



UNIVERSITY OF MINNESOTA

March Commencement, 1969

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

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

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

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Daniel C. Gainey, Owatonna

The Honorable Harry B. Hall, M.D., Edina

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Edina

Dr. Malcolm Moos, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

THE BOARD OF REGENTS requests that the following Northrop Memorial Auditorium procedures or regulations be adhered to: (1) Smoking is confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. (2) The use of cameras or tape recorders by members of the audience is prohibited. (3) The sale of tickets by anyone other than authorized Box Office personnel is prohibited in the lobby or corridors of Northrop Memorial Auditorium.

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and eighteenth 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 preparation is offered. Since its founding, the University has awarded more than 207,500 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 45,000 students annually on its Twin Cities, Duluth, Morris, Crookston, 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 six 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 Horticultural Research Center and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless experiments of vital importance to the future health and welfare of us all. Research 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 Minnesota 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 biomedical 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.

As it meets the needs of present students, the University must also make plans for those of the future. The 47,534 students who enrolled at the University at the beginning of the 1968-1969 academic year represented nearly one-half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1967 LEGISLATURE granted the University \$110,893,275 for general operations and maintenance during the 1967-1969 biennium. In addition, the University received \$9,401,100 for University Hospitals; \$9,883,460 for special appropriations, including special extension and research activities; \$22,739,346 for new buildings, land, and the rehabilitation of existing buildings; and \$955,000 for the University of Minnesota Technical Institute, Crookston.

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 1967-1968 showed that the University's current income amounted to \$196,515,675.43. Of the total received, \$17,146,177.31 came from student tuition and fees; \$30,280,089.30 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; \$1,669,798.78 from intercollegiate athletics; \$27,376,182.44 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 \$9,847,348.82 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also, \$47,079,539.59 came from the federal government for instruction, research, and agricultural extension. The State provided \$63,116,539.19 or 32.1 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$21,486,114.

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, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations, Morrill Hall.

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 Twin Cities Campus of the University this evening from 6:45 to 7:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Miss Janet Orjala, College of Liberal Arts, '70, University Carillonner. 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 7:00 to 7:30 p.m., the University Symphony Band Ensemble, conducted by Graduate Associate Director of Bands John P. Zdechlik, will play:

- Suite of Old American Dances*Robert Russell Bennet
- March Invercargill*Alex Lithgow
- Overture for Winds*Charles Carter

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 7:30 p.m., Regents' Professor of Anthropology E. Adamson Hoebel, Ph.D., College of Liberal Arts, Faculty Marshal, will carry the Mace into the Auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Hoebel 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 Symphony Band Ensemble will play:

- Proud Heritage March*William Latham

ON THE STAGE: The curtain will be opened when the Mace-Bearer enters. Seated on stage from left to right are Marshal Hoebel; Professor Robert S. Hoyt, Ph.D., College of Liberal Arts, Marshal; Recorder W. Donald Beatty, Ph.D., Admissions and Records; Colonel William D. Beard, U.S.A., Professor of Military Science; Rabbi Louis Milgrom, B.S.C., Director of B'nai B'rith Hillel Foundation; Dean Alfred L. Vaughan, Ph.D., General College; Associate Dean George Seltzer, Ph.D., School of Business Administration; Dean Robert J. Keller, Ph.D., College of Education; Assistant Dean Frank T. Benson, Ph.D., University College; The Honorable George W. Rauenhorst, Regent of the University of Minnesota; Dean Bryce L. Crawford, Ph.D., Graduate School; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; The Honorable Lester A. Malkerson, Regent of the University of Minnesota; Vice President Donald K. Smith, Ph.D., Administration; Harris Wofford, LL.B., President of the State University of New York, College at Old Westbury, Oyster Bay, New York; President Malcolm Moos, Ph.D., University of Minnesota; Vice President Paul H. Cashman, Ph.D., Student Affairs; The Honorable Fred J. Hughes, Regent of the University of Minnesota; Dean Warren B. Cheston, Ph.D., Insti-

tute of Technology; Assistant Dean Norman S. Kerr, Ph.D., College of Biological Sciences; The Honorable Harry B. Hall, Regent of the University of Minnesota; Louise A. Stedman, Ph.D., Director of School of Home Economics, College of Agriculture, Forestry, and Home Economics; Dean Robert B. Howard, M.D., College of Medical Sciences; Mr. Edwin L. Haislet, Ed.D., Director of Alumni Relations; Associate Dean Frank E. Di Gangi, Ph.D., College of Pharmacy; Captain W. T. Broughton, U.S.N., Professor of Naval Science; Major John C. Gill, U.S.A.F., Professor of Aerospace Studies; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Professor Rodolfo O. Floripe, Ph.D., College of Liberal Arts, Marshal; and Regents' Professor Ralph E. Comstock, Ph.D., College of Biological Sciences, 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 will remain standing for the National Anthem and for the Invocation.

Inaugural Fanfare Frank Bencriscutto

THE NATIONAL ANTHEM: The entire audience and Professor Schuessler.

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

INVOCATION: Rabbi Milgrom.

SPEAKING FOR THE UNIVERSITY: President Moos.

COMMENCEMENT ADDRESS: President Wofford.

CONFERRING OF ROTC CERTIFICATES: Vice President Smith will introduce Colonel Beard, Captain Broughton, and Major Gill, who will present candidates for commissions in their respective services. Letters of ROTC completion will be presented by President Moos.

PRESENTATION OF CANDIDATES: Vice President Smith will introduce the deans of the several colleges or their representatives who will present to President Moos the candidates for certificates and degrees. They are, in order of their introduction, Dean Vaughan for the General College; Dean E. W. Ziebarth for the College of Liberal Arts; Assistant Dean Benson for the University College; Assistant Dean Kerr for the College of Biological Sciences; Dean Cheston for the Institute of Technology; Professor Stedman for the College

of Agriculture, Forestry, and Home Economics; Dean Keller for the College of Education; Associate Dean Seltzer for the School of Business Administration; Associate Dean Di Gangi for the College of Pharmacy; Dean Howard for the College of Medical Sciences; and Dean Crawford for the Graduate School.

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

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Mr. Haislet.

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: President Moos will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his academic hood, he will be presented individually by Dean Crawford.

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

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

RECESSIONAL: The Symphony Band Ensemble will play:

March from E Flat SuiteGustave Holst

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

(Immediately following these exercises, all members of the audience are invited to attend the President's Reception, which is described on the back cover of this program.)

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Infantry

Charles W. Biebighauser, St. Paul

Second Lieutenant, Medical Service Corps

Stanley H. Bronczyk, Gilbert

Second Lieutenant, Military Police Corps

Bruce A. Sabatke, Coon Rapids

Robert J. Thurnbeck, Wyoming

Second Lieutenant, Signal Corps

Robert L. Roman, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

James P. Dvorak, St. Paul

Ensign, USNR

George M. Kissinger, Minneapolis

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Miles A. Carlson, Hopkins
Robert H. Jasperson, Edina

Dennis S. Olson, Hayward
Terrence D. Williams, Minneapolis

Candidates for Graduation

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

Senior Mechanical Engineering Technician Certificate

Gerald Oscar Olson, Bloomington

Associate in Mortuary Science

Jeffrey C. Hultgren, Mankato

GENERAL COLLEGE

Associate in Arts

Kathryn Ann Aga, Minneapolis
Gary Edward Anderson, Roseville
Jean Louise Ascheman, St. Paul
Ronald Howard Ayers, St. Paul
Lawrence Clyde Ball, Anoka
Marv Beth Barsness, Cannon Falls
Bradley Reid Bergquist, St. Paul
Deborah Ruth Bernath, St. Paul
Mary Susan Boelter, Minneapolis
Jo Dean Broadfoot, Minneapolis
Cordon Lee Cable, Minneapolis
Michael John Campbell, Edina
Patrick John Cannon, A.A., St. Louis
Park
Michael John Chismar, Minneapolis
Mary Susan Clark, St. Louis Park
Maurice Winslow Crouch, St. Paul
Charles Homer Cushman, Hopkins
Rainer Norman Dombrowsky, Minneapolis
Lee Francis Doucette, Minneapolis
John James Dovolis, Edina

Thomas Patrick Dunn, Edina
Rebecca Lynn Eckert, Long Lake
Bradley Peter Farness, Bloomington
Jane Beatrice Farnham, Wayzata
Jeffrey Robert Farnham, Minneapolis
Helen Byrnes Fears, New Brighton
Duane Charles Filipek, Minneapolis
Gerald Bainbridge Florey, Minnetonka
Jerry Lawrence Fudenberg, St. Paul
Loralee Ileen Goldman, Minneapolis
Marcia Irene Green, Young America
Shirley Ann Gronfield, Minneapolis
Roger Paul Hansen, Minneapolis
Muriel Irene Hanson, Coon Rapids
Lynda Ann Harris, Richfield
William Daniel Hawn, Jr., St. Paul
Evelyn Mary Hentges, St. Paul
Kenneth Clarence Hess, Paynesville
Robert Lee Hesse, Stacy
Ronald Joseph Hillstrom, St. Paul
Margaret Jane Hines, Rochester

Mary Lynn Holly, St. Paul
 Terry Lee Jensen, Brooklyn Center
 Gordon Alan Jeske, Jr., Edina
 Steven Russell Johnson, St. Louis Park
 John Gustav Josephson, St. Paul
 John Mathew Kasel, St. Paul
 Barbara Helen Keenan, White Bear
 Lake
 Katherine Lynn Kessler, Minneapolis
 Arthur George Kirby, Jr., St. Paul
 Susan Marie Kirby, St. Paul
 Gary Berton Kirckof, Bertha
 William Harold Kittelson, Edina
 Michael Victor Kloss, Minneapolis
 Thomas Charles Kracht, Minneapolis
 Barbara Jean Krueger, St. Paul
 Lynda Sue Laven, Minneapolis
 Warren James Linc, Minneapolis
 John Michael Lind, St. Paul
 Charles Joseph Maciosek, St. Louis
 Park
 Carol Jean Maund, Minneapolis
 Terry Lee McClish, Minneapolis
 Thomas Daniel McLaughlin, Minne-
 apolis
 James Patrick McTie, St. Paul
 Kay L. Mensing, Minneapolis
 Richard Louis Meyers, St. Paul
 Joseph James Mildenberger, Minne-
 apolis
 William Howard Moore, Minneapolis
 Raymond Howard Munn, Osseo
 Linda Carol Nass, Minneapolis
 Mary Linda Nawrocki, Minneapolis
 Daniel Allen Nelson, Minneapolis
 Gary Lee Nelson, Minneapolis
 Barbara Ann Nett, St. Paul
 Carl Edward Nordberg, Minneapolis
 Kenneth Lyle Nordstrom, Minneapolis
 Michael A. Nowling, Minneapolis
 Reinhardt George Andreas Ohmann,
 Rosemount
 Sheryl Dianne Orris, Brooklyn Park
 Andrea Irene Peluso, Minneapolis
 Michael Lawrence Phillippi, Minne-
 apolis
 Kenneth Charles Pietrzak, Minne-
 apolis
 Thomas Earl Reed, Minneapolis
 Carolyn Joan Reuter, Excelsior
 Norman Alfred Rock, Minneapolis
 Lily Erna Rothschild, St. Paul
 Constance Renee Schnell, Hamel
 Devra Lee Schwartz, St. Louis Park
 Ronald La Vern Scott, Minneapolis
 Curtis Owen Sendzik, Minneapolis
 Frank Joseph Shuster, Hibbing
 John Francis Singewald, Jr., Rose-
 mount
 Marie Emma Stender, Young America
 Ronald Floyd Stolp, St. Paul
 Dennis William Swanson, Edina
 Robert James Thies, Bloomington
 Judy Ellen Tillipman, New Hope
 Theodore Charles Trahan, Minne-
 apolis
 Donald Earl Wagner, Minneapolis
 Rokelle Elaine Weisberg, Minneapolis
 Richard Daniel Weisjahn, Owatonna
 Robert Harold Weymann, St. Paul
 Gregory John Wilson, Edina
 Donna Mary Wozny, Golden Valley
 Robert Joseph Yurch, Minneapolis
 Raymond John Ziegler, Superior, Wis.

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Roseann Mary Greene Lentsch, St.
Paul

Steven R. Springer, Minneapolis
Gary Wayne Storhaug, St. Paul

Bachelor of Arts

Honors citations are provisional and will not become final until all requirements are met for the level indicated.

