to former Regent Griggs in appreciation of his 24-year service as a member of the Board of Regents of the University of Minnesota.

COMMENCEMENT ADDRESS: Dr. William C. Jones, Dean of Administration, University of Oregon, *The University and the Good Life*.

CONFERRING OF ROTC CERTIFICATES: Vice President Willey will introduce Captain Thompson, Captain George, and Lieutenant Sissel, who will present the candidates for commissions in their respective 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 the order of their introduction: Dean Morse for the General College; Dean Ziebarth for the College of Liberal Arts; Professor Torbert for the University College; Professor Fenton for the Institute of Technology; Dean Berg 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 Howard for the College of Medical Sciences; Associate Dean Boddy 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.

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: Candidates for this degree will be presented individually by Associate Dean Boddy 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!	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.

POSTLUDE: The Band and Assistant Professor Bencriscutto:

Regal Procession - - - - - Clifton Williams

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

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

Second Lieutenant, Artillery

James M. Huebner, Detroit Lakes

Second Lieutenant, Medical Service Corps

Kenneth W. Vorpahl, Hutchinson

Second Lieutenant, Ordnance Corps

Gary E. Meinke, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Thomas H. Hoivik, St. Paul

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Edward R. Michaud, Minneapolis

Marvin E. Miller, Spring Valley

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

Mary Eileen Brecka, Minneapolis
Roy Orville Edlund, Minneapolis
Judith Ann Glass, Minnetonka Beach
Marilyn Suzanne Hansen, Minneapolis
Paul Daniel Hillmeyer, Cokato
William Frank McCabe, St. Paul
Eric Stig Persson, Minneapolis
James Alva Rice, Minneapolis

Gerald Volney Robb, Minneapolis
Audrey Gail Rothchild, Minneapolis
Sandra Sue Schoon, Virginia
Norman Carl Schulze, St. Paul
Leroy Anthony Sutton, St. Paul
John Alden Swedell, Minneapolis
John Albert Wallner, Bertha

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Michael Christ DeMoss, Minneapolis
Judith Rose Hamann, St. Paul
Jeanne Lee Petit, Minneapolis

Dennis Norman Sorensen,
Minneapolis

Bachelor of Arts

James Marshall Aanestad, Minneapolis
Ronald Francis Abler, St. Paul, *cum*
LAUDE
Lois Julianne Anderson, Hector
Ralph Allen Anderson, Richmond,
Ind.
Ronald John Berglund, Edina
Allen Paul Born, Minneapolis

James Jay Botten, St. Louis Park
Larry George Brown, Moorhead
Robert Howard Callender, St. Paul
James Rohland Carlson, Watertown
Marvin Leslie Carlson, Bloomington
Virginia Jean Carpenter, Minneapolis
Harmon Marbold Chapman, Jr.,
Clinton, Conn.

Gary Arthur Clark, Evanston, Ill.
 Carol Ann Cobb, New Brighton
 Eugene Earl Dario, Jr., St. Paul
 James Andrew Demcak, West St. Paul
 Alfred Dean Ekman, Minneapolis
 Arthur Henry Emme, Jr., Minneapolis
 Karin Lydia Erb, A.L.A., Lester Prairie
 Patricia Angell Thomas Fatchett,
 A.L.A., Minneapolis
 Lois Esther Ferm, Mound
 Jeremiah C. Brian Flesche, Lake City
 Galen Gardener Gillett, Minneapolis
 Claudette Therese Glover,
 Minneapolis
 Bob Alvin Goldman, Minneapolis
 Robert Breyfogle Green, Jr.,
 A.L.A., St. Louis Park, CUM LAUDE
 Robert Day Hansen, St. Paul
 Russell Morris Haugen, Madison
 Michael Orville Haugerud, Harmony
 Richard Chester Hausker,
 Minneapolis
 Gloria Jean Hiner, St. Louis Park
 John David Hirte, St. Paul
 George Hyland Hoey, Minneapolis
 Thomas Harry Hoivik, St. Paul
 Larry Neil Holmgren, Hallock
 Mary Margaret Holmquist, St. Paul
 Marvin William Hoops, Glencoe
 Sherrill Colette Jacotel, Moorhead
 Kurt Edward Kent, Pocahontas, Iowa
 Edna Ruth Schaeffer Kliger,
 Evanston, Ill.
 Donald Ralph Koenig, Hibbing
 Jeanne Marie Krueger, St. Louis Park
 Richard Allen Larson, Minot, N.D.
 Michael James Lisle, Hopkins
 Margaret Exner Liu, Mound
 Eugene Dallas Lourey, Little Falls
 Barbara Lee Madsen, Monticello
 Thomas Aaron McCabe, Minneapolis
 Charles Russell McHugh, Jr.,
 Minneapolis
 Roger Elwood McVeety, Minneapolis
 Henry Terry Morrison, Jr., Long Lake
 Dean Charles Nelson, North Branch
 James Walpole Neubert, Mankato
 David Corey Odle, Owatonna
 Douglas Arnold Olson, Cambridge
 Nancy Ruth Persson, St. Paul
 Donald Reuben Peterson, Columbia
 Heights, CUM LAUDE
 H. Paul Poppen, A.A., Worthington
 Lynnette Kay Rilling, Mankato
 Katherine Jane Rolig, Marine on
 St. Croix
 Conrad Evans Rose, Red Wing
 Susan Jane Schomburg, Rochester
 Stuart Vance Shanedling, A.L.A.,
 Excelsior
 Richard Monroe Shapiro, Minneapolis
 Phyllis Mary Sheedy, Minneapolis
 Alonzo William Smith, Evanston, Ill.
 David Walter Stemsrud, Minneapolis
 Kathleen LouAnn Svehla,
 Minneapolis
 Douglas Verne Swenson, Minneapolis
 Lawrence Anthony Szewczyk,
 Minneapolis
 Paul Thomas Vaala, Madison
 Carla M. Bryce Waldemar,
 Minneapolis, MAGNA CUM LAUDE
 Ronald Clarence Westland, Albert
 Lea
 Jack Jae Worel, Minneapolis
 Scott Kenneth Wright, St. Paul
 Thomas Charles Yuzer, Wood Lake
 Gerald Anthony Zeck, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Georgia Shaw Rosenblum, St. Paul, CUM LAUDE

INSTITUTE OF TECHNOLOGY

Bachelor of Science

William Stewart Carlson, Minneapolis

James David Clausen, Owatonna,

WITH DISTINCTION

Wayne Arthur Ebert, Minneapolis,

WITH DISTINCTION

Rolf Klaus Mueller, Frankfurt,

Germany, WITH DISTINCTION

Charles Howard Swanson,

Minneapolis, WITH HIGH

DISTINCTION

Bachelor of Physics

Kenneth Raymond Rasmussen, Minneapolis

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

Bachelor of Science

David Francis Grigal, Virginia,
Forestry, WITH HIGH DISTINCTION

Lee Robert Johnson, St. Hilaire,
Agriculture

Dorothy Christine Loken, Clarkfield,
Home Economics

Gloria Jean Sutherland, Monticello,
Home Economics

Lyle Gerald Thompson, Madison,
Forestry

Anne Marie Toutges, Jackson, Home
Economics

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

Bachelor of Science

Allen John Buhler, Pine Island,
Agricultural Education

William Clarence Harper, White
Bear Lake, Agricultural Education,

WITH DISTINCTION

Ruby Ann Lesch, Ormsby, Home
Economics Education

Elizabeth Anne Perrizo, Benson,
Home Economics Education

COLLEGE OF EDUCATION

Bachelor of Science

- John William Adams, Minneapolis
Janet Marie Appleton, St. Paul
Dale Martin Bahn, Wood Lake
Richard Frederick Balkus,
Minneapolis
Barbara Ann Benson, Granite Falls
Louise Chenette Bogart, St. Paul,
WITH DISTINCTION
Robert Williams Brant, B.B.A.,
Minneapolis
Mary Haas Buol, St. Paul
Jerome Gordon Carlson, Hector
Kathleen C. Christenson, Little Falls
Jeanne Beverly Cook, St. Paul
Richard George Cottrell, B.B.A.,
Coon Rapids
Mary Jo Crandall, Pipestone
Alice Hemingway Crittenden, Otter
Lake, Mich.
Ruth Marie Delorey, Bloomington
Nancy Lee Dorr, A.L.A., Minneapolis
Ellamae Kathryn Emmans, Anoka
Madelon Elaine Epple, Minneapolis
Judith Louise Frost, St. Paul
Margaret Lea Fulmer, A.A.,
Rochester
Evelyn Merrill Graber, Minneapolis
RoseMarie Lauer Gram, St. Paul*
David Gary Griffin, Duluth
Dorothy Ann Gross, Austin
Stanton Parr Gustafson, Hanley Falls
Eunice Twyman Hagen, Montevideo
Audrey Marilyn Halvorson, B.A.,
Montevideo
Jane Marie Harkins, Edina
Hannah Louise Blegen Harper, St.
Paul
Dorothy C. Harrison, Minneapolis
Wilma Frederick Hawley, Forest
Lake, WITH DISTINCTION
Berniece Albrecht Hinkie,
Minneapolis
Marian Gladyce Holmgren, Pennock*
- Theodore Richard Hughart, B.A.,
Minneapolis
Ralph Kernon Ives, B.A., St. Paul
Kathleen Louise Stone Jacobson,
Minneapolis
Lorena Wallis Jacobson, Rochester
Gwendolyn Hermine Kearney, B.A.,
St. Paul
Donna Lee Casperson Kelly,
Minneapolis
Melinda Jo Keyser, Minneapolis,
WITH DISTINCTION
Sharon Rae VanDevener Kinnamon,
Minneapolis
Milly Dyck Klassen, Minneapolis,
WITH HIGH DISTINCTION*
Bonita Jeanne Labatt, A.A.,
Minneapolis
Jeanne Myrtle Lewis, A.A., Rochester
Evelyn Corrine Lindquist,
Minneapolis, WITH DISTINCTION
Grant Maurice Locke, Minneapolis
Grace Elizabeth Maloney, Fairmont
Amy Takase Matsumoto, B.A., M.A.,
Minneapolis
Stella Ann McMahan, Hopkins
Gary Erwin Meinke, Minneapolis
Bernice Dahlheimer Meuers,
Minneapolis
Susanne Maria Pitblado Miller,
Roseau
Ethel Bixby Moore, St. Paul
Tom Ellis Murray, B.A., Sioux City,
Iowa
Janet Mary Adams Oliphant, A.A.,
Austin, WITH DISTINCTION
Donald Reuben Peterson, Columbia
Heights, WITH DISTINCTION
Hilma Bernadine Peterson,
Minneapolis
Karen Louise Peterson, Minneapolis
Nancy Catherine Peterson,
Minneapolis

* Nursing Education Curriculum

Evelyn Mans Pierce, New Brighton
Gilbert Wallace Pitt, Minneapolis
Louise Ann Rainbolt, Bloomington
Roger Curtis Sathre, A.A., B.B.A.,
Blaine
Douglas Vincent Schuster, St. Paul
Jane Sumiko Shiraki, Kapaa, Kauai,
Hawaii, WITH DISTINCTION*
Virginia Elaine Sievers, Bloomington,
WITH HIGH DISTINCTION
Carolyn Ann Sihler, Minneapolis,
WITH DISTINCTION

Marie Simons, Hopkins
Harriet Nan Singer, St Paul
Darby John McGannon Strong,
Atwater
Bruce Richard Taylor, Mound
Sue Margaret Van Valkenburg,
Floodwood
John Albert Waight, Minneapolis
Barbara Ann Wilhelm, Minneapolis
Lynneia Rae Olson Wojtysiak,
Minneapolis

Master of Education

Dennis Clare Palm, B.S., Minneapolis

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Phillip J. Schaub, Minneapolis

Bachelor of Science in Business

William Earl Abraham, Minneapolis
Richard Harold Anderson, Hopkins
Timothy Joseph Cashman, Fergus
Falls
John Bailey Darke, Excelsior
Dallas James DeVries, Willmar,
WITH DISTINCTION
Earl Maynard Hardy, Sacred Heart
Stanley Aloysius Heider, St. Paul
Robert Milton Iversen, Minneapolis
John Harold Kraft, Brewster
William Nees Larson, B.A.,
Morningside

Peter Christian Madsen, Bethel
LeRoy Evan Martin, Minneapolis
Earlon Leroy Milbrath, Austin
Marvin Earl Miller, Spring Valley
Darrell Wayne Norell, Remer
John Edward Pearson, Detroit Lakes
Kenneth Walter Peterson, Northome
Wilbur Frederick Poppe, Nashua,
Iowa
Kenneth Bernard Sanville, A.A.,
Minneapolis
Lyle Thomas Walker, Minneapolis
Philip Rand Wendorf, Richfield

Bachelor of Science in Economics

James Arnold Fougeron, Morris
Dennis Frank Paulaha, Minneapolis

Wallace Charles Sundberg, Jr., B.A.,
Hibbing

* Nursing Education Curriculum

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing Administration

Sheila Chalmers Christie, Joliet, Ill.
Margaret Geneveive Fogelson, St.
Paul, WITH HIGH DISTINCTION
Inger Marie Lindholm, Ames, Iowa

Audrey Frances Logsdon, Wayzata,
WITH DISTINCTION
Marjorie Jane Schmidt, Pittsburgh, Pa.
Sister Mary Roger Andert, R.N., St.
Joseph

Bachelor of Science

Mary Ann Bain, St. Paul, Occupa-
tional Therapy

Luann Frances Wahls, Postville, Iowa,
Public Health Nursing, WITH HIGH
DISTINCTION

Master of Public Health

John Meade Johnson, B.A., Minneapolis

GRADUATE SCHOOL

Master of Arts

Virginia Lee Anderson, St. Louis Park
B.S. '42, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Paul Chalmers Beisenherz, Liberty,
Mo.

B.A. '61, William Jewell College. Field of
Concentration: Curriculum and Instruction.

Carol Ann Berkey, Columbia Heights
B.A. '62, University of Minnesota. Field of
Concentration: Library Science.

Shirley Ann Breslow, Sioux Falls, S.D.
B.A. '50, University of Chicago, Field of
Concentration: Child Psychology.

Mary Jean Brett, Lansing, Ill.
B.S. in Educ. '59, Wittenberg College. Field
of Concentration: Curriculum and Instruction.

Janice Watterson Burton, Wichita,
Kan.

B.S. in Educ. with distinction '62, University
of Kansas. Field of Concentration: Curriculum
and Instruction.

Sheron Jeanenne Dailey, Dallas, Tex.
B.A. *cum laude* '61, Wake Forest College.
Major: Speech and Theatre Arts. Minor:
English. Thesis: A Survey of the Vocational
Tendencies of Former Theatre Arts Students
at the University of Minnesota.

Kenneth Earl Donovan, Crystal
B.S. '62, University of Minnesota. Major:
Speech Pathology. Minor: Child Psychology.
Thesis: A Study of the Effects of Experi-
mentally Controlled Type-Token Ratio Stimu-
lations Upon the Verbal Behavior of Institu-
tionalized Mentally Retarded Children.

- Thomas Harden Eighmy, St. Paul
B.A. '59, Amherst College. Field of Concentration: Geography.
- Mary Lee Enfield, Osage
B.S. '54, Concordia College (Moorhead). Field of Concentration: Educational Psychology.
- Myrtle E. Josephson Engebretson, Litchfield
B.S. '55, St. Cloud State College. Field of Concentration: Curriculum and Instruction.
- Veda Mae Fatka, Estherville, Iowa
B.A. *cum laude* '41, Westmar College. Field of Concentration: Library Science.
- Peter Fitting, Alhambra, Calif.
B.A. '61, St. Mary's College of California. Field of Concentration: French.
- William Bowman Guthrie, Jr., Bloomingdale, Ind.
B.A. '61, Wabash College. Field of Concentration: English.
- Mark Fond Haugsby, Mosinee, Wis.
B.S. (Educ.) '57, Wisconsin State College (River Falls). Field of Concentration: History.
- Kenneth Andrew Heilman, St. Paul
B.A. '60, University of Minnesota. Field of Concentration: Psychology.
- Donna Marie Westlic Hipps, Edina
B.S. '46, Iowa State University. Field of Concentration: Library Science.
- Theodore Richard Hovet, Buxton, N.D.
B.S. (Educ.) '57, Mayville State Teachers College. Field of Concentration: English.
- Kent Alvin Huber, Los Angeles, Calif.
B.A. '60, Pomona College. Field of Concentration: Physics.
- Richard Arlen Jackson, Brainerd
B.A. '60, University of Minnesota. Major: History. Minor: German. Thesis: *The Excise in Brandenburg-Prussia 1740-1766.*
- Alfred Jefferson, Milwaukee, Wis.
B.A. '57, Amherst College. Field of Concentration: American Studies.
- Robert Leonard Jevne, Minneapolis
B.A. '47, M.A. '49, University of Minnesota. Field of Concentration: Library Science.
- Esther Bertha Johnson, Minneota
B.A. '50, Augsburg College. Field of Concentration: Curriculum and Instruction.
- Eugene Morris Johnson, Amery, Wis.
B.S. *cum laude* '59, University of Minnesota. Field of Concentration: Education.
- Bärbel Elisabeth Kraatz, St. Paul
B.A. *cum laude* '60, University of Minnesota. Field of Concentration: French.
- Allan Robert Kyle, Minneapolis
B.S. with distinction '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Dale Lowell Lange, Granite Falls
B.S. with distinction '58, University of Minnesota. Field of Concentration: French.
- Eileen Watson Leary, Hopkins
B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Lois Elaine Loken, Dell Rapids, S.D.
B.A. *summa cum laude* '61, Concordia College (Moorhead). Field of Concentration: German.
- Nicholas Kinsey Long, Minneapolis
B.A. *cum laude* '61, Kenyon College. Field of Concentration: German.
- Garrett Kile Mandeville, Bloomington
B.A. '58, University of Minnesota. Field of Concentration: Statistics.
- Iris Sue Maurer, Streator, Ill.
B.A. *magna cum laude* '62, Northwestern College. Field of Concentration: Speech and Theatre Arts.
- Andrew Neibergs, St. Paul
B.A. '61, University of Minnesota. Field of Concentration: Journalism.
- Arthur Neufeld, Mound
B.A. '55, Macalester College. Field of Concentration: Educational Administration.
- James Laurence Newman, Minneapolis
B.A. *magna cum laude* '61, University of Minnesota. Field of Concentration: Geography.

Sherman Harry Nordquist, Brainerd
B.S. '53, St. Cloud State College. Field of
Concentration: Curriculum and Instruction.

Elio Nunez-Garcia, Lugo, Spain
Diploma '60, University of Madrid (Spain).
Field of Concentration: Economics.

Donald Duane Peterson, Minneapolis
B.A. '57, Pasadena College. Major: Sociology.
Minor: History. Thesis: A Technique for the
Evaluation of Changes in Attitude of Indian
Students in the United States.

Sterling David Peterson, Lake Crystal
B.S. with distinction '49, University of Min-
nesota. Field of Concentration: Industrial
Education.

Gerald John Pierre, North St. Paul
B.A. '59, St. John's University (Minnesota).
Field of Concentration: English.

John Carl Raushenbush, Colorado
Springs, Colo.
B.A. '58, University of Michigan. Field of
Concentration: English.

Leland Stanford Renz, Spring Lake
Park
B.S. '52, University of Minnesota. Field of
Concentration: Educational Administration.

William Gilbert Richter, Duluth
B.S. '59, University of Minnesota. Field of
Concentration: Industrial Education.

Mary Josephine Romaniak,
Minneapolis
B.S. with high distinction '59, University of
Minnesota. Field of Concentration: French.

James Lyman Rude, Battle Lake
B.S. '48, Moorhead State College. Field of
Concentration: Educational Administration.

Richard Franklin Rumppe,
Minneapolis
B.S. '58, University of Minnesota. Field of
Concentration: Educational Administration.

Edna Danford Sanders, Minneapolis
B.A. '35, Willamette University. Field of
Concentration: Curriculum and Instruction.

Lee Bjork Sanderson, Worthington
B.A. *summa cum laude* '60, Concordia Col-
lege (Moorhead). Field of Concentration:
Mathematics.

Dalton Fred Seeling, Bemidji
B.S. with distinction '37, University of Min-
nesota. Field of Concentration: Agricultural
Education.

Sister Vincent Huebsch, St. Joseph
B.A. '57, College of St. Benedict. Field of
Concentration: Curriculum and Instruction.

Thomas Martin Supel, Forbes Road,
Pa.
B.A. '61, Wabash College. Field of Concen-
tration: Economics.

Marvin Frank Tenhoff, Owatonna
B.A. '52, St. Olaf College. Field of Concen-
tration: Educational Administration.

Remedios Viernes Vilorio,
Cabanatuan City, Philippines
B.S.E. '50, Far Eastern University (Philip-
pines). Field of Concentration: Library Sci-
ence.

Lily-Beth Wahlberg, St. Paul
B.S. '59, University of Minnesota. Field of
Concentration: Educational Psychology.

George William Way, Jr., Excelsior
B.A. '60, Hamline University. Field of Con-
centration: Economics.

Geraldine Gertrude Wessels,
Raymond
B.S. '52, University of Minnesota. Field of
Concentration: Educational Psychology.

Curtis Alexander Winkle, Huron, S.D.
B.A. '54, Huron College. Field of Concen-
tration: Educational Psychology.

Kenneth Charles Zimmerman, Red
Wing
B.A. *cum laude* '57, University of Minnesota.
Field of Concentration: Political Science.

Walter Zivkovich, Duluth
B.S. '53, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Master of Arts in Public Administration

John Norman Newstrom, St. Paul

B.A. '60, University of Minnesota. Major: Public Administration. Thesis: The Application of a Program of Performance Standards to the Minnesota Department of Taxation.

Master of Business Administration

Gilbert Hamel Durkee, Ironwood,
Mich.

B.E.E. '53, Marquette University. Field of Concentration: Business Administration.

Master of Science

Henri Charles Baglione, Nontron,
Dordogne, France

Diploma '61, National School of Arts and Trades (France). Field of Concentration: Business Administration.

Gunnar Theodore Berquist, Gilbert

B.S. '49, University of Minnesota. Major: Horticulture. Minor: Genetics. Thesis: A Preliminary Strawberry-Breeding Study of Vegetative Vigor in the Self and Cross Progenies of Certain Inbred Parents.

John Taylor deValcourt, New Iberia,
La.

B.S. *summa cum laude* '58, St. Michael's College. Major: Mathematics. Minor: Statistics. Thesis: Sheaf Theory.

Hubert George Conway Dixon,
Kingston, Jamaica

B.S. '59, Anderson College. Field of Concentration: Biostatistics.

Robert Ramon Drechsel, St. Paul

B.A. '52, B.S. '54, University of Chicago. Field of Concentration: Mathematics.

Richard Dean Dyrland, Lyle

B.S. '59, Iowa State College. Field of Concentration: Forestry.

Thomas Gary Dzubay, Minneapolis

B.Phys. with distinction '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Differential Cross Section Measurement for the Reaction, $Li^7(Li^7,He^4)Be^{10}$.

Roberta Ann Flynn, Fairmont

B.S. in Med. Tech. '58, Creighton University. Major: Microbiology. Minor: Physiological Chemistry. Thesis: Studies on the Complement Fixing Soluble Antigens of Influenza Viruses.

Judith Mae Freriks, Waupun, Wis.

B.S. with high honors '61, University of Wisconsin. Field of Concentration: Botany.

David Friesen, Winnipeg, Manitoba,
Canada

LL.B. '39, University of Manitoba. Field of Concentration: Business Administration.

Chung Gong, Chungming,
Kiangsu, China

B.S. in Eng. '56, National Taiwan University (China). Major: Mechanics and Materials. Minor: Mathematics. Thesis: Energy Dissipation in Thin Layers of Damping Material Subject to Cyclic Normal Loading.

Jean Salzmann Goodman,
Minneapolis

Ph.B. '42, University of Wisconsin. Field of Concentration: Business Administration.

Gangu Ghanshaldas Hingorani,
Bombay, India

B.Sc. (Hons.) '52, University of Bombay. Field of Concentration: Mathematics.

Hildegard Inga Hof, Minneapolis

B.S. '54, North Dakota State University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Products of the Metabolism of S-(1,2-Dichlorovinyl)-L-Cysteine in the Calf.

Lawrence Arthur Johnson, Luck, Wis.

B.S. '61, Wisconsin State College (River Falls). Field of Concentration: Dairy Husbandry.

Gerhard Klose, Reutlingen, Germany

B.A. '61, St. John's University (Minnesota). Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Reactions of 2,4-Diphenylthietane Dioxides.

Murray Malkin, Winnipeg, Manitoba, Canada

B. of Arch. '61, University of Manitoba. Major: Architecture. Minor: Sociology. Thesis: An Urban Environment in an Arctic Climate.

Barbara Rae Merritt, Chadron, Neb.

B.S. in Med. Tech. '55, University of Nebraska. Major: Physiological Chemistry. Minor: Anatomy. Thesis: Studies on Circadian Variations in Kidney Metabolism.

Sharad Ramchandra Moghe, Nagpur, India

B.Sc. '57, Nagpur University; Diploma '60, Madras Institute of Technology. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Stress Analysis of Nonhomogeneous Anisotropic Viscoelastic Cylinder.

Yohannis Negash, Addis Abeba, Ethiopia

B.S. '60, Imperial Ethiopian College of Agricultural and Mechanical Arts. Major: Agronomy. Minor: Plant Pathology. Thesis: Effect of Various Rotations on Crop Yields and Population of Weeds.

Tumkur Krishnappa Puttaswamy,
Bangalore, Mysore, India

B.Sc. (Hons.) '53, M.Sc. '55, University of Mysore (India). Major: Mathematics. Minor: Mechanics and Materials. Thesis: The Solution of Certain Ordinary Linear Differential Equations in the Large.

Walter Edwin Roe, Trumansburg, N.Y.

B.S. '52, Randolph-Macon College; D.V.M. '56, Texas A and M College. Major: Veterinary Physiology and Pharmacology. Minor: Agricultural Biochemistry. Thesis: Electrolyte Absorption From the Small Intestine of Sheep and Calves.

Robert Edward Sherman, Minneapolis

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

Douglas Brayton Tang, St. Paul

B.A. *cum laude* '60, University of Minnesota. Field of Concentration: Biostatistics.

Harland Le Moyne Thomesen, Albert Lea

B.A. *magna cum laude* '55, University of Minnesota. Field of Concentration: Business Administration.

Phillip David Wilson, Roswell, N.M.

B.A. '56, University of Colorado. Field of Concentration: Biostatistics.

Lawson Lowell Winton, Ontario, Calif.

B.S. '57, University of California. Major: Forestry. Minor: Botany. Thesis: Natural Polyploidy in Juvenile White Spruce (*Picea Glauca* (Moench) Voss) and Black Spruce (*P. Mariana* (Miller) B.S.P.).

Walid Gabriel Yasmineh, Jaffa, Palestine

B.S. '53, American University at Cairo. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Kinetic Studies on the Deoxyribonucleases of Group A Streptococci.