- Nancy Matilda Abraham, Crystal
Bruce Edwin Adams, Minneapolis,
CUM LAUDE, Mathematics
Jones Marion Adkins, Minneapolis
Linda Jo Ambrose, Muscatine, Iowa,
MAGNA CUM LAUDE, Journalism
Sandra Lee Amo, Minneapolis
Glenn Henry Anderson, St. Paul
John Raymond Anderson, Minne-
apolis
Susan Kay Anderson, Minneapolis
Esther Uzonna Anyanechi, Republic
of Biafra, CUM LAUDE, French
Joanne Rochelle Arenson, St. Paul,
MAGNA CUM LAUDE, Philosophy
Marilyn Kay Bader, Clear Lake, S.D.
Linda Louise Baker, Edina, MAGNA
CUM LAUDE, Journalism
David Dudley Baldridge, Minneapolis
Merline Joyce Balke, Angora, MAGNA
CUM LAUDE, Sociology
Rosalyn Joyce Bauer, Newport
Douglas Lee Bayley, Lake City
Diana Elaine Becchetti, Minneapolis
Totiana Alana Benham, Minneapolis
Albert Benjamin Berry, Minneapolis
Francine Berschens, St. Paul
Charles Wendell Biebighauser, St.
Paul
Margaret Ellen Bird, Minneapolis
William Merrill Bjostad, St. Paul
Frederick Edward Boringer, A.L.A.,
Middleburgh, N.Y.
LeeAnn Holmberg Bowman, Duluth
Michael Charles Brandt, Brainerd
Daryl Robert Bren, Hopkins
Franklin Lee Brosseau, Drayton, N.D.
Antoinette Noel Bruzek, Minnetonka
Beatrice Stough Bryngelson, B.A.,
Minneapolis
Stephanie Ann Bundul, Minneapolis
Thomas Francis Burns, Minneapolis
John Charles Carlson, Minneapolis
John Bruce Champion, Jamestown,
N.Y.
Jerry Chamish, A.A., Winnipeg,
Manitoba, Canada
Elizabeth Anderson Chao, North
Branch
David Leighton Charlsen, Stillwater,
CUM LAUDE, Humanities
Sharon Marie Chellquist, Minneapolis
Joel Patrick Cheney, Osseo
Kathleen Ann Cherry, St. Paul
Jennifer Sue Cohen, A.A., St. Paul
William John Conlin, St. Paul
Cynthia Carole Conzet, Rockford
Mary Kathryn Mueller Crispin, Min-
neapolis
Geoffrey Charles Crockett, Duluth
Darlene Marie Cruikshank, Minne-
apolis
William Parnell Curran, Minneapolis,
SUMMA CUM LAUDE, Political Sci-
ence
Jon Michael Dahlin, Minneapolis
Stephen John Deines, Wayzata,
MAGNA CUM LAUDE, Geography
Donald Roger Dormanen, Minne-
apolis
James Peter Dvorak, St. Paul
Cecelia Walker Eames, Edina
Edward Louis Egler, Minneapolis
Elizabeth Ngozichukwuka Ekejiuba,
Republic of Biafra
Ludwig Engel, Minneapolis
Craig Byron Fabel, Savage
James Richard Faragher, St. Paul
Robert Joseph Feigh, Minneapolis,
CUM LAUDE, Political Science
Adelaide Quinn Ferguson, Excelsior
Roy Douglas Fielder, St. Louis Park
Marilyn Martin Friedl, Minneapolis
Jeanne Marie Gates, Minneapolis
Gayle Helene Gerlach, Robbinsdale
Lisa Christy Richards Gish, Edina
Beverly Gertrude Johnson Glazer, St.
Louis Park
Paul Francis Grehl, St. Louis Park
Thomas Bendix Haberkorn, Thousand
Oaks, Calif.

Steven Perry Halseth, Hopkins
 Kathryn Louise Halter, Minneapolis
 Glenn Haven Halvorson, Park Rapids
 Dale Thomas Hanson, Minneapolis
 Dennis G. Hanson, St. Paul
 Jeanne Mary Hanson, Hutchinson
 Carol Marie Hegre, Minneapolis,
 MAGNA CUM LAUDE, Psychology
 Joseph Edward Hendricks, Minne-
 tonka
 Alice Roy Henkel, St. Paul
 Gregory Herring, Edina
 Robert Stanley Hertz, St. Paul
 David Michael Higgins, Minneapolis
 Richard Prentice Hoffman, Minne-
 apolis
 John Douglas Holley, Richfield
 James Anthony Holper, Perham
 Douglas Vernon Holt, Pleasant Lake,
 N.D.
 Paul Andru Holte, Minneapolis
 Robert Stephen Howery, St. Paul
 Gary George Huot, White Bear Lake
 Lucille Catherine Hynes, Minneapolis
 Fredrick Vernon Iffert, Morgan
 Thomas Ralph Ingman, Crystal
 Robert Dale Jacobsen, St. Paul
 Robert Charles Jartz, Clintonville,
 Wis.
 Curtis Harold Johnson, Ivanhoe
 Gary Everett Johnson, New York
 Mills
 Jeffrey Neill Johnson, Minneapolis
 Steven Daryl Johnson, Wayzata
 Gregg Randel Joly, Minneapolis
 Candace Marie Jones, Edina
 Craig Douglas Jones, Minneapolis
 Tonia Dolozik Jones, St. Paul
 Kathleen Ann Juneau, Minneapolis
 Patricia Louise Kenny, St. Paul, CUM
 LAUDE, Mathematics
 William Charles Kinsel, Jr., Stillwater
 George Marlowe Kissinger, Minne-
 apolis
 Mary Ann Klinkhamer, A.A., St. Paul
 Avery Knopke, New Ulm
 Robert Irvin Knudsen, Minneapolis
 James William Koran, A.L.A., St. Paul
 Wayne Josef Kovensky, Minneapolis
 Stephen James Kuns, Golden Valley
 Leonard Albert Lampert III, Edina
 Elaine Lillian Larson, A.A., St. Louis
 Park
 James Harold Larson, Minneapolis
 Vincent Guy LaVallee, Minneapolis
 Howard Stephen Lavick, Cloquet
 Ruth Sharon Leavitt, Minneapolis
 John Douglas LeVesque, Minneapolis
 Thomas Fredrick Lewcock, Minne-
 apolis
 Leander Galivan Lippert, St. Paul
 Paul Alan Livgard, St. Paul
 Andrew Peter Lucas, South St. Paul
 Olaf Lukk, Jr., Prior Lake
 James William Lundin, Minneapolis,
 CUM LAUDE, Political Science
 Landis Kjell Lundquist, Minneapolis
 Chester William Lutterman, Minne-
 apolis
 Diane Jean Madison, Minneapolis
 Mary Kathleen Mahoney, St. Paul
 Ruth Helena Makinen, International
 Falls
 Emery Carlyle Manly, St. Paul
 Raymond Edward Marshall, Duluth
 Donald Richard Martin, St. Paul
 William Wade Martin, Okmulgee,
 Okla., SUMMA CUM LAUDE, Psy-
 chology
 Sharon Mae McCann, Rochester
 Kathleen Ann McEvoy, West St. Paul
 Patricia Ann McLagan, St. Paul
 Donald James McQueen, Virginia
 Thomas Edward Melcher, Minne-
 apolis
 Mary Ann Lickteig Mentz, Austin
 Susan Ann Meyers, Robbinsdale
 David Bruce Milles, St. Paul
 Alan Walter Mills, A.A., Minneapolis
 Carole Jean Milstein, St. Paul
 James Rolland Mitchell, Richfield
 Marilyn Sue Moe, Minot, N.D.
 Ronald Martin Mogelson, Minne-
 apolis
 David Arthur Morris, Minneapolis
 Robin LeNay Morris, Minneapolis
 Liza Nagle, Minneapolis
 Eldon Lee Nahring, Minneapolis
 Daryl Lee Nelson, Minneapolis
 Judith Kay Nelson, Wayzata
 Eva Janet Neubeck, St. Paul
 Nickolas Walter Nicolay, Minneapolis

John Alan Nist, Anoka
 Katherine Ellen Norgaard, St. Paul
 Dennis Gary Novotny, South St. Paul
 Paul Thomas Oberg, A.L.A., Richfield
 Susan Ona Ogren, Minneapolis
 Barbara Jean Olson, Mora
 Dennis Stephen Olson, Albert Lea
 Karen Kay Olson, Lake Lillian
 Leon Randolph Olson, Fosston
 Valerie Jean Olstead, Fridley
 Kathleen Terry O'Shaughnessy,
 Rochester
 Melvin George Ostwald, Excelsior
 Warren Alexander Park, Minneapolis
 Linda Jeanne Pearson, Richfield
 James Philip Pedersen, Minneapolis
 Donna Jene Visen Pederson, Minne-
 apolis
 Margaret Anne Peller, *Excelsior, CUM*
LAUDE, English
 Bruce Gordon Pence, North Branch
 Calvin Fred Permut, Golden Valley
 Susan Robinson Peterson, Minne-
 apolis
 Roberta Ruth Pisa, Minneapolis,
MAGNA CUM LAUDE, Sociology
 Allan Ray Plath, Hutchinson
 Sheryl Lynn Polski, St. Louis Park
 Gail Jean Poot, St. Louis Park, *MAGNA*
CUM LAUDE, German
 Carol Jean Portner, Sleepy Eye
 Darrell Morley Price, Minneapolis
 Elizabeth Joanidhi Priedkalns, Min-
 neapolis
 David Gordon Pylkas, St. Paul
 Rochelle Juanita Randy, Chisholm
 Edward Frank Rebolz, Minneapolis
 James Owen Redman, Red Wing
 Timothy William Regan, Wayzata,
MAGNA CUM LAUDE, Philosophy
 Gary Harold Reierson, Edina
 Linda Marie Reuss, Janesville, Wis.,
SUMMA CUM LAUDE, Sociology
 Terry Jose Reyes, Minneapolis
 Duane Robert Riley, Edina
 Benjamin S. Rinkey, St. Paul
 Mary Jo Elizabeth Robinson, St. Paul
 John Dale Rolstad, A.A., Bloomington
 Robert Lance Roman, Richfield
 Thomas Alvin Romfo, Minneapolis
 Edward Rosenblatt, St. Paul
 James Henry Rothenberger III,
 Rochester, N.Y.
 Katherine Alice Rouzer, Minneapolis
 Roger Brian Rubin, St. Paul
 Penny Kay Rude, Wadena
 Joan Kingsbury Rymer, St. Paul
 Roy Robert Seamans, Excelsior
 Barbara Jean Weber Seemann, St.
 Paul
 Barbara Anne Senn, Waseca
 Robert Clark Shankland, Austin
 James Everett Sherman, Minnetonka
 Mary Kathryn Sievers, Minneapolis
 Dennis Richard Slater, St. Paul
 Paul Richard Sorenson, Sioux Falls,
 S.D.*
 Edward Curran Spencer, Jr., St. Paul
 Charles Lawder Stanford, Minneapolis
 Marilyn Weir Staubly, Madison, Wis.
 Frank Edward Stodolka, Hopkins
 Fred Louis Stoerzinger, Jr., A.A.,
 St. Paul
 Frank David Stone, Albert Lea
 Ann Victoria Suhler, Minneapolis
 Gerald James Sundsrud, Blaine
 Elizabeth Ann Thompson, St. Paul
 Kenneth Lee Thrall, Robbinsdale
 Robert John Thurnbeck, Wyoming
 Richard Allen Tieden, A.A., Minne-
 apolis
 Jerald Martin Tonder, Mahtomedi
 Andrew Joseph Tourville, Jr., South
 St. Paul
 Paul Treuer, Bemidji
 Anna P. Trilhus, St. Paul
 Margaret Trueblood Ulrich, A.A.,
 Minneapolis
 Eugene E. Vadies, Minneapolis
 Valdis Vikmanis, St. Paul
 Richard Paul Vogel, Minneapolis
 Michael Joseph Wagner, Jr., St. Paul
 Robert George Walz, St. Paul
 Allen Russell Wanek, Winona
 John Robert Watson, Jr., La Grange,
 Ill.

* Degree conferred as of June 8, 1968.