Master of Science in Chemical Engineering

Harry Warner Merritt, Jr., Houston,
Tex.

B.S. '56, Yale University; B.S. in Ch.Eng. '61,
University of Texas. Major: Chemical Engi-
neering. Minor: Mathematics. Thesis: The
Study of the Venturi Tube as a Gas-Liquid
Contractor.

Master of Science in Civil Engineering

Satish M. Amin, Mysore, India

B.E.(Civil) '60, National Institute of Engi-
neering (India). Field of Concentration: Civil
Engineering.

Mahendra Purshottamdas Patel,
Petlad, India

B.E.(Civil) '61, Maharaja Sayajirao University
of Baroda. Field of Concentration: Civil Engi-
neering.

Parimal Manibhai Patel, Baroda,
India

B.E.(Civil) '61, Maharaja Sayajirao University
of Baroda. Field of Concentration: Civil En-
gineering.

Boinapalli Kishan Rao, Hyderabad,
India

B.S. '53, B.E.(Civil) '56, Osmania University
(India). Field of Concentration: Civil Engi-
neering.

Master of Science in Dentistry

Robert Shelton Redman, Brookings,
S.D.

B.S. '59, D.D.S. '59, University of Minnesota.
Major: Dentistry. Minor: Pathology. Thesis:
An Investigation of the Etiology of Erythema
Migrans Linguae.

Master of Science in Electrical Engineering

Rajinder Singh Grewal, Panjab,
India

B.Sc.(Eng.) '59, Agra University (India).
Major: Electrical Engineering. Minor: Mech-
anical Engineering. Thesis: Excitation Systems
for Large A.C. Generators and Their Effect on
System Stability.

Chuck-Yueh Wong, Hong Kong

B.E. '48, National Central University (China).
Field of Concentration: Electrical Engineering.

Master of Science in Industrial Engineering

John Michael Braasch, Minneapolis

B.S. with distinction '60, University of Min-
nesota. Field of Concentration: Industrial
Engineering.

Master of Science in Mechanical Engineering

John Frank Klouda, Thorp, Wis.
B.S.M.E. with honors '61, Michigan College of Mining and Technology. Field of Concentration: Mechanical Engineering.

Kunjvihari Jagmohandas Mody,
Baroda, India
B.E.(Mech.) '60, University of Baroda. Field of Concentration: Mechanical Engineering.

Master of Science in Medicine

John A. Retzlaff, Jamestown, N.D.
B.S. '55, M.D. '57, Harvard University. Major: Medicine. Minor: Hematology. Thesis: Red Cell Volume, Plasma Volume, and Lean Body Mass in Healthy Men and Women; the Development of a Blood Volume Standard.

Master of Science in Obstetrics and Gynecology

John Joseph Battaglino, Jr.,
Bluefield, W.Va.
B.S. '51, Concord College; M.D. '55, Medical College of Virginia. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Atypical Endometrial Changes Associated with Ectopic Pregnancy.

George Durand Malkasian, Jr.,
Rochester
B.A. '50, Yale University; M.D. '54, Boston University. Major: Obstetrics and Gynecology. Minor: Physiology. Thesis: The Histology of the Ovary and Uterus of the Immature Intact Rat and Its Correlation with the Dose Response Curves Produced by the Various Gonadotropins.

Master of Science in Radiology

Harold Moulden Brannan, San Antonio, Tex.
B.A. '53, Texas Technological College; M.D. '57, University of Texas. Major: Radiology. Minor: Pathology. Thesis: Mesenchymal Reactions in the Lungs in Patients with Rheumatoid Arthritis.

Roger Headly Tutton, Ames, Iowa
B.A. '51, M.D. '55, State University of Iowa. Major: Radiology. Minor: Physiology. Thesis: The Roentgenographic Findings in Myeloclerosis.

Master of Science in Urology

Hubert Georg Wilhelm Frohmüller,
Würzburg, Germany
M.D. '52, University of Würzburg (Germany). Major: Urology. Minor: Pathology. Thesis: Correlation of Renal Infarction with Hypertension.

Kenneth Emerson Stanley, Jr.,
Arkansas City, Kan.
B.A. '53, M.D. '56, University of Kansas. Major: Urology. Minor: Pathology. Thesis: Clinically Significant Endometriosis of the Urinary Tract.

Certificate of Specialist in Education

Dennis Larry Hogenson, Madison
Lake

B.S. '57, M.S. '59, Mankato State College;
M.A. '61, University of Minnesota. Field:
Special Education.

Doctor of Philosophy

Robert James Anderson, Minneapolis

B.S. '55, M.S. '58, University of Minnesota.
Major: Dairy Industries. Minor: Agricultural
Economics. Thesis: The Effect of Heat Treat-
ment on Some Chemical and Physical Proper-
ties of Ice Cream Mix. Major Adviser: Prof.
E. L. Thomas.

Henry Albert Bates, Minneapolis

B.A. '51, M.S. '60, University of Minnesota.
Major: Veterinary Bacteriology. Minor: Pa-
thology. Thesis: Immunological and Immuno-
chemical Studies on Ornithosis Isolates of
Turkeys. Major Adviser: Prof. B. S. Pomeroy.

Joseph Charles Bentley, Provo, Utah

B.A. with honors '59, Brigham Young Univer-
sity; M.A. '60, University of Minnesota. Major:
Educational Psychology. Minor: Psychology.
Thesis: Relationships Between Traditional-
Emerging Values and Vocational Choice
Variables. Major Adviser: Prof. C. G. Wrenn.

Robert Wilbur Briggs, Emden, Ill.

B.S. '56, M.S. '58, University of Illinois.
Major: Genetics. Minor: Botany. Thesis: Ef-
fects of Recurrent Selection on a Synthetic
Population of Corn (*Zea mays*). Major Adviser:
Prof. E. H. Rinke.

Richard Aasen Damerow, Minneapolis

B.S. with high distinction '58, M.S. '60,
University of Minnesota. Major: Physics.
Minor: Mathematics. Thesis: The Atomic
Masses of the Stable Isotopes in the Region
Ruthenium Through Iodine. Major Adviser:
Prof. W. H. Johnson.

Richard Benjamin Darlington,
Woodstown, N.J.

B.A. with high honors '59, Swarthmore Col-
lege. Major: Psychology. Minor: Statistics.
Thesis: Increasing Test Validity Through the
Use of Interitem Correlations. Major Adviser:
Prof. P. E. Mechl.

Faber Bennett De Chaine,
Kalamazoo, Mich.

B.S. '52, University of Oregon; M.A. '53,
Michigan State University. Major: Speech and
Theatre Arts. Minor: English. Thesis: Colo-
rado Mountain Theatre: A History of Theatri-
cal Festivals at Central City Colorado From
1932 to 1960. Major Adviser: Prof. F. M
Whiting.

Donald Carl De Luca, Sharon Springs,
N.Y.

B.S. '57, Rensselaer Polytechnic Institute.
Major: Organic Chemistry. Minor: Chemistry.
Thesis: The Synthesis and Thermal Rearrange-
ment of 1,4-Transannular Peroxides. Major
Adviser: Prof. S. W. Fenton.

Harlan John Dirks, Madison, S.D.

B.S. in Agric. '49, M.S. '60, South Dakota
State College. Major: Agricultural Economics.
Minor: Economics. Thesis: Technological and
Market Forces Influencing Vertical Integration
in the Swine Industry. Major Adviser: Prof.
D. F. Fienup.

Edward Miles Ells, Fairmont

B.A. *magna cum laude* '58, University of Min-
nesota. Major: Psychology. Minors: Neurology
and Psychiatry. Thesis: Verbal Conditioning
of Chronic Schizophrenics as a Function of
Operant Level and Experience with the Ex-
perimentier. Major Adviser: Prof. Ephraim
Rosen.

John Shiu-Kang Fok, Canton, China

B.A. '57, International Christian University
(Japan). Major: Analytical Chemistry. Minor:
Physical Chemistry. Thesis: Chloroform Ex-
traction of Tetraphenylarsonium Chloride and
Tetraphenylarsonium Chloroiodate. Major Ad-
viser: Prof. E. B. Sandell.

Fred Richard Frank, St. Paul

B.S. '55, M.S. '60, University of Minnesota. Major: Poultry Science. Minor: Agricultural Biochemistry. Thesis: Some Physical and Chemical Factors Associated with Shell Strength. Major Adviser: Prof. R. E. Burger.

Roger John Gerrits, De Pere, Wis.

B.S. '58, Wisconsin State College (River Falls); M.S. '60, University of Minnesota. Major: Dairy Husbandry. Minor: Zoology. Thesis: Investigations on Control and Synchronization of Estrus and Other Factors Affecting Artificial Insemination of Swine. Major Adviser: Prof. E. F. Graham.

Chazi Qasim Hassoun, Minneapolis

B.S. '56, American University of Beirut (Lebanon); M.S. '59, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Some Problems in Quantum Field Theory: Coupled Resonances and Angular Momentum of Bremsstrahlung. Major Adviser: Prof. D. R. Yennie.

Theodore Lee Hullar, Minneapolis

B.S. '57, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: I. Reaction of Methyl Pentofuranosides with Periodate. II. Structural Studies on the Arabinan of Sugar Beets. III. Neutral Carbohydrates From Rubber Latex. Major Adviser: Prof. Fred Smith.

Genell Lavonne Knatterud,
Minneapolis

B.A. *magna cum laude* '52, Macalester College; M.S. '59, University of Minnesota. Major: Biostatistics. Minor: Psychology. Thesis: An Evaluation of Certain Data From the Cancer Detection Center—University of Minnesota Hospitals. Major Adviser: Dr. J. E. Bearman.

Bibb Latané, Chapel Hill, N.C.

B.A. *cum laude* '58, Yale University. Major: Psychology. Minor: Journalism. Thesis: Autonomic Arousal and the Extinction of Fear. Major Advisers: Profs. Gordon Heistad and Ben Willerman.

Hugh McKenzie, Lethbridge,
Alberta, Canada

B.S. (Agric.) with distinction '49, M.S. '50, University of Saskatchewan. Major: Genetics. Minor: Plant Pathology. Thesis: Inheritance of Characters, Especially Mode of Reaction to Sawfly and Bunt, in Spring Wheat Crosses. Major Adviser: Prof. E. R. Ausemus.

Verlyn Reno Mittelstadt, Fergus Falls

B.S. with high distinction '58, M.S.E.E. '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Recombination Coefficients and Mobilities of Positive Ions in the Rare Gases, Hydrogen, and Rare Gas-Hydrogen Mixtures. Major Adviser: Prof. H. J. Oskam.

William Frank Nelson, Minneapolis

B.A. *magna cum laude* '57, University of Minnesota. Major: Zoology. Minor: Geology. Thesis: Natural History of the Northern Prairie Skink, *Eumeces Septentrionalis Septentrionalis* (Baird). Major Adviser: Prof. Samuel Eddy.

Mavis Carlotta Nymon, Fargo, N.D.

B.S. '43, North Dakota State College; M.S. '45, Cornell University. Major: Home Economics. Minor: Public Health. Thesis: A Nitrogen Balance Study on Young College Women Consuming Low Protein Vegetarian Diets. Major Adviser: Prof. L. M. Morse.

Joseph L. Nyomarkay, Los Angeles,
Calif.

B.A. *cum laude* '53, M.A. '54, University of Minnesota. Major: Political Science. Minor: History. Thesis: Factionalism in the National Socialist German Workers Party, 1925-1934. Major Adviser: Prof. J. E. Turner.

Prafulla Kumar Pati, Cultack, Orissa,
India

B.A. '42, M.A. '44, Patna University (India); M.A. '62, University of Minnesota. Major: English. Minor: Scandinavian. Thesis: Jane Austen: Her Relationship to the Romantic and the Realistic Traditions of English Fiction. Major Adviser: Prof. Martin Steinmann, Jr.

Frank Richard Place, Elmira, N.Y.

B.A. '52, Miami University; M.A. '56, Ohio State University. Major: History. Minor: Political Science. Thesis: French Policy and the Turkish War, 1679-1688. Major Adviser: Prof. J. B. Wolf.

Leonard Schneiderman, St. Paul

B.A. '50, New York University; M.S. '51, Columbia University. Major: Social Work. Minors: Education and Sociology. Thesis: The Culture of Poverty—A Study of the Value Orientation Preferences of the Chronically Impoverished. Major Adviser: Prof. J. C. Kidneigh.

John Walter Sherbon, St. Paul

B.S. in Agric. with honors '55, Washington State University; M.S. '58, University of Minnesota. Major: Dairy Industries. Minor: Physical Chemistry. Thesis: The Physical State and Thermodynamic Properties of Selected Milk Fat Systems. Major Adviser: Prof. S. T. Coulter.

Michael Joseph Stolee, Minneapolis

B.A. '52, St. Olaf College; M.A. '59, University of Minnesota. Major: Educational Administration. Minor: Education. Thesis: Legal Control by the States Over the Areas of Instruction in Private Elementary and Secondary Schools. Major Adviser: Prof. O. E. Domian.

Stein Ornulf Telneset, Vollebeek,
Norway

Diploma '54, Agriculture College of Norway. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: Studies on Potato Tuber Rot. Major Adviser: Prof. C. J. Eide.

Walter Paul Thoresen, LaCrosse, Wis.

B.A. '41, Carroll College; M.Ph.(Educ.) '46, University of Wisconsin. Major: Sociology. Minor: Education. Thesis: Conflicting Social Norms as They Affect Attitudes. Major Adviser: Prof. E. D. Monachesi.

Fernando Figueroa Vargas, Santiago,
Chile

B.Sc. '45, D.D.S. '51, University of Chile. Major: Physiology. Minor: Physical Chemistry. Thesis: Determination of Equivalent Pore Radius in Rabbit Heart Capillaries. Major Adviser: Dr. J. A. Johnson.

Alejandro Violic, Santiago, Chile

B.S. '50, Catholic University of Chile. Major: Genetics. Minor: Plant Pathology. Thesis: Inheritance and Linkage Relations of Genes for Serpentine Character in *Zea Mays* as Determined by Chromosomal Translocations. Major Adviser: Prof. E. H. Rinke.

David Joseph Weiss, Cherry Hill,
N.J.

B.A. with honors '59, University of Pennsylvania. Major: Psychology. Minor: Educational Psychology. Thesis: A Technique for Curvilinear Multivariate Prediction. Major Adviser: Prof. L. H. Lofquist.

John Alexander Williamson, St. Paul

B.A. *magna cum laude* '54, Macalester College; M.A. '60, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Some Renewal Theorems for Positive Independent Random Variables. Major Adviser: Prof. Steven Orey.

Jose Cruz Zarraga, Calatagan,
Batangas, Philippines

B.S.Ag.Ed. *cum laude* '57, Central Luzon Agricultural College (Philippines); M.A. '60, University of Minnesota. Major: Education. Minor: Agricultural Economics. Thesis: The Development and Experimental Trials of Programmed Learning Material in Teaching Farm Business Management to Vocational Agriculture Students. Major Adviser: Prof. M. J. Peterson.

Raymond Allan Ziebarth, Carlton

B.S. '54, M.A. '59, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: The Effect of Experimental Curricula on Mathematics Achievement in High School. Major Adviser: Prof. D. A. Johnson.

Doctor of Philosophy in Medicine

Murray Norman Silverstein,
Rochester

B.S. '50, Ursinus College; M.D. '54, Washington and Jefferson College. Major: Medicine. Minor: Physiology. Thesis: Experimental Leukemia and Diabetes in AKR Mice. Major Adviser: Dr. E. D. Bayrd.

Doctor of Philosophy in Surgery

Theodor Bernhard Grage, Minneapolis
M.D. '55, Creighton University. Major: Surgery. Minor: Physiological Chemistry. Thesis: Factors Regulating the Release of Antidiuretic Hormone. Major Adviser: Dr. O. H. Wangenstein.

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 Collegecrimson and white
- College of Liberal Artswhite
- University Collegeold 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.

President's Reception ---

JULY, 1963

- The members of the graduating class, their families and friends, are invited to attend the President's Reception immediately after the commencement exercises. The reception will be held on the terrace of the Coffman Memorial Union. In case of rain the ballroom will be used.
- Those in the receiving line will be President and Mrs. Wilson, Dr. and Mrs. Jones, former Regent Griggs, and Mr. Roger Hauge, representing the Coffman Union Board of Governors.
- Assisting in the Reception are members of the Union Board of Governors, and members of the following honorary societies: Arrowhead, Chimes, Grey Friars, Innocents, Iron Wedge, Mortar Board, Silver Spur, 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.



UNIVERSITY OF MINNESOTA

August Commencement, 1963

THURSDAY EVENING, AUGUST 22, 8:00 P.M.

ON THE MALL FACING

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents _____

The Honorable Charles W. Mayo, M.D., Rochester
First Vice President and Chairman

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable A. J. Olson, Renville

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Mr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

*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 twelfth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded nearly 170,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 33,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester 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. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five 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 Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, the University Theatre, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings renowned artists and lecturers to more than a million and a half persons living in the area it serves.

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 thing and expresses itself in many ways. Contributions from them have made it pos-

sible 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. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses 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 tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

Much of the University's thought and energy must be directed to planning for the anticipated increases in future enrollments. At present nearly half of the students participating in a program of higher education in the state attend the University of Minnesota. If our enrollment continues to increase as expected and if the other colleges in the state continue their enrollment growth according to the estimates they have themselves made, not less than 55,700 full-time college-level students will be attending the University in 1972. This will mean that more teachers, more civil service staff members, more land and more buildings will be needed.

THE 1963 LEGISLATURE granted the University \$63,502,050 for general operations and maintenance during the 1963-65 biennium. In addition, the University received \$8,028,242 for University Hospitals; \$5,309,483 for special appropriations, including special extension and research activities; \$12,478,700 for new buildings, land, and for the rehabilitation of existing buildings; and \$964,135 for University of Minnesota, Morris.

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 1961-62 showed that the University's current income amounted to \$97,799,438.73 and the current expenditures, transfers, and adjustments amounted to \$97,800,406.54. Of the total received, \$8,728,544.63 came from student tuition and fees; \$11,688,647.86 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,687,180.03 from intercollegiate athletics; \$15,065,926.00 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$23,140,602.50 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 \$2,699,858.78 came from federal appropriations for instruction, research, and agricultural extension. The state provided \$34,808,668.93 or 35.6% for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$10,204,703.01.

Commencement marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund and the various Special Project Programs including scholarships, medical and technological research, and college service funds which are administered by the Department of University Relations, 213 Morrill Hall, on the Minneapolis Campus.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.

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 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Lowell Lindgren, Arts '64, Carillonneur. Admission to the August commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

ORGAN PRELUDE: From 7:30 to 8:00 p.m. Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Professor Robert L. Jones, Ph.D., School of Journalism, Faculty Marshal, will carry the Mace onto the stage, heralding the arrival of the academic procession of candidates for degrees. Marshal Jones, as Mace Bearer, will present the Mace at the center of the stage. When all of those marching have taken their seats, he will put the Mace in its cradle to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

Festival March - - - - - Handel

ON THE STAGE: Seated on the stage, from left to right, in the front row are: Marshal Jones; Assistant Professor James L. Gibbs, Jr., Ph.D., Faculty Marshal; Mr. Charles Liesenfelt, M.S., Assistant to the Recorder; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Dean Willard Thompson, Ph.D., Summer Session; The Honorable Bjarne E. Grottum, Regent of the University of Minnesota; Vice President Malcolm M. Willey, Ph.D., Academic Administration; President Edgar M. Carlson, Ph.D., Gustavus Adolphus College, Commencement Speaker; The Reverend George F. Hall, Pastor of the Lutheran Student Foundation and Adviser to Lutheran students and staff members at the University; Dean Edmund G. Williamson, Ph.D., Dean of Students; Associate Dean Francis M. Boddy, Ph.D., University College; Dean Horace T. Morse, Ph.D., General College; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Dean Bryce L. Crawford, Ph.D., Graduate School; Professor Franklin G. Wallace, Ph.D., Faculty Marshal; Professor Frederick E. Berger, B.A., Faculty Marshal. Seated in the second row, from left to right are: Dean George P. Hager, Ph.D., College of Pharmacy; Dean Robert B. Howard,

* In the event of rain, the ceremony will be held Friday evening, August 23, at 8:00 p.m. If it rains Friday, the ceremony will be held Saturday morning, August 24, at 10:00 a.m.

M.D., College of Medical Sciences; Associate Professor John A. Goodding, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Captain Raymond L. George, USA, Assistant Professor of Military Science; Captain Edward M. Morgan, USN, Professor of Naval Science; Professor Edwin L. Haislet, Ed.D., Executive Secretary of the Minnesota Alumni Association; Professor Arnold S. Woestehoff, Ph.D., College of Education; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Dean William B. Lockhart, S.J.D., Law School; Professor Roy A. Schuessler, M.M., Department of Music.

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

THE NATIONAL ANTHEM: Following a fanfare from the band, the entire audience and Professor Schuessler, soloist, will sing:

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: Vice President Malcolm M. Willey.

COMMENCEMENT ADDRESS: Dr. Edgar M. Carlson, President of Gustavus Adolphus College, *Dynamic Factors of Our Times*.

CONFERRING OF ROTC CERTIFICATES: Dean Thompson will introduce Captain George and Captain Morgan, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by Vice President Willey.

PRESENTATION OF CANDIDATES: Dean Thompson will introduce the deans of the several colleges or their representatives who will present to Vice President Willey the candidates for certificates and degrees. They are, in the

order of their introduction: Dean Morse for the General College; Dean Ziebarth for the College of Liberal Arts; Dean Boddy for the University College; Dean Verbrugge for the Institute of Technology; Professor Goodding for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Professor Woestehoff for the College of Education; Dean Grambsch for the School of Business Administration; Dean Lockhart for the Law School; Dean Howard for the College of Medical Sciences; Dean Crawford for the Graduate School.

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

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Professor Edwin L. Haislet.

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 Dean Crawford to Vice President Willey, 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!	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.

POSTLUDE: Associate Professor Fleischer, organist.

Fugue in C Major - - - - - Bach

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

*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

Second Lieutenant, Armor

Eric T. Aberg, St. Paul

Second Lieutenant, Infantry

Dennis K. Anderson, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Willis A. Barstad, Littlefork

Ensign, USNR

Louis M. Oberdeck, Mound

*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

Gary Edward Abraham, Robbinsdale
Gary Bruce Anderson, Litchfield
Brian Robert Borne, Minneapolis
James Howard Burnett, Wayzata
Eugene Joseph Cloutier, Minneapolis
Christopher Dahl, Minneapolis
Kathleen Jean Ekleberry, St. Paul
Mareth Ann Ericson, Minneapolis
Dennis Eugene Garver, St. Paul
Mervin Dale Hauge, Minneapolis
Diane Isabelle Johnson, Hopkins
Warren Evald Johnson, Minneapolis
Jennifer Land, Minneapolis

Roger Charles Larson, St. Paul
Thomas George Leach, Minneapolis
Thomas Dixon Leuma, Minneapolis
Phyllis Kathryn Merrick, St. Paul
Glenn Arvid Pearson, Minneapolis
Renea Patricia Roach, Edina
Gerald Volney Robb, Minneapolis
Larry Russel Rootes, Forest Lake
Jules Frederick Rosenthal, St. Paul
Roberta Marie Schwinn, Minneapolis
Craig Ford Smith, Minneapolis
Mary Alice Sudheimer, St. Paul

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Martin Sherwood Fox, St. Paul
Mary Louise Keegan, Miami, Fla.