Sally Sawyer Watson, Wayzata
Jorine Elizabeth Weller, Minneapolis
Susan Elizabeth Rivers Wennes,
Minneapolis
Donald Wernecke, A.L.A., Minne-
apolis
Timothy Charles Wernz, Winona
Kenneth Harry Westlund, Minne-
apolis
Susan Lenore Williams, Albert Lea

Robert Ashley Wilson, Rosemount
Robert David Wurtz, Minneapolis
Neil Leonard Edward Yaeger, Minne-
apolis
Kim Hunter Zietz, St. Louis Park
Nancy Adele Zimmerschied, St. Louis
Park
Alan Mark Ziskin, St. Louis Park
Vincent William Zmistowski, Jr.,
A.A., Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Katherine Jane Hirt, Minneapolis
Richard Joseph Hollenkamp, Robbins-
dale
Lorraine Leavitt Howard, St. Paul

Lee Ann Vizzier, Minneapolis
Dwight William Westermann, Young
America

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Jane Carol Christianson, Blomkest,
MAGNA CUM LAUDE, Biology

Arlene May Kimbell, Rochester,
CUM LAUDE, Biology
Dennis John Opheim, St. Paul

INSTITUTE OF TECHNOLOGY

Certificate in Science

William Thomas Gill, Minneapolis

Bachelor of Aeronautical Engineering

Thomas Roland Hektner, Brecken-
ridge
Duane Lowell Jensen, Austin
John Harvey Kispert, Stillwater
Babatunde Alli Masha, Lagos, Nigeria

Nickolas Priadka, Minneapolis
Arthur Lowell Siegmann, Minneapolis
Robert William Trnka, Lonsdale
Richard Wayne Wright, St. Paul

Bachelor of Agricultural Engineering

Donald Ivan Groth, Hardwick

Bachelor of Architecture

Dennis George Drews, Bloomington
John Paul Litchy, B.A., Minneapolis
Robert Stone Nist, Minneapolis

*Richard Dwight Olson, Benson, WITH
DISTINCTION*

Bachelor of Chemistry

Kenneth Robert Kurttila, Proctor

Bachelor of Civil Engineering

Richard Orvis Alberts, B.A., Kasson
Curtis Henry Benson, Zumbrota
Richard Dale Borson, Minneota
Miles Alan Carlson, Hopkins
Terry Lee Herman, Waskish

Richard Donald Herold, Taylors Falls
Robert Harry Jaspersen, Hopkins
Tracy Christian Moe, St. Paul
Leslie James Proper, Little Falls

Bachelor of Electrical Engineering

Marvin LeRoy Lyon, Sleepy Eye

Bachelor of Mathematics

Ronald James Ewing, Thief River
Falls
Connie Lee Finstad, Ranier

Kurt Clifford Thompson, Robbins-
dale

Bachelor of Mechanical Engineering

Craig Alan Alshouse, St. Paul
Gary Lee Anderson, Minneapolis
Robert Arthur Bleckinger, Jr., St. Paul
David Clayton Ewers, Rochester
Gary Wayne Gaver, Lake Lillian
Neil Paul Gloier, Fergus Falls
Gerald Micheal Goblirsch, Minne-
apolis
Warren Lee Graser, Minneapolis
Richard Carl Hawley, Duluth
Gary Richard Knowles, Franklin

Leif Erik Leirfallom, St. Paul
John Peter Lysfjord, Minneapolis
James Philip Marnie, Minneapolis
John Robert Rose, Mankato
Kurt Witherow Schulze, Duluth
Robert Stuart Strandberg, Worthing-
ton
Larry Allen Swanson, Robbinsdale
Darol Paul Westphal, A.A., Austin
Allyn Edward Yoakum, Duluth

Bachelor of Metallurgical Engineering

William Leonard Merrick, Columbia Heights

Bachelor of Physics

James Carl Kish, Minneapolis
Roland Earl Mohr, Bloomington

Ardin Herman Marschel, Buffalo,
WITH DISTINCTION

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

Technical Certificate in Agriculture

William Calvin Beamish, Rockford

Bachelor of Science

Thomas John Abbett, St. Paul, Forestry	Garland Richard Giddings, Chisago City, Agriculture
William Evert Berg, St. Paul, Agriculture	Dennis Byford Gilbertson, Hopkins, Agriculture
Myron Arnold Blank, Brooklyn Center, Forestry, WITH DISTINCTION	Dennis DuWayne Goehring, Glencoe, Agriculture*
Stanley Harold Bronczyk, Biwabik, Forestry, WITH DISTINCTION	Robert Bennett Good, Northome, Agriculture, WITH DISTINCTION
Gerald Dorvin Brown, Kensington, Agriculture	Wayne William Gordon, A.A., Worthington, Agriculture
Paul David Brutlag, Wendell, Agriculture	Paul Erwin Groneberg, Hoffman, Forestry
James Gary Butler, Blooming Prairie, Agriculture	John Burl Henning, Lake City, Agriculture
Joan Evelyn Deden, Red Wing, Home Economics, WITH DISTINCTION	Marie Elizabeth Herickhoff, Belgrade, Home Economics
Thomas Warren Emerson, Duluth, Forestry*	Thomas Lynn Hoel, West St. Paul, Forestry
Wendell Edward Engelstad, Kasson, Agriculture	Robert Dale Ingvalson, Blooming Prairie, Agriculture
Wayne Alan Finnern, Okabena, Agriculture	Alan Winscot Johnson, Lindstrom, Agriculture
Larry Dean Frank, Fairfax, Agriculture	Carl Robert Johnson, Excelsior, Forestry
Robert Charles Garbe, Hudson, Wis., Agriculture	Judy Ruth Johnson, Minneapolis, Home Economics

* Degrees conferred as of December 14, 1968.

- Ralph Herbert Kackmann, Lake City,
Agriculture, WITH HIGH DISTINCTION
- John Norman Kinneberg, Rushford,
Agriculture
- James Richard Klande, Pine City,
Agriculture, WITH DISTINCTION
- Ronald Albert Larson, Canby, Agriculture,
WITH DISTINCTION
- Jerry Dean Lavoy, A.A., Brookston,
Agriculture
- Gloria Jean Mahoney, St. Paul, Home
Economics, WITH DISTINCTION
- Nancy Eileen Miley, St. Paul, Home
Economics
- James Martin Myers, St. Paul, Forestry
- Steven Richard Nahrang, Lewiston,
Agriculture
- Cheryl Lynn Nelson, Edina, Home
Economics
- Wayne Marlow Odegaard, Crookston,
Agriculture
- Gary Steven Olson, B.B.A., Agriculture,
WITH DISTINCTION
- Susan Faye Olson, Worthington,
Home Economics, WITH HIGH DISTINCTION
- Lowell Everett Perry, Technical Certificate in
Agriculture, St. Cloud, Agriculture
- Ronald Frederick Salladay, Minnetonka,
Forestry
- Charles George Tauer, Sleepy Eye,
Forestry
- Terry Thomas Timko, Lakefield,
Agriculture
- Lowell Floyd Vickerman, Hopkins,
Agriculture
- Merrill Harold Wachter, Rosemount,
Agriculture

COLLEGE OF EDUCATION

Bachelor of Science

- David William Adams, St. Paul
- Barry Robin Allen, Albert Lea
- Carol Jean Anderson, Detroit Lakes
- Gayle Margaret Anderson, St. Paul
Park
- Marilyn Gayle Anderson, Minneapolis
- Nancy Carol Arf, Minneapolis
- Constance Louise Babcock, Northfield
- Shirley Ann Beltz, Bagley
- John Milford Biermann, St. Paul,
WITH HIGH DISTINCTION
- Margaret Ellen Bird, Minneapolis,
WITH DISTINCTION
- Karin Grace Bjorklund, Minneapolis
- Bonnie Marie Blanco, Minneapolis
- Ellen Marie Blank, St. Paul
- Gary Leroy Blomster, Minneapolis
- Bernadine Marion Bloom, Minneapolis,
WITH DISTINCTION
- Linda Carol Erickson Bloomgren,
Richfield, WITH DISTINCTION
- Constance Virginia Boyd, Minneapolis,
WITH DISTINCTION
- Janet Eleanore Braun, B.S., St. Louis
Park
- Kathryn Hope Bridge, Minneapolis
- Marlene Paula Bromberg, Minneapolis
- Nancy Anne Brown, Minneapolis
- Sandra Lee Carlson, Bloomington
- Mary Carol Clarke, South St. Paul
- Susan Cecile Clemensen, A.A., Minneapolis
- John Paul Clinton, B.A., Minneapolis
- Frances Schmidt Clyde, Minneapolis
- Jane Ann Coffey, B.A., Minneapolis
- Sandra Dennison Cuffel, Minneapolis,
WITH DISTINCTION
- Linda Jo Cummer, Minneapolis
- Barbara Lucerne Dahms, Battle Lake
- Lois Ann DeGonda, Minneapolis
- Carolyn Schommer Dimond, St. Paul
- Laurelee Marie Distel, Le Sueur,
WITH DISTINCTION
- Bohdan Dmytryszyn, Minneapolis
- Donald Norman Doran, A.A., Monticello
- Cecile Evelyn Dunn Donnay, St. Paul
- Charlene Ann Doom, Canby
- Deborah Jean Dutilly, Long Lake

Barbara Jean Eframson, Minneapolis
 Sharlene Rivi Eigen, A.A., St. Louis
 Park
 Amy Louise Ellefson, Minneapolis
 Constance M. Engvall, Roseville
 Kenneth Eugene Evenson, Minne-
 apolis
 Grace Talsma Falk, Hopkins
 Camilla A. Ray Farley, Minnetonka
 Sharon Diana Feeney, St. Paul
 Courtney Lee Fenske, Minneapolis,
 WITH DISTINCTION
 Sharon Molly Fink, Minneapolis
 William James Flowers, St. Paul
 Sandra Noreen Frailich, St. Paul
 Roger Lewis Fredlund, St. Paul
 Jeanne Marie Gates, Minneapolis,
 WITH DISTINCTION
 Sally Ann Gayner, Minneapolis,
 WITH HIGH DISTINCTION
 Patricia Dena Gertz, Minneapolis
 Dianne Adrienne Ginakes, Fargo, N.D.
 Beverly Johnson Glazer, St. Louis Park
 Beverly Susan Greseth, Dawson
 Patricia Kay Gurwell, Albert Lea
 Margaret Jane Hagen, St. Paul,
 WITH DISTINCTION
 Kathryn Louise Halter, Minneapolis,
 WITH DISTINCTION
 Ruth Elizabeth Halverson, Minne-
 apolis, WITH DISTINCTION
 Robert Richard Hanson, Eden Prairie
 Michael Robert Hausauer, Ortonville
 Thomas Oscar Henderlite, St. Paul,
 WITH DISTINCTION
 Forrest Alan Hering, Minneapolis
 Kathlyn Mae Hickey, St. Paul
 Karen Sue Hinds, Rochester, WITH
 DISTINCTION
 Linda Louise Hogen, St. Paul
 Edward Maynard Holden, B.A.,
 Duluth
 Earl Leonard Hoover, Minneapolis
 Martin Francis Horrigan, St. Paul
 Brigitte Else Husaby, Minneapolis
 Ronald Paul Huston, Anoka
 Harriet Beverly Ingber, A.A., St. Louis
 Park
 David Thomas Jackson, A.A., Minne-
 apolis
 Robert Charles Jackson, St. Louis Park
 Richard Boyd Jacobson, A.A., Minne-
 apolis
 Barbara Lane Jay, A.A., Tracy, Calif.,
 WITH DISTINCTION
 Harold Martin Jessen, Jr., Crystal
 Diane Lyn Fenton Johnson, Litchfield
 Marlene Margaret Johnson, Minne-
 apolis
 Linda Jean Johnston, St. Paul
 Josephine Antoinette Kidd, Minne-
 apolis, WITH DISTINCTION
 Richard Eugene Kilstrom, St. Paul
 Kathleen Diane Kingsriter, Richfield
 Donna Knight Kirkpatrick, Bloomington
 Ronald James Kirsch, Grand Rapids
 Richard Wayne Kriebel, Minneapolis
 Kathleen Ann Testa Landucci, St.
 Paul, WITH DISTINCTION
 Janice Kay Lane, Minneapolis
 Gregory Searles Larsen, Faribault
 Rita Pearl Gurewitz Lerman, A.A.,
 St. Louis Park
 Jane A. Lichty, Austin
 Erica Lindemann, Minneapolis, WITH
 HIGH DISTINCTION
 Judith Margaret Lindman, Ortonville
 Heather Joyce Lindquist, Minneapolis,
 WITH DISTINCTION
 Paul Alan Livgard, St. Paul, WITH
 HIGH DISTINCTION
 Janice Virginia Henry Lobben, Win-
 dom
 Joan Merna Lundgaard, Minneapolis
 Janis Rae Lurye, Superior, Wis.
 Rosemary Ann Lutterman, Sherburn
 Dwight Philip Maxa, St. Paul, WITH
 DISTINCTION
 Karyn Lee McCance, Minneapolis
 Dianne Lee McInnis, Minneapolis
 Sara Joan Eaton Miller, Minneapolis
 Stephanie Jean Mills, Pine City
 Joan Moening, Owatonna
 Nancy Lynn Morgan, Chaska
 Luanne Larsen Nyberg, Minneapolis,
 WITH DISTINCTION
 Marcella Yon Opitz, Webster, S.D.
 Rita Anntoinette Opsahl, Minne-
 apolis
 Ramona Jeanne Johnson Perry, St.
 Paul

Curtis Edward Persson, North St. Paul
 Jean Paige Petersen, St. Paul
 Dorothy Marlene Vick Peterson, Minneapolis, WITH DISTINCTION
 JoAnne Gandrud Peterson, B.S., Montevideo
 Emilie Jean Quast, Hutchinson
 Mary Michele Rafferty, Minneapolis
 Jane Clare Rasmussen, Minneapolis
 Virginia Lofdahl Reber, B.A., Clarkfield
 Patricia Ann Recker, Minneapolis
 Mary Jean Remakel, Bigelow
 Mary Elaine Reuteler, Minneapolis
 Barbara Jean Ronning, Willmar
 Cynthia Clare Rye, Duluth, WITH DISTINCTION
 Mark Powers Ryman, Minneapolis
 Bruce Alan Sabatke, Coon Rapids
 Rachele Helen Sahl, St. Louis Park
 Mary Louise Schweppe, New Brighton
 Sue Ellen Slauson, Rice Lake, Wis.
 Mary Jane Squier, Minneapolis
 Sharon Virginia Stacken, Excelsior
 Leo Martin Stanislaw, St. Paul
 Judith Marie Steirly, Minnetonka
 Daniel Riley Stone, Minneapolis

Sandra Jean Stone, St. Paul
 Lynne Elizabeth Straka, St. Paul
 Douglas Keith Swanson, North St. Paul
 James William Thompson, White Bear Lake
 Kenneth Lee Thrall, Robbinsdale
 Sandra Louise Todora, St. Paul, WITH DISTINCTION
 Donnel Elmer Topness, South St. Paul
 Reid Stephan Trulson, A.A., Chatfield
 Pamela Van Heel, Minneapolis
 Anastasia Vavoulis, St. Paul, WITH DISTINCTION
 Raymond Kenneth Voelker, St. Paul
 Mary Louise Walker, Austin
 Martha Ann Wanninger, Minneapolis, WITH DISTINCTION
 Edmund Harry Webster, A.A., St. Paul
 Jocelyn Langager Welge, Webster, S.D.
 Terrence Donnelly Williams, Minneapolis, WITH DISTINCTION
 Susan Lee Palmer Withrow, St. Paul
 Marilyn Roselind Znaida, Minneapolis

Master of Education

Richard William Endres, B.A., Brainerd
 Mary Lois Needham, B.A., Princeton, Idaho
 Robert Francis Salmi, B.S., Minneapolis

John Sterner Walker, B.S., Minneapolis
 Hsiao-Yen Chen Yeh, B.A., Taipei, Republic of China

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

Bachelor of Science

Carol Adele Rieder Anderson, B.S., Long Lake, WITH DISTINCTION
 Linda Luella Baas, Parkers Prairie, Home Economics Education

Shirley Ruth Cuykendall, Sleepy Eye, Home Economics Education
 Mary Louise Hagen, Mabel, Home Economics Education

Glenn Joseph Hahn, A.A., Hayfield,
Agricultural Education
Warren Lee Kahler, Truman, Agricul-
tural Education
Donnella Gwyn Kluis, Chandler,
Home Economics Education
Jane Marie Lillestol, St. Paul, Home
Economics Education
Gordon Fred Lindquist, Ortonville,
Agricultural Education, WITH DIS-
TINCTION
Mary Margaret Maxwell, St. Paul,
Home Economics Education

Kathy Novak, Minneapolis, Home
Economics Education, WITH DIS-
TINCTION
Kathleen Ann Olson, Minneapolis,
Home Economics Education
Judith M. Osmondson, Hopkins,
Home Economics Education
Judith Bakos Peterson, Elk River,
Home Economics Education
Judith Ann Sauter, Wauwatosa, Wis.,
Home Economics Education
Maryette Camille Soiney, Preston,
Home Economics Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Frank Abramson, St. Paul, WITH DIS-
TINCTION
Gary Jerome Anderson, A.A., St. Paul
James Ridgway Baker, Minneapolis
Douglas Bernard Balfanz, Bloomington
Robert Stewart Beatty, Bloomington
William Stevenson Bloomer III, Way-
zata
Jay Bruce Brandt, Fairmont
Ron Jeffrey Butler, Anoka
Arthur Gary Canfield, Minneapolis
LeRoy Harold Carbert, Morris
Richard Ralph Carpenter, Minne-
apolis
Irving Lynne Carper, Minneapolis
David Daniel Carr, A.A., St. Paul
Robert Anthony Cavanaugh, St. Paul
Howard Bell Chatfield, Minneapolis
James Delos Clark, St. Paul
Gerald Lynn Dastych, Ivanhoe
William Clark Eitzen, Mountain Lake
Gary Anthony Gardner, St. Paul
Robert Myles Giese, Wyoming
Andrew Quintin Haak, Stillwater
Paul Eugene Hathaway, Bloomington
George David Hentges III, Rochester
Peter Asmund Highum, Austin
John Willis Hohl, Minneapolis
Keith Merlin Huso, Coon Rapids

Craig Robert Janssen, St. Paul
Daniel Louis Jensen, Ellendale
Stanley Fred Jurgensen, St. Paul
Richard Lawrence Kelsey, White Bear
Lake, WITH DISTINCTION
Howard Herman Marschel, Buffalo
Frederick Edwin Mattila, Minneapolis
Alfred Gerhard Mock, Minneapolis
Alan Oscar Mortenson, Minneapolis
Barbara Elaine Perry, Minneapolis
Jerry Wayne Peterson, Milaca
John Stewart Ries, A.A., Minneapolis
Robert Alfred Rudolph, Owatonna
George Scott Sanders, Richfield
William Edward Schlukebier, Jr.,
West St. Paul
Norman Paul Schuenke, Bloomington
Robert David Schwartz, A.L.A., Min-
neapolis
Ira Anthony Serebrin, St. Louis Park
Brenton George Sorlien, Minneapolis
Thomas Phillip Stillman, Minneapolis
Milton I. Tostrud, Albert Lea
Charles Orrin Tuchfarber, White Bear
Lake
Jamie William Viesselman, Minne-
apolis
John Thomas Patrick Wiklund, Min-
neapolis
Gerald Reuben Wobschall, Mazeppa

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

Bachelor of Agricultural Business Administration

Raymond John Hanson, Ellendale
Tom Paul Schumacher, St. Paul

George Charles Smith, Stillwater
Norman Alvin Svoboda, New Prague

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Thomas Hartland Codes, St. Paul

Kenneth Elroy Lundblad, Lowry

LAW SCHOOL

Juris Doctor

Andrew Joseph Joslin, A.B., Proy, R.I.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Kathleen Cora Blomberg, Red Wing

Bachelor of Science

Merriam Ruth Bernstein, Minneapolis,
Occupational Therapy

Sandra Lee Braman, Minneapolis,
Physical Therapy, WITH DISTINCTION

Marie Olivia Clark, Anoka, Medical
Technology*

Thomas Harland Coplin, B.A., Lake
Elmo, Physical Therapy

Robert Michael Dahl, A.A., Richfield,
Mortuary Science

Barbara Jane French, Minneapolis,
Physical Therapy

Marguerite Patricia Gardner, Fair-
mont, Physical Therapy, WITH DIS-
TINCTION

Carole Louise Gilbert, Morris, Physical
Therapy

* This degree is conferred subject to the completion of practical work prior to June 7, 1969.

Steven Iver Howie, A.A., A.M.S., St. Paul, Mortuary Science	Carol Lynn Peterson, White Bear Lake, Physical Therapy
Sister Virginia Marie Krumbiegel, B.A., Minneapolis, Physical Therapy	Mary Ann Rasmussen, Lake Crystal, Physical Therapy
Janet Jean Kuchenbecker, Jackson, Physical Therapy, WITH DISTINCTION	James Matthew Schaefer, Robbinsdale, Physical Therapy
James Frank Lazenby III, A.M.S., Macon, Ga., Mortuary Science	Mary Ann Simonitsch, A.L.A., Minneapolis, Physical Therapy
Carol Erickson Ledbetter, Grove City, Physical Therapy	Emery Thomas Lowell Smith, A.M.S., Gowrie, Iowa, Mortuary Science
Larry Edward Lohn, New London, Physical Therapy	Carol Marie Strom, Edina, Physical Therapy
Michael Clark Mathews, A.M.S., Columbus, Neb., Mortuary Science	Helen Margaret Taylor, St. Paul, Physical Therapy, WITH DISTINCTION
John Joseph Morrisette, A.M.S., North St. Paul, Mortuary Science	Gerald David Thill, A.M.S., Minneapolis, Mortuary Science

Master of Public Health

Donald James Wheeler, B.A., Minneapolis

GRADUATE SCHOOL

Master of Architecture

Takeki Okamoto, Kobe, Japan B.S.E. '56, Kobe University, Japan. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.	Raymond Wei Hwa Yeh, Bangkok, Thailand B.S. '65, B.Arch. '67, University of Oregon. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.
--	--

Master of Arts

Ann Marie Alexander, St. Paul B.A. '65, College of St. Catherine. Field of Concentration: Library Science. Major Adviser: Prof. N. J. Freeman.	Lorraine Virginia Ball, Wilmette, Ill. B.A. '65, Wells College. Field of Concentration: Theatre Arts. Major Adviser: Prof. M. M. Klein.
Emilio Ginouves Asenjo, Concepción, Chile '54, University of Chile. Field of Concentration: Education. Major Adviser: Prof. M. E. Corcoran.	Robert James Bantens, Chicago, Ill. B.F.A. '67, University of Illinois. Field of Concentration: Art History. Major Adviser: Prof. J. M. Nelson.
John Roger Asp, St. Paul B.A. '65, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.	Helen Emilie Barrows, Bremerton, Wash. B.A. '66, Central Washington State College. Field of Concentration: Library Science. Major Adviser: Prof. Yvonne Van der Boom.

Karen Louise Bloom, Fridley

B.A. *summa cum laude* '67, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tenynson.

Francis Xavier Blouin, Jr., Belmont, Mass.

B.A. '67, University of Notre Dame. Major: History. Minor: Political Science. Thesis: Boston, 1783-1822: The Politics of a Growing Urban Community. Major Adviser: Prof. John Howe.

Sharon Catherine Bonk, North Tonawanda, N.Y.

B.S.(Ed.) '65, State University College of Education, New York. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Richard Andrew Borstad, Fargo, N.D.

B.S. '63, University of Minnesota. Field of Concentration: Physical Education. Major Adviser: Prof. R. E. McAdam.

Jean T. Brust, Northfield

B.A. *summa cum laude* '65, University of Minnesota. Major: Anthropology. Minor: Neurology. Thesis: Toward an Ethnography of the Mentally Retarded in a State Institution. Major Adviser: Prof. L. P. Gerlach.

Kenneth Wayne Burgener, Brookfield, Mo.

B.A. '67, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. C. F. Smythe.

Quentin Charles Carlson, Osseo

B.S. '60, Gustavus Adolphus College. Field of Concentration: Physical Education. Major Adviser: Prof. R. E. McAdam.

Joel Michael Charon, Minnetonka

B.S. with distinction '61, University of Minnesota. Field of Concentration: Education. Major Advisers: Profs. F. A. Johnson and Edith West.

Sigrid Lund Christianson, Mankato

B.S. '64, Mankato State College. Field of Concentration: Education. Major Adviser: Prof. F. H. Wood.

Edward John Clancy, Holyoke, Mass.

B.A. *cum laude* '67, University of Massachusetts. Major: History. Minor: Political Science. Thesis: The Development of the Committee System in Parliament 1603-1629. Major Adviser: Prof. D. H. Willson.

Leslie Edward Danford, Jr., Minneapolis

B.A. '65, Miami University, Ohio. Major: Political Science. Minor: Sociology. Thesis: An Analysis of Sociological Correlates of Congressional Voting Behavior. Major Adviser: Prof. W. H. Flanagan.

Douglas James Daniels, Fridley

B.A. '66, University of Minnesota. Field of Concentration: French. Major Adviser: Prof. J. L. Waldauer.

Eugenia Catherine Holte Dixon, Shakopee

B.S. '67, University of Minnesota. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. R. P. McDermott.

Roger Alan Drewicke, Graceville

B.A. with high distinction '66, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

William Gary Driver, St. Paul

B.A. *cum laude* '66, Harvard College. Field of Concentration: Theatre. Major Adviser: Prof. Theodore Herstand.

William Theodore Emerson, Rochester, N.Y.

B.A. '66, Antioch College. Field of Concentration: Geography. Major Adviser: Prof. J. R. Borchert.

Robert Paul Erickson, Biwabik

B.S. '64, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. D. A. Johnson.

Robert G. Everding, Ballwin, Mo.

B.A. '67, University of Missouri. Field of Concentration: Theatre. Major Adviser: Prof. R. D. Moulton.

David Mark Feldshuh, Scarsdale, N.Y.

B.A. *cum laude* '65, Dartmouth College. Field of Concentration: Theatre. Major Adviser: Prof. A. H. Ballet.

Shannon Earl Fleming, Johnston, R.I.
B.A. '66, Rhode Island College. Major: History. Minor: Geography. Thesis: The Disaster of Annual: Spanish Colonial Failure in Northern Morocco, 1902-1921. Major Adviser: Prof. J. A. Thayer.

Peter A. Fog, Crookston
B.S. '49, North Dakota Agricultural College. Field of Concentration: Agricultural Education. Major Adviser: Prof. M. J. Peterson.

Charles William Forsberg, Minneapolis
B.A. '64, University of Minnesota. Field of Concentration: Music. Major Adviser: Prof. Paul Fetler.