Lawrence Anthony Szewczyk, Minneapolis

Bachelor of Arts

Robert William Ahl, Minneapolis
Dennis Keith Anderson, Crookston
Gary Lloyd Anderson, Minneapolis
Gerald Eugene Baker, St. Paul, cum
LAUDE
Willis Allen Barstad, Littlefork

Lee Alan Becker, Minneapolis
Katherine Alice Bertram, Minneapolis
Maurice Dean Blehert, St. Paul
William Carlton Bloom, Minneapolis
Fred Harold Borgen, Red Wing
Robert Hale Bradley, Minneapolis

James Stanton Braun, A.A., Minneapolis
 Gloria Ann Carlson, Parkers Prairie
 Charlotte Stuart Catoni, Hopkins
Daniel Walter Chorzempa, Minneapolis, CUM LAUDE
 Ronald Duane Constantine, Eveleth
 Mary Barbara Crombie, North St. Paul
 Julian William D'Andrea, Jr., Keewatin
 Paul Michael Davies, Minneapolis
 James Doyne Dawson, New Madrid, Mo.
 Prairie Corsa Dern, Minneapolis
 William Joseph Duval, Crookston
 Margo Lynn Ebbighausen, Battle Lake
 Ernest LeRoy Eidsmore, St. Louis Park
 Felix Kamalu Ekechi, Owerri, Nigeria
 David Bruce Ellingson, Minneapolis
 Sharon Rose Thurston Ferguson, Bloomington
 Gerald Allen Fingerman, St. Louis Park
 Joel William Finne, Minneapolis
 Larry Arthur Fischer, Lake Park, Iowa
 William Lee Gaslin, Wadena
 Lorraine H. Nelson Gilbertson, Onamia
 Beatrice Helen Goblirsch, Sleepy Eye
 Lowell Robert Gomsrud, Minneapolis
 Avron Lewis Gordon, Minneapolis
 Timothy Lee Grimes, Minneapolis
 Lorna Lee Grund, Mountain Lake
 Anne-Marie Hallberg, St. Paul
 Ronald Lee Hamberg, Minneapolis
 Elizabeth C. Lupton Hamel, St. Paul
 Dennis John Hayden, St. Paul
 David Charles Heartman, Duluth
 Sharon Joyce Herbert, Minneapolis
 Zephyrinus Chukwuemeka Ikejiofor, Nigeria
 Phillip MacMillan James, A.A., Edina
 Paul Dale Jensen, Warren
 Jo Ann Kathleen Johnson, B.S., Little Falls
 Kenneth LeRoy Johnson, Taconite
 Kristen Ellen Iversen Johnson, Minneapolis

Patricia Dee Ryan Johnson, Fayetteville, N.C.
 Robert Baird Jones, Dassel
 Elizabeth Diane Ekstrum Khan, Rochester
 Ross Irwin Kiefer, Minneapolis
 Martin Lewis Kieffer, St. Paul
 Orville Frederick Kiel, St. Paul
Sheila Jane Knapp, Stewartville, CUM LAUDE
 Carmen Jean Komoruski, Jamestown, N.D.
 John Allen Landsverk, Ada
 George Elwood Larsen, St. Louis Park
 Kathleen G. Kunzman Larson, Minneapolis
 Lloyd Dewey Lea, Minneapolis
 Jean Ann Lehrke, Willmar
 Katherine Lucille Lembke, St. Paul
 William George Lindner, Edina
 Mary Michelle Lenarz Litterer, Minneapolis
 Lawrence Lee Mammen, Minneapolis
 John Arthur Mayo, Minneapolis
 John Franklin McCann, Rochester
 Kathryn Eva McCarthy, St. Paul
 Cynthia Helen Melady, St. Paul
 William Crawford Moberg, A.A., St. Paul
 Gary Edward Morin, Minneapolis
 Bonnie Ann Nordendale Nelson, Minneapolis
 Judith Ann Nelson, Hopkins
 Paul Clifford Nelson, Warren
 Louise Audrey Noss, Bloomington
 Robert Leslie Nys, Duluth
 Karen Margaret Oberg, St. Paul
 Sally Ann Oklund, Taylors Falls
 Joy Patricia Olson, Minneapolis
 Richard David Olson, Ostrander
 Anthony Robert Ozark, Robbinsdale
 Reno L. Parker, New Brighton
 Wesley George Paschke, Minneapolis
 Kenneth James Perringtow, A.A., Grand Rapids
 David Eugene Peterson, Minneapolis
 Dennis Russell Peterson, Duluth
Jerome Walter Peterson, Minneapolis, MAGNA CUM LAUDE
 Tatiana Daria Pluwak, Minneapolis
 John Paul Podgorski, Hastings

Charles Otto Quall, St. Paul
Joseph Rajbansee, Trinidad, West
Indies
Fredrick Raymond Rasmussen, Glen-
coe
Kenneth Harry Schmidt, A.A., Mora
Larry King Simmering, B.S., North
Hollywood, Calif.
Janet Flora Skarda, St. Paul
Burkhart Glendon Smith, Owatonna
Paula Gayle Snyder, Minneapolis
Lynn Maureen Stanton, Minneapolis
Branch Kurtis Sternal, Minneapolis
James Howard Storm, Mankato
Charlotte L. Orloff Sultan, St. Paul
Richard Werner Swanson, Minne-
apolis

Marleen Sue Van Horne, San Jose,
Calif.
Herbert Jay Villa, Minneapolis
Rence Cecile Vukelich, Virginia
Kathryn Brown Weed, St. Paul
David Patrick Werlich, St. Paul
Virginia T. Soennichsen Whittier,
Playa Del Rey, Calif.
William Alfred Wilkinson, Jr., Min-
neapolis
Anita L. Rutchick Winston, Minne-
apolis
Alberta Mae Wixon, Florence
Joan Beatrice Wolkerstorfer, St. Paul
Donald Laverne Wood, St. Paul
Nancy Elizabeth Wostrel, Excelsior
Barbara Jean Knutson Young, Mound

UNIVERSITY COLLEGE

Bachelor of Science

Patricia Lou Odland Allerson, St. Paul

INSTITUTE OF TECHNOLOGY

Certificate in Science

Donald Lee Carlson, Minneapolis

Bachelor of Science

Robert John Bateman, *International
Falls*, WITH HIGH DISTINCTION
David Walter Gimmestad, *Belview*,
WITH HIGH DISTINCTION

George Bruce Hubmer, *St. Clair*,
WITH DISTINCTION
Daniel David Langren, St. Paul
David John Lorine, Parkers Prairie

Bachelor of Aeronautical Engineering

Douglas Richard Myhre, Hopkins
Douglas Patrick Roach, B.S.B., Min-
neapolis

Ngo Dinh Thinh, Viet-Nam
Gerald Alan Thompson, St. Louis
Park

Bachelor of Chemical Engineering

Theodore Albin Rayman, A.A., Austin

Bachelor of Civil Engineering

James Kenneth Aust, Hopkins
James Wilfred Hoffman, St. Paul

Dale Everett Munson, A.A., Robbinsdale

Bachelor of Electrical Engineering

David Emil Hage, Grand Forks, N.D.
James Charles O'Gara, St. Paul

Kerwin Allen Posthuma, Le Mars,
Iowa

Bachelor of Geophysics

Joseph Louis Condon, Virginia

Bachelor of Mathematics

David D. Determan, Alberta

Bachelor of Mechanical Engineering

Richard Allan Edberg, Duluth
Conrad Ferdinand Fingerson, Chatfield
David Arthur Norman, Minneapolis

Michael John O'Loughlin, Fort Lauderdale, Fla.
Richard Dennis Pasicznyk, Robbinsdale
Rodger Ivan Spears, Northome

Bachelor of Physics

Jurgen Fritz Fohlmeister, St. Paul

Kenneth Raymond Rasmussen, Minneapolis, WITH DISTINCTION

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

Bachelor of Science

Jerome Gilbert Arnold, Paynesville, Agriculture
Leone Faye Hendrickson Carstens, Coon Rapids, Home Economics, WITH DISTINCTION
Eunice Holm Fultz, Pine City, Home Economics

Thomas B. Libby, Minneapolis, Forestry
Karen Ardyce Mitka, St. Paul, Home Economics
James Earl Sowers, Vernon Center, Agriculture

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

Bachelor of Science

Barbara Eliza Bailey, Sauk Centre,
Home Economics Education
Betty Marie Bishman, Dassel, Home
Economics Education

Karen Rae Plaggerman Carlson, Sand-
stone, Home Economics Education,
WITH DISTINCTION
Marilyn Louise Hartness, Canby,
Home Economics Education

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

Bachelor of Agricultural Business Administration

Floyd Erling Balstad, Winger

COLLEGE OF EDUCATION

Bachelor of Science

Robert Glenn Backstrom, St. Paul
*Gerald Eugene Baker, St. Paul, WITH
DISTINCTION*
James Michael Bennes, Thief River
Falls
Larry Anthony Betzler, Mound
*Joan Marie Kellett Bigler, Brainerd,
WITH DISTINCTION*
Monica Anderson Blanco, B.A., Min-
neapolis
Ruth Jane Justeson Bonstrom, Min-
neapolis
Carolyn Walstad Boulett, Minne-
apolis
June Frances Bowdin, St. Paul Park

Bonnie Marie Bowman, Minneapolis
Ruby Nyhus Boyer, Minneapolis
Norma Jo Steen Coleman, Minne-
apolis
*Julie Grace Conroy, Minneapolis,
WITH DISTINCTION*
Prairie Corsa Dern, Minneapolis
Barbara Jane Ocken Dow, B.A., Min-
neapolis
*Evelyn Marie Dressel, Le Sueur,
WITH DISTINCTION**
Anita Marie Ekern, Spring Grove
Richard Harvey Enga, Richfield
Gardner Sturdivant Fagan, A.A.,
White Bear Lake

* Nursing Education Curriculum

Maurean Amman Fellger, Hopkins,
WITH DISTINCTION
James Thomas Foley, St. Paul
Meredith Sogard Gafkjen, Alamo,
N.D., WITH DISTINCTION
Ordella Mae Gilbertson, Lakeville
David Gary Griffin, Duluth
Kathleen Elizabeth Browman Hall-
gren, International Falls, WITH
DISTINCTION
Janet Marie Harrison, Crosby
Gerald Edwin Heikkila, A.A., Vir-
ginia
Gail Marie Heikkinen, B.A., Minne-
apolis
Patricia Florence Hengen, Minne-
apolis
Fredrika Mauck Herrick, Minneapolis
Louise Jane Lievense Huebner, B.A.,
Minneapolis
Ila Rose Jarchow, Stillwater
Beverly Post Johnson, Hopkins
Carla Marie Johnson, Minneapolis
Carla Marie Ryan Johnston, St. Paul
James Louis Jones, Jr., A.A., Minne-
apolis
Susan Kay Fish Kallestad, Minne-
apolis
Maurine Lillian Kallman, Minneapolis
Robert George Kissell, St. Paul
Bonita Ellen Kline, Bloomington,
WITH DISTINCTION
Dale Joyce Krishef, A.A., Minneapolis
Neil Joseph Lee, Miltona
Judith Rose Lefebber, Chicago, Ill.
Grant Maurice Locke, Minneapolis

Gregory Richard Logacz, Columbia
Heights
Sharon Ann Malget, Bloomington
Sandra Jane Marben, Lake Crystal
Mary Christine McKee, Bemidji
Susan Wanda Meier, Minneapolis*
Leonard LeRoy Munson, St. Paul,
WITH DISTINCTION
Judith Ann Davis Nathenson, Duluth,
WITH DISTINCTION
Louis Mark Oberdeck, Mound
Pearl M. Sorenson Olson, Excelsior
Karen May Seibert Peterson, Minne-
apolis
Elizabeth Karen Potami, Hibbing
Phyllis Chloe Pratt, Minneapolis
Lawrence Richard Pray, B.A., Minne-
apolis
Joan Margaret Priestley, Minneapolis
Marjorie Sue Ratliff, Red Oak, Iowa,
WITH DISTINCTION
Thomas Edgar Riley, Minneapolis
David Lee Schroeder, B.A., St. Paul
Jon Roger Skoog, Clinton
Lee Donald Snowbeck, Minneapolis
John Garris Snowfield, B.A., LL.B.,
Minneapolis
Donald Ray Stang, Crosby
Terry Emerson Stewart, Minneapolis
Barbara Helen Strauss, Bakersfield,
Calif.
Janice Faye Johnson Tweet, B.A.,
Minneapolis
Behram Uckunkaya, Turkey
Colleen Joy Webber, Watertown,
S.D., WITH DISTINCTION
James Allen Westby, Minneapolis

Master of Education

Robert Eugene Barnes, B.S., Minne-
apolis
Sheila Ann Corcoran, B.S., Green Isle
Carolyn Jane Harvie, B.A., Dearborn,
Mich.
Ruby Carrie Hass, B.S., Lake Park,
Iowa

Janet Faye Johannsen, B.S., Harlan,
Iowa
Mary Kay Mosby Judge, B.S., Sioux
Falls, S.D.
William John Lubbesmeyer, B.S.,
Savage
Barbara Jean Monson, B.S., St. Paul

* Nursing Education Curriculum

Ruby Janette Olsen, B.S., Minneapolis
Sister Ann Frederick Grossman,
B.S.N., Grand Forks, N.D.
Patricia Ann Wahlgren, B.S., St. Paul

Emmy Lou Post Wilson, R.N.,
B.S.N., Lancaster, Pa.
Merle Arlene Callahan Woodford,
B.S.N., Perry, Iowa

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Wayne Anton Mikkola, Minneapolis Robert L. Mylerberg, Minneapolis

Bachelor of Science in Business

Donald Lee Babbitt, Grand Meadow
Gary Clarence Baker, Sioux City,
Iowa

Marshall Allen Bank, Minneapolis
Clifford Lee Eckman, Little Falls
Thomas Joseph Gleason, Minneapolis
James Frederick Hallquist, Red Wing
Keith Alfred Hanson, B.M.E., Red
Wing

Leslie Alan Harkess, Minneapolis
Jerry David Korba, Minneapolis
William Samuel Landeene, Bloom-
ington

Joseph Clayton Miller, Robbinsdale
John Roy Nelson, Litchfield
Darryl Wayne Norby, Bagley
Kenneth Duane Ochsner, Huron,
S.D.

Ronald Dwight Pedersen, Richfield
Philip Andrew Scherman, Finlayson
Jackson Leigh Schutte, Prinsburg
*Charles Alvin Stoerzinger, South St.
Paul, WITH HIGH DISTINCTION*
*Rodney Marven Wilson, Anoka,
WITH DISTINCTION*
William Davies Winter, St. Paul

Bachelor of Science in Economics

Ezzat Sayed El-Alfi, Egypt, U.A.R.
*Neil Irwin Sell, St. Louis Park, WITH
DISTINCTION*

Richard David Wilson, Minneapolis

LAW SCHOOL

Bachelor of Science in Law

Terry Patrick Collins, Morris

Bachelor of Laws

Robert C. Buell, B.A., Pipestone
Terry Patrick Collins, Morris

Dennis Richard Hower, B.S., Worth-
ington
Robert T. Stich, B.A., Minneapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing Administration

Darlene Bertha Lund Ross, Hopkins

Bachelor of Science

*Esther Lorene Bartel, Wheaton, Ill.,
Public Health Nursing, WITH
DISTINCTION*
Marjorie Ruth Berg, Chisholm, Public Health Nursing
Grace Jeanine Bergstrom, Minneapolis, Occupational Therapy
Barbara Jean Lindsley, Slayton, Public Health Nursing

Judith Dell Mewhorter, Minneapolis, Occupational Therapy
Jane Pierce Muckart, R.N., Duluth, Public Health Nursing
Mabel M. Barnett Pottsmith, Minneapolis, Public Health Nursing
Karen Gay Rudeen, Minneapolis, Occupational Therapy

Master of Nursing Administration

Barbara Christine Calderon, B.A., Des Moines, Iowa
Sophia Henrietta Gormish, B.S., Spangler, Pa.
Gudrun Gladys Knutson, B.S., St. Paul
Virginia Ruth Lawrence, B.S.N., Waucoma, Iowa

Patricia Ann Madden, B.S.N., Hollandale
Aline Estelle Morin, B.S., Norwich, Conn.
Dorothy Ann Root, B.A., Minneapolis
Alice Odell Sand, B.S.N., Foley
Bennie Gordon Strom, B.S.N., Hot Springs, S.D.

Master of Public Health

Wilora Dolezal, B.S., Basin, Wyo.
Ella Kirkeby Harmon, B.S., Dubuque, Iowa
Mary Louise Harrison, B.S.N., Youngstown, Ohio
Pauline Holland Hord, B.S.N.A., Pittsburgh, Pa.
Carl Howard Moline, B.A., Bloomington
Verna LoRee Nickelson, B.S.N., Hill City, Kan.

Barbara McKinley Resnik, B.S., Berkeley, Calif.
Helen Daniels Rosengrant, B.S., Binghamton, N.Y.
Helen Beverley Gammon Schei, B.S., Minneapolis
Helen Marie Summers, B.S., Los Angeles, Calif.
Dolores Elizabeth Young, Reedsburg, Wis.*

Doctor of Medicine

Martin Alvin Evenson, Grand Forks, N.D.

* These degrees are conferred subject to the completion of field work prior to December 14, 1963.

GRADUATE SCHOOL

Master of Arts

- Alvin Andrew Aho, Cook
B.S. '58, University of Minnesota. Field of Concentration: Educational Administration.
- Lawrence John Anderson, Bloomington
B.S. '50, B.A. '50, Moorhead State College. Field of Concentration: Industrial Education.
- Robert Harlan Anderson, St. Paul
B.S. '59, St. Cloud State College. Field of Concentration: Educational Administration.
- Twila Corinne Anderson, Des Moines, Iowa
B.A. '45, Simpson College. Field of Concentration: Library Science.
- Norman Lee Arvilla, Tower
B.S. '56, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Susan Schreiner Aschman, Aliquippa, Pa.
B.S. '59, Juniata College. Field of Concentration: Home Economics Education.
- David Edmund Bakken, Hopkins
B.S. '60, St. Cloud State College. Field of Concentration: Curriculum and Instruction.
- Lily Susie Becker, Marion, S.D.
B.S. '61, Augustana College. Field of Concentration: Educational Psychology.
- Phyllis Wolfson Berger, New York, N.Y.
B.A. '59, Barnard College. Major: Philosophy. Minor: History. Thesis: The Concept of Intention.
- Olga Helene Berglund, Northfield
B.A. '33, Concordia College (Moorhead). Field of Concentration: Educational Psychology.
- Marlys Louise Blomquist, St. Louis Park
B.S. '60, University of Minnesota. Field of Concentration: Educational Psychology.
- Duane Alford Boe, Ashby
B.A. '58, Concordia College (Moorhead). Field of Concentration: Curriculum and Instruction.
- Arienne Garrett Bone, St. Paul
B.A. '39, College of St. Catherine. Field of Concentration: History.
- Gertrude Anna Bouman, Minneapolis
B.S. '39, University of Minnesota. Field of Concentration: Curriculum and Instruction.
- Sally Ann Bourgois, Bismarck, N.D.
B.A. '62, University of Minnesota. Field of Concentration: Journalism.
- Barbara Ann Bowers, Minneapolis
B.S. with distinction '61, University of Minnesota. Field of Concentration: Educational Psychology.
- Dennis Daley Brissett, Cloquet
B.A. '61, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Involuntal Melancholia: A Sociological Inquiry.
- Roar Anton Bruun, Sem, Norway
Diploma '59, Agricultural College of Norway. Field of Concentration: Agricultural Education.
- Richard A. Buendorf, Wells
B.S. '58, University of Minnesota. Field of Concentration: Physical Education.
- Arthur John Busekist, Cattaraugus, N.Y.
B.S. '61, Concordia Teachers College. Field of Concentration: History.
- Roger Lawrence Campbell, Minneapolis
B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

James Walter Carlin, St. Paul

B.S. '48, St. Cloud State College. Field of Concentration: Education.

James Elmer Clark, Marshalltown,
Iowa

B.A. '52, Iowa State Teachers College. Field of Concentration: Curriculum and Instruction.

Dorothy Roberts Cowan, Evanston,
Ill.

B.A. with high honors '57, Montana State University. Major: Speech Pathology. Minor: Child Psychology. Thesis: A Comparison of the Effect of Rate of Presentation of Stimuli on the Auditory Memory Spans of Children with Normal Speech and Children with Functional Articulatory Disorders.

Harold Edward Crawford, Minneapolis

B.A. '61, College of St. Thomas. Field of Concentration: Industrial Relations.

Norma Neilson Crewdson, St. Paul

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

Richard Lee Desmond, St. Paul

B.S. in Law '55, LL.B. '57, University of Minnesota. Major: Political Science. Minor: Business Administration. Thesis: College Student Expulsions and Due Process of Law.

Robert John Dickhudt, St. Paul

B.S. in Educ. '58, Concordia Teachers College. Field of Concentration: Educational Administration.

Blanche Roney Dobbs, Atlanta, Ga.

B.A. '49, Boston University. Field of Concentration: Curriculum and Instruction.

Carolyn Frances Dolliff, New York,
N.Y.

B.A. '61, Macalester College. Field of Concentration: History.

Russell Henderson Downs, Jr., Salem,
N.J.

B.S. in Educ. '59, Millersville State College. Field of Concentration: Educational Psychology.

Elaine Sardeson Engelbart, Minneapolis

B.S. '52, University of Minnesota. Major: Speech Pathology. Minor: Educational Psychology. Thesis: A Study of Auditory Memory Span in Young Adults Tested by Four Examiners.

Nathalie Mary Erspamer, Hibbing

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

John Edward Fadell, Minneapolis

B.A. *magna cum laude* '60, College of St. Thomas. Field of Concentration: Comparative Literature.

Dalphy Irving Fagerstrom, St. Paul

B.A. '46, M.A. '48, University of Minnesota; Ph.D. '51, University of Edinburgh. Field of Concentration: Library Science.

Marilyn Ruth Fausch, Morristown

B.S. in Elem. Ed. '62, Macalester College. Field of Concentration: Library Science.

Alice Luanne Fiola, Duluth

B.A. *magna cum laude* '60, University of Minnesota. Field of Concentration: French.

Joseph Patrick Fleming, Virginia

B.A. '56, B.S. '56, St. Cloud State College. Field of Concentration: Educational Psychology.

Marian Esther Friedell, Minneapolis

B.A. '62, University of Minnesota. Field of Concentration: Library Science.

Max Robert Fuller, Alta, Iowa

B.A. '51, Iowa State Teachers College. Field of Concentration: Educational Psychology.

Noel James Gagnon, International
Falls

B.S. '60, Bemidji State College. Field of Concentration: Education.

David Daniel Garry, Minnesota

B.S. in Agric. '49, South Dakota State College. Field of Concentration: Agricultural Education.

Robert John Gowan, New Richmond,
Wis.

Ph.B. '56, University of North Dakota. Field
of Concentration: Curriculum and Instruction.

Barbara Mae Greer, St. Paul

B.A. *cum laude* '61, University of Minnesota.
Field of Concentration: Educational Psychol-
ogy.

Mildred Blanch Gute, Owatonna

B.S. '30, University of Minnesota. Field of
Concentration: Home Economics Education.

Abdollah Hadian-Dehkordi,
Shahr-E-Kord, Iran

Diploma '57, University of Teheran. Field of
Concentration: Mathematics.

Bertha Johanson Hagen, Minneapolis

B.A. '28, Augsburg College. Field of Con-
centration: History.

Ann Leigh Heath Hansen, Albany,
N.Y.

B.A. *cum laude* '59, University of New Hamp-
shire. Field of Concentration: Educational
Psychology.

Joanne Elizabeth Hanson, St. Paul

B.A. *magna cum laude* '58, Concordia Col-
lege (Moorhead). Field of Concentration:
Educational Psychology.

Marilyn Joan Hanson, New Richland

B.A. *cum laude* '57, Gustavus Adolphus Col-
lege. Field of Concentration: Curriculum and
Instruction.

Judson Alvin Harmon, St. Paul

B.A. '56, Carleton College. Field of Concen-
tration: Educational Psychology.

Edward Lewis Harms, Harmony

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

John Edwin Hawkinson, Pine City

B.S. with distinction '56, University of Min-
nesota. Field of Concentration: Art Educa-
tion.

James Howard Hedren, Osseo

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

Robert Glenn Heebink, New Rich-
mond, Wis.

B.S. '41, Wisconsin State College (River
Falls). Field of Concentration: Agricultural
Education.

Cliff Elvin Helling, Rosemount

B.S. '61, University of Minnesota. Field of
Concentration: Educational Psychology.

Donna Marie Westlic Hipps, Edina

B.S. '46, Iowa State University. Field of
Concentration: Library Science.

Margaret Eileen Horsnell, Moose
Lake

B.A. '61, University of Minnesota. Field of
Concentration: History.

Lawrence Roger Jahn, Duluth

B.A. '51, Macalester College. Field of Concen-
tration: Curriculum and Instruction.

Linda Zoe Jenkins, Burlington, Iowa

B.A. '57, Colorado College. Field of Concen-
tration: Curriculum and Instruction.

Karen Sue Jensen, Minneapolis

B.A. *cum laude* '60, Colorado College. Field
of Concentration: Curriculum and Instruction.

Olive Marie Jensen, St. Paul

B.A. '53, St. Olaf College. Field of Concen-
tration: Art Education.

Franklyn Arden Johnson, Duluth

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

Veryl Alfred Johnson, St. Paul

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

Julia Dorothy Jones, Hibbing

B.S. '35, Eastern Michigan University. Field
of Concentration: Art Education.

Earl Richard Kenfield, Hopkins

B.S. with distinction '57, University of Minnesota. Field of Concentration: Industrial Education.

Gordon Dale Knutson, Mound

B.S. '61, University of Minnesota. Field of Concentration: History.

Paul Frederick Kummel, White Bear Lake

B.A. '51, B.S. '55, Macalester College. Field of Concentration: Curriculum and Instruction.

Donald Andrew Lambert, Minneapolis

B.S. '50, University of Minnesota. Field of Concentration: Area Studies: Russian.

Patricia Aletha Lane, Saskatoon, Saskatchewan, Canada

B.Ed. with high distinction '60, University of Saskatchewan. Field of Concentration: Curriculum and Instruction.

Donald Albert Langlee, Duluth

B.S. *cum laude* '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Robert Andrew LaPoint, Auburn, N.Y.

B.A. '61, Baldwin-Wallace College. Field of Concentration: German.

Donald Chris Larsen, Chippewa Falls, Wis.

B.A. '50, St. Olaf College. Field of Concentration: Educational Psychology.

Inga Margaret Larsen, Minneapolis

B.A. '36, Dana College. Field of Concentration: Library Science.

Rachel Serene Leonard, Minneapolis

B.A. '55, B.S. '57, University of Minnesota. Field of Concentration: Educational Psychology.

Lawrence Burton Lesser, New York, N.Y.

B.A. '61, Cornell University. Field of Concentration: English.

Thomas James Libby, Crosby

B.A. '58, Macalester College. Field of Concentration: Art Education.

Vernon Peter Linn, Wayzata

B.S. '50, University of Minnesota. Field of Concentration: Agricultural Education.

Marian Gottlieb Linoff, Miami, Fla.

B.A. *cum laude* '59, University of Minnesota. Major: Music. Minor: Political Science. Thesis: The Fifteenth Century Chanson at the Court of Burgundy: An Analysis of Its Social Role: A Study in the Sociology of Music.

Edward James Maloney, Wilmington, Del.

B.A. '56, University of Delaware. Field of Concentration: Education.

William Walter Mamel III, Bloomington

B.S.(Educ.) with distinction '59, University of Minnesota. Field of Concentration: Industrial Education.

Albert Adolphus Mark, Port-of-Spain, Trinidad, W.I.

B.Ed. '62, B.A. '62, University of Manitoba. Field of Concentration: Educational Psychology.

Glenda Jeanne Martin, Minneapolis

B.A. *cum laude* '57, College of Idaho. Field of Concentration: Curriculum and Instruction.

Elwood George Marvin, Robbinsdale

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

Lowell Dale McClanahan, Parma, Ohio

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

Cecile McLaughlin, New Ulm

B.A. '33, College of St. Benedict; B.S. in L.S. '42, College of St. Catherine. Field of Concentration: Library Science.

Charles Wayland Mettler, Minneapolis

B.S. '51, University of Minnesota. Field of Concentration: Physical Education.

Jerome Joseph Meyer, Spring Valley
B.S. '60, University of Minnesota. Field of Concentration: Art Education.

Natalie Holman Miller, St. Paul
B.S. *magna cum laude* '57, Wisconsin State College (Eau Claire). Field of Concentration: Curriculum and Instruction.

Roy Charles Milton, West St. Paul
B.A. *magna cum laude* '55, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Tables of the Equally Correlated Multivariate Normal Probability Integral.

Willard James Moonan, St. Paul
B.A. '59, University of Minnesota. Field of Concentration: Educational Psychology.

David Liden Morin, St. Louis Park
B.S. '59, University of Minnesota. Field of Concentration: Education.

Dennis Lee Nelson, Randall
B.S. '54, St. Cloud State College. Field of Concentration: Education.

Helen Latch Nelson, Duluth
B.Mus. '43, State University of Iowa. Field of Concentration: Education.

Joan Faith Nelson, Duluth
B.S. *cum laude* '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Willard Charles Nelson, Minneapolis
B.S. '58, St. Cloud State College. Field of Concentration: Educational Psychology.

Reidun Marilyn Newquist, Roseville
B.A. *summa cum laude* '59, Augsburg College. Field of Concentration: Music Education.

Clareen Nyquist, Minneapolis
B.S. with high distinction '58, University of Minnesota. Field of Concentration: Educational Psychology.

Catherine Lee Tracht Olson, St. Paul
B.S. with distinction '59, University of Minnesota. Field of Concentration: Art Education.

Ella Valija Osits, Valka, Latvia
B.S. '57, Wisconsin State College (River Falls). Field of Concentration: Curriculum and Instruction.

Bertha Miriam Otava, Mountain Iron
B.A. '48, University of Minnesota. Field of Concentration: Educational Psychology.

Livija Ieva Pelecis, Minneapolis
B.A. '62, University of Minnesota. Field of Concentration: Library Science.