Stephen Edward Frantzich, Minneapolis
B.A. with highest honors '66, Hamline University. Major: Political Science. Minor: Sociology. Thesis: Partisanship as a Purposive Activity: The Philippines. Major Adviser: Prof. F. J. Sorauf.

Dorothy Holcher Gauger, Hopkins
B.A. '65, Grinnell College. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Lawrence Charles Golden, Manchester, N.H.
B.A. *cum laude* '65, University of New Hampshire. Field of Concentration: Political Science. Major Adviser: Prof. M. Q. Sibley.

Albert Murray Gundersheimer, Flushing, N.Y.
B.A. '64, Queens College. Field of Concentration: Psychology. Major Adviser: Prof. R. V. Dawis.

Carolyn Lee Hagberg, Duluth
B.S. '67, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. D. G. Force, Jr.

Lee Roy Hegstrand, Robbinsdale
B.A. '65, Mankato State College. Field of Concentration: Area Studies. Major Adviser: Prof. T. G. Stavrou.

R. Jean Helgeson, Minneapolis
B.S. '59, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. B. E. Balow.

Donald George Herron, Elkhart, Ind.
B.A. '61, Aurora College. Field of Concentration: Sociology. Major Adviser: Prof. D. A. Martindale.

Virginia Haglin Hine, Miami, Fla.
B.A. '65, University of Minnesota. Major: Anthropology. Minor: Public Health. Thesis: Personal Transformation and Social Change: The Role of Commitment in a Movement. Major Adviser: Prof. L. P. Gerlach.

James Veikko Hirvela, Hibbing
B.S. '64, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. A. L. Stensland.

Rex Dean Honey, National City, Calif.
B.A. with honors '67, University of California. Field of Concentration: Geography. Major Adviser: Prof. J. W. Webb.

Barbara Sanderson Humphreys, Green Bay, Wis.
B.A. '45, Michigan State College. Field of Concentration: Education. Major Adviser: Prof. E. D. Gennaro.

Wallace Harlan Hustad, Eden Prairie
B.A. '55, St. Olaf College. Field of Concentration: Sociology. Major Adviser: Prof. A. L. Johnson.

Lorita Delma Ichikawa, Minneapolis
B.A. '62, University of Washington. Field of Concentration: Educational Psychology. Major Adviser: Prof. C. A. Parker.

Richard Alfred Johnson, Chanhassen
B.S. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. C. V. Goossen.

Sandra Lee Johnson, St. Paul
B.A. *cum laude* '63, Macalester College. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Walter Benjamin Kean, St. Paul
B.S. '54, Hamline University. Field of Concentration: Educational Psychology. Major Adviser: Prof. C. A. Parker.

Dixon Ellis King, Anoka
B.S. '61, Bemidji State College. Field of Concentration: Educational Psychology. Major Adviser: Prof. Jan Duker.

John Rodger Klippstein, Alexandria

B.A. '50, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

Karen Elizabeth Knutson, Chippewa Falls, Wis.

B.A. '60, B.S. '60, University of Minnesota. Field of Concentration: Music. Major Adviser: Prof. Johannes Reidel.

Richard Lee Kormanik, Minneapolis

B.S. '64, Macalester College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. G. Price.

Chrystyna L. Kryshnal, Chicago, Ill.

B.A.E. '66, School of the Art Institute of Chicago. Field of Concentration: Art Education. Major Adviser: Prof. C. A. Gayne.

Ruth Elizabeth La Quier, Minneapolis

B.S. cum laude '58, Wisconsin State College, Eau Claire. Field of Concentration: Library Science. Major Adviser: Prof. Patricia Turner.

Carol Louise Larson, Morris

B.A. '66, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. N. J. Freeman.

David Mitchell Larson, Fridley

B.A. with high distinction '66, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

Robert R. Lauritsen, St. Paul

B.A. '54, University of Minnesota. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. F. M. Lassarman.

Young Yon Lee, Seoul, Korea

B.A. '65, Ewha Womans University, Korea. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. P. Pearson.

Sally Grinde Legrand, Minneapolis

B.A. '61, Carleton College. Field of Concentration: Education. Major Adviser: Prof. S. B. Kegler.

Robert Iver Lerohl, Virginia

B.A. '65, University of Minnesota. Field of Concentration: Economics. Major Adviser: Prof. Edward Coen.

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B.A. '46, University of the Punjab; M.A. '50, L.T. '55, University of Lucknow, India; M.A. '64, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

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B.A. '60, University of South Africa; M.A. '66, Stanford University. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

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B.A. *summa cum laude* '62, Augsburg College. Major: Sociology. Minor: Psychology. Thesis: Role-taking and Commitment in Heterogamous Mate Selection. Major Adviser: Prof. A. L. Johnson.

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B.S. '48, University of Minnesota. Major: Sociology. Minor: Political Science. Thesis: The High School Drop-Off: A Study of Women Who Terminated Education with High School Graduation Related to Factors of School Residence, Parental and Educational Background, Employment, Migration and Family Status. Major Adviser: Prof. G. A. Donohue.

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B.S. in Educ. '58, Kansas State Teachers College. Major: Political Science. Minor: Sociology. Thesis: Power and Human Affairs. Major Adviser: Prof. F. J. Sorauf.

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Ing.Agro. '66, Catholic University of Chile. Field of Concentration: Economics. Major Adviser: Prof. E. M. Foster.

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B.S. '51, University of Minnesota. Field of Concentration: History. Major Adviser: Prof. T. G. Stavrou.

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B.A. '64, Hamilton College. Major: Physics. Minor: Mathematics. Thesis: Adiabatic Demagnetization Cryostat for Thermal Equilibrium Nuclear Orientation. Major Adviser: Prof. W. V. Weyhmann.

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B.A. *magna cum laude* '62, Gustavus Adolphus College. Field of Concentration: French. Major Adviser: Prof. A. A. Renaud.

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B.S. '65, University of Minnesota. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. R. P. McDermott.

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B.A. '60, Marquette University. Field of Concentration: Educational Psychology. Major Adviser: Prof. B. E. Balow.

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B.S. '64, Wisconsin State College, River Falls. Field of Concentration: International Relations. Major Adviser: Prof. R. E. Riggs.

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B.A. '66, Carleton College. Field of Concentration: Industrial Relations. Major Adviser: Prof. R. V. Dawis.

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B.A. *magna cum laude* '63, LL.B. '67, Yale University. Field of Concentration: Scandinavian. Major Adviser: Prof. Nils Hasselmo.

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B.S. with honor '66, University of Wyoming. Major: Physical Education. Minor: Psychology. Thesis: The Effects of Physical Exertion on Mental Performance and Cardio-respiratory Responses in College Males of Different Physical Fitness Levels. Major Adviser: Prof. J. F. Alexander.

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B.S. '59, M.D. '61, University of Minnesota. Major: Anthropology. Minor: Psychiatry. Thesis: Use of Alcohol and Opium Among Two Ethnic Groups in Laos. Major Adviser: Prof. R. C. Kiste.

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B.A. *summa cum laude* '65, St. Benedict's College. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

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Master of Arts in Public Administration

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B.A. '66, St. John's University. Major: Public Administration. Thesis: A Study of the Policy Making Process in the Accelerated R+D Programs at the Kennedy Space Center. Major Adviser: Prof. G. A. Warp.

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B.A. '50, Cornell University. Major: Public Administration. Thesis: A Study of the Administration of Church Extension in the Episcopal Diocese of Virginia. Major Adviser: Prof. G. A. Warp.

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Master of Business Administration

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Master of Fine Arts

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B.A. '66, University of Minnesota. Field of
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Master of Social Work

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B.A. '55, M.A. '59, St. Paul Seminary. Field of Concentration: Social Work. Major Adviser: Prof. Edward Francel.

Certificate of Specialist in Education

Richard Charles Jensen, Eden Prairie

B.A. '52, M.A. '57, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. Jan Duker.

Master of Science

Richard Orville Anderson, Minneapolis

B.S. '65, St. Cloud State College. Field of Concentration: Botany. Major Adviser: Prof. A. J. Brook.

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B.S.(Mech.E.) '59, Banaras Hindu University; M.Tech.(Mech.E.) '66, Indian Institute of Technology, Bombay. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. P. R. Sethna.

James Edward Carter, St. Paul

B.S.(Physics) cum laude '65, University of Santa Clara. Field of Concentration: Physics. Major Adviser: Prof. W. V. Weyhmann.

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Ing. '67, Ecole Nationale Supérieure de Mécanique, Nantes, France. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. P. R. Sethna.

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D.V.M. '66, University of California. Major: Veterinary Obstetrics and Gynecology. Minor: Biochemistry. Thesis: Seasonal Variation in the Chemical Composition of Equine Seminal Plasma. Major Adviser: Prof. Raimunds Zemanis.

Judith Joanne Ellestad, Stewartville

B.S. '62, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: The Influence of Amino Acid Interrelationships on the Amino Acid Pools in Growing Cells of *Leuconostoc mesenteroides* P-60. Major Adviser: Prof. R. J. Sirny.

David Henry Emme, Hopkins

B.Physics with distinction '67, University of Minnesota. Field of Concentration: Physics. Major Adviser: Prof. R. O. Pepin.

James Walter Enzmann, Cook

B.S. '66, University of Minnesota. Major: Nutrition. Minor: Physiology. Thesis: Nutritive Value of Poplar Bark for Lambs. Major Advisers: Profs. J. C. Meiske and R. D. Goodrich.

Barbara Guller, Lausanne, Switzerland

M.D. '57, University of Zurich, Switzerland. Major: Physiology. Minor: Pathology. Thesis: Tissue-Blood Exchange of Sodium in the Isolated Dog Heart. Major Adviser: Dr. J. B. Bassingthwaite.

Allen Hall III, St. Louis, Mo.

B.S.(Ag.) '59, D.V.M. '63, University of Missouri. Field of Concentration: Veterinary Pathology. Major Adviser: Prof. J. H. Sautter.

Dennis Albert Heinze, Lake Crystal

B.S. '67, University of Minnesota. Field of Concentration: Soil Science. Major Adviser: Prof. H. F. Arneman.

David Richard Hickman, Exeter, Calif.

B.A. '64, University of California. Major: Physics. Minor: Mathematics. Thesis: Automatic Reduction of Rocket or Satellite-Borne Scanning Mass Spectrometer Telemetry Data. Major Adviser: Prof. A. O. C. Nier.

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B.A.(B.A.) '64, National Taiwan University.
Field of Concentration: Business Administration. Major Adviser: Prof. J. M. Smith, Jr.

Daphne Alderson Hoskin, Somerset,
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B.S. with honors '66, University of Reading, England. Major: Plant Pathology. Minor: Genetics. Thesis: The Haustorial Sac of *Erysiphe graminis*. Major Adviser: Prof. W. R. Bushnell.

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B.S. '66, Hamline University. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. P. R. Sethna.

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B.S. '63, Purdue University. Field of Concentration: Entomology. Major Adviser: Prof. M. A. Brooks.

Thomas Walter Jones, Midland, Tex.

B.S.(Physics) with highest honors '67, University of Texas. Major: Physics. Minor: Mathematics. Thesis: Calculations of Instabilities Produced by a Beam of 40 Kev Electrons in the Ionosphere. Major Adviser: Prof. P. J. Kellogg.

Pearl Bik-Chu Lam, Hong Kong,
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B.A. '66, Carleton College. Major: Biology. Minor: Physical Chemistry. Thesis: A Glass Photolytic Investigation of the Kinetics of Isorhodopsin Bleaching. Major Adviser: Prof. D. C. Pratt.

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B.S. '62, Tennessee A. and I. State University. Field of Concentration: Entomology. Major Adviser: Prof. E. B. Radcliffe.

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B.A. with high honors '67, Rutgers University. Major: Mathematics. Minor: Internal Supporting Program in Mathematics. Thesis: Multipliers in L^p Spaces. Major Adviser: Prof. M. B. Pour-El.

David George Madland, La Crescent

B.A. '62, St. Mary's College. Major: Physics. Minor: Mathematics. Thesis: A One Dimensional Spark Chamber for Energy Analyzing Magnets. Major Adviser: Prof. N. M. Hintz.

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B.S. '65, University of Wisconsin. Field of Concentration: Zoology. Major Adviser: Prof. N. T. Spratt, Jr.

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B.A. '65, Amherst College. Major: Physics. Minor: Mathematics. Thesis: A Helium Three, Helium Four Dilution Refrigerator. Major Adviser: Prof. A. M. Goldman.

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B.A. cum laude '60, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: On the Reduction of the Generalized Eigenvalue Problem. Major Adviser: Prof. W. O. Munro.

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B.S. in Ed. '57, State Teachers College at California, Pennsylvania. Field of Concentration: Library Science. Major Adviser: Prof. N. J. Freeman.

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B.S. '65, Wisconsin State College, River Falls. Major: Agronomy. Minor: Plant Physiology. Thesis: The Palatability of Sorghum Species and Crosses as Related to Morphological Characteristics and HCN Content. Major Adviser: Prof. A. R. Schmid.