Lloyd Eugene Peterson, Roseville
B.A. '49, St. Olaf College; B.S. '55, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Edward David Pilch, Edina
B.S. '52, Minot State Teachers College. Field of Concentration: Educational Administration.

Uttara Aththakor Rasmussen, Bangkok, Thailand
B.Sc.(Hons.) '60, Chulalongkorn University (Thailand). Field of Concentration: Statistics.

Wilfred Warren Reinikka, Grand Rapids
B.A. '50, Bemidji State College; B.S. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Cora E. Rust, Roseville
B.S. '58, St. Cloud State College. Field of Concentration: Educational Psychology.

Ralph Eugene Sauer, Albany
B.S. '46, St. Cloud State College. Field of Concentration: Educational Administration.

Donald Dale Schneider, Springfield
B.S. '58, Mankato State College. Field of Concentration: Curriculum and Instruction.

Arnold James Schroeder, Mabel
B.S. '52, University of Minnesota. Field of Concentration: Agricultural Education.

Harry Anthony Senn, Minneapolis
B.A. '61, University of Minnesota. Field of Concentration: French.

Sister Antonella Strobel, St. Paul

B.A. '58, College of St. Catherine. Field of Concentration: Curriculum and Instruction.

Sister Mary Orlean Jagoda, Chicago, Ill.

B.S. in Educ. '57, Loyola University. Field of Concentration: Journalism.

Robert Allan Smith, St. Paul

B.S. '58, Moorhead State College. Field of Concentration: Curriculum and Instruction.

Hattie Marie Steinberg, Bradshaw, Neb.

B.S. in Educ. '37, Nebraska State Teachers College. Field of Concentration: Journalism.

Carroll Raymond Strahl, Anoka

B.S. '59, St. Cloud State College. Field of Concentration: Educational Administration.

Darby John McGannon Strong, Atwater

B.A. '56, Stanford University. Field of Concentration: Area Studies: Latin America.

Donald Ora Stuart, Altoona, Iowa

B.A. '55, Simpson College. Field of Concentration: Curriculum and Instruction.

Martin William Surina, Eveleth

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

Sarah Taylor Swanson, Minneapolis

B.A. *cum laude* '49, B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Edward Ambrose Swiderski, Minneapolis

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

Patricia Ann Temple, Northfield

B.A. '60, St. Olaf College. Field of Concentration: Curriculum and Instruction.

Norman Ephriam Thompson, St. Paul Park

B.A. '58, Augsburg College. Field of Concentration: Education.

Russell L. Thomsen, Minneapolis

B.A. '55, Gustavus Adolphus College. Field of Concentration: Educational Psychology.

Hazel Maxine Tompkins, Albert Lea

B.S. '55, General Beadle State College. Field of Concentration: Curriculum and Instruction.

Yung-Liang Tong, China

B.S. in Agric. '58, National Taiwan University. Field of Concentration: Statistics.

David Turner, Lisle, Ill.

B.A. '59, St. Procopius College. Field of Concentration: Educational Psychology.

George Frank Utecht, St. Paul

B.S. in Phys. Ed. '51, College of St. Thomas. Field of Concentration: Physical Education.

Will Carl Wachtler, Mendota Heights

B.S. '60, University of Minnesota. Field of Concentration: Industrial Education.

Robert Leslie Webb, Medford

B.S. '51, University of Minnesota. Major: Sociology. Minor: Agricultural Economics. Thesis: A Study of the Effectiveness of the Minnesota 4-H Junior Leadership Program in Developing Lasting Leadership Characteristics.

John Borland Weeks, Wayzata

B.S. '55, Mankato State College. Field of Concentration: Curriculum and Instruction.

Ralph Charles Wehlitz, Merrill, Wis.

B.S.(Educ.) '49, University of Wisconsin. Field of Concentration: Curriculum and Instruction.

Elwood Dwight Wessman, Brainerd

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

Thomas Bert Wilhelmson, West St. Paul

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

Dorothy June Williamson, Minneapolis

B.A. '51, Asbury College. Field of Concentration: Art Education.

Esther Elinore Wilson, Sioux City,
Iowa

B.S. '49, Morningside College. Field of Concentration: Education.

Donna Marie Wolean, Duluth

B.S. '44, University of Minnesota. Field of Concentration: Curriculum and Instruction.

James Thomas Woychick, Minneapolis

B.S. '55, Mankato State College. Field of Concentration: Educational Psychology.

Howard Daniel Young, Minneapolis

B.A. *cum laude* '51, B.S. '56, University of Minnesota. Field of Concentration: Education.

William Yurista, Hopkins

B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Master of Arts in Public Administration

Kenneth Allan Burger, Winner, S.D.

B.S. '61, South Dakota State College. Major: Public Administration. Thesis: The New Role of the United States Civil Service Commission.

Robert Roy Trumble, Minneapolis

B.A. *cum laude* '62, Hamline University. Major: Public Administration. Thesis: Spanish Municipal Government.

Holger Klock Christiansen, Slayton

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

Master of Business Administration

John Jordan Kampmeyer, Minneapolis

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

James Frederick Pearson, Minneapolis

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

Master of Science

Abdul Karim Ahmed, Karachi,
Pakistan

B.Sc. '59, University of Karachi. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Effect of Iodide Ion on the Relative Rates of Deoxymercuration.

Enrique Bernal, Barranquilla, Colombia, South America

B.S. *cum laude* '60, College of St. Thomas. Major: Physics. Minor: Mathematics. Thesis: Crystal Field Splitting of the Energy Levels of Erbium in Calcium Tungstate.

Johan Arndt, Risoer, Norway

Diploma '62, The Norwegian School of Economics and Business Administration. Field of Concentration: Business Administration.

Allan Spencer Boss, Milwaukee, Wis.

B.S.(For.) '60, University of Idaho. Major: Fishery and Wildlife Management. Minor: Botany. Thesis: Aging the Nests and Young of the American Coot.

Bilqees Bano, Karachi, West Pakistan

B.H.E. '59, University of Karachi. Field of Concentration: Home Economics.

Morris Paton Burkwall, Jr., Beaumont, Tex.

B.S. '61, Florida State University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Wheat and Flour Lipids.

John Hartnett Faricy, St. Paul

B.S. in Com. '54, Creighton University. Field of Concentration: Business Administration.

Raymond John Farm, Mankato

B.Chem. with distinction '61, University of Minnesota. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Association Constants in Glacial Acetic Acid.

Henry J. Hamburger, New York, N.Y.

B.S. '61, Massachusetts Institute of Technology. Major: Mathematics. Minor: Physics. Thesis: Quantitative Error Bounds for Some Numerical Solutions to Differential Equations.

James William Holm-Kennedy, Riverside, Calif.

B.A. '60, University of California. Major: Physics. Minor: Mathematics. Thesis: Measurement of the Effective Mass of Charge Carriers in Superfluid Helium.

Richard Louis Hotchkiss, St. Paul

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

Dorothy Ann Jeffries, Granada

B.A. *magna cum laude* '60, University of Minnesota. Field of Concentration: Biostatistics.

Joe Johnson, Jr., Chicago, Ill.

B.S. '58, Tennessee A and I State University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Use of Carbohydase Preparation as a Structural Tool in Polysaccharide Chemistry.

Lily Ann Jones, Minneapolis

B.A. '60, University of Minnesota. Major: Microbiology. Minor: Agricultural Biochemistry. Thesis: Studies on Actinomycetes: Relationships Based on Phage Susceptibility and Physiological Characteristics.

James Grady Linsley, Urbana, Ill.

B.S.(Agric.) '53, University of Illinois. Major: Poultry Science. Minor: Physiological Chemistry. Thesis: Respiratory and Cardio Vascular Responses in the Hyperthermic Domestic Cock.

Garth Edward Miller, West Concord

B.S. with high distinction '60, University of Minnesota. Field of Concentration: Dairy Husbandry.

Antti Salomoni Nikkola, Seinajoki, Finland

B.Sc.(Agric.) '60, M.Sc. '60, University of Helsinki (Finland). Field of Concentration: Agricultural Economics.

Charles Peter Reinert, Tracy

B.Phys. with high distinction '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: On the Use of Sweep Riometer Techniques for the Measurement of Ionospheric Absorption of Cosmic Radio Noise, and Application to the Determination of Spectra of Solar Flare Particles and of Some Recombination Parameters in the Lower Ionosphere.

Mary Jane Sanborn, Ortonville

B.A. '43, St. Olaf College. Field of Concentration: Home Economics.

William Hugh Sawyer, Melbourne, Australia

B.Agric.S. '61, University of Melbourne. Major: Dairy Industries. Minor: Agricultural Biochemistry. Thesis: Sulphur Groups in Milk Proteins with Special Reference to the Formation of Protein Complexes.

Robert Roy Scheer, Austin

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

Jennie Dee Seaton, Knoxville, Tenn.

B.A. '59, University of Tennessee. Major: Medical Technology. Minor: Physiological Chemistry. Thesis: The Intermediary Role of 7-Dehydrocholesterol in the Enzyme Conversion of Lathosterol to Cholesterol.

Nighat Perveen Shafi, Lahore, Pakistan

B.A. '57, M.A. '59, University of Panjab. Field of Concentration: Home Economics.

Jack Woodward Shields, Racine, Wis.

B.S. '60, University of Wisconsin. Field of Concentration: Botany.

Justine Jane Gabrielli Speer, Minneapolis

B.S.N. with distinction '61, University of Minnesota. Field of Concentration: Public Health.

Narasimhaiengar Sundararaj, Bangalore, India

B.Sc. '52, M.S. '55, University of Mysore (India). Field of Concentration: Biostatistics.

Thomas Culver Sutton, St. Louis Park

B.A. magna cum laude '55, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: Geology of the Virginia Horn Area.

Betty Teng, Manila, Philippines

B.S. in Chem. '61, Mapua Institute of Technology (Philippines). Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Reimer-Tiemann Reaction with Carbon Tetrachloride.

Rhetta King Tucker, Greenbelt, Md.

B.S.N. '60, University of Maryland. Field of Concentration: Public Health.

Norman Duane Viste, Austin

B.S. with distinction '61, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: A Study of Biaxial Stress Cumulative Fatigue-Damage.

Margie Williams Wade, Hampton, Va.

B.S. '43, Hampton Institute. Field of Concentration: Home Economics.

Naiding Wang, China

B.S. '59, National Taiwan University. Field of Concentration: Geology.

William Charles White, Indianapolis, Ind.

B.S.A. '61, Purdue University. Major: Horticulture. Minor: Plant Physiology. Thesis: The Cause of Winter Injury on *Thuja Occidentalis* L.

Master of Science in Aeronautical Engineering

Andrew Perlbachs, Minneapolis

B.S. with distinction '60, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Flow Field Survey and Mass Flow Considerations of the Supersonic Guide Surface Parachute by Means of the Hydraulic Analogy.

Robin Edward Schaller, Stillwater

B.S. with distinction '59, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Experimental Studies for Determining the Inflation Characteristics of a Parachute Under Finite Mass Conditions.

Master of Science in Anesthesiology

Roger Brassard, Quebec, Canada

M.D. cum laude '56, Laval University. Major: Anesthesiology. Minor: Physiological Chemistry. Thesis: Methoxyflurane: Effects on Cardiac Contractility, Rhythmicity, Blood Pressure, Electroencephalogram, and Acid-Base Balance in Dogs.

John S. Rydberg, Minneapolis

B.A. '54, B.S. '57, M.D. '57, University of Minnesota. Major: Anesthesiology. Minor: Physiological Chemistry. Thesis: A Lung-Thorax Analogue: Its Suitability as a Model for the Mechanical Ventilators.

Master of Science in Chemical Engineering

Alain Hardy, Paris, France

Diploma '62, University of Paris. Major: Chemical Engineering. Minor: Economics. Thesis: Manganese Extraction by Liquid Ion Exchange.

Master of Science in Dentistry

Maurice Leon Burckhardt, Minneapolis

B.A. '59, D.D.S. '61, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Cephalometric Investigation of the Effects of Orthodontic Treatment on Facial Growth and Development.

Master of Science in Dermatology

Charles Franklin Merwin, East Rochester, N.Y.

B.A. '52, Harvard University; M.D. '56, University of Rochester. Major: Dermatology. Minor: Pathology. Thesis: The Effects of Chloroquine and Atabrine on the Incidence of Ultraviolet Light Induced Squamous Cell Epitheliomata in Skin of Hairless Mice.

Master of Science in Electrical Engineering

Anton Ferdinand Beck, Milwaukee, Wis.

B.S.E.E. '60, University of Wisconsin. Major: Electrical Engineering. Minor: Physics. Thesis: A Mechanically Powered Tunnel Diode Oscillator.

Umesh Rao, Bangalore, India

B.Sc. '58, University of Mysore; B.E. '61, Indian Institute of Science (India). Major: Electrical Engineering. Minor: Mechanical Engineering. Thesis: An Analysis of the Starting Performance of Synchronous Motors.

Jacques Andre Besseyre, Geneva, Switzerland

Diploma '61, National Higher School in Electronics. Major: Electrical Engineering. Minor: Mathematics. Thesis: Combining Negative Resistance Static Characteristics.

Master of Science in Mechanical Engineering

David Gerald Barry, Minneapolis

B.S. with distinction '61, University of Minnesota. Field of Concentration: Mechanical Engineering.

Bertram Adams Schmidt, Minneapolis

B.S.M.E. '55, Illinois Institute of Technology. Field of Concentration: Mechanical Engineering.

Master of Science in Orthopedic Surgery

Lowell Frederick Albert Peterson, Rochester

B.S. '47, M.D. '51, Northwestern University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Intraosseous Vascular Pattern of the Dog Femur: A Correlative Microangiographic Study.

Master of Social Work

Mehelinda Gaborne Sison, Philippines

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

Certificate of Specialist in Education

Albert Einar Edstrom, Hopkins

B.A. '40, Gustavus Adolphus College; M.A. '47, University of Minnesota. Field: Educational Administration.

Kay Carolyn Sarnecki, St. Paul

B.S. with distinction '59, M.A. '62, University of Minnesota. Field: School Psychological Services.

Doctor of Philosophy

Waldo Keith Anderson, Montrose,
S.D.

B.A. '45, Ottawa University; M.Ed. '53, University of South Dakota. Major: Education. Minor: Educational Psychology. Thesis: Factors Associated with Instructional Costs in Kansas Public Higher Education, 1958-1959. Major Advisers: Profs. O. E. Domian and R. J. Keller.

David Merlen Berg, Minneapolis

B.A. '54, St. Olaf College; M.A. '62, University of Minnesota. Major: Speech and Theatre Arts. Minor: Education. Thesis: A Descriptive Analysis of the Distribution and Duration of Themes Discussed by the Task-Oriented, Small Group. Major Adviser: Prof. E. G. Bormann.

James Edward Breazile, Watson, Mo.

B.S. in Agric. '58, D.V.M. '58, University of Missouri. Major: Veterinary Anatomy. Minor: Physiology. Thesis: A Study of Pain Mechanisms in Animals. Major Adviser: Prof. R. L. Kitchell.

Thomas Adams Brodie, Jr., St. Paul

B.A. '48, Macalester College; M.A. '50, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Factors Associated with Positive and Negative Attitudes Toward Senior High School. Major Adviser: Prof. R. J. Keller.

Gordon Louis Bultena, Cedar Falls,
Iowa

B.A. with high honors '57, Iowa State Teachers College; M.A. '59, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: A Symbolic Interactionist Study of Some Teen-age Camp Group. Major Adviser: Prof. M. J. Taves.

Edward Vitangelo Caruolo, Cranston,
R.I.

B.S. in Agric. '53, University of Rhode Island; M.S. '55, University of Connecticut. Major: Dairy Husbandry. Minor: Physiology. Thesis: The Unequal Milking Interval Effect on Milk Production in the Dairy Cow. Major Adviser: Prof. J. D. Donker.

Juen-Shing Chiu, Minneapolis

B.S. in Eng. '56, National Taiwan University; M.S.C.E. '61, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Damping Effects Due to General Cyclic Motion of Boundary Interfaces Separated by Viscous Material. Major Adviser: Prof. T. J. Mentel.

Bryce Allen Cunningham, Brainerd

B.A. '55, B.S. '58, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Enzymes Concerned with Biological Iodination. Major Adviser: Prof. Samuel Kirkwood.

James Alvin Espy, Jacksonville, Fla.

B.S. '20, Florida A. and M. College; M.A. '45, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Factors Influencing Choice of College Teaching as a Career: A Study of Faculties in Predominantly Negro Institutions. Major Advisers: Profs. R. E. Eckert and R. J. Keller.

Robert Lawrence Even, Cogswell,
N.D.

B.S. in Educ. '51, Valley City State Teachers College; M.Ed. '52, University of Minnesota. Major: Education. Minor: Art. Thesis: An Experimental Study of the Comparative Effect of Selected Art Experiences on the Creative Performance and Attitudes of Academically Superior Students. Major Adviser: Prof. C. A. Gayne.

George Gabriel Goetz, Minneapolis

B.S. with high distinction '56, M.S.E.E. '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Secondary Electron Emission from Single Crystals of Titanium, Germanium, Tungsten, and Beryllium. Major Adviser: Prof. K. M. Van Vliet.

Burton Louis Grover, Columbia
Heights

B.S. with high distinction '54, M.A. '60, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: Some Effects and Correlates of Different Types of Practice Used in Studying a Topic in Ninth Grade Classrooms. Major Adviser: Prof. E. P. Torrance.

Harvey S. Hendrickson, McGregor

B.B.A. with high distinction '57, M.B.A. '62, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: Employee Profit Sharing and the Accounting and Economic Implications of the American Motors Corporation—United Automobile Workers Progress Sharing Plan. Major Adviser: Prof. C. L. Nelson.

Russell Norman Hill, Eveleth

B.S. '50, St. Cloud State College; M.A. '59, University of Minnesota. Major: Educational Administration. Minor: Education. Thesis: An Analytic Survey of Curricular Changes in Minnesota Senior High Schools, 1951-62. Major Adviser: Prof. R. J. Keller.

Ahmad Kamali-Nafar, Tehran, Iran

B.A. '41, Teheran University; M.S. '61, University of Minnesota. Major: Agricultural Economics. Minor: Sociology. Thesis: Economic and Social Impact of Credit Institutions on Agricultural Development in Iran. Major Adviser: Prof. S. O. Berg.

Edward Charles Mattila, Duluth

B.A. '50, University of Minnesota; M.Mus. '56, New England Conservatory of Music. Major: Music. Minor: Art. Thesis: Symphony No. 1—Allegretto, Adagio, Allegro e Vivace. Major Adviser: Prof. Paul Fetler.

Carl Robert Morgan, Bloomington

B.A. with distinction '50, Wartburg College; M.A. '52, University of Nebraska. Major: Anatomy. Minor: Physiological Chemistry. Thesis: Studies with Insulin Antiserum: I. Immunoassay of Insulin Using a Two Antibody System. II. The *in vitro* Response to Insulin of Adipose Tissue from Rats Injected with Insulin Antiserum. III. The Changes in the Pancreatic Islet B-Cells of Rats Injected with Insulin Antiserum. Major Adviser: Dr. Arnold Lazarow.

Nicos N. Mouratides, Athens, Greece

B.A. '49, Cornell College; M.A. '51, University of Minnesota. Major: Sociology. Minor: Political Science. Thesis: Psychiatrists in the Mental Hospital: A Study in Role Tensions and Conflict. Major Advisers: Profs. D. A. Martindale and E. D. Monachesi.

Charles Roland Purdy, North Platte,
Neb.

B.S. '48, University of Nebraska; M.A. '60, University of Minnesota. Major: Business Administration. Minor: Law. Thesis: The Concept of Capacity and Overhead Costing. Major Adviser: Prof. R. G. Berryman.

Hugh Putnam, Carrington, N.D.

B.A. '53, M.S. '56, University of Minnesota. Major: Public Health. Minor: Microbiology. Thesis: A Study of the Nutrients Productivity and Plankton in Western Lake Superior. Major Adviser: Dr. T. A. Olson.

Pentti Matti Rautaharju, Helsinki,
Finland

M.D. '59, University of Helsinki (Finland). Major: Biophysics. Thesis: Quantitative Spatial Vector Analysis of Electrocardiographic Data by Electronic Computer Means. Major Adviser: Prof. O. H. Schmitt.

Earl Nolting Ringo, Minneapolis

B.A. '42, University of Omaha. Major: Education. Minor: Educational Psychology. Thesis: A Comparative Study of Native and Transfer Students in Professional and Technical Schools at the University of Minnesota. Major Adviser: Prof. R. J. Keller.

Raymond Ulric Seale, Roswell, N.M.

B.S. '56, Eastern New Mexico University; M.A. '58, Washington University. Major: Anatomy. Minor: Zoology. Thesis: An Evaluation of Chorio-Allantoic Grafting as a Technique in Skeletal Biology. Major Adviser: Dr. W. J. L. Felts.

**Naim Arsanious Sefein, Deiruit,
Egypt**

B.S. '48, University of Cairo; B.A. '54, American University at Cairo; M.A. '57, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Comparative Importance Certain Teacher Education Faculty Members and High School Principals Attach to Desirable Characteristics of Teachers. Major Advisers: Profs. C. J. Hoyt and G. M. A. Mork.

Earl William Stark, Preston, Idaho

B.A. with honors '57, University of Utah; M.A. '58, Ohio State University. Major: Speech Pathology. Minor: Child Psychology. Thesis: A Comparative Study of the Response Behavior of Children in the Age Range Five Through Ten Years to Békésy-Type and Standard Pure Tone Audiometry. Major Adviser: Prof. F. M. Lassman.

**William Allan Tinsley, New Berlin,
Ill.**

B.S. (Agric.) with high honors '56, M.S. '60, University of Illinois. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Use of Corn Silage in Beef Cattle Rations. Major Adviser: Prof. S. A. Engene.

Harold H. Traurig, New Ulm

B.S. '58, Mankato State College. Major: Anatomy. Minor: Zoology. Thesis: Autoradiographic Study of the Growth of the Mammary Gland in Castrated and Castrated-Hypophysectomized Mice. Major Adviser: Dr. C. F. Morgan.

**Hubert Ronald Walczak, South St.
Paul**

B.A. *magna cum laude* '55, College of St. Thomas. Major: Mathematics. Minor: Statistics. Thesis: Distortion Theorems for Quasi-conformal Mappings Using the Complex Dilation. Major Adviser: Prof. Edgar Reich.

Robert Bailey Warden, Minneapolis

B.S. in Eng. '59, Princeton University. Major: Chemical Engineering. Minor: Mathematics. Thesis: An Analytic Study of the Stability and Control of an Addition Polymerization Reaction System. Major Adviser: Prof. N. R. Amundson.

**Donald Lee Winkelmann, Wisner,
Neb.**

B.S.B.A. with distinction '53, M.A. '58, University of Nebraska. Major: Economics. Minor: Statistics. Thesis: Some Factors Affecting the Agricultural Labor Supply in Minnesota. Major Adviser: Prof. O. H. Brownlee.

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 Liberal 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.

*President's Reception*_____

AUGUST, 1963

- The members of the graduating class, their families and friends, are invited to attend the President's Reception immediately after the commencement exercises. The reception will be held on the terrace of the Coffman Memorial Union. In case of rain the ballroom will be used.
- Assisting in the Reception are members of the Union Board of Governors, and members of the following honorary societies: Arrowhead, Chimes, Grey Friars, Innocents, Iron Wedge, Mortar Board, Silver Spur, 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.



UNIVERSITY OF MINNESOTA

December Commencement, 1963

SATURDAY EVENING, DECEMBER 14, 8:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

The Honorable Charles W. Mayo, M.D., Rochester
First Vice President and Chairman

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable A. J. Olson, Renville

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

SMOKING AND USE OF CAMERAS AND RECORDERS—It is requested, by action of the Board of Regents, that in Northrop Memorial Auditorium smoking be confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. The use of cameras or tape recorders in the auditorium by members of the audience is prohibited.

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 twelfth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded nearly 170,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 34,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester 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. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five 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 Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

THE UNIVERSITY is acknowledged to be the cultural hub of the Northwest. It is the home of the University Artists Course, Radio Station KUOM, the University of Minnesota Television Hour, the University Theatre, the Minneapolis Symphony Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings renowned artists and lecturers to more than a million and a half persons living in the area it serves.

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 thing and expresses itself in many ways. Contributions from them have made it pos-

sible 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. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses 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 tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

Much of the University's thought and energy must be directed to planning for the anticipated increases in future enrollments. At present nearly half of the students participating in a program of higher education in the state attend the University of Minnesota. If our enrollment continues to increase as expected and if the other colleges in the state continue their enrollment growth according to the estimates they have themselves made, not less than 55,700 full-time college-level students will be attending the University in 1972. This will mean that more teachers, more civil service staff members, more land and more buildings will be needed.

THE 1963 LEGISLATURE granted the University \$63,502,050 for general operations and maintenance during the 1963-65 biennium. In addition, the University received \$8,028,242 for University Hospitals; \$5,309,483 for special appropriations, including special extension and research activities; \$12,478,700 for new buildings, land, and for the rehabilitation of existing buildings; and \$964,135 for University of Minnesota, Morris.

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 1962-63 showed that the University's current income amounted to \$105,901,883.19 and the current expenditures, transfers, and adjustments amounted to \$105,901,163.82. Of the total received, \$10,262,589.66 came from student tuition and fees; \$13,751,922.36 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,719,876.49 from intercollegiate athletics; \$16,056,223.10 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$5,443,465.52 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$19,314,903.22 came from the federal government for instruction, research, and agricultural extension. The state provided \$36,257,644.42 or 34.2% for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$6,184,253.

Commencement marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund and the various Special Project Programs including scholarships, medical and technological research, and college service funds which are administered by the Department of University Relations, 213 Morrill Hall, on the Minneapolis Campus.

Alumni, their families, and their friends are always welcome here. The University hopes they will return frequently to visit the campus and to renew cherished ties.

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 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Lowell Lindgren, 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.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Professor Guy L. Bond, Ph.D., College of Education, Faculty Marshal, will carry the Mace onto the stage, heralding the arrival of the academic procession of candidates for degrees. Marshal Bond, as Mace Bearer, will present the Mace at the center of the stage. When all of those marching have taken their seats, he will put the Mace in its cradle to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

Prelude in B Minor - - - - - Bach

ON THE STAGE: The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Marshal Bond; Professor Ambert B. Hall, D.D.S., School of Dentistry, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Professor Edwin L. Haislet, Ed.D., Executive Director of the Minnesota Alumni Association; Associate Dean Francis M. Boddy, Ph.D., University College; Captain Roland E. Berg, U.S.A., Assistant Professor of Military Science; Dean Horace T. Morse, Ph.D., General College; Dean Sherwood O. Berg, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Robert B. Howard, M.D., College of Medical Sciences; Major Frederick D. Stockdale, U.S.A.F., Professor of Air Science; Associate Professor R. Glen Berryman, Ph.D., School of Business Administration; The Honorable Bjarne E. Grottum, Regent of the University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; President H.H. Saunderson, Ph.D., University of Manitoba, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President William G. Shepherd, Ph.D., Academic Ad-

ministration; The Honorable Lester A. Malkerson, Regent of the University of Minnesota; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; The Reverend Ronald D. Maitland, S.T.B., Episcopal Chaplain at the University of Minnesota; Assistant Dean Martin L. Snoke, Ph.D., Office of the Dean of Students; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Acting Dean Marcia Edwards, Ph.D., College of Education; Captain E. M. Morgan, U.S.N., Professor of Naval Science; Dean Bryce L. Crawford, Ph.D., Graduate School; Dean George P. Hager, Ph.D., College of Pharmacy; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Dean Willard L. Thompson, Ph.D., General Extension Division; Professor Roy A. Schuessler, M.M., Department of Music; Associate Professor Frederic R. Steinhauser, Ph.D., General College, Marshal; Professor Clarence L. Cole, Ph.D., College of Agriculture, Forestry, and Home Economics of the 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.

THE NATIONAL ANTHEM: Following a fanfare from the organ, the entire audience and Professor Schuessler, soloist, will sing:

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 Ronald D. Maitland.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson.

COMMENCEMENT ADDRESS: Dr. H. H. Saunderson, President of the University of Manitoba, "The Power of Ideas."

CONFERRING OF ROTC CERTIFICATES: Vice President Shepherd will introduce Captain Berg, Captain Morgan, and Major Stockdale, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by President Wilson.

PRESENTATION OF CANDIDATES: Vice President Shepherd 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 Thompson, for the General Extension Division; Dean Morse for the General College; Dean Ziebarth for the College of Liberal Arts; Dean Boddy for the University College; Dean Verbrugge for the Institute of Technology; Dean Berg for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Edwards for the College of Education; Professor Berryman for the School of Business Administration; Dean Hager for the College of Pharmacy; 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: Professor Edwin L. Haislet.

PRESENTATION OF DIPLOMAS: With Dean Snoke 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 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!	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.

POSTLUDE: Associate Professor Fleischer, organist.

Fugue in B Minor - - - - - Bach

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

*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

Second Lieutenant, Adjutant General Corps

Jean Paul LeRoux, Hamel

Second Lieutenant, Army Intelligence and Security

William Arthur Baker, Minneapolis
James William McCormack, Minneapolis
Thomas Willard Wexler, Minneapolis

Second Lieutenant, Artillery

Robert Dixon Wilson, Jr., Minneapolis

Second Lieutenant, Medical Service Corps

Jerome Allen Crest, Minneapolis

Second Lieutenant, Ordnance Corps

Robert Andrew Parker, Jr., St. Paul

Second Lieutenant, Signal Corps

Thomas Michael Roan, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, SC, USN

Joseph R. Fischenich, Sioux Falls, S.D.

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Louis L. Ochocki, Hendricks
Dainis Ohaks, Jalgava, Latvia
James R. Skalicky, Montevideo

*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

Engineering Science Certificate

John Freeman Duryee, Minneapolis

Richard Anthony Vomela, St. Paul

GENERAL COLLEGE

Associate in Arts

Richard Gary Ackerson, St. Paul
Dennis Owen Andersen, Willmar
Henry Frank Antila, Minneapolis
Thomas Harold Axelson, Minneapolis
Mary Frances Banker, Excelsior
James Louis Becker, Minneapolis
Barbara Jean Berg, Richfield
Richard Flemming Best, Minneapolis
Bernard Leon Bodien, Squaw Lake
Fredrick Albert Gay Brant, Minneapolis
Carl William Brauning, West St. Paul

David Richard Brooks, Edina
Kenneth Lyman Brown, Minneapolis
Kenneth Philip Brustad, Bagley
Gaylord Arnold Budd, Minneapolis
Jessica Dolores Buetow, St. Paul
Wallace Emil Burg, St. Paul
Ronald Seldon Burnside, Minneapolis
Elaine Winnifred Caldwell, St. Paul
Arnold Christian Carlson, Jr., Minneapolis
Philip Wayne Carlson, Minneapolis
Dawn Audette Carroll, St. Paul
Thomas Francis Cashman, Minneapolis

Douglas Allen Cederstrand, Minneapolis
Roger Louis Clark, Minneapolis
Patricia Margaret Clemment, St. Paul
Barbara Jean Cogswell, Minneapolis
Strathmore Richard Bruce Cooke, Robbinsdale
William Caesar Cornell, Mound
Stanley Walter Cramer, St. Paul
Melvin Nicholas Dario, St. Paul
Sally Ann Davis, Minneapolis
Philip Clyde Dean, Jr., Minneapolis
John Henry DeBlicke, Tracy
Bruce Herman DeVilliers, Edina
Daniel John Diebold, Minneapolis
Thomas George Doberstein, Minneapolis
James Donald Drake, St. Paul
Joel Raymond Duffina, St. Paul
Ward Wayne Dunlap, Minneapolis
Gary James Engel, Minneapolis
Gary Walter Erickson, Hopkins
Richard Lawrence Fallstrom, Minneapolis
Norman Rubin Fishman, Minneapolis
Curt Arthur Flug, St. Paul
Wayne John Frankenberg, St. Paul

Karen Marie Gabrielson, Minneapolis
Thomas Leland Ganfield, St. Paul
Kenneth Roger Gauvin, Minneapolis
James Gordon Gibis, St. Paul
Michael B. Goldman, Minneapolis
Thomas Howard Greeney, Waseca
Robert Clifford Grill, Minneapolis
Paul Edmund Grisim, Minneapolis
Jon Lester Gross, Minneapolis
Vita Gutmanis, Minneapolis
Robert John Halverson, Minneapolis
Marcus Carl Hannaman, Guckeen
Karyle LouAnna Hanson, Minneapolis
Richard Evans Harris, Hopkins
Stephen Joel Harris, Minneapolis
Glenn Willard Hawkinson, St. Paul
Judith Ardis Hein, Minneapolis
David Evan Hermanson, Minneapolis
Gerald D. Hermundslie, Minneapolis
Fredric Bernard Herndon, Minneapolis
Adrian Arthur Hertog, St. Paul
Robert Donald Highfield, Minneapolis
William Ronald Hirabayashi, Richfield
Bernard Joseph Hnasko, Minneapolis
Dorene Joann Holmberg, Minneapolis
Jon Reich Horkey, Minneapolis
William Alfred Horning, St. Paul
Charles Robert Howe, Minneapolis
Ramez George Jacob, Minneapolis
Jerry David Jacobson, Bloomington
Dorothy Marjorie Johnson, St. Paul
Jack A. Johnson, New Brighton
Richard Lee Johnson, Long Lake
Paul Alvin Joubert, Minneapolis
Dennis Eugene Kawalek, Minneapolis
Randi MaryJean Kloss, Minneapolis
James Stanley Knoll, Anoka
Robert Richard Koors, Minneapolis
Ronald Alfred Kopp, Minneapolis
Richard Weldon Kulesh, Wayzata
Randall William Kuschke, St. Paul
Walter John Lager, Minneapolis
Glenn Thomas Larson, Minneapolis
Jerome Francis Leffler, Owatonna
Robert Orvel Linde, Minneapolis
Philip Little IV, Wayzata
Charles Richard Livermore, Minneapolis

Mary Elizabeth Lutz, White Bear Lake
Penny Jane MacKenzie, White Bear Lake
David Everett Maetzold, Minneapolis
Jeffrey Dean Manning, Bloomington
Glen Martin Mattson, Brooklyn Center
Thomas Brian McCaffrey, Minneapolis
Jeffrey Page McCune, Minneapolis
Carlton Anthony McLain, Hopkins
James Robert Messick, Mound
John Leonard Michalson, Arlington Heights, Ill.
Beverly Jean Micheau, Minneapolis
Michael Charles Milinkovich, New Prague
Raymond Charles Miller, Minneapolis
Sharon Jean Mitchell, St. Louis Park
Michael Charles Moriarity, Minneapolis
John Joseph Moriarty, St. Paul
Richard Allen Nelson, Savage
Thomas Oliver Nelson, St. Paul
Michael Jon Nord, St. Paul Park
Darrell Neil Jerome Norling, Minneapolis
Donald James Norqual, St. Paul
James Dennis Norwich, Edina
Arnold Samuel Odessky, Minneapolis
David Patrick O'Keefe, St. Paul
Jean Victoria Okerlund, St. Paul
John Peter Oleksa, Minneapolis
Paul Michael Olsen, Minneapolis
John Wallace Olson, Evansville
John William Orluske, St. Paul
Frances Marie Owens, Minneapolis
Gilbert Richard Palmer, Minneapolis
Morgan Randolph Pascoe, Edina
Joseph Francis Perron, Jr., St. Paul
Bertil Holger Persson, Minneapolis
James David Peterson, Minneapolis
Jerry Lee Peterson, St. Paul
Merodie Ingrid Peterson, White Bear Lake
Gerald Andrew Pfannenstien, St. Joseph
Donald Gary Phillips, Minneapolis
Gary Addison Pidgeon, Minneapolis
Frank Robert Pohl, Minneapolis
Barry Robert Pomrantz, Marshall

Wayne King Potter, Tracy
 Miroslawa Ivanova Prehar, Minneapolis
 John Robert Proulx, Minneapolis
 John Roy Purvis, St. Paul
 Mary Louise Quam, Minnetonka
 John James Radde, Watertown
 Harold Robert Reppe, St. Paul
 William Herbert Rick, St. Paul
 John Stewart Ries, Minneapolis
 Robert Clark Roe, Jr., St. Paul
 James Bruce Rotsch, Minneapolis
 William Howard Sackrider, Minneapolis
 Mary Lou Salas, Minneapolis
 Dale Richard Schilling, St. Paul
 Paul David Schmidt, Minneapolis
 James Addison Schnickel, Minneapolis
 Patricia Ann Sears, Minneapolis
 William Lloyd Shepard, Brainerd
 James Thorpe Sjoberg, Minneapolis
 Denis Griswold Smith, Minneapolis
 Terry Sue Smith, St. Paul
 John Robert Soderlund, Wayzata
 Judith Laura Stormoen, Minneapolis
 Richard Christian Stout, Bayport
 Eleanor Sue Strem, St. Paul
 Larry Robert Sullwold, Hopkins
 William Edward Swanson, Minneapolis
 Irwin Swatez, Minneapolis
 Gary Lee Swelander, Minneapolis

James Melvin Sweno, St. Paul
 Ruby Lou Swift, St. Paul
 John Lawrence Symoniak, Crystal Bay
 Craig Lee Teter, Minneapolis
 Bruce Malvern Thompson, Edina
 Charles Philip Thompson, Buffalo
 George Willis Thompson, Minneapolis
 Robert Craig Thompson, St. Paul
 Gary Roger Thone, Minneapolis
 David Arthur Thorn, Minneapolis
 Robert Lee Tuttle, Jr., Milwaukee, Wis.
 George Elliott Tuvey, Watertown
 James Palemon Uttley, Minneapolis
 Dennis Allan Wachter, Bloomington
 Jon Allen Waldeland, Minneapolis
 Duane Joel Wallin, St. Paul
 Darryl John Welde, Minneapolis
 David Jon Westman, Minneapolis
 Gary George Wilmer, St. Paul
 Michael Asche Wilson, Minneapolis
 Roland James Winters, Minneapolis
 Marcene Suzanne Wojciak, Minneapolis
 Joanne Sandra Wolter, Minneapolis
 Howard Wesley Working, Anoka
 Barbara Ann Wotzka, St. Paul
 Robert Wrubel, Minneapolis
 Bruce Norris Youngdahl, Minneapolis
 Duane Thomas Zwolensky, Minneapolis

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Alan James Anderson, Minneapolis
 Donald M. Buckner, St. Paul
 Audrey Adelle Eastvold, Ortonville
 Serene Rochelle Fiterman, Golden Valley
 Florine LaVerne Frischkorn, St. Paul
 Patricia Marie Gravdal, St. Paul
 Lola Carolyn Jodie Hagford, Minneapolis
 Walter James Hodgins, Winona

Karen B. Bachman Holtmeier, Minneapolis
 Michael Dean Kennedy, Minneapolis
 Diane Berniece Kunde, Goodhue
 Helen Dewey Pelland, Minneapolis
 Janice Dorothy Peterson, St. Paul
 Juliette Ann Victor, Minneapolis
 Wilbur Lloyd Wheeler, Mankato
 Robert Frank Wood, Minneapolis

Bachelor of Arts

- Susan Erika Ahl, Excelsior
Burton Dale Anderson, Minneapolis
Michael John Askerman, St. Louis Park
Timothy Murray Bair, Rochester
William Arthur Baker, Minneapolis
James Vernon Beal, Minneapolis
Marilyn Ida Becker, Hokah
Maureen Elizabeth Bell, Sauk Centre,
CUM LAUDE
Mohamed Benaissa, Asilah, Morocco
David Edward Benidt, Minneapolis
Renee Marie Bertheau Bettenburg,
Richfield
Patricia Jean Blanchard, Minnetonka
Edward Glen Bohanon, St. Paul
William Arley Browning, Poulsbo,
Wash.
Judith Lee Carl, St. Paul
Judith Lee Carlson, Edina
Thomas Arthur Clark, Wayzata
Phyllis Elisabeth Church Cohen,
White Bear Lake
Elchanan Cohn, Israel
Roald William Cornelius, Minneapolis
John Charles Cosgrove, Waverly
Guy David Courteau, St. Paul
Robert Fred Crouch, Minneapolis
Priscilla Dahl, Minneapolis
Darwin Jay Dale, St. Louis Park
Daniel Joseph Dickey, Minneapolis
Gail Irene Jessop Diez, White Bear
Lake
Stephen James Dondanville, Brace-
ville, Ill.
Curtis Charles Dooyema, A.A.,
Luverne
Margaret Ellen Erickson, St. Paul
Bruce Joan Evans, Minneapolis
Ronald Bertrand Faanes, Minneapolis
Kathrine Ann Fearon, Minneapolis
Orrin Hugh Finck, A.A., St. Paul
Carolyn Sue Fineberg, St. Paul
Harold William Frank, South St. Paul
Jerrold Stanley Frank, St. Paul
Leland Jordan Frankman, Aberdeen,
S.D.
Michael Miles Gilbert, Edina
Joan Michele Gorder, Minneapolis
John Richard Graebner, St. Paul
Richard Roy Graves, St. Louis Park
Paul Edwin Griffith, St. Paul
Harriet Carol Gross, Minneapolis
Constance Allison Tyson Hagen, St.
Paul
Lewis John Haldorson, Glenwood
Bruce Arthur Hanson, St. Paul
Paul David Harris, Minneapolis
Johanne Carol Hartz, Springfield, N.J.
James Hazel, Minneapolis
Wayne Henry Heimermann, Austin
Frederick A. Hein, B.S.L., St. Paul
Steven Abbott Heller, Minneapolis,
CUM LAUDE
Charlene Patricia Herrick, Minne-
apolis
Joan Ronnelle Hohenthauer, North
St. Paul
Mary Elinor Hart Jackson, Minne-
apolis
Dennis Rudolph Jacobsen, Anoka
Ann Louise Johnson, Wayzata
Richard Wayne Johnson, Minneapolis
Katherine Lea Kaliher, Minneapolis
Margueritte Frances Callicotte
Knopp, Richfield
Ulana Maria Kramarczuk, Minne-
apolis
Harold L. Krause, Buffalo
Ivan James Kubista, Owatonna
Madeline Esther Kurrasch, Minne-
apolis
Wayne Dennis Laschinger, St. Paul
Jerome Peter Ledin, Buffalo
Jean Paul LeRoux, Hamel
Michael Alton Linder, Hopkins
William Daniel Lloyd, Albert Lea
Gary Raymond LoCascio, Minne-
apolis
Darlene Marilyn Loding, Minneapolis
McLaren Innes Maley, Highland
Park, Ill.
Barbara Ann Malkerson, Minneapolis
Richard Donald Manley, Minneapolis
Richard Ellis May, Edina
James William McCormack, Minne-
apolis

John Paul McDonald, Reads Landing
 Yvonne Lenmark Milton, A.A.,
 Minneapolis
 John Frederick Mohr, Minneapolis
 Carolyn Lee Mondyke, Minneapolis
 DeRoyce Floyd F. Monroe, Lester
 Prairie
 David Livingstone Neff, Virginia
 Stephen Edwin Nelson, Edina
 Dainis Ohaks, Minneapolis
 Jerald Marriam Olson, St. Louis Park
 Darcy Patricia Oman, St. Louis Park,
 MAGNA CUM LAUDE
 Verlan William Ott, Fairfax
 Barbara Louise Owens, Onida, S.D.
 Janith Lucille Passe, A.A., Rochester
 Robert Carlyle Peake, St. Paul
 Carole Ann Peterson, Madison
 Guy Francis Pucci, A.A., St. Paul
 Lynn Louise Remly, Minneapolis
 Vernon Joseph Ricci, A.A., West St.
 Paul
 James Michael Robertson, St. Louis
 Park
 Sharon Lee Robinson, Minneapolis
 Paul Einar Rydning, Wayzata
 Earl Roy Schindeldecker, West St.
 Paul
 Carole Joan Schmitz, St. Cloud
 Gene Lowell Schnaser, Appleton
 Carl Hunt Schwarzler, Sharon, Mass.

Mary May Scott, Willmar
 Robert Howard Scroggins, Minne-
 apolis
 Gretchen Shapiro, Minneapolis, CUM
 LAUDE
 Mary Genevieve Stack, St. Paul
 Rodney James Stearns, Minneapolis
 David John Steinhauser, St. Paul
 Rolland Roy Stemland, Wayzata
 Henry Plummer Thomas, Rochester
 Jay William Thompson, Minneapolis
 Terry Donald Thompson, Minne-
 apolis
 Walter David Thompson, Long Lake
 Donald Jerome Thone, St. Paul
 Bonnie Louise Vikan Thoreen, Foss-
 ton
 Quentin Hylan Torgerson, Minne-
 apolis
 Richard Lee Trapp, Richfield
 Jay Louis Traub, Minneapolis
 Anne Thorsen Truax, A.A., Minne-
 apolis
 Floyd Charles Vincent, A.L.A., St.
 Paul
 Edward Stanley Wall, McMinnville,
 Tenn.
 Patricia Lee Wapola, New York Mills
 Robert Dixon Wilson, Jr., Minne-
 apolis

UNIVERSITY COLLEGE

Bachelor of Arts

Virginia Lou Russeth, Minneapolis

Bachelor of Science

Jean Darlene Ollila, Virginia

INSTITUTE OF TECHNOLOGY

Certificate in Science

Robert Ellsworth Wilson, St. Paul

Bachelor of Science

John T. Martin Carlson, Mora

Bachelor of Aeronautical Engineering

Daniel Lawrence Pekarek, Pierz

Donald Lee Perusse, Minneapolis

Bachelor of Architecture

Parviz Azad-Tatari, Tehran, Iran

Raymond Allen Keller, Frazee

Paul Sadao Osumi, Honolulu, Hawaii

David William Wagner, B.A., St.

Paul

Bachelor of Chemical Engineering

Owen Charles Greenley, A.A.,
Brainerd

Carolyn Marie Amundson

Wagtskjold, Battle Lake

Bachelor of Chemistry

Luke John Davich, Hibbing

George Richard Gulso, Dassel

Bachelor of Civil Engineering

Charles Edward Ackerman, Minne-
apolis

Donley Arthur Fingalson, Detroit
Lakes

Joel Samuel Katz, Minneapolis

Bachelor of Electrical Engineering

Peter Thomas Demos, White Bear
Lake

Raymond Carl Kocon, Minneapolis

Lawrence Michael Martin, Edina

Bachelor of Mathematics

Robert Dean White, Minneapolis

Bachelor of Mechanical Engineering

Erland David Anderson, Duluth

Allen James Baldwin, Minneapolis

Robert Leroy Comstock, Jr., Grand
Rapids

Terrold William Conway, Minne-
apolis

Charles Eide Pagenhart, A.A.,
Rochester

Wayne Donald Perkins, Grand
Rapids

Robert John Reedstrom, Rapidan

Richard Douglas Riesberg, Minne-
apolis

Donald Ellsworth Roepke, Minne-
apolis

Dean Arthur Shafer, Duluth

Bachelor of Physics

Allen James Madsen, Cedar Falls,
Iowa

David Irwin Norman, Willmar

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

Bachelor of Science

Marcia Suzanne Nelson Alexander,
Minneapolis, Home Economics

Janice Marlene Anton, Minneapolis,
Home Economics, WITH DISTINC-
TION

Farideh Fatemi Azad, Tehran, Iran,
Home Economics

Maret Bjornberg, Willmar, Home
Economics, WITH DISTINCTION

Raymond LeRoy Brasch, Mora,
Forestry

Beverly Beth Brown, Odessa, Home
Economics

Ronald Leon Conrad, Amboy, Agri-
culture

Mary Louise Fischer, Lewiston, Home
Economics

James Edmund Forbes, Warren,
Forestry

David Lloyd Gjestson, Stoughton,
Wis., Agriculture

Barbara Jean Hanson, St. Paul, Home
Economics

Janet Abramson Hintermeister, Slay-
ton, Home Economics

Phillip Lew Katzung, West St. Paul,
Forestry

James Walter Keller, Ortonville, Agri-
culture

Dale Allen Kennen, Rush City, Agri-
culture

David Allan Kirscht, Marshall, Agri-
culture

Eunice Corrine Koester, Northfield,
Home Economics

Joyce Romayne Malnati, Salinas,
Calif., Home Economics

Janet Elaine Mericle, St. Paul, Home
Economics

Myron Glenn Meyer, Worthington,
Agriculture

Neil Larry Meyer, Wells, Agriculture

Michael Webster Millar, Stillwater,
Forestry

John Phillip Miska, Minneapolis,
Agriculture

Larry Rudolph Mitzner, Balaton,
Agriculture

Nancy Louise Monhardt, Fairmont,
Home Economics, WITH HIGH DIS-
TINCTION

Karin Juanita Nelson, Stanton, Home
Economics

Donavon Myles Oseid, Baudette,
Agriculture

John Nicholas Polivka, Minneapolis,
Forestry

James Edward Potton, St. Paul,
Forestry

Robert Neal Radloff, Austin, Agri-
culture

Roger Albert Sandquist, St. Paul,
Forestry

Irene Gerber Sansness, Ortonville,
Home Economics

Edmund Francis Thornton, Lake
City, Agriculture

Barbara Jean Vukelich, White Bear
Lake, Home Economics

Albert Preston Whitesell, A.A., Min-
neapolis, Forestry

Katherine Joan Wilke, St. Paul,
Home Economics

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

Bachelor of Science

Barbara Ann Broman, Minneapolis,
Home Economics Education
Luverne Andrew Bushlack, Wells,
Agricultural Education
Carol Elizabeth Ellingson, Red Wing,
Home Economics Education
Diane Carol Frederickson, Morgan,
Home Economics Education
Colleen Kay Longstrom, Fridley,
Home Economics Education

Carol LaVonne Mielke, Springfield,
Home Economics Education
Judith Ann Mueller, Minneapolis,
Home Economics Education
Ilene Frances Olson, Rush City,
Home Economics Education
Marlys Carol Knutson Sutherland,
Blooming Prairie, Home Eco-
nomics Education

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

Bachelor of Agricultural Business Administration

Bruce Harold Dushack, Hendricks
Elvin Edward Jensen, Glencoe

Philip Meland Ostenso, Willmar
Clinton Harlan Wilson, Hayfield

COLLEGE OF EDUCATION

Bachelor of Science

Arlene Deloris Dahl Anderson, Min-
neapolis
Deann Dee Andreasen, Odessa
Donald Leslie Auld, St. Paul
James Michael Bennes, Thief River
Falls
Arleen Joan Bergstrom, Minneapolis,
WITH DISTINCTION
Gail Ann Verson Bernstein, Glencoe,
Ill., WITH HIGH DISTINCTION
Lois May Bienhoff, A.A., Minneapolis
Loyal Paul Brezny, Minneapolis
Elaine Catherine Broz, St. Paul

Donna Gene Burt, Winona
Mary Elizabeth Butorac, Austin, WITH
DISTINCTION
Barbara Jean Danforth, Edina
Norma Yelin Dansky, B.A., Minne-
apolis
Dennis Allen Eggert, A.A., Isanti
Ronald Dennis Elmquist, St. Paul
William Edwin Elmquist, A.A.,
Minneapolis
Audrey Mae Engelstad, Minneapolis,
WITH HIGH DISTINCTION*

* Nursing Education Curriculum

Darrell Lee Erickson, Minneapolis
 Gail Florence Fabyanske, St. Paul,
 WITH DISTINCTION
 Mary J. Banks Ferley, Brooklyn
 Center
 Jean Kalt Field, B.A., Minneapolis
 Dean Conrad Funk, B.A., Worthing-
 ton
 Joan Marie Furlong, Bovey
 Ronald Duane Gamer, Robbinsdale
 Constance Muriel Geror, West St.
 Paul
 Ordella Mae Gilbertson, Lakeville
 Michael Peter Godfrey, Anoka
 Joanne Doris Goldenman, Zimmer-
 man
 Elizabeth Ann Addis Greenberg, Min-
 neapolis, WITH HIGH DISTINCTION
 Hannah Louise Blegen Harper, St.
 Paul
 Helene Elizabeth Henz, Minneapolis
 Sandra Ann Hollering, St. Paul
 Barbara Irene Husak, Minneapolis
 Julie Anne Hutchison, Minneapolis
 Janet Carol Jackson, B.A., St. Paul
 Shirley Ann Jensen, B.A., Minne-
 apolis
 John Richard Jerhoff, Jr., South St.
 Paul
 Norene Bea Johnson, St. Paul, WITH
 DISTINCTION
 Sandra Louise Johnson, Minneapolis
 Wayne Avery Johnson, Minneapolis
 Katherine Lea Kaliher, Minneapolis
 Karyl Kay Keller, Falcon Heights
 Aristides Steve Kerekas, Rochester
 Margery Ann Kiehn, Lamberton
 Esther Evangeline Kipp, Minneapolis,
 WITH DISTINCTION
 Jacquelyn Jane Miller Kisch, A.A., St.
 Paul
 Rita Diane Biller Klein, Minneapolis
 Erich Paul Koester, St. Paul
 Lloyd Erwin Krob, B.A., St. Paul
 Shirley Marian Lecy, Minneapolis,
 WITH DISTINCTION
 Judith Rose Lefeber, Chicago, Ill.
 Susan Helene Leicht, Winona, WITH
 DISTINCTION
 Jeanne Roell Markusen, B.B.A., Min-
 neapolis

Patricia Diane Marron, West St. Paul
 Judith Catherine Marshall, St. Paul
 Mary Louise Martin, Edina
 Karen Augusta Meyer, Minneapolis
 Deborah Jan Westlund Mickelson,
 Minneapolis
 Sandra Marie Moberg, Rochester
 Karen Lee Hoffman Morstad, Sleepy
 Eye
 Beverly Jean Nelson, Minneapolis
 Dorothy Mae Odegard, Montevideo
 Gaylen Megard Oden, Bloomington
 Sondra Louise Millar Olson, St. Louis
 Park
 Eileen Kane Oslund, B.A., Brooklyn
 Center
 Robert Allen Pearson, Minneapolis
 Judith Ann Pederson, Coon Rapids
 Bruce Joseph Perrizo, St. Paul
 Suzanne Darrel Prass, B.A., Minne-
 apolis
 Roger Leif Ravensborg, St. Paul
 Eunice Elsie Reinking, Minneapolis
 Janice Beda Robertson, A.A., Worth-
 ington
 Delores Jane Kinney Roeder, B.A.,
 Minneapolis
 Alice Ross Rogers, B.A., Minneapolis
 Gita Handlovsky Ross, A.A., St. Louis
 Park
 Mary Joy Young Ryan, Minneapolis
 Rochelle Ann Shulman, Milwaukee,
 Wis.
 Susan Margrethe Simonet, A.A.,
 Little Falls
 Kaye Elizabeth Simons, Wayzata
 Karin Ann Soderholm, Wayzata,
 WITH DISTINCTION
 Jean Margaret Allaire Spong, New
 Brighton
 Jeannine Marie Storholm, Minne-
 apolis
 Clarine LaVonne Strand, Minneapolis
 Stanley Phillip Thurston, Jr., Minne-
 apolis
 Gayleen Theresa Truman, Canton
 Judith M. Vogel, Slayton
 Dona Syrvud Wagner, Minneapolis
 Jeremy Nathan Waldman, St. Paul
 Penelope Lundeen Watson, Minne-
 apolis

Fulton James Weckman, Jordan
Fredrica R. Weiss, Minneapolis
David Cameron Whitcomb, A.A., St.
Paul
Dale Ralph Wicklander, St. Paul
Patrick Leo Williams, A.A., Minne-
apolis

Carol Jean Willts, Sibley, Iowa, WITH
HIGH DISTINCTION*
Judith Jane Wittig, Minneapolis
Charles Edward Wolden, Rochester
James Michael Zak, Little Falls
Joanne Zakula, Kinney

Master of Education

Robert Eugene Barnes, B.S., Minne-
apolis
Charlotte Nuzum Corliss, B.S.N.,
Clarksburg, W.Va.
James Martin Hilgendorf, B.S., Min-
neapolis

William Wellington Mackey, B.A.,
Miami, Fla.
Germaine R. Minton, B.S.N., Arling-
ton, Va.