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B.S. '65, Bowling Green State University. Field of Concentration: Mathematics. Major Adviser: Prof. S. R. Arora.

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B.S. magna cum laude '65, College of St. Francis. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Partial Characterization and Purification of a Naturally Occurring Activating System of Cholesterol Biosynthesis. Major Adviser: Prof. M. E. Dempsey.

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B.S. '64, Fairleigh Dickinson University. Field of Concentration: Genetics. Major Adviser: Prof. V. E. Anderson.

Robert Lawrence Sajdak, Houghton,
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B.S. in For. with honor '59, Michigan College of Mining and Technology. Major: Forestry. Minor: Botany. Thesis: Variations in Bark Characters and Wood Specific Growth of Sugar Maple. Major Adviser: Prof. S. S. Pauley.

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B.A. '67, New York University. Field of Concentration: Biometry. Major Adviser: Prof. J. R. Boen.

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B.S. '59, University of Minnesota. Major: Dairy Husbandry. Minor: Agronomy. Thesis: Effect of Forage Quality on the Level of Milk Production in Sibley County Dairy Herds. Major Adviser: Prof. C. L. Cole.

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B.A. *cum laude* '65, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: The Effect of N-ethylmaleimide on Sporulation. Major Adviser: Prof. R. W. Bernlohr.

Donald Melvin Victor, Stillwater

B.S. with distinction '67, University of Minnesota. Major: Plant Physiology. Minor: Biometry. Thesis: The Effect of Leaf Age and Leaf Position Upon Photosynthetic Rate, Transpiration Rate, and the Gas Diffusion Resistances of *Glycine Max* (L.) Major Adviser: Prof. W. A. Brun.

Patrick Corkery West, Minneapolis

B.S.(For.) with distinction '67, University of Minnesota. Major: Forestry. Minor: Sociology. Thesis: Camping and Cohesiveness: A Sociological Study of the Effect of Outdoor Recreation on Family Solidarity. Major Adviser: Prof. L. C. Merriam, Jr.

Patrick Kelly Williams, Austin, Tex.

B.A. '66, University of Texas. Major: Biology. Minor: Botany. Thesis: Ecology of *Bufo Hemophrys* and *B. Americanus* Tadpoles in Northwestern Minnesota. Major Adviser: Prof. J. R. Tester.

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B.A. *cum laude* '67, St. Mary's College. Field of Concentration: Physics. Major Adviser: Prof. N. M. Hintz.

Master of Science in Aeronautical Engineering

John Louis Holmberg, Roseville

B.Aero.E. with distinction '67, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Mechanics of an Elastic Tube Extending From an Orifice Into a Pressure Vessel: Valve Action of the Ureter. Major Adviser: Prof. T. A. Wilson.

Master of Science in Chemical Engineering

Thomas Paul Pignet, Menomonee
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B.S.Ch.E. '67, University of Wisconsin. Major: Chemical Engineering. Minor: Mathematics. Thesis: Surface Reactions in a Stirred Tank Reactor Configuration. Major Adviser: Prof. L. D. Schmidt.

Richard Barry Spinak, Pocomoke City,
Md.

B.E.S. '67, Johns Hopkins University. Major: Chemical Engineering. Minor: Biochemistry. Thesis: Transport of Carbon Dioxide in Erythrocytes. Major Adviser: Prof. K. H. Keller.

Master of Science in Civil Engineering

James Leo Delker, Henderson, Ky.

B.C.E. '67, University of Detroit. Field of Concentration: Civil Engineering. Major Adviser: Prof. C. E. Bowers.

Master of Science in Dentistry

Patrick George Allen, Macon, Ga.

B.S. '56, Millsaps College; D.D.S. '58, University of Tennessee. Major: Dentistry. Minor: Pathology. Thesis: Mandibular Alveolar Ridge Extension by Autogeneous Full Thickness Oral Mucosal Grafts. Major Adviser: Dr. J. A. Giblisco.

Master of Science in Electrical Engineering

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B.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Holographic Methods of Spatial Filtering. Major Adviser: Prof. R. J. Collins.

James Lester Gilkinson, Minneapolis

B.E.E. with high distinction '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of the Ionic Species Present in R-F Plasmas of Argon and Argon-Cesium. Major Adviser: Prof. L. M. Chanin.

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B.S. in Eng. '65, National Taiwan University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Y. Kain.

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B.S. (Physics) with honors '67, University of Chicago. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Microwave System for the Detection of Photoconductivity and Generation-Recombination Noise, with Some Measurements on Cadmium Sulphide. Major Adviser: Prof. Allen Nussbaum.

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B.E.E. with distinction '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Electron Scattering in TA_{205} . Major Adviser: Prof. D. E. Anderson.

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'66 Norwegian Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: Computer Aided Manipulation of Rational Functions. Major Adviser: Prof. F. N. Bailey.

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B.S. with distinction '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise Studies in Linear Integrated Circuit Amplifiers. Major Adviser: Prof. Aldert van der Ziel.

John Frederick Roemer, Rochester

B.S.E.E. '64, University of Wisconsin. Field of Concentration: Electrical Engineering. Major Adviser: Prof. Allen Nussbaum.

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B.E.E. '63, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. Richard Halverson.

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E.E. '64, University of Louvain, Belgium. Major: Electrical Engineering. Minor: Mathematics. Thesis: Terrestrial Electric and Magnetic Fields Due to Auroral Jet Currents. Major Adviser: Prof. V. D. Albertson.

John Michael Viner, Minneapolis

B.S.E.E. with distinction '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Transistors at Elevated Temperatures. Major Adviser: Prof. Aldert van der Ziel.

Master of Science in Industrial Engineering

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B.E. '61, Nagpur University, India. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Dileep Raghuram Rao, Bombay, India

B.E.(Mech.) '67, University of Bombay. Field of Concentration: Industrial Engineering. Major Adviser: Prof. John White.

Master of Science in Mechanical Engineering

Prabhash Chandra Rastogi, Baraut,
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B.E. with honors '64, University of Roorkee, India. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. H. Liu.

Master of Science in Medicine (Internal)

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B.S. '52, Central University, Mexico; M.D. '59, National University of Mexico. Major: Medicine (Internal). Minor: Physiology. Thesis: Studies on the Experimental Production of the Hydralazine Syndrome and Evaluation of Its Relation to Systematic Lupus Erythematosus. Major Adviser: Dr. L. E. Ward.

Master of Science in Metallurgical Engineering

Padmaker Digambar Gangatirkar,
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B.Tech. '55, Indian Institute of Technology, Bombay. Major: Metallurgical Engineering. Minor: Mechanics and Materials. Thesis: Bauschinger Effect in Au-Pd Alloys Exhibiting Short-Range-Order. Major Adviser: Prof. M. E. Nicholson.

Ronald Martin Hays, Edina

B.S. '59, Columbia University. Major: Metallurgical Engineering. Minor: Mineral Engineering. Thesis: The Effect of pH of the Type of Amine, of the Particle Size and of Slimes on the Cationic Flotation of Semitaconites. Major Adviser: Prof. S. R. B. Cooke.

Chin-Chuan Frederic Lee, Taichung,
Taiwan, Republic of China

B.S.E. '64, National Taiwan University. Major: Metallurgical Engineering. Minors: Physical Chemistry and Mathematics. Thesis: Superconducting Properties of Non-Stoichiometric Hafnium Nitride. Major Adviser: Prof. L. E. Toth.

Kootalai Anathaiyer Natarajan,
Palghat, India

B.S. '62, University of Kerala; B.E. '64, Indian Institute of Science. Major: Metallurgical Engineering. Minor: Analytical Chemistry. Thesis: Behavior of Platinum Electrodes in Redox Potential Measurements in Some Hydrometallurgical Systems. Major Adviser: Prof. Iwao Iwasaki.

Pradyuman R. Patel, Banaras, India

B.S. (Met. Eng.) '68, Banaras Hindu University. Field of Concentration: Metallurgical Engineering. Major Adviser: Prof. Gust Bit-sianes.

Master of Science in Neurology

Jose Alberto Gutrecht, Buenos Aires,
Argentina

M.D. '60, University of Buenos Aires. Major: Neurology. Minor: Basic Neurologic Sciences. Thesis: Quantitative Teased Fiber and Histologic Studies of Sural Nerve of Man During Post Natal Development. Major Adviser: Dr. D. W. Mulder.

Master of Science in Obstetrics and Gynecology

Hiroya Toda Tahara, Tokyo, Japan

M.D. '62, University of Tokyo. Major: Obstetrics and Gynecology. Minor: Physiology. Thesis: Study on the Augmentation Reaction for the Assay of FSH. Major Adviser: Dr. R. B. Wilson.

Master of Science in Orthopedic Surgery

Lee Clark Detenbeck, Houston, Tex.

B.S. '61, Citadel; M.D. '64, University of Galveston. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Effect of Thyroid Hormone on Calcium Metabolism and Bone Turn-over. Major Adviser: Dr. Jenifer Jowsey.

Master of Science in Proctology

Chislain Joseph Devroede, Sherbrooke, Quebec, Canada

M.D. magna cum laude '62, Catholic University of Louvain, Belgium. Major: Proctology. Minor: Biometry. Thesis: Transport of Water and Electrolytes in Human Large Intestine. Major Adviser: Dr. R. J. Jackman.

Doctor of Philosophy

Osama Adhim Al-Zand, Baghdad, Iraq
Lic.(Comm. & Econ.) '59, University of Baghdad; M.S. '64, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Olive Oil Trade and Trade Policies in the Mediterranean Region. Major Adviser: Prof. J. P. Houck.

Wesley Dean Anderson, Rosemount

B.S. with distinction '49, D.V.M. '51, University of Minnesota. Major: Veterinary Anatomy. Minor: Pathology. Thesis: Studies of the Arterial Supply to the Canine Cerebellum and Brain Stem. Major Adviser: Prof. A. F. Weber.

George Edwin Bigelow, Hyattsville, Md.

B.S. with honors '65, University of Maryland. Major: Psychology. Minor: Educational Psychology. Thesis: Fixed-Ratio Schedules of Interresponse Time Reinforcement. Major Adviser: Prof. G. T. Heistad.

Patrick Alan Brooks, Cedar Falls, Iowa

B.A. '55, Yankton College; M.A. '58, University of Redlands. Major: American Studies. Thesis: William Allen White: A Study of Values. Major Adviser: Prof. B. R. Bowron, Jr.

Carlota Brack Cannon, Rosario, Argentina

Profesora en Inglis '61, Escuela Normal de Profesoras No. 1 "Nicolas Avellaneda"; M.A. '66, University of Minnesota. Major: Spanish. Minor: Supporting Program. Thesis: El Liberalismo de Pio Baroja. Major Advisers: Profs. D. E. Rundorff and W. T. Pattison.

John Aidan Carney, Rochester

B.Ch. '59, M.B., '59, B.S. '61, University College, Dublin. Major: Pathology. Minor: Hematology. Thesis: Morphology of Myosin and Thick Myofibril Diameter in Experimental Cardiac Hypertrophy. Major Adviser: Dr. A. L. Brown.

Ta Chen, Honan, China

B.S. '56, National Taiwan University; M.S.E.E. '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Theory of Hydromagnetic Progressive Waves and Its Applications to the Problems of the Interplanetary Shock Waves. Major Adviser: Prof. S. C. Lee.

James Harris Clarke, Morgantown, W.Va.

B.S.(Agri.) '35, M.S.(Agri.) '37, University of Kentucky. Major: Agricultural Economics. Minor: Economics. Thesis: Effect of an Advertising Campaign on Hot Cocoa Consumption. Major Adviser: Prof. M. C. Burk.

Lance Brian Crombie, St. Paul

B.S. '61, St. John's University; M.S. '66, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: The Influence of the Growth Phase of Gram Negative Bacteria on Their Sensitivity to the Antibody-Complement-Lysozyme System. Major Adviser: Prof. L. H. Muschel.

Susan Mary Sisco Daluge, Minneapolis

B.A. summa cum laude '64, Macalester College. Major: Organic Chemistry. Minors: Physical Chemistry and Inorganic Chemistry. Thesis: The Reactions of Certain Dispiroaminolactams and Dispiro-N-Hydroxylactams. Major Adviser: Prof. W. E. Noland.

Franklin Kennedy Deaver, Fayetteville, Ark.

B.S.Ch.E. '39, M.S.M.E. '60, University of Arkansas. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Interferometric Investigation of Convective Heat Transfer in a Horizontal Fluid Cylinder with Wall Temperature Increasing at a Uniform Rate. Major Adviser: Prof. E. R. G. Eckert.

Gerald Eager, Middletown, N.Y.

B.A. '56, Wesleyan University; M.A. '58, Columbia University. Major: Art History. Minor: Anthropology. Thesis: Fantastic Painting in America. Major Adviser: Prof. D. T. Tselos.

**Ahmed Hassan Ibrahim El Masry,
Helwan, Egypt**

B.Pharmacology '57, Cairo University. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: 190 Nonsteroid Hormones from Ergosterol. Major Adviser: Prof. Ole Gisvold.