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Richard Albert Hallberg, Minneapolis
Edward Reinhart Kimmel, West St.
Paul

John Nick Petropoulos, West St. Paul

Bachelor of Science in Business

Harvey Loren Anderson, Excelsior
Ward Gregory Anderson, Minneapolis
Jerry Allen Anfinson, Austin
Jon Michael Armstrong, Harmony
James Babich, Minneapolis
Marsha Penelope Bond, Minneapolis
Wayne Verdell Bothun, Minneapolis
Joel Douglas Bucklen, Bemidji
James Gordon Campbell, Hopkins
Jerome Allen Crest, Minneapolis
Norris Bradford Dahl, Red Wing
Daniel Carl Davidson, A.A., Minne-
apolis
Charles Edward Ehrhorn, Rochester
William Keith Elwood, St. Paul
Joseph Raymond Fischenich, Sioux
Falls, S.D.

Steven Richard Frederickson, South
St. Paul
Robert Keller Garrity, Mankato
Richard Stuart Goldman, Minneapolis
Harold Louis Gonier, Minneapolis
William Eugene Grafstrom, St. Paul
John Henry Haryn, A.A., Cook
Brian Jerome Heidtke, St. Paul
James Albin Johnson, Britt
James Elliot Kading, Owatonna
Jaan Kaigas, Richfield
Jay Willis Kessler, Redwood Falls
Louis Leonard Lawrence, St. Paul,
WITH DISTINCTION
Matthew William Macheledt, Jr.,
B.A., Battle Lake
Warren Leo Malm, Minneapolis

* Nursing Education Curriculum

Patrick Allen Morgan, Minneapolis
Edwin Eugene Motsick, Minneapolis
James Earl Myhre, Minneapolis
Gerald Leonard Nelson, St. Paul.

WITH DISTINCTION

Roger Harold Nord, Pelican Rapids,

WITH DISTINCTION

Donald Lee Perusse, Minneapolis
Allan Keith Petersen, Bird Island
Donald Wayne Peterson, Minneapolis
Donald Thomas Popielarz, Amsterdam, N.Y.
Thomas Michael Roan, St. Paul
Richard Dale Rooney, Glenwood

John Gustav Seashore, B.M.E., Minneapolis

Gary Richard Simons, Minneapolis
James Richard Skalicky, Minneapolis

Allen George Skur, Cook

Jack Franklin Smith, A.A., Austin

Richard Allen Snyder, St. Paul

Ronald Allen Sorensen, Minneapolis

Robert Noel Trumpis, Minneapolis

Robert Everett Wiele, B.M.E., Minneapolis

Harold John Wilson, North St. Paul

David Phillip Wyman, Faribault

Bachelor of Science in Economics

Robert John Adelman, A.A., Robbinsdale

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Arthur Killian Malm, Jr., Excelsior

Donald Gene Soltis, Upsala

LAW SCHOOL

Bachelor of Science in Law

Loren Anthony Hagemeyer, St. Paul

Richard Wallace Sunde, Minneapolis

Bachelor of Laws

Richard Wallace Sunde, Minneapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing Administration

Catherine Ann Baden, Minneapolis
Viola H. Debord, Evanston, Ill., WITH
DISTINCTION

Marilyn Rebecca Johnson, Flint,
Mich., WITH DISTINCTION

Bachelor of Science

Ferol LaVonne Bangstad, Buffalo,
Medical Technology, WITH DISTINC-
TION*

Mary Monaghan Broberg, Green Bay,
Wis., Public Health Nursing

JoAnn Elsie Grover, Duluth, Medical
Technology*

Joyce Elaine Larson, Minneapolis,
Medical Technology, WITH DISTINC-
TION*

Lucille Rose Loe, R.N., Cottonwood,
Public Health Nursing

Marian Elizabeth Macaulay, Norwalk,
Wis., Public Health Nursing

Jeanette Henrietta Pattinson, Pipe-
stone, Public Health Nursing

Elaine Eunice Petersen, St. James,
Public Health Nursing, WITH DIS-
TINCTION

Margaret E. Reslock, Waupun, Wis.,
Public Health Nursing

Nancy Ann Sandberg, Grantsburg,
Wis., Public Health Nursing

Gertrude Jean Strating, R.N., Moor-
head, Public Health Nursing, WITH
DISTINCTION

Martha Ann Tema, Minneapolis,
Public Health Nursing

Kathleen Elliot Thompson, Minne-
apolis, Medical Technology*

Master of Public Health

Earle Roscoe Evavold, B.A., Battle
Lake

Patricia Ann Greene, B.S.N., Bain-
ville, Mont.

Joanne Hefelfinger, B.S., Nevada City,
Calif.

Virginia Geiger Kenyon, B.S., Valier,
Mont.

Hildegard Julia Siegel, B.S., Wauwa-
tosa, Wis.

Doctor of Medicine

Michael John Bell, B.A., St. Paul
Clinton Earle Rhodes, B.A., Bemidji

Mary Grace Robertson, B.A., Rich-
field

* These degrees are conferred subject to the completion of practical work prior to March 21, 1964.

GRADUATE SCHOOL

Master of Arts

Sara Armstrong Allen, Downers Grove, Ill.

B.A. *cum laude* '54, Knox College. Major: Child Psychology. Minor: Psychology. Thesis: The Effects of Differential Reinforcement on Children's Behavior.

Floyd Leslie Anderson, Minneapolis

B.S. '52, University of Minnesota. Field of Concentration: Industrial Education.

LeRoy Douglas Anderson, Centuria, Wis.

B.S. '59, Wisconsin State College (River Falls). Field of Concentration: Educational Administration.

Sigurd John Anderson, LeRoy

B.A. '58, St. Olaf College. Field of Concentration: Educational Administration.

Rosario Ang, Manila, Philippines

B.S.E.Ed. '57, National Teachers College (Philippines). Field of Concentration: Library Science.

Kristin Okerlund Arnold, Minneapolis

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

Achilles Avraamides, Arsos, Limassol, Cyprus

B.A. '57, Bob Jones University. Field of Concentration: History.

Sadullah Aygun, Ankara, Turkey

Diploma '54, University of Ankara (Turkey). Field of Concentration: Economics.

Stanley Beckwith Baker, Janesville, Wis.

B.A. '57, Augsburg College. Field of Concentration: Educational Psychology.

Jerome Thomas Barrett, St. Paul

B.A. '59, College of St. Thomas. Field of Concentration: Industrial Relations.

Robert Wayne Bastian, Elk River

B.A. '60, University of Minnesota. Major: Geography. Minor: History. Thesis: The Relative Significance of the Lake Superior District Iron Ore Ports Since World War II.

Ronald Lee Bauerly, St. Cloud

B.S. '62, St. John's University. Field of Concentration: Educational Psychology.

Harold Paul Baughman, St. Paul

B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Charlene Herberta Behne, Sherburn

B.S. with honors '56, Mankato State College. Field of Concentration: Educational Administration.

Bradley Allen Bentson, Minneapolis

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

Margeret Ellen Bjorck, Minneapolis

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

Margaret Louise Blumberg, Bethesda, Md.

B.A. '58, College of Wooster. Field of Concentration: History.

Ruth Victoria Boese, Benson

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

Charles Avery Bolles, Pine Island

B.A. '62, University of Minnesota. Field of Concentration: Library Science.

Norma Ruth Borah, Huron, S.D.

B.S. *magna cum laude* '55, Huron College. Field of Concentration: Educational Psychology.

Tele Boveng, Kalispell, Mont.

B.A. '61, College of Puget Sound. Field of Concentration: Psychology.

Mary Katherine Bruzek, New Richland

B.A. '52, College of St. Teresa. Field of Concentration: Library Science.

Terence Neilon Burns, Duluth

B.A. '59, College of St. Thomas. Field of Concentration: Industrial Relations.

Bartell Wilson Cardon, Jr., Oakland,
Calif.

B.A. '60, Brigham Young University. Field
of Concentration: Educational Psychology.

Duane Justin Christensen, Kenmare,
N.D.

B.A. '53, Augsburg College. Field of Con-
centration: Educational Administration.

Neil E. Christenson, Litchfield

B.A. '56, College of St. Thomas. Field of
Concentration: Educational Administration.

Betty Louise Coen, Pine Island

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

Wendell Clare Cridlebaugh, White
Bear Lake

B.A. in Econ. '51, Washington State Uni-
versity. Field of Concentration: Educational
Administration.

Allen L. Dollerschell, Litchfield

B.S. '59, St. Cloud State College. Field of
Concentration: Library Science.

Phyllis Evelyn Doran, Sioux City,
Iowa

B.A. '47, Morningside College. Field of Con-
centration: Educational Psychology.

Charles H. Dunn, Rochester

B.S. '52, Mankato State College. Field of
Concentration: Physical Education.

Robert Seaver Duxstad, Oshkosh,
Wis.

B.B.A. '49, University of Wisconsin. Field of
Concentration: Curriculum and Instruction.

Ruth Sara Eisenklam, New York, N.Y.

B.A. *cum laude* '61, Brandeis University. Ma-
jor: Child Psychology. Minor: Psychology.
Thesis: Visual Exploration of Novel Stimuli
as a Reinforcer in the Learning of a Simple
Discrimination Task.

Sandra Jane Eliason, Minneapolis

B.A. '60, Luther College. Field of Concen-
tration: Curriculum and Instruction.

Carol Jean Emshoff, Chicago, Ill.

B.A. '59, Denison University. Major: Speech
and Theatre Arts. Minor: Scandinavian. Thesis:
A Study of the Portrayal of Juliet in William
Shakespeare's *Romeo and Juliet*.

Virginia Ann Erskine, St. Paul

B.A. *cum laude* '62, University of Minnesota.
Field of Concentration: Library Science.

Robert Olaf Fetvedt, Urbana, Ill.

B.S. with high distinction '50, University of
Minnesota. Field of Concentration: Library
Science.

Ronald Lee Fingerson, Iowa City,
Iowa

B.A. '61, State University of Iowa. Field of
Concentration: Library Science.

Aubrey Fisher, Brookings, S.D.

B.S. in Ed. '59, Northern State Teachers Col-
lege. Field of Concentration: Speech and The-
atre Arts.

Cecil Edmund Frank, Bloomington

B.S. '50, Hamline University. Field of Con-
centration: Educational Administration.

Lewis Ronald French, Binghamton,
N.Y.

B.A. '59, Hamilton College. Field of Concen-
tration: Psychology.

Margaret Tenold Georgas, Minne-
apolis

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

Marilyn Elizabeth Gometz, Wethers-
field, Conn.

B.A. '60, Brown University. Major: Child
Psychology. Minor: Psychology. Thesis: A De-
velopmental Study of Sucking Behavior in
the Human Neonate.

Gloria Ann Goodale, St. Paul

B.A. '62, Hamline University. Field of Con-
centration: Library Science.

Stanley L. Graham, Minneapolis

B.A. '54, Monmouth College. Field of Con-
centration: Economics.

Dorothy Marie Green, St. Paul

B.S. '32, University of Minnesota. Field of
Concentration: Library Science.

Frank Louis Greenagel, Edina

B.A. *cum laude* '61, University of Minnesota.
Major: Speech and Theatre Arts. Minor:
Journalism. Thesis: The Structures and Per-
spectives of Argument: An Inquiry into Rhe-
torical Traditions.

Alyce Marie Gross, Minneapolis

B.S. '36, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Alida Marie Gulsvig, Evansville

B.S. '55, Concordia College. Field of Concentration: Home Economics Education.

Nancy Eleanor Gustafson, Eau Claire, Wis.

B.A. *cum laude* '61, University of Minnesota. Field of Concentration: Library Science.

Clair Robert Haberman, North St. Paul

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

Edward Joseph Haley, Wayzata

B. of Educ. with honors '38, Mankato State College. Field of Concentration: Educational Psychology.

Fred William Hallberg, St. Paul

B.A. '58, University of Minnesota. Major: Philosophy. Minor: Psychology. Thesis: The Ground, Validity, and Content of C. I. Lewis's Theory of Value.

Dale Frank Halvorson, Duluth

B.S. '61, University of Minnesota. Field of Concentration: Physical Education.

Eileen Thea Hamelberg, Minneapolis

B.A. *cum laude* '61, University of Minnesota. Field of Concentration: Library Science.

Roger Gordon Hamilton, Moorhead

B.A. '37, Oberlin College. Field of Concentration: American Studies.

Lowell Eugene Hammer, Anoka

B.S. '61, University of Minnesota. Field of Concentration: Educational Administration.

James Carl Hammers, Chaska

B.A. '60, St. John's University. Field of Concentration: German.

Robert Sterling Hardwick, York, Pa.

B.S. '59, Nyack Missionary College. Major: Anthropology. Minor: Sociology. Thesis: Nativism in New Guinea: A Comparative Analysis of Some Revitalization Movements.

Lauren Harris, Chicago, Ill.

B.S. '61, University of Illinois. Major: Child Psychology. Minor: Psychology. Thesis: The Effects of Relative Novelty on Children's Choice Behavior.

Frederic Lee Harwood, Columbia Heights

B.A. '61, College of St. Thomas. Field of Concentration: Curriculum and Instruction.

David Merrill Haugen, Osage, Iowa

B.A. '60, Luther College. Major: Speech Pathology. Minor: Psychology. Thesis: Stuttering Frequency and Adaptation as a Function of Variations in Audience Size.

Eugene Arnold Haugen, Hopkins

B.S. '56, Mankato State College. Field of Concentration: Curriculum and Instruction.

Richard Thomas Hemming, St. Paul

B.A. *cum laude* '60, University of Minnesota. Major: Library Science. Minor: Political Science. Thesis: A Study of Faculty Members in Library Schools in the United States Not Accredited by the American Library Association.

Floyd Lee Henderson, Muskogee, Okla.

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

Rosanne C. Hendrickson, McGregor

B.S. '55, College of St. Benedict. Field of Concentration: Curriculum and Instruction.

Karen Matison Hess, Austin

B.S. with high distinction '61, B.A. *magna cum laude* '61, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Nancy Watrud Hoium, Minneapolis

B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Frank J. Huelskamp, Minneapolis

B.S. '54, Mankato State College. Field of Concentration: Physical Education.

Ronald Lee Hybertson, Centerville, S.D.

B.A. *cum laude* '61, Augustana College. Field of Concentration: Zoology.

Andrew S. Jackson, Sheboygan, Wis.

B.S. '61, St. Cloud State College. Field of Concentration: Physical Education.

Arloene Westling James, Bemidji

B.S. '37, University of Minnesota. Field of Concentration: Art Education.

Maurice Theodore Jensen, South St. Paul

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

Gerald William Johnson, St. Paul

B.A. *magna cum laude* '61, College of St. Thomas. Field of Concentration: Mathematics.

Marie Amelia Johnson, Portland, Ore.

B.A. '60, University of Oregon. Field of Concentration: Psychology.

Robert Lee Johnson, Minneapolis

B.S. '56, University of Minnesota. Field of Concentration: Physical Education.

Roger Erling Johnson, Minneapolis

B.S. '60, University of Minnesota. Field of Concentration: Educational Administration.

Linda Carolynn Jones, Grinnell, Iowa

B.S. in Educ. '62, Northwest Missouri State College. Field of Concentration: Library Science.

Jacquelyn A. Kitzmiller, Minneapolis

B.A. with high honors '58, University of Cincinnati. Field of Concentration: Library Science.

Thomas Raymond Kleppe, Minneapolis

B.S. '61, University of Minnesota. Field of Concentration: Educational Administration.

Pearl Griffin Kline, Williston, N.D.

B.A. '22, University of North Dakota. Field of Concentration: Educational Psychology.

Edward Marcel Kohler, St. Paul

B.A. '53, St. Paul Seminary. Field of Concentration: Education.

Henry Robert Konrad, Winnipeg, Manitoba, Canada

B.A. '58, University of Western Ontario. Field of Concentration: History.

Edward Allan Kussman, Hopkins

B.A. '51, Hamline University. Field of Concentration: Educational Administration.

Ram Labhaya Lakhina, Delhi, India

B.A. (Hons.) '59, University of Delhi (India). Field of Concentration: Economics.

Carl Junior Larson, Elbow Lake

B.S. '49, B.A. '50, Moorhead State College. Field of Concentration: Educational Administration.

Irving Wilbur Larson, Faribault

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

Lance Jerome Leipold, Minneapolis

B.A. '62, University of Minnesota. Field of Concentration: Library Science.

Gerald Griffith Line, St. Paul

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

Rodney Orlando Logelin, Minneapolis

B.S. '62, University of Minnesota. Field of Concentration: Industrial Education.

Dayton Grant Lovelien, Whitehall, Wis.

B.A. '53, St. Olaf College. Field of Concentration: Educational Administration.

June Lillian Lowry, Plainfield, N.J.

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

Frederick Charles Lynden, Edina

B.A. '60, Stanford University. Field of Concentration: Library Science.

Michael Jerry Lyons, St. Paul

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

Harry Lester Machin, Jr., Wamego, Kan.

B.A. *cum laude* '58, University of Minnesota. Major: Philosophy. Minor: Political Science. Thesis: Cornford's Exposition of the Criticisms of Forms in the *Parmenides*.

David Edward MacLean, Red Wing

B.A. '60, Coe College. Major: Child Psychology. Minor: Psychology. Thesis: Associative Clustering as a Function of Word List Repetition and Verbal Association Strength.

Zarina Violet Manawwar, Lucknow, India

B.A. '60, University of Lucknow (India). Field of Concentration: English.

Gerald Gordon Mansergh, St. Paul

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

Ronald Jerome Matros, Minneapolis

B.A. *cum laude* '61, University of Minnesota. Major: Geography. Minor: Sociology. Thesis: Geography and the Aesthetic Landscape.

John Francis McLaughlin, Paynesville

B.A. '55, St. John's University. Field of Concentration: History.

Gerald Justin Meyer, Ferguson, Mo.

B.S. *cum laude* '62, St. Louis University. Field of Concentration: English.

Harris Edgar Miller, Duluth

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

James Byard Miller, Granite Falls

B.S. '57, Concordia College. Field of Concentration: Curriculum and Instruction.

Richard Alvin Morrow, Minneapolis

B.A. *cum laude* '61, Northwestern College. Field of Concentration: Speech and Theatre Arts.

Marianne Marek Moses, Mason City, Iowa

B.A. '50, College of St. Teresa. Field of Concentration: Library Science.

Sidney B. Nelson, Cambridge

B.A. *cum laude* '61, University of Minnesota. Field of Concentration: History.

Arnold William Ness, Minneapolis

B.S. with distinction '59, University of Minnesota. Field of Concentration: Music Education.

Nancy Lynn Nikkel, Denver, Colo.

B.S. with distinction '62, Colorado State University. Major: Child Psychology. Minor: Psychology. Thesis: Effects of Mediated Associations in Paired-Associate Learning of Children.

Charles Miller Nolte, Wayzata

B.A. with honors '46, Yale University. Major: Speech and Theatre Arts. Minor: Scandinavian. Thesis: Alexander's Death.

Ruby Adeline Okerstrom, Minneapolis

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

Lorraine Eleanor Olson, Duluth

B.S. *cum laude* '54, University of Minnesota. Field of Concentration: Educational Psychology.

Westley Gould Olson, Minneapolis

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

Elliott Perovich, Anoka

B.S. '54, University of Minnesota. Field of Concentration: Educational Administration.

David William Peterson, Cloquet

B.A. '60, University of Minnesota. Field of Concentration: Educational Psychology.

Harvey Goertzen Plett, Steinbach, Manitoba, Canada

B.A. '59, Goshen College. Field of Concentration: Education.

Jacob John Polta, Willmar

B.A. '50, St. John's University. Field of Concentration: Curriculum and Instruction.

Carol Joyce Eyberg Pomroy, Minneapolis

B.S. *magna cum laude* '48, B.S. '57, University of Minnesota. Field of Concentration: Educational Psychology.

Alice Mary Preston, Eau Claire, Wis.

B. of Ed. '32, Wisconsin State College (Eau Claire). Field of Concentration: Curriculum and Instruction.

Alvin Harold Price, St. Paul

B.S. '60, Brigham Young University. Major: Child Psychology. Minor: Psychology. Thesis: Orienting Responses in Infants as a Function of Variations in the Locus of Stimulus Presentation.

Beryl Avis Radin, Aberdeen, S.D.

B.A. '58, Antioch College. Field of Concentration: American Studies.

Ramezan Ali Rashidi, Gorgan, Iran

Diploma '60, Teheran University (Iran). Field of Concentration: Economics.

Khosrow Riggi, Tehran, Iran

B.A. '60, University of Minnesota. Field of Concentration: Political Science.

Clarence W. Roberts, Jr., Crystal Lake, Iowa

B.A. '50, Macalester College. Field of Concentration: Educational Administration.

Thomas Edwin Roloff, Balaton

B.A. '59, Hamline University. Field of Concentration: Educational Psychology.

Mary Anna Eckberg Rosekrans, Minneapolis

B.A. '62, University of Minnesota. Field of Concentration: Child Psychology.

James Nelson Rosse, Minneapolis

B.S. in Econ. with high distinction '61, University of Minnesota. Field of Concentration: Economics.

Anne Dore Russell, Minneapolis

Graduate '51, Free University of Berlin (Germany). Field of Concentration: German.

LeRoy Edward Scheffler, Jordan

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

Alvin Christian Schindel, Saskatoon, Saskatchewan, Canada

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

Mary Helen Schmidt, Minneapolis

B.Mus. '60, MacPhail College of Music; B.A. '62, University of Minnesota. Field of Concentration: Music.

Leanne Audrey Schmirler, Minneapolis

B.A. *cum laude* '62, University of Minnesota. Field of Concentration: Library Science.

Wallace Oliver Selleseth, Herman

B.S. '56, Moorhead State College. Field of Concentration: Educational Administration.

Jean Lenore Thurber Sells, Burwell, Neb.

B.A. with high distinction '61, Nebraska Wesleyan University. Field of Concentration: Mathematics.

Dennis Michael Shanley, St. Paul

B.A. *cum laude* '61, University of Minnesota. Field of Concentration: Library Science.

William Bud Silverman, Minneapolis

B.A. '61, University of Minnesota. Major: Sociology. Minor: Political Science. Thesis: Some Comments on the Protestant Ethic.

Bonnie Lucille Skelton, Lamberton

B.S. '58, Mankato State College. Field of Concentration: Curriculum and Instruction.

Elmer Carsten Slostad, Preston

B.A. '49, St. Olaf College. Field of Concentration: Educational Administration.

Paul Oscar Sontag, Winona

B.A. '60, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Multiplicative Integrals in a Banach Space.

Kathryn Stuart Sparck, San Diego, Calif.

B.A. with high honors '60, San Diego State College. Field of Concentration: Library Science.

Gerald Joseph Springer, Owatonna

B.S. '52, Mankato State College. Field of Concentration: Curriculum and Instruction.

Wichit Srisa-an, Dhonburi, Thailand

B.A. '59, B. of Ed. '61, Chulalongkorn University (Thailand). Field of Concentration: Educational Administration.

Koson Srisang, Mahasarakarm, Thailand

B.Ed.(Hons.) '61, College of Education at Patumwan (Thailand). Field of Concentration: Educational Administration.

Vidya Sagar Taneja, Jullundur City, India

B.A. '50, M.A. '52, Doaba College (India). Major: Statistics. Minor: Mathematics. Thesis: A Surveillance Model: Two Machine Case.

James W. Therkelsen, Minneapolis

B.A. '49, University of Minnesota. Field of Concentration: American Studies.

Gerald William Thielbar, St. Paul

B.A. *cum laude* '61, Seattle Pacific College. Major: Sociology. Minor: Anthropology. Thesis: The Socialization of Social Scientists: A Study of Identity Transformation.

Theodore Calvin Thomas, Washburn, Wis.

B.S. '50, Wisconsin State College (Superior). Field of Concentration: Curriculum and Instruction.

James Erick Tormoen, Minneapolis
B.S. with distinction '57, University of Minnesota. Field of Concentration: Educational Psychology.

Mary Anne Videen, Roseville
B.A. '61, Carleton College. Field of Concentration: Educational Psychology.

Mildred Eunice Walters, Bloomington
B.A. '53, Marycrest College. Field of Concentration: Curriculum and Instruction.

Chia-Yin Wang, Taipei, Taiwan, China
B.A. in Law '57, National Taiwan University. Field of Concentration: Area Studies: Southeast Asia.

Ardell Henrietta Wantoch, St. Paul
B.S. '38, University of Minnesota. Field of Concentration: Home Economics Education.