R. Frank Falk, Salem, Ohio

B.A. '65, M.A. '66, San Francisco State College. Major: Sociology. Minor: Supporting Program. Thesis: Self Concept and Mobility Aspirations: A Study of Changing Self Definitions of Teacher Aides. Major Adviser: Prof. D. A. Martindale.

Jay Arnold Fisher, Chicago, Ill.

B.S.Ch.E. '63, Illinois Institute of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Transport Phenomena in Liquid Crystals. Major Adviser: Prof. A. G. Fredrickson.

Lars Erik Axel Folke, Malmo, Sweden

L.D.S. '62, Royal Dental School, Sweden; M.S.D. '66, University of Minnesota. Major: Anatomy. Minor: Dentistry. Thesis: Anatomical Considerations and Functional Behavior of the Microvasculature in the Oral Mucous Membrane. Major Adviser: Dr. R. E. Stallard.

Robert Francis Forston, Minneapolis

B.A. '63, M.A. '66, University of Minnesota. Major: Speech, Communication, and Theatre Arts. Minor: Supporting Program. Thesis: The Decision-Making Process in the American Civil Jury: A Comparative Methodological Investigation. Major Adviser: Prof. E. G. Bormann.

Jackson Leland Fox, Seaford, Del.

B.S. '61, Bucknell University; M.P.H. '65, University of Minnesota. Major: Environmental Health. Minor: Entomology. Thesis: The Epilithic Periphyton of the Western Arm of Lake Superior. Major Adviser: Prof. T. A. Olson.

Richard Thornton Fry, Corydon, Iowa

B.A. '61, Grinnell College; M.A. '63, University of Minnesota. Major: History. Minor: American Studies. Thesis: Community Through War: A Study of Theodore Roosevelt's Rise and Fall as a Prophet and Hero in Modern America. Major Adviser: Prof. D. W. Noble.

John V. Gillespie, Detroit, Mich.

B.A. with honors '64, Oakland University; M.A. '67, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Formal Models of Voting in the Mass Electorate: Toward a Theory of Political Elections. Major Adviser: Prof. Edwin Fogelman.

Gary Harold Glover, Minneapolis

B.S. with distinction '64, M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Millimeter Wave Interaction with an Indium Antimonide Magnetoplasma. Major Adviser: Prof. K. S. Champlin.

John Edward Golisch, Mount Prospect, Ill.

B.A. '54, Concordia Seminary. Major: Psychology. Minor: Neuropsychiatry. Thesis: Psychological Variables on Missouri Synod Lutheran Clergy. Major Adviser: Prof. S. R. Hathaway.

Arlin Enoch Gyberg, Luverne

B.S. '61, Mankato State Teachers College. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Light Scattering Studies in an Absorbing System with Application to Kinetic Studies on the Formation of Colloidal Lead Sulfide. Major Adviser: Prof. E. J. Meehan.

Philip William Hedrick, Indianapolis, Ind.

B.A. '64, Hanover College; M.S. '66, University of Minnesota. Major: Genetics. Minor: Supporting Program. Thesis: Selection in Finite Populations. Major Adviser: Prof. R. E. Comstock.

Edmund Dale Heerdt, Arthur, Ill.

B.S. '65, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: Non-Isothermal Local Equilibrium Absorption. Major Adviser: Prof. N. R. Amundson.

James William Holm-Kennedy, Riverside, Calif.

B.A. '60, University of California, Riverside; M.S. '63, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Microwave Investigation of Hot Electrons in Type N-Si. Major Adviser: Prof. K. S. Champlin.

Khalid Sulaiman Ishaq, Baghdad, Iraq
B.S.(Pharm.) '56, American University of Beirut. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: Enzymatic Inhibition Studies with Certain Digitalis Species and Syntheses of Certain Cardiac Glycosides Derivatives. Major Adviser: Prof. Ole Gisvold.

Duane Monroe Johnson, Minneapolis
P.A. *summa cum laude* '63, Westmont College. Major: Educational Psychology. Minor: Psychology. Thesis: Educational and Personality Characteristics of Two Groups of College Disciplinary Offenders. Major Adviser: Prof. Theda Hagenah.

Hazel Muriel Johnson, Minneapolis
B.S. with high distinction '46, M.Ed. '60, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Perceptions of Teaching Responsibilities in Baccalaureate Nursing Programs. Major Adviser: Prof. R. E. Eckert.

William Charles Knaak, White Bear Lake
B.S. '51, St. Cloud State College; M.A. '56, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: A Study of Legal Trends and School District Liability Experience for the Purpose of Predicting Ultimate Costs for School Districts in Minnesota if Tort Immunity Is Abrogated. Major Adviser: Prof. V. D. Mueller.

Ahmet Ferit Konar, Adapazari, Turkey
Dipl. of E.E. '52, Technical School of Istanbul; M.S.E.E. '57, M.S. '61, University of Michigan. Major: Control Sciences. Thesis: Synthesis of Optimal Hybrid Control Systems. Major Adviser: Prof. E. B. Lee.

Kenneth Mark Krall, Lebanon, Pa.
B.M.E. '63, Rensselaer Polytechnic Institute; M.S.M.E. '65, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Local Heat Transfer Around a Transverse Circular Cylinder in Slip Flow. Major Adviser: Prof. E. R. C. Eckert.

Virgil Lee Laing, Buffalo
B.S. with high distinction '63, M.S.E.E. '65, University of Minnesota. Major: Electrical Engineering. Minors: Mathematics and Physics. Thesis: Nonlinear RC Transmission Lines. Major Adviser: Prof. B. A. Shenoi.

Ross Gerald Legrand, St. Louis Park
B.A. '62, Carleton College. Major: Psychology. Minor: Supporting Program. Thesis: Aggression as the Reinforcer in a Study of Instrumental Learning. Major Adviser: Prof. Auke Tellegen.

Chung Ching Liu, Hupei, China
B.S. in Naval E.E. '54, Chinese Naval College of Technology; M.S. '61, National Tsing Hua University, Taiwan. Major: Physics. Minor: Mathematics. Thesis: The Separation of Charge at the Interface Between Various Phases of Water. Major Adviser: Prof. G. D. Freier.

Kenneth Donald MacKay, Detroit, Mich.
B.S.(Chem.) '64, University of Michigan. Major: Organic Chemistry. Minors: Physical Chemistry and Inorganic Chemistry. Thesis: The Conformational Analysis of Homoallylic Substituents on Cyclohexene. Major Adviser: Prof. E. W. Garbisch.

Kenneth Dale Mattsson, Mankato
B.A. '49, University of Minnesota; M.Ed. '53, Macalester College. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: The Relationships Between Certain Personality Factors of Student Teachers, Success in Student Teaching and Certain Responses from Drop-out Prone Pupils. Major Adviser: Prof. G. M. A. Mork.

John Theodore McConville, Yellow Springs, Ohio
B.A. '53, University of New Mexico; M.A. '59, University of Arizona. Major: Anthropology. Minor: Supporting Program. Thesis: Estimated Segmental Parameter for Human Body Models. Major Advisers: Profs. O. E. Johnson and R. I. Murrill.

Paul Robert Messbarger, Milwaukee, Wis.
B.A. '56, St. Benedict's College; M.A. '58, University of Notre Dame. Major: American Studies. Thesis: American Catholic Dialogues 1884-1900: A Study of Catholic Fiction. Major Adviser: Prof. T. L. Smith.

Clarence Alphonso Miller, Houston, Tex.
B.A. *summa cum laude* '61, B.S.Ch.E. '61, Rice University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Interfacial Instability Due to Electrical Forces in Double Layers. Major Adviser: Prof. L. E. Scriven.

Vishwa Mohan Mishra, Norman,
Okla.

B.A. with honors '54, M.A. '56, Patna University, India; M.A. '58, University of Georgia. Major: Mass Communication. Minor: Psychology. Thesis: Mass Media Use Patterns and Modernization Processes in the Indian Slums: A Study of Four Basties in Greater New Delhi. Major Adviser: Prof. P. J. Tichenor.

Carl Ames Mohn, Red Wing

B.S. '60, M.S. '64, University of Minnesota. Major: Forestry. Minor: Genetics. Thesis: A Study of the Genetic Control of Shoot Growth Patterns in *Populus Trichocarpa*. Major Adviser: Prof. S. S. Pauley.

Coenraad Luttig Mohr, St. Louis, Mo.

B.Comm. '49, University of Stellenbosch, Union of South Africa; M.A. '55, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: An Analysis of Employer Attachment as a Factor in Labor Market Adjustment—Labor Market Experience of Minnesota Unemployment Compensation Claimants, 1956-58. Major Adviser: Prof. H. G. Heneman, Jr.

Thomas James Moran, Delano

B.S. in Eng.Sci. *cum laude* '60, University of Notre Dame; M.S. '65, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Stability in the Large Nonlinear Dynamical Systems. Major Adviser: Prof. P. R. Sethna.

Robert L. Mortenson, Minneapolis

B.S. with distinction '64, M.S.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Junction-Gate Field-Effect Transistors. Major Adviser: Prof. Aldert van der Ziel.

John Eoff Oliver, Jr., Athens, Ga.

D.V.M. '57, Agricultural and Mechanical College of Texas; M.S. '66, Auburn University. Major: Veterinary Anatomy. Minor: Neurology. Thesis: Spinal Origin of the Sympathetic, Parasympathetic and Somatic Components of the Micturition Reflex. Major Adviser: Prof. A. F. Weber.

William Cary O'Mara, St. Paul

B.A. '64, Bellarmine College. Major: Physical Chemistry. Minor: Supporting Program. Thesis: Trapped Hole-Centers in Magnesium Oxide. Major Adviser: Prof. J. E. Wertz.

David Osborne, St. Louis Park

B.A. '63, M.A. '65, Temple University. Major: Psychology. Minors: Psychiatry and Neurology. Thesis: MMPI Validity: A Moderator Variable Approach. Major Adviser: Prof. J. N. Butcher.

Inga Rockswold Platou, Litchville,
N.D.

B.A. '44, State Teachers College, North Dakota; M.A. '48, University of Minnesota. Major: Art History. Minor: Philosophy. Thesis: The Art Colony at Skagen, Its Contribution to Scandinavian Art. Major Adviser: Prof. D. R. Torbert.

Maturu Krishna Pramoda,
Vizianagram, A.P., India

B. of Pharm. '60, M. of Pharm. '61, Andhra University, India; M.S. '66, University of Minnesota. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Influence of Physical Properties of Particulate Solids on the Rate Processes of Mixing and Segregation. Major Adviser: Prof. E. G. Rippie.

William Scott Ramsey, South Bend,
Ind.

B.A. '61, Indiana University; M.S. '66, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Synthesis and Function of Stable Messenger Ribonucleic Acid in Microcysts of *Myxococcus xanthus*. Major Adviser: Prof. Martin Dworkin.

George William Rehm, Columbus,
Ohio

B.S. in Agr. '63, Ohio State University; M.S. '65, University of Minnesota. Major: Soil Science. Minor: Plant Physiology. Thesis: The Effect of Ammonium and Nitrate Nitrogen on Sulfate Uptake by Corn (*Zea mays*). Major Adviser: Prof. A. C. Caldwell.

James Ashton Riley, Minneapolis

B.S. '60, University of Minnesota; M.A. '64, Temple University. Major: Physics. Minor: Mathematics. Thesis: The Interaction of a Pulsed Atomic Oxygen Beam with Various Surfaces. Major Adviser: Prof. C. F. Giese.

Joan Samour Rosenfield, Concord,
Mass.

B.A. *cum laude* '61, Brandeis University. Major: Physical Chemistry. Minor: Physics. Thesis: On the Lower-Lying Electronic States of Sulfides and Sulfoxides. Major Adviser: Prof. A. J. Moscovitz.

Richard B. Rosewall, Evanston, Ill.

B.S. with distinction '50, M.Ed. '52, University of Minnesota. Major: Music. Minor: Education. Thesis: Singing Schools of Pennsylvania, 1800-1900. Major Adviser: Prof. Johannes Riedel.

James Emerson Ross, Minneapolis

B. of Math. with distinction '61, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Estimates for Systems of Quasilinear Differential Equations with Applications to Existence Problems. Major Adviser: Prof. J. B. Serrin.

Wayne Asher Sanford, Winona

B.S. '47, M.A. '51, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: Pupil Cognitive Learnings as Related to Classroom Verbal Reaction Behaviors of Secondary School Pupils and Student Teachers. Major Adviser: Prof. G. M. A. Mork.

Yoshiyasu Sato, Abiko-Machi, Japan

B.E. '61, Waseda University, Japan; M.S. Met.E. '66, University of Minnesota. Major: Metallurgical Engineering. Minors: Physical Chemistry and Physics. Thesis: Low-Temperature Specific Heats of Cu-Pd Alloys. Major Adviser: Prof. J. M. Sivertsen.

Philip David Seat, Hampton, Va.