Dorothy Ruth Warrick, Elmhurst, Ill.
B.A. '61, Washington University. Major: Sociology. Minor: Psychology. Thesis: A Sociological Study of Motive in the Detective Story 1841-1955.

Dorothy Bouchard Welch, Hopkins
B.S. with distinction '58, University of Minnesota. Field of Concentration: Education.

Robert Bowen Wellisch, St. Paul
B.A. *summa cum laude* '62, College of St. Thomas. Field of Concentration: English.

Sybil Londeen Wersell, Edina
B.A. '37, Gustavus Adolphus College. Field of Concentration: Educational Psychology.

David Algot Wicklund, Minneapolis
B.A. '60, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: The Effects of Associative Strength and Type of Response Hierarchy on Paired-Associate Learning.

Carroll William Wickstrom, Palisade
B.S. '58, University of Minnesota. Field of Concentration: Industrial Education.

Allan Celso Yater, Minneapolis
B.A. '57, College of St. Thomas. Field of Concentration: Psychology.

Robert Geil Zich, Omaha, Neb.
B.A. '60, University of Omaha. Field of Concentration: Library Science.

Master of Arts in Public Administration

Francis Enoch Peichel, Cumberland, Wis.

B.S. '59, Wisconsin State College (River Falls). Field of Concentration: Public Administration.

Master of Business Administration

Jack L. Caldwell, Minneapolis
B.B.A. '47, University of Minnesota. Field of Concentration: Business Administration.

Jay Dee Yearous, Minneapolis
B.S.B.A. '51, Drake University. Field of Concentration: Business Administration.

Master of Fine Arts

Willard Erwin Misfeldt, Aitkin

B.S. *cum laude* '52, University of Minnesota. Major: Art. Minor: English. Thesis: Landscape Painting in the Twentieth Century: An Interpretation.

Master of Science

Hiomichi Akiyama, Numazu City,
Japan

B.A. '61, International Christian University.
Field of Concentration: Physical Chemistry.

Murtatha Kamal Al-Hakim, Baghdad,
Iraq

B.Sc. in Agric. '56, University of Baghdad.
Field of Concentration: Dairy Husbandry.

Stuart Sheldon Antman, Rockville
Center, N.Y.

B.S. '61, Rensselaer Polytechnic Institute.
Major: Mechanics and Materials. Minor:
Mathematics. Thesis: Stability of Forced Mo-
tion of Circular Arcs.

Andrews Asare-Nyako, Adukrom,
Ghana

B.Sc. '58, B.Sc. '59, University College of
Ghana. Major: Plant Pathology. Minor: Ge-
netics. Thesis: Etiology of the Northern Leaf
Blight of Corn.

Marilyn May Barbour, La Habra,
Calif.

B.S. '59, University of California. Field of
Concentration: Public Health.

Thomas Walter Bastien, Minneapolis

B.A. '59, University of Minnesota. Major:
Geology. Minor: Mineral Engineering. Thesis:
Geology of the Tertiary Volcanic Rocks of the
Jones Mountains, Antarctica.

Robert Milton Blomgren, Seattle,
Wash.

B.S. *magna cum laude* '60, North Park Col-
lege. Field of Concentration: Mathematics.

Edward Bonnie-Baffoe, Kumasi,
Ghana

B.S. '60, Cornell University. Major: Soil Sci-
ence. Minor: Agricultural Plant Physiology.
Thesis: Compaction and Nutrient Uptake.

Fredric Lewis Boos, Jr., Chico, Calif.

B.Phys. with distinction '50, University of
Minnesota. Major: Physics. Minor: Mathe-
matics. Thesis: Distorted Wave Approxima-
tion for Electron Scattering.

Patrick Joseph Breen, Fairmont

B.S. '60, College of St. Thomas. Major: Agri-
cultural Plant Physiology. Minor: Agricultural
Biochemistry. Thesis: The Absorption and
Translocation of Cu^{64} by *Phaseolus Vulgaris*.

Ying Hsiueh Chen, Taipei, Taiwan,
China

B.S. '61, National Taiwan University. Major:
Organic Chemistry. Minor: Agricultural Bio-
chemistry. Thesis: The Oxidation of Indoles.

Robert Edward Dahlin, St. Paul

B. of App. Math. '60, University of Minne-
sota. Field of Concentration: Mathematics.

Jean Marie Daly, Belle Plaine

B.S. '61, College of St. Catherine. Field of
Concentration: Public Health.

John Alden Davidson, Lakewood,
Ohio

B.S. in Chem. '61, Carnegie Institute of Tech-
nology. Major: Organic Chemistry. Minor:
Physical Chemistry. Thesis: The Kinetics of
Rearrangement of Some Cyclobutylmethyl Or-
ganometallics.

Raymond Alan Doughty, Dayton,
Ohio

B.S. '61, Purdue University. Major: Organic
Chemistry. Minor: Inorganic Chemistry. The-
sis: Synthesis and Rearrangement of Some
Cyclobutylmethyl Organometallics.

Robert William Erickson, Plummer

B.S. '58, University of Minnesota. Major:
Forestry. Minor: Civil Engineering. Thesis:
The Effect of a Cationic Surfactant on the
Permeability of Wood to Water.

Lidia K. Filonowich, Minneapolis

B.S. '58, University of Chicago. Major: Physi-
ological Chemistry. Minor: Botany. Thesis: X-
Ray Fluorescence Analysis of Biological Ma-
terials.

Julian Myron Frankenberg, Urbana,
Ill.

B.S. with honors '61, University of Illinois.
Field of Concentration: Botany.

Charles Eugene Freidline, Fridley

B.A. '60, Westmont College. Major: Inor-
ganic Chemistry. Minor: Analytical Chemistry.
Thesis: Studies on the Hydroxo Complexes of
the Dimethyltin (IV) Ion in Alkaline Aque-
ous Solution.

Sidney Stewart Frissell, Jr., St. Paul

B.S. '60, University of Minnesota. Field of
Concentration: Forestry.

Susanne Carol Graham, Roberts, Wis.
B.S. with distinction '62, University of Minnesota. Major: Home Economics. Minor: Anthropology. Thesis: A Comparative Study of Family Power Structure Among Middle Eastern and American Students.

David Theodore Grimsrud, Bismarck, N.D.

B.A. '60, Concordia College. Major: Physics. Minor: Mathematics. Thesis: Measurements of the Velocity of Sound in Helium Four Gas at Low Temperatures.

Orville M. Gunderson, Montevideo

B.S. '54, University of Minnesota. Major: Soil Science. Minor: Agronomy. Thesis: Zinc Investigations on Some Calcareous Soils of Minnesota.

Edgar Ethelbert Hanna, Jr., Anniston, Ala.

B.S. '59, Tuskegee Institute. Major: Microbiology. Minor: Agricultural Biochemistry. Thesis: Studies on Colloidal Carbon Clearance by the Reticuloendothelial System in the Rabbit.

John Thomas Head, O'Neill, Neb.

B.A. '60, Creighton University. Field of Concentration: Inorganic Chemistry.

Prabhakar Manjunath Honavar, Bombay, India

B.Sc. '53, University of Bombay. Major: Agricultural Biochemistry. Minor: Dairy Industries. Thesis: Purification and Properties of the Hemagglutinins of *Phaseolus Vulgaris*.

Zahid Hussain, Pakistan

B.A. '45, University of the Panjab (Pakistan). Major: Business Administration. Minor: History. Thesis: Federal Regulation of the Motor-Trucking Industry with Special Reference to Problems of Entry.

Stuart Lee Jacobson, Minneapolis

B.C.E. '57, Cornell University. Major: Biophysics. Thesis: The Response of *Dionaea Muscipula* (Venus' Flytrap) to Stimulation.

Roland Jens Jensen, St. Louis Park

B.S. '59, South Dakota State College. Field of Concentration: Business Administration.

Knud Eli Jorgensen, Aarhus, Denmark
B.Sc. '53, Royal Veterinary Agricultural University (Denmark). Major: Dairy Husbandry. Minor: Veterinary Bacteriology. Thesis: The Influence of Pulsation Rate Upon Milk Flow and Udder Health.

Peter Henry Kirwin, Tucson, Ariz.

B.A. '57, Dartmouth College. Major: Geology. Minor: Geophysics. Thesis: Subsurface Stratigraphy of the Upper Keweenawan Red Beds in Southeastern Minnesota.

John Bradford Lilja, Delano

B.S. '56, B.A. '56, Macalester College. Field of Concentration: Business Administration.

Judson Allison Lovingood, Minneapolis

B.S.E.E. '58, University of Alabama. Major: Mathematics. Minor: Electrical Engineering. Thesis: Polar Orbits of Satellites of an Oblate Planet.

Carol Ann McColm, Tucson, Ariz.

B.A. '61, University of Minnesota. Field of Concentration: Zoology.

Gene Darrell McKay, Minneapolis

B.S. in Pharm. '55, University of Minnesota. Major: Pharmaceutical Technology. Minor: Pharmacology. Thesis: Dissolution Rate as a Function of Particulate Shape.

Karen Elizabeth Moxness, International Falls

B.S. '60, College of St. Benedict. Major: Home Economics. Minor: Physiological Chemistry. Thesis: The Effect of Exercise on the Blood Glucose in Intact and Pancreatectomized Dogs.

Poedijono Nitisewojo, Bogor, Indonesia

Diploma '60, University of Indonesia. Major: Veterinary Physiology and Pharmacology. Minor: Agricultural Biochemistry. Thesis: The Effect of Penicillamine on the Distribution and Excretion of Lead, Arsenic and Mercury in Rats.

Robert Lee Norgren, Cloquet

B.S. '59, University of Minnesota. Major: Plant Pathology. Minor: Forestry. Thesis: Host Range, Life Cycle, and Factors Affecting Reproduction of *Aphelenchus Avenae* Bastien, 1865.

Laurence Elwood Nyquist, Minneapolis

B.A. *summa cum laude* '61, Macalester College. Field of Concentration: Physics.

James John Olson, Granite Falls

B.S. with distinction '61, University of Minnesota. Major: Geophysics. Minor: Mathematics. Thesis: A Study of Coastal Microseisms in Northern Alaska.

Joseph John Pavek, Waubun

B.S. with distinction '55, University of Minnesota. Major: Genetics. Minor: Plant Pathology. Thesis: The Inheritance of Seedling Reaction in Oats to Race 13A of *Puccinia Graminis Avenas* Erikss. and Henn.

Kenneth Wayne Pontinen, Gilbert

B.S. *summa cum laude* '57, Hamline University. Major: Physics. Minor: Mathematics. Thesis: A Study of the Modulation Pickup Effects in Electron Spin Resonance Experiments.

Glenn Myron Reynolds, Alexandria

B.Phys. '61, University of Minnesota. Field of Concentration: Physics.

Ardis Roberta Richards, Calgary, Alberta, Canada

B.S.(H.Ec.) '58, University of Manitoba. Major: Home Economics. Minor: Home Economics Education. Thesis: Effectiveness of Certain Home Cleaning Procedures on Twist Carpeting of Selected Fiber Content.

Charles Frederick Richards, Virginia

B.S. in Pharm. '61, University of Minnesota. Field of Concentration: Pharmaceutical Technology.

John Charles Saari, Austin

B.S. in Chem. '61, University of Oklahoma. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Degradation of S-(1,2-Dichlorovinyl)-L-Cysteine by *Escherichia Coli*.

Brian Bernard Sabo, Minneapolis

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

Mizra Abdul Samee, Lahore, Pakistan

B.A. '50, M.A. '52, Panjab University. Field of Concentration: Business Administration.

David Norman Samsky, Minneapolis

B.Phys. with distinction '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Radio Frequency Transition Section for a Polarized Proton Ion Source.

Philip Paul Schlangen, St. Cloud

B.A. '61, St. John's University. Major: Organic Chemistry. Minor: Agricultural Biochemistry. Thesis: The Cleavage of Certain Sulfones by the Grignard Reagent.

Bette Louise Seeland, Rochester

B.A. *magna cum laude* '60, University of Minnesota. Field of Concentration: Biostatistics.

Kathryn Louise Smith, Minneapolis

B.S. '46, University of Minnesota. Major: Veterinary Bacteriology. Minor: Agricultural Biochemistry. Thesis: Optimal Conditions for the Production of Staphylococcal Beta Hemolysin.

Kok-Phuang Tan, Singapore, Malaya

B.S. '60, Nanyang University. Field of Concentration: Physics.

Edgar Theodore Willems, Winnipeg, Manitoba, Canada

B.S.C.E. '58, University of North Dakota. Field of Concentration: Business Administration.

Elsie Louise Williams, Lake Shore, Md.

B.A. with honors '60, Goucher College. Field of Concentration: Botany.

Chee Tiong Yeow, Singapore, Malaya

B.Sc. '60, Nanyang University. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: The Study of the Alkaloids of *Chelidonium Majus*.

Hester Bateman Young, West Nyack, N.Y.

B.S.N. '58, Cornell University. Field of Concentration: Public Health.

Kathy Hwei Eng Yu, Taipei, Taiwan, China

B.S. in Agric. '57, Taiwan Provincial College of Agriculture. Major: Entomology. Minor: Zoology. Thesis: *In Vitro* Cultivation of Hemimetabolous Symbiotic Insect Tissues.

Master of Science in Chemical Engineering

Gabriel Jean Loizillon, Paris, France

Diploma '62, Central School of Arts and Manufactures (France). Major: Chemical Engineering. Minor: Business Administration. Thesis: The Condensation of Steam in Sub-cooled Water.

Master of Science in Civil Engineering

Narendra Kumar Bhatia, Amritsar,
India

B.A.(Hons.) '54, Panjab University; B.E. (Civil) '57, University of Bombay (India). Field of Concentration: Civil Engineering.

Lawrence Henry Breimhurst, St. Paul

B.S. '59, University of Minnesota. Field of Concentration: Civil Engineering.

Ervin Albert Quast, Green Isle

B.S. with distinction '62, University of Minnesota. Field of Concentration: Civil Engineering.

Kalimur Rahman, Dacca, Pakistan

B.Sc. '58, University of Dacca. Field of Concentration: Civil Engineering.

Kattegummula Pulla Reddy, Hyderabad, India

B.E.(Civil) '59, Osmania University. Field of Concentration: Civil Engineering.

Ronald Robert Rochon, Albert Lea

B.C.E. '58, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: A Theoretical Analysis and a Behavioral Examination of a Four Quadrant Hyperbolic-Paraboloid Configuration.

Master of Science in Dentistry

Richard Lowe Driggs, Salt Lake City,
Utah

B.S. '56, University of Utah; D.D.S. '60, University of Kansas City. Major: Dentistry. Minor: Pathology. Thesis: The Histochemical and Mitotic Response of the Human Gingiva to Controlled Trauma.

Paul Harold Jennison Krogh, Washington, D.C.

B.S. '56, Washington and Lee University; D.D.S. '60, University of North Carolina. Major: Dentistry. Minor: Pathology. Thesis: The Value of the Dental Roentgenogram as an Aid in the Diagnosis of Hyperparathyroidism.

Clyde Danforth Marlow, Clearwater,
Fla.

D.D.S. '58, University of Maryland. Major: Dentistry. Minor: Pathology. Thesis: Sensory Innervation of the Human Tongue.

Master of Science in Dermatology

Kenneth Herbert Neldner, Rochester

B.A. '49, M.D. '55, University of Minnesota; M.A. '51, University of Colorado. Major: Dermatology. Minor: Pathology. Thesis: The Role of Hydroxyproline in Scleroderma.

Master of Science in Electrical Engineering

Leo Francis Collins, Mineville, N.Y.

B.S.E.E. with honors '58, Michigan State University. Major: Electrical Engineering. Minor: Physics. Thesis: Noise in Tuned Transistor Amplifiers.

Howard Chi-Han Feng, China

B.Sc. '58, Cheng Kung University (China). Major: Electrical Engineering. Minor: Mathematics. Thesis: Theory of Production Processes for Secondary Electron.

Dennis Glendon Fisher, St. Paul

B.Phys. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Formation and Photoemissive Properties of Sodium Antimonide Thin Films.

William Albert Glasser, Minneapolis

B.S. with distinction '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Maxima Distribution Analyzer Utilizing Sampling Techniques.

Richard Elliot Hall, Minneapolis

B.S. with distinction '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Superhetrodyne Receiver for Short Microwave Pulses.

Jean-Michel Hardy, Mandelieu, France

Diploma '57, National School of Engineers Arts and Trades (France). Major: Electrical Engineering. Minor: Mathematics. Thesis: Analysis of a Stepper Motor Control System.

John David Holm, St. Paul

B.S. with distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Natural Spectrum of Polycrystalline Yttrium Iron Garnet as a Function of Density.

Calvin Lee Ransom, Marietta

B.S. '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A System for Studying High Speed Switching in Magnetic Materials.

Master of Science in Mechanical Engineering

Lawrence Lacy Ambs, South St. Paul

B.M.E. '60, University of Minnesota. Major: Mechanical Engineering. Minor: Physical Chemistry. Thesis: Reaction Rates in Fluorocarbon-Chlorine Trifluoride Flames.

Adishwar Kumar Jain, Delhi, India

B.E.(Mech.) '61, University of Delhi (India). Field of Concentration: Mechanical Engineering.

Olufemi Akintonde Lalude, Ibadan, Nigeria

B.S. with distinction '62, University of Minnesota. Field of Concentration: Mechanical Engineering.

Ronald Fred Mattson, Hibbing

B.M.E. '61, University of Minnesota. Field of Concentration: Mechanical Engineering.

David Walter Peterson, Norquay, Saskatchewan, Canada

B.Eng.(Mech.) '51, McGill University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Study of Engine Performance in Relation to the Free Profile of a Piston Ring.

Willard William Pulkrabek, St. Paul

B.S. with distinction '61, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Prandtl Number Measurements for Helium-Air Mixtures.

James Richard Tobias, Minneapolis

B.S. with distinction '62, University of Minnesota. Field of Concentration: Mechanical Engineering.

Edward George Zoerb, Minneapolis

B.M.E. '53, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Mechanical Amplifier Featuring an Oscillating Link Mechanism.

Master of Science in Medicine

Melvin Amund Amundsen, Chicago, Ill.

B.S. '55, M.D. '58, Northwestern University. Major: Medicine. Minor: Physiology. Thesis: Hypercoagulability Associated with Malignancy and the Postoperative State.

Johannes Bircher, Zurich, Switzerland

M.D. '58, University of Zurich. Major: Medicine. Minor: Physiology. Thesis: Intralimbal and Contramural Duodenal pH.

Jochen Otto Christian Eigler, Munich, Germany

M.D. '54, University of Heidelberg. Major: Medicine. Minor: Physiology. Thesis: Renal Distribution of Sodium and Potassium; Their Relationship to Urinary Osmolality in Normal, Potassium-Depleted, and Vitamin D-Intoxicated Rats.

Master of Science in Metallurgical Engineering

Theodore Balberyszski, Melbourne, Australia

B.S. '62, University of Minnesota. Major: Metallurgical Engineering. Minor: Mineral Engineering. Thesis: Flotation Characteristics of Artificial Sulfide Minerals.

Master of Science in Neurosurgery

David Norman Brown, Winnipeg, Manitoba, Canada

M.D. '57, University of Manitoba. Major: Neurosurgery. Minor: Pathology. Thesis: Intracranial Hemangiopericytoma: A Clinical and Pathologic Study.

Nicholas John Manno, Rockford, Ill.

B.S. '54, M.D. '58, Loyola University. Major: Neurosurgery. Minor: Basic Neurologic Sciences. Thesis: Methyl-Methacrylate Reinforcement of Arterial Walls: An Experimental Reappraisal of Neurosurgical Application.

Master of Science in Ophthalmology

William Duane Backer, Luverne

B.A. '52, B.S. '54, M.D. '58, University of Minnesota. Major: Ophthalmology. Minor: Biophysics. Thesis: Pupillary Response to Prisms and Fusional Movements.

Paul Garnett Belau, Rochester

B.S. '53, M.D. '57, University of Minnesota. Major: Ophthalmology. Minor: Biophysics. Thesis: Lamellar Keratoplasty with Insertion of an Intra-Corneal Lens: An Experimental Study.

Daniel W. Burke, Louisville, Ky.

B.A. '53, M.D. '57, University of Louisville. Major: Ophthalmology. Minor: Biophysics. Thesis: The Threshold of the Pupil and Visual Reaction to Light in the Peripheral Retina.

Thomas Jerome Miller, Crosby, N.D.

B.S. '55, University of Notre Dame; B.S. '57, University of North Dakota; M.D. '59, Marquette University. Major: Ophthalmology. Minor: Biophysics. Thesis: Stereoscopic Localization of After-Images in Asymmetric Convergence.

Roger William Neault, Rochester

B.S. '51, M.D. '55, University of Michigan. Major: Ophthalmology. Minor: Biophysics. Thesis: Intraocular Surgical Diathermy: An Experimental Study.

Master of Science in Pathology

William Bradford Carpenter, Rochester

M.D. '56, University of Alberta. Major: Pathology. Minor: Hematology. Thesis: Retroperitoneal Ganglioneuromas and Neurofibromas: A Clinical Pathological Study.

Master of Science in Pediatrics

James Emmett Wenzl, Greenleaf, Kan.

M.D. '59, Creighton University. Major: Pediatrics. Minor: Physiology. Thesis: The Radioisotope Renogram in Children.

Master of Science in Proctology

Redentor J. G. Pagtalunan, Rosario, Cavite, Philippines

M.D. '55, University of the Philippines. Major: Proctology. Minor: Pathology. Thesis: A Study of the Histopathology of Diminutive Polyps of the Colon and Rectum.

Master of Science in Psychiatry

Francis J. H. Tyce, Rochester

B.S. '47, M.D. '52, University of Durham. Major: Psychiatry. Minor: Basic Neurologic Sciences. Thesis: Factors Modifying Self Stimulation of the Brain in the Rat.

Master of Science in Radiology

Leonard Herbert Levitan, Bronx, N.Y.

B.S. '53, New York University; M.D. '57, Albany Medical College. Major: Radiology. Minor: Pathology. Thesis: The Mammogram Related to Gross and Microscopic Pathology in Breast Lesions.

Master of Science in Surgery

Edward Ambrose Allcock, Melbourne, Australia

B.D.S. '42, M.B. '49, ChB. '49, University of Manchester (England). Major: Surgery. Minor: Pathology. Thesis: The Effect of Recurrent Freezing of the Stomach on the Parietal Cell Population of the Gastric Mucosa.

Kasian Bhangnanda, Bangkok, Thailand

M.D. '55, University of Medical Sciences (Thailand). Major: Surgery. Minor: Pathology. Thesis: Cardiovascular Effects of Cobra Venom.

Robert Pierson Inlow, Shelbyville,
Ind.

B.A. '52, M.D. '56, Indiana University. Major: Surgery. Minor: Pathology. Thesis: The Clinical and Pathological Features of a Series of Large Resectable Gastric Cancers.

Brian John King, Cambridge, England

B.A. '54, Emmanuel College; M.B.B.Ch. '57, London Hospital Medical College; M.A. '59, Cambridge University. Major: Surgery. Minor: Pathology. Thesis: Experimental Limb Perfusion.

Richard Ells Larson, Minneapolis

M.D. '58, University of Manitoba. Major: Surgery. Minor: Pathology. Thesis: The Use of the Calf as an Experimental Animal for Intracardiac Surgery.

Flavio Vinicio Morales, Leon, Nicaragua

M.D. '56, National University of Nicaragua. Major: Surgery. Minor: Pathology. Thesis: Studies of Lethal Mechanism of Two Common Venoms and Effects of Treatment.

John Nelson Simons, Kansas City,
Kan.

B.A. '54, University of Kansas; M.D. '58, University of Pennsylvania. Major: Surgery. Minor: Pathology. Thesis: Tumors of the Submaxillary Gland: A Clinicopathological Study.

Edward Carraway Tyndall, Birmingham, Ala.

B.S. '52, M.D. '56, University of Alabama. Major: Surgery. Minor: Pathology. Thesis: Pelvic Recurrence of Carcinoma of the Rectum.

Master of Science in Urology

Panayotis P. Kelalis, Rochester

M.D. '57, University of Dublin. Major: Urology. Minor: Pathology. Thesis: Granulomatous Prostatitis.

Stephen Norman Rous, San Francisco, Calif.

B.A. '52, Amherst College; M.D. '56, New York University. Major: Urology. Minor: Pathology. Thesis: The Function of the Kidney During Development of Compensatory Hypertrophy: An Experimental Study.

Doctor of Philosophy

Joan Aldous, Manhattan, Kan.

B.S. with high honors '48, Kansas State University; M.A. '49, University of Texas. Major: Sociology. Minors: Child Psychology and Educational Psychology. Thesis: Family Continuity Patterns Over Three Generations: Content, Degree of Transmission, and Consequences. Major Adviser: Prof. R. L. Hill.

Peter Hayden Armacost, Minneapolis

B.A. '57, Denison University. Major: Psychology. Minor: Educational Psychology. Thesis: Conditions Affecting the Demonstration of Associatively Mediated Generalization. Major Advisers: Profs. J. J. Jenkins and Kenneth MacCorquodale.

John Miller Arnold, St. Paul

B.A. '58, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: An Embryological Study of the Squid *Loligo Pealii*. Major Adviser: Prof. N. T. Spratt, Jr.

James Michael Banovetz, Duluth

B.A. *cum laude* '59, M.A.P.A. '61, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: Governmental Cost Burdens and Service Benefits in Metropolitan Areas. Major Adviser: Prof. G. A. Warp.

John Hill Barcroft, Memphis, Tenn.

B.A. '59, Brown University; M.A. '60, University of Minnesota. Major: History. Minor: English. Thesis: Buckingham and the Central Administration, 1616-1628. Major Adviser: Prof. D. H. Willson.

Richard Webster Barsness, Evanston,
Ill.

B.S. with high distinction '57, M.A. '58, M.A.P.A. '60, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Maritime Development of San Pedro Bay, California, 1821-1921. Major Adviser: Prof. Herbert Heaton.

George Edward Becker, Jersey City,
N.J.

B.S. in Pharm. '56, Fordham University; M.S. '60, University of Minnesota. Major: Soil Science. Minor: Microbiology. Thesis: Studies with *Aspergillus Flavus* in Relation to Intermediates in Nitrification. Major Adviser: Prof. E. L. Schmidt.

John Alfred Beekman, Lacrosse, Wis.

B.A. '53, M.S. '57, State University of Iowa. Major: Mathematics. Minor: Statistics. Thesis: Solutions to Generalized Schroedinger Equations via Feynman Integrals Connected with Gaussian Markov Stochastic Processes. Major Adviser: Prof. R. H. Cameron.

William John Begue, Berwyn, Ill.

B.S. *summa cum laude* '53, College of St. Thomas; M.S. '60, University of Minnesota. Major: Microbiology. Minor: Agricultural Biochemistry. Thesis: Studies on the Growth Requirements of *Saccharomyces Cerevisiae* at Increased Temperatures of Incubation. Major Advisers: Drs. H. C. Lichstein and L. C. McLaren.

Norman Arthur Benson, Milwaukee,
Wis.

B.A. with distinction '53, San Jose State College; M.A. '55, San Francisco State College. Major: American Studies. Thesis: The Itinerant Dancing and Music Masters of Eighteenth Century America. Major Advisers: Profs. Johannes Riedel and M. C. Turpie.

John Wilson Bixler, Sauk City, Wis.

B.S. '59, Lakeland College. Major: Analytical Chemistry. Minors: Inorganic Chemistry and Physical Chemistry. Thesis: Chemical Stripping Analysis. Major Adviser: Prof. Stanley Bruckenstein.

Wanda Alexander Blockhus, Waco,
Tex.

B.B.A. '52, M.S. '54, Baylor University. Major: Education. Minor: Educational Psychology. Thesis: Creativity and Money Management Understandings. Major Adviser: Prof. R. G. Price.

Charles Louis Braun, Rapid City, S.D.

B.S. in Chem. with high honors '59, South Dakota School of Mines and Technology. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Dependence of Electronic Energy Transfer Efficiency on Exciting Wavelength. Major Adviser: Prof. Sanford Lipsky.

Richard Gene Burau, Fergus Falls

B.S. with distinction '56, M.S. '60, University of Minnesota. Major: Soil Science. Minor: Analytical Chemistry. Thesis: An Investigation of Soil Factors in Iron Deficiency Chlorosis of Soybeans. Major Adviser: Prof. J. M. MacGregor.

Leonard Francis Burkart, Milwaukie,
Ore.

B.S.For. '49, M.F. '50, University of Washington; M.S. '61, University of Minnesota. Major: Forestry. Minor: Organic Chemistry. Thesis: The Cooking Process XIV. The Action of Aqueous Solutions of Pure Sodium Hydro-sulfide on Aspen Wood. Major Adviser: Prof. R. L. Hossfeld.

Thomas Junior Burns, Phoenix, Ariz.

B.B.A. '48, University of Wisconsin; M.B.A. '57, University of Michigan. Major: Business Administration. Minor: Economics. Thesis: State University Budgets. Major Adviser: Prof. C. L. Nelson.

Richard Howard Carlson, Minneapolis

B.S. '52, University of Minnesota; M.Ed. '54, University of Hawaii. Major: Psychology. Minor: Educational Psychology. Thesis: An Expectancy Theory of Cue Selection and an Experimental Test of Some Derived Hypotheses. Major Adviser: Prof. W. A. Russell.

Thomas Arnold Chamberlin, St. Paul

B.S. '59, Hamline University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Effect of Alpha, Beta Unsaturated and Electronegative Groups on Deoxymercuration. Major Adviser: Prof. M. M. Kreevoy.

Muhammad Yousaf Chaudhri, Lyall-
pur, Pakistan

B.Sc.(Agric.) '49, M.Sc.(Agric.) '58, University of Punjab (India). Major: Genetics. Minor: Plant Pathology. Thesis: Genetic Variance for Yield and Its Components in a Synthetic Population of Corn (*Zea Mays*). Major Advisers: Profs. W. M. Myers and J. C. Sentz.

Peter Clarke, St. Paul

B.A. '59, University of Washington; M.A. '61, University of Minnesota. Major: Journalism. Minor: Psychology. Thesis: An Experiment to Increase the Audience for Educational Television. Major Adviser: Prof. R. E. Carter, Jr.

Edward John Cushing, Steelville,
Mo.

B.A. with honors '54, Washington University.
Major: Geology. Minor: Botany. Thesis: Late-
Wisconsin Pollen Stratigraphy in East-Central
Minnesota. Major Adviser: Prof. H. E. Wright,
Jr.

John Patrick Delaney, St. Paul

B.S. '53, M.D. '55, University of Minnesota.
Major: Physiology. Minor: Physiological Chem-
istry. Thesis: Studies on Gastric Circulation.
Major Adviser: Dr. Eugene Grim.

Peter Delvigs, East Cleveland, Ohio

B.A. *summa cum laude* '59, Western Reserve
University. Major: Organic Chemistry. Minor:
Inorganic Chemistry. Thesis: Syntheses and
Reactions of Linear Polynuclear Phenazines.
Major Adviser: Prof. Edward Leete.

Josiah Steiner Dilley, Athens, Ohio

B.F.A. with high honors '47, Ohio University;
M.Mus. '49, University of Michigan. Major:
Educational Psychology. Minor: Psychology.
Thesis: Correlates of "Rational" Decision Mak-
ing Among High School Seniors. Major Ad-
viser: Prof. W. E. Dugan.

Edward Joseph Dudley, St. Paul

B.A. *cum laude* '49, M.A. '51, University of
Minnesota. Major: Spanish. Minor: English.
Thesis: Structure and Meaning in the Novel
of Juan Rodriguez: *Servo Libre De Amor*.
Major Adviser: Prof. W. T. Pattison.

John Frederick Eichenberger, Traf-
ford, Pa.

B.Sc. *cum laude* '52, University of Pittsburgh;
M.Sc. (Soc. Admin.) '54, Western Reserve
University. Major: Social Work. Minor: Public
Health. Thesis: An Epidemiological Study of
Juvenile Delinquency in Minnesota. Major Ad-
viser: Prof. J. C. Kidneigh.

John David Eliassen, Johnson City,
Tenn.

B.S.E. '57, Princeton University. Major:
Chemical Engineering. Minor: Mathematics.
Thesis: Interfacial Mechanics. Major Adviser:
Prof. L. E. Scriven.

James Richard Erickson, Minneapolis

B.A. '58, University of Minnesota. Major: Psy-
chology. Minor: Biostatistics. Thesis: The Ef-
fects of Various Cost and Reinforcement
Functions on Discrimination Learning. Major
Adviser: Prof. D. L. LaBerge.

Alan Robert Friedman, St. Paul

B.S. '59, University of California. Major: Or-
ganic Chemistry. Minor: Pharmaceutical
Chemistry. Thesis: The Biosynthesis of the
Pyridine Ring of Anabasine. Major Adviser:
Prof. Edward Leete.

John George Geier, Coon Rapids

B.A. *cum laude* '58, Northwestern College;
M.A. '60, University of Minnesota. Major:
Speech and Theatre Arts. Minor: Political
Science. Thesis: A Descriptive Analysis of an
Interaction Pattern Resulting in Leadership
Emergence in Leaderless Group Discussion.
Major Adviser: Prof. E. G. Bormann.

Robert Walton Gore, Newark, Del.

B.ChE. '59, University of Delaware; M.S. '62,
University of Minnesota. Major: Chemical En-
gineering. Minor: Mechanical Engineering.
Thesis: Backflows in Rotating Fluids Moving
Axially Through Expanding Cross Sections.
Major Adviser: Prof. W. E. Ranz.

Alan Taylor Gorton, Pelican Rapids

B.S. with distinction '59, M.S. Met.E. '61, Uni-
versity of Minnesota. Major: Metallurgical En-
gineering. Minor: Physical Chemistry. Thesis:
The Isothermal Transformation of Wustite
Below 570° C. Major Advisers: Profs. Gust
Bitsianes and T. L. Joseph.

Bobby Gene Gower, West Frankfort,
Ill.

B.A. '58, M.A. '60, Southern Illinois Uni-
versity. Major: Organic Chemistry. Minor: Inor-
ganic Chemistry. Thesis: Syntheses and Re-
actions of 3-Aminomethylindoles: Biosyntheses
of Gramine and 5-Fluorogramine. Major Ad-
viser: Prof. Edward Leete.

Marian Dekker Hall, Minneapolis

B.A. '37, Calvin College; M.A. '38, University
of Michigan; M.A. '60, University of Minne-
sota. Major: Child Psychology. Minor: Edu-
cational Psychology. Thesis: Parent-Child In-
teractions in Latency-Age Boys with Learning
Inhibitions. Major Adviser: Prof. B. K. Rue-
bush.

Peter Mandel Hall, Berkeley, Calif.

B.A. '57, M.S.W. '59, University of California.
Major: Sociology. Minor: Social Work. Thesis:
The Self-Conception of Juvenile Delinquents:
A Symbolic Interactionist Approach. Major Ad-
viser: Prof. A. M. Rose.

Laxmikant Rangrao Hirekerur, India

B.Sc. (Agric.) with distinction '52, Karnatak University (India); M.S. '60, University of Minnesota. Major: Soil Science. Minor: Agricultural Biochemistry. Thesis: Clay Mineralogy and Release and Fixation of Potassium in Some Soil Series of Minnesota. Major Adviser: Prof. R. H. Rust.

Paul Joseph Hoffmann, Northridge,
Calif.

B.A. '50, University of Minnesota. Major: Political Science. Minor: History. Thesis: Party Responsibility and Political Experience: An Inquiry into the Attitudes of American Political Leaders. Major Adviser: Prof. L. M. Short.

Jack Stewart Horricks, Lethbridge,
Alberta, Canada

B.S. in Agric. '50, M.S. '52, University of Alberta. Major: Plant Pathology. Minor: Botany. Thesis: The Influence of Crop Residues on Soil Microorganisms in Relation to Plant Growth. Major Adviser: Prof. Thor Kommedahl.

Eugene Ivan Isaacson, Austin, Tex.

B.S. '56, University of Minnesota. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Studies on the Synthesis of Potential Parasympathomimetic and Parasympatholytic Agents. Major Adviser: Prof. Ole Gisvold.

Charles Douglas Johnson, Anoka

B.Chem. '58, University of Minnesota. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Shock Waves in Chemical Kinetics. I. The Use of Reflected Shock Waves. II. The Dissociation of Molecular Fluorine. Major Adviser: Prof. Doyle Britton.

James Arthur Johnson, Gheen

B.A. *cum laude* '58, M.A. '60, University of Minnesota. Major: Economics. Minors: Business Administration and Political Science. Thesis: The Welfare Effects of the Minnesota Prohibition on the Sale of Colored Margarines. Major Adviser: Prof. O. H. Brownlee.

William Wayne Johnson, Minneapolis

B.S. with distinction '57, M.S. '59, University of Minnesota. Major: Zoology. Minors: Biostatistics and Botany. Thesis: The Effect of Selection for DDT Resistance on the Frequency and Allelism of Recessive Lethal Factors in Populations of *Drosophila Melanogaster*. Major Adviser: Prof. D. J. Merrell.

David Edwards Jones, Pontywaun,
Great Britain

B.A. '49, M.A. '53, University College of South Wales. Major: English. Minor: Classics. Thesis: Shakespeare's Apprenticeship in Comedy. Major Adviser: Prof. Huntington Brown.

Thomas Hubbard Jones, St. Paul

B.A. '58, Augustana College. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: An Experimental Study of the Phosphorescence of Polyatomic Molecules in Viscous Media. Major Adviser: Prof. Robert Livingston.

Hirschel Kasper, Providence, R.I.

B.A. '56, Boston University; M.A. '59, University of Minnesota. Major: Economics. Minor: Political Science. Thesis: The Relation Between the Duration of Unemployment and the Change in Asking Wage. Major Adviser: Prof. J. G. Turnbull.

Philip Noel Knorr, Modesto, Calif.

B.S. with honors '38, University of California; M.F. '40, Duke University. Major: Forestry. Minor: Business Administration. Thesis: The Effect of Flight Orientation upon the Interpretability of Vertical Aerial Photographs of Forest Stands. Major Adviser: Prof. M. P. Meyer.

L. Jerome Krovetz, Gainesville, Fla.

B.A. '50, Cornell University; M.D. '54, State University of New York. Major: Physiology. Minor: Mathematics. Thesis: The Effect of Vessel Branching on Fluid Flow. Major Adviser: Dr. J. A. Johnson.

Omer Richard Larson, Pencer

B.A. with honors '54, University of North Dakota; M.S. '60, University of Minnesota. Major: Zoology. Minor: Entomology. Thesis: A Study of the Larval Stages of a Strigeoid Fluke and the Pathological Conditions Incurred by the Fish Host, *Ictalurus Melas* (Rafinesque). Major Adviser: Prof. F. G. Wallace.

David Leisle, Morse, Saskatchewan,
Canada

B.S.A. with distinction '56, M.S. '58, University of Saskatchewan. Major: Genetics. Minor: Plant Pathology. Thesis: The Inheritance of Seedling Stem Rust Reaction to Races 56 and 15B in a Frontana X Kenya 58-Newthatch Derivative and Its Parents. Major Adviser: Prof. E. R. Ausemus.

Edwin Mark Masters, Swampscott,
Mass.

B.A. '52, Harvard University; M.A. '54, Indiana University. Major: Anatomy. Minor: Microbiology. Thesis: Reactions of the Brain to Autogenous Lymphoid Grafts. Major Adviser: Dr. R. A. Good.

Abelardo Mena, Minneapolis

M.D. '52, University of the Southeast (Mexico). Major: Psychiatry. Minor: Psychology. Thesis: Evaluation of Regressive Electroshock Treatments in Chronic Paranoid Schizophrenics. Major Adviser: Dr. D. W. Hastings.

William Merrill, Jr., St. Paul

B.S. in For. *magna cum laude* '58, University of New Hampshire; M.S. '61, University of Minnesota. Major: Plant Pathology. Minor: Forestry. Thesis: The Physical and Chemical Effects of Common Mold Fungi on Wood Fiberboard. Major Adviser: Prof. D. W. French.

Paul William Mielke, Jr., St. Paul

B.A. '53, University of Minnesota; M.A. '58, University of Arizona. Major: Biostatistics. Minor: Public Health. Thesis: Variance Component Estimation and Precision for the General Two-Way Classification. Major Adviser: Dr. R. B. McHugh.

Robert Mullin, Bertha

B.S. with high distinction '57, M.S. '59, University of Minnesota. Major: Horticulture. Minor: Genetics. Thesis: Breeding Behavior of F₁ and Inbred Clones of Irish Potato (*Solanum Tuberosum* L.) Selected for Tuber Appearance and Yield. Major Adviser: Prof. T. M. Currence.

Allan Nylin Nash, Tracy

B.B.A. '57, M.A. '59, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: Development and Evaluation of a Strong Vocational Interest Blank Key for Differentiating Between Potentially Effective and Less Effective Business Managers. Major Advisers: Profs. M. D. Dunnette and H. G. Heneman, Jr.

Wilfred Herding Nelson, Chicago, Ill.

B.S. '59, M.S. '59, University of Chicago. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Studies of Selected Poly-anions in Aqueous Solution: The Hexaniobate and the Hexatantalate. Major Adviser: Prof. R. S. Tobias.

Jerome LeRoy Novotny, St. Paul

B.S. with distinction '56, M.S.M.E. '58, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Interferometric Study of Laminar Convection in a Vertical Parallel Plate Channel with Uniform Heat Sources in the Fluid. Major Adviser: Prof. E. R. G. Eckert.

Arland Eugene Oleson, Claremont

B. of Chem. '57, University of Minnesota. Major: Physiological Chemistry. Minor: Microbiology. Thesis: A Newly-Formed Deoxyribonuclease From Cells of *Escherichia Coli* Infected with T2 Bacteriophage. Major Adviser: Dr. C. P. Barnum.

Benjamin Willard Papermaster, Fargo,
N.D.

B.A. '56, Harvard University; M.S. '63, University of Minnesota. Major: Microbiology. Minor: Anatomy. Thesis: Evolution of the Immune Response. Major Adviser: Dr. D. W. Watson.

Marian Alice Pariseau, Kelso, Wash.

B.S. *cum laude* '59, University of Washington. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: The Empirical Calculation of Anharmonic Force Constants of Polyatomic Molecules. Major Adviser: Prof. John Overend.

Richard Gustaf Peterson, Minneapolis

B.A. *summa cum laude* '56, University of Minnesota; M.A. '58, Northwestern University. Major: English. Minor: Latin. Thesis: The Roman Image in English Literature From 1660 to 1700. Major Adviser: Prof. S. H. Monk.

William Jennings Peterson, Minneapolis

B.A. '55, University of Minnesota. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Studies on the Structure of the Red Cell Membrane. Major Adviser: Dr. C. W. Carr.

William Burton Rathbun, Madison,
Wis.

B.S. '54, M.S. '55, University of Wisconsin. Major: Agricultural Biochemistry. Minor: Zoology. Thesis: S-(1, 2-Dichlorovinyl)-L-Cysteine. I. Its Effect on Two Species of *Ochromonas*. II. Its Catalytic Degradation. Major Adviser: Prof. M. O. Schultze.

Lee Roy Raymond, Watertown, S.D.

B.S. (ChE) with honors '60, University of Wisconsin. Major: Chemical Engineering. Minor: Mathematics. Thesis: An Analytical Study of the Transient Behavior and Stability of Tubular Reactors and Catalyst Particles. Major Adviser: Prof. N. R. Amundson.

Gene Paul Reck, Chicago, Ill.

B.S. with honors '59, University of Illinois. Major: Physical Chemistry. Minor: Physics. Thesis: The Complex Refractive Index of Monatomic and Diatomic Gases. Major Adviser: Prof. C. A. Mead.

LaVerne William Rees, St. Paul

B.S. with distinction '55, M.S.M.E. '57, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Study of a Mixture of Small Unipolar Ions and Homogeneous Aerosols in a Flow System. Major Adviser: Prof. R. C. Jordan.

David Alexander Reid, Adelphi, Md.

B.S. in Agric. '36, Kansas State University; M.S. '38, University of Minnesota. Major: Genetics. Minor: Plant Pathology. Thesis: Inheritance of Growth Habit and Its Relationship to Winter Hardiness and Other Characters in Spring X Winter Barley Crosses. Major Adviser: Prof. J. W. Lambert.

James Frank Richards, Winnipeg,
Manitoba, Canada

B.S. in Agric. '58, M.S. '60, University of Manitoba. Major: Poultry Science. Minor: Agricultural Economics. Thesis: A Study of Some Factors Influencing Consumer Preferences and Buying Habits for Turkey and Turkey Products. Major Adviser: Prof. M. H. Swanson.

Kenneth Ring, San Francisco, Calif.

B.A. '58, University of California. Major: Psychology. Minor: Anthropology. Thesis: Some Effects of Status-Linked Behavior on Interpersonal Perception. Major Adviser: Prof. Ben Willerman.

Mohammad Haseeb Rizvi, Barabanki,
India

B.S. '54, M.S. '57, University of Lucknow (India). Major: Statistics. Minor: Mathematics. Thesis: Ranking and Selection Problems of Normal Populations Using the Absolute Values of Their Means: Fixed Sample Size Case. Major Adviser: Prof. Milton Sobel.

Jack Eugene Rossmann, Harlan, Iowa

B.S. '58, M.S. '60, Iowa State College. Major: Educational Psychology. Minor: Sociology. Thesis: An Investigation of Maternal Employment Among College Women—A Twenty-five Year Follow-Up. Major Adviser: Prof. C. G. Wrenn.

John Emery Rue, Mapleton

B.A. *magna cum laude* '44, M.A. '53, University of Minnesota. Major: Political Science. Minors: Area Studies: Far East and Sociology. Thesis: Anti-Stalinist Bias in the Thought of Mao Tse-tung: A Study of the Origins of Maoism. Major Adviser: Prof. J. E. Turner.

Kent Rodney Rush, Quakertown, Pa.

B.S. with high honors '60, Franklin and Marshall College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Nitration of Indoles. Major Adviser: Prof. W. E. Noland.

Duane Paul Sather, Minneapolis

B.Phys. with high distinction '59, M.S. '60, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Maximum Properties of Cauchy's Problem in N-Dimensional Space-Time. Major Adviser: Prof. H. F. Weinberger.

Vera Myers Schletzer, Edina

B.A. with highest honors '41, Ohio University; M.A. '59, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Study of the Predictive Effectiveness of the Strong Vocational Interest Blank for Job Satisfaction. Major Adviser: Prof. L. H. Lofquist.

Wayne William Schmaedeke, Hopkins

B.S. with distinction '57, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Optimal Control Theory for Non-linear Vector Differential Equations with Measure Coefficients. Major Adviser: Prof. W. A. Harris, Jr.

Ved Vrata Sharma, Mathura, India

B.Sc.(Agric.) '49, M.Sc.(Agric.) '51, Agra University (India). Major: Dairy Husbandry. Minor: Physiological Chemistry. Thesis: Some Aspects of Nitrogen Metabolism in Cattle. Major Adviser: Prof. J. D. Donker.

Irtaza Husain Siddique, Budaun, India

Graduate '50, Bihar Veterinary College (India); M.S. '61, University of Minnesota. Major: Veterinary Medicine. Minor: Pathology. Thesis: In Vivo Diffusion of Certain Antibiotics in the Milk of Dairy Cattle. Major Adviser: Prof. H. H. Hoyt.

Charles Don Siebenthal, St. Louis,
Mo.

B.S.Ch.E. '60, Washington University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Some Topics in the Optimal Control of Chemical Reactors. Major Adviser: Prof. Rutherford Aris.

George Kuppler Simson, Arcadia,
Calif.

B.A. '52, Whitman College; M.A. '57, Washington State University. Major: English. Minor: Philosophy. Thesis: Lytton Strachey's Use of His Sources in *Eminent Victorians*. Major Adviser: Prof. J. D. Hurrell.

Sister Mary Edward Dolan, Dubuque,
Iowa

B.A. *magna cum laude* '49, Loras College; M.Ed. '53, St. Louis University. Major: Education. Minor: Educational Psychology. Thesis: A Comparative Study of Reading Achievement at the Fourth Grade Level Under Two Methods of Instruction: Modified Linguistic and Traditional Basal. Major Adviser: Prof. G. L. Bond.

Kirk Howard Smith, Des Moines,
Iowa

B.A. *cum laude* '58, University of Washington. Major: Psychology. Minor: Philosophy. Thesis: Recall of Paired Verbal Units Under Various Conditions of Organization. Major Adviser: Prof. J. J. Jenkins.

Herbert Wilhelm Sommer, Northfield

B.D. '54, Colgate-Rochester Divinity School; M.A. '57, University of Minnesota. Major: German. Minors: Linguistics and Comparative Philology and Philosophy. Thesis: *Das Verhalten Zwischen Gott Und Mensch Im Romanwerk Ernst Wiecherts*. Major Adviser: Prof. F. H. Wood.

Stephen Esrael Spielberg, Philadel-
phia, Pa.

B.A. '56, University of Pennsylvania; M.A. '58, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Solutions to Certain Non-Homogeneous Second Order Partial Differential Equations Expressed in Terms of Wiener Integrals. Major Adviser: Prof. R. H. Cameron.

Richard James Stadtherr, Gibbon

B.S. '49, M.S. '51, University of Minnesota. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: Studies on the Use of Arsenicals for Crabgrass Control in Turf. Major Adviser: Prof. R. E. Nylund.

James Everett Stochl, Minneapolis

B.S. '55, University of Minnesota. Major: Education. Minor: Statistics. Thesis: A Comparison of Demonstration Teaching by Kinescopes and by Classroom Visitation in an Elementary Mathematics Methods Course. Major Adviser: Prof. D. A. Johnson.

Albert Yung-Sung Su, Taipei, China

B.S. in Eng. '59, National Taiwan University (China). Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Gamma-Ray Induced Recombination of Hydrogen and Oxygen in the Presence of Water Vapor. Major Adviser: Prof. H. S. Isbin.

Edward George Summers, Prescott,
Wis.

B.S. '58, M.A. '60, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Evaluation of Reading Growth and Retention Under Two Plans of Organization for Seventh Grade Developmental Reading. Major Adviser: Prof. T. W. Clymer.

Samuel Kwaku Takyi, Okagyakrom,
Ghana

B.S. '59, Cornell University; M.S. '61, University of Minnesota. Major: Soil Science. Minor: Agricultural Plant Physiology. Thesis: Exchangeable Aluminum, Acidity, and Water-Soluble Phosphate in Some Acid Minnesota Soils as Affected by Added Potassium Monobasic Phosphate and Calcium Hydroxide. Major Adviser: Prof. A. C. Caldwell.

Andrew Thompson, Tacoma, Wash.

B.A. '56, M.A. '59, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Conditioning of Work Oriented and Work Aversive Statements of Neuropsychiatric Patients. Major Adviser: Prof. L. H. Lofquist.

John Winston Torgelson, Roseville

B.A. *magna cum laude* '50, Luther College; M.A. '56, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of Homogeneous and Heterogeneous Grouping for Below-Average Junior High School Students. Major Adviser: Prof. R. J. Keller.

Heinz Vergin, Berlin, Germany

Graduate '58, Free University of Berlin; M.A. '60, University of Minnesota. Major: Economics. Minor: Political Science. Thesis: Determinants of Money Wage Changes in German Industry: An Analysis of German Wage Behavior From 1953 to 1960. Major Adviser: Prof. J. G. Turnbull.

Robert Fulton Warming, Bismarck,
N.D.

B.S. with high distinction '58, University of Minnesota. Major: Fluid Mechanics. Minor: Mathematics. Thesis: Statistical Properties of an Exact Solution of Burgers' Model of Turbulence. Major Adviser: Prof. W. C. Meecham.

Jerome Bernard Weber, Kilkenny

B.S. '57, M.S. '59, University of Minnesota. Major: Soil Science. Minor: Analytical Chemistry. Thesis: Soil and Plant Potassium as Affected by Soil Temperature, Moisture and Continuous Cropping. Major Adviser: Prof. A. C. Caldwell.

Vernon Ervin Weckwerth, Montevideo

B.S. with high distinction '54, M.S. '56, University of Minnesota. Major: Biostatistics. Minor: Public Health. Thesis: Imputation of Non-Response Values with Special Emphasis on Hospital and Health Surveys. Major Adviser: Dr. J. E. Bearman.

James King Winfrey, Arlington, Va.

B.S. '53, Iowa State University; M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Appraisal of Institutional Press as Perceived by Selected Groups of Minneapolis Area High School Students. Major Advisers: Profs. W. E. Dugan and C. G. Wrenn.

Doctor of Philosophy in Medicine

Mohammed Abdul Aziz, East Pakistan

M.B.B.S. '54, University of Dacca. Major: Medicine. Minor: Anatomy. Thesis: Studies of Coproporphyrin and Its Isomers in Human Excreta, Bile and Liver with Special Reference to Liver Disease and Jaundice. Major Adviser: Dr. C. J. Watson.

Doctor of Philosophy in Surgery

Aldo R. Castaneda, Guatemala City,
Guatemala

M.D. '58, University of San Carlos of Guatemala. Major: Surgery. Minor: Physiology. Thesis: Gastric Hypersecretion and Porta-Caval Shunt. 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 Extension Division	orange and drab
General College	crimson and white
College of Liberal 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.

*President's Reception*_____

DECEMBER, 1963

- The members of the graduating class, their families and friends, are invited to attend the President's Reception immediately after the commencement exercises. The reception will be held in the main ballroom of the Coffman Memorial Union.
- Assisting in the Reception are members of the Union Board of Governors, and members of the following honorary societies: Arrowhead, Chimes, Grey Friars, Innocents, Iron Wedge, Mortar Board, Silver Spur, and Phoenix.
- Refreshments will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.