B.A. '64, University of Richmond. Major: Psychology. Minor: Child Psychology. Thesis: The Construction of General Maladjustment Scales for the Personality Inventory for Children. Major Adviser: Prof. R. D. Wirt.

Robert Edward Sherman, Minneapolis

B.A. '58, M.S. '63, University of Minnesota. Major: Biometry. Minor: Statistics. Thesis: The Problem of the Unknown Mixture Proportion in the Classification of Observations from a Mixture of Two Known Normal Populations. Major Adviser: Prof. B. W. Brown, Jr.

Daniel Da-Fong Shiao, Taipei,
Taiwan, Republic of China

B.S. '58, National Taiwan University; M.S. '63, New Mexico Highlands University. Major: Physical Chemistry. Minor: Supporting Program. Thesis: The Thermodynamic Stability of Protein Conformations. Major Adviser: Prof. R. W. Lumy.

Yousuf Siddiqui, Karachi, Pakistan

B.S. '56, Osmania University, India; M.S. '64, University of Minnesota. Major: Veterinary Bacteriology. Minor: Public Health. Thesis: Epidemiological Studies of Salmonella Heidelberg Infection in Turkeys. Major Adviser: Prof. B. S. Pomeroy.

Robert Howard Smith, Rochester

B.S. '51, Gustavus Adolphus College; M.A. '57, University of Minnesota. Major: Educational Administration. Minor: Education. Thesis: A Comparison of Instructional Evaluations by Teachers and Supervisors Using Video Tape. Major Adviser: Prof. C. P. Hooker.

Sara Ellen Stambaugh, Lancaster, Pa.

B.A. cum laude '59, Beaver College; M.A. '66, University of Minnesota. Major: English. Minor: History. Thesis: Towards the Short Story: British Short Fiction of the Eighteen-Nineties. Major Adviser: Prof. G. R. Stange.

Charles William Swann, Neillsville,
Wis.

B.S.(Agri.) '63, M.S.(Agro.) '64, University of Wisconsin. Major: Agronomy. Minor: Plant Physiology. Thesis: Physiological Aspects of Trifluralin Herbicidal Activity. Major Adviser: Prof. Richard Behrens.

Sherman Thomas, Limon, Costa Rica

Lic. '61, University of Costa Rica. Major: Inorganic Chemistry. Minors: Physical Chemistry and Organic Chemistry. Thesis: Solvation and Solvent Exchange in Dimethyl Sulfoxide Water Mixtures of Aluminum (III) and Platinum (II) Ions. Major Adviser: Prof. W. L. Reynolds.

Susan Erickson Allen Toth, St. Paul

B.A. magna cum laude '61, Smith College; M.A. '63, University of California. Major: English. Minors: History and Art History. Thesis: More than Local Color: A Reappraisal of Rose Terry Cooke, Mary Wilkins Freeman, and Alice Brown. Major Adviser: Prof. C. H. Foster.

Govindankutty Thekke Vatassery,
Tripayar, India

B.S. with honors '60, M.S. '62, University of Kerala, India. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Studies of the Constitution of Bone Mineral and of the Calcification Mechanism. Major Adviser: Prof. W. D. Armstrong.

**Charles Edwin Vaughan, South
Charleston, W.Va.**

B.A. '60, West Virginia University; M.A. '67, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: An Empirical Study of the Relationship Between Participation in University Extracurricular Activities and Student Alienation. Major Adviser: Prof. D. A. Martindale.

Allan Andrew Virta, Shoreview

B.S. '41, M.S. '53, University of Minnesota. Major: Agricultural Education. Minor: Horticulture. Thesis: An Analysis of Essential Competencies Needed by Workers in the Ornamental Horticulture and Greenhouse Industries. Major Adviser: Prof. M. J. Peterson.

**Mary Ellen Warters, Des Moines,
Iowa**

B.A. '47, Oberlin College; M.S. '52, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: A Faunistic and Ecological Study of the Insects Found on the Corn Plant in Minnesota. Major Adviser: Prof. H. C. Chiang.

**Philip Craig Weiser, Mercer Island,
Wash.**

B.S. '63, University of Washington; M.S. '67, University of Minnesota. Major: Physiology. Minor: Biochemistry. Thesis: The Calorigenic Effect of Glucagon and Epinephrine: A Comparative Study Investigating the Control of Fatty Acid Metabolism in Dogs and Geese. Major Adviser: Dr. Francisco Grande.

Marlin James Wiemer, Boone, Iowa

B.A. '57, St. Olaf College. Major: Psychology. Minors: Psychiatry and Neurology. Thesis: Dogmatism and Future Time Perspective in Seminary Students. Major Adviser: Prof. J. N. Butcher.

**Wai Cheong Wong, Sagil, Johore,
Malaysia**

B.S. '62, Nanyang University, Singapore. Major: Animal Science. Minor: Genetics. Thesis: Inheritance of Performance Traits in Purebred and Crossbred Populations of Swine. Major Adviser: Prof. W. J. Boylan.

Doctor of Philosophy in Surgery

Gary Williams Lyons, Minneapolis

B.S. '56, Pennsylvania State University; M.D. '60, University of Pittsburgh. Major: Surgery. Minor: Physiology. Thesis: Preservation of Whole Organs by Hypothermia and Hyperbaria with Particular Reference to the Kidney. Major Adviser: Dr. R. C. Lillehei.

President's Reception

MARCH, 1969

- 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. Refreshments will be served.
- Those in the receiving line will be President and Mrs. Moos; President and Mrs. Wofford; and Mr. Edwin Haislet, Director of Alumni Relations.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Navy ROTC, Gamma Sigma Sigma Service Sorority, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

June Commencement, 1969

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

MEMORIAL STADIUM

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

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

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable George W. Rauenhorst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Mr. James F. Hogg, 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 eighteenth 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 preparation is offered. Since its founding, the University has awarded more than 208,560 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 45,000 students annually on its Twin Cities, Duluth, Morris, Crookston, 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 six 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 Horticultural Research Center and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless experiments of vital importance to the future health and welfare of us all. Research 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 Minnesota 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 biomedical 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.

As it meets the needs of present students, the University must also make plans for those of the future. The 47,534 students who enrolled at the University at the beginning of the 1968-1969 academic year represented nearly one-half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1967 LEGISLATURE granted the University \$110,893,275 for general operations and maintenance during the 1967-1969 biennium. In addition, the University received \$9,401,100 for University Hospitals; \$9,883,460 for special appropriations, including special extension and research activities; \$22,739,346 for new buildings, land, and the rehabilitation of existing buildings; and \$955,000 for the University of Minnesota Technical Institute, Crookston.

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 1967-1968 showed that the University's current income amounted to \$196,515,675.43. Of the total received, \$17,146,177.31 came from student tuition and fees; \$30,280,089.30 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and sales of bulletins and agricultural products; \$1,669,798.78 from intercollegiate athletics; \$27,376,182.44 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 \$9,847,348.82 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also, \$47,079,539.59 came from the federal government for instruction, research, and agricultural extension. The State provided \$63,116,539.19 or 32.1 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$21,486,114.

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, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations.

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 Miss Janet Orjala, College of Liberal Arts, '70, University Carillonneur. The Commencement Exercises in Memorial Stadium are open to all; guest cards are not necessary. 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 Bandmaster Fred A. Nyline, B.S., will play:

<i>Chester</i>	William Schuman
<i>South Pacific</i>	Richard Rodgers
<i>Overture for Winds</i>	Charles Carter
<i>Rodgers and Hart Medley</i>	Richard Rodgers

PROCESSION: At 7:30 p.m. the Mace Bearer, Professor John G. Darley, Ph.D., College of Liberal Arts, will carry the Mace onto the platform, heralding the arrival of the academic procession of candidates for degrees. The procession includes the candidates, marching by colleges, the faculty, distinguished guests, and the Regents. The line of march for degree candidates is as follows: Department of Military Science; Department of Naval Science; Department of Aerospace Studies; General Extension Division; General College; College of Liberal Arts; University College; College of Biological Sciences; Institute of Technology; College of Agriculture, Forestry, and Home Economics in 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 Graduate School. Faculty Marshals are Professor Darley; Professor Ralph H. Hopp, Ph.D., University Libraries; Professor Herbert G. Heneman, Ph.D., Industrial Relations Center; and Professor Rutherford Aris, Ph.D., Institute of Technology. During the procession the Bands will play:

<i>Pomp and Circumstance</i>	Edward Elgar
<i>Crown Imperial</i>	William Walton

PRESENTATION OF COLORS: Following the procession, the Color Guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, will present the colors. The audience will rise for the colors and will remain standing for the National Anthem and the Invocation.

* In the event of heavy rain, Commencement Exercises will be held in Northrop Memorial Auditorium. However, only the members of the graduating class will be in the Auditorium. Each graduate has been issued two rain guest cards. Guests holding these cards may go to the location designated on their cards where they can listen to the Exercises. All our guests should know that the Commencement Exercises will be carried live on KUOM, beginning at 7:30 p.m., and may be listened to from any radio that is available.

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

O, say! can you see, by the dawn's early light,
What so proudly we hail'd at the twilight's last gleaming,
Whose broad stripes and bright stars, thro' the perilous fight,
O'er the ramparts we watch'd were so gallantly streaming?
And the rockets' red glare, the bombs bursting in air,
Gave proof thro' the night that our flag was still there.
O, 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 Carl C. Caskey, Wesley Foundation Campus Minister and Chairman of the Council of Religious Advisers.

SPEAKING FOR THE UNIVERSITY OF MINNESOTA: President Malcolm Moos, Ph.D.

CONFERRING OF ROTC CERTIFICATES: Vice President Donald K. Smith, Ph.D., Administration, will introduce Colonel William D. Beard, USA, Professor of Military Science; Captain William Broughton, Professor of Naval Science; and Major John Gill, Professor of Aerospace Studies, who will present the candidates for commissions in their respective services. The certificates of ROTC completion will be presented by President Moos.

PRESENTATION OF CANDIDATES: Vice President Smith will introduce the deans of the several colleges or their representatives, who will present to President Moos the candidates for certificates and degrees. They are, in order of their introduction, Dean Willard L. Thompson, Ph.D., General Extension Division; Dean Alfred L. Vaughan, Ph.D., General College; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Professor Morris E. Nicholson, Ph.D., University College; Dean Richard S. Caldecott, Ph.D., College of Biological Sciences; Dean Warren B. Cheston, Ph.D., Institute of Technology; Dean Sherwood O. Berg, Ph.D., Institute of Agriculture; Dean Robert J. Keller, Ph.D., College of Education; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Dean Lawrence C. Weaver, Ph.D., College of Pharmacy; Dean William B. Lockhart, S.J.D., Law School; Dean William T. S. Thorp, D.V.M., College of Veterinary Medicine; Dean Erwin M. Schaffer, D.D.S., School of Dentistry; Dean Robert B. Howard, M.D., College of Medical Sciences; and Dean Bryce Crawford, Jr., Ph.D., Graduate School.

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

A FAREWELL FROM THE OUTGOING PRESIDENT OF THE MINNESOTA STUDENT ASSOCIATION: Mr. Joseph M. Kroll, '69, College of Liberal Arts.

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

PRESENTATION OF DIPLOMAS: With Dean Edmund G. Williamson, Ph.D., Office of the Dean of Students, presiding, all members of the June graduating class will move to the stage to receive their diplomas. Assisting the deans of the several colleges in the presentation of diplomas are Associate Dean Donald Z. Woods, Ph.D., General Extension Division; Assistant Dean Norman W. Moen, Ph.D., General College; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; Dean Alfred L. Vaughan, Ph.D., University College; Assistant Dean Norman S. Kerr, Ph.D., College of Biological Sciences; Associate Dean Richard A. Swalin, Ph.D., Institute of Technology; Assistant Dean Keith N. McFarland, Ph.D., Institute of Agriculture; Assistant Dean Jack Merwin, Ph.D., College of Education; Associate Dean George Seltzer, Ph.D., School of Business Administration; Associate Dean Frank E. Di Gangi, Ph.D., College of Pharmacy; Assistant Dean Robert F. Grabb, LL.B., Law School; Associate Dean Robert K. Anderson, D.V.M., College of Veterinary Medicine; Assistant Dean Mellor R. Holland, M.S.D., School of Dentistry; Associate Dean H. Mead Cavert, M.D., College of Medical Sciences; and Associate Dean Warren E. Ibele, Ph.D., Graduate School.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: President Moos will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his academic hood, he will be presented individually by Dean Crawford.

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

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

AULD LANG SYNE: The Frances Miller Brown Memorial Bells.

(There will be no Recessional.)

The flags that border either side of the platform this evening represent the countries of some 1,300 foreign students who are at the University. The United States flag and the flag of the State of Minnesota, as is customary, will be presented as a part of the Commencement ceremony itself. The number of students from foreign lands who are taking courses at the University, and their presence on the campus today, illustrate the extent to which our nation and our major universities are involved in international relationships. The flags you see this evening represent the following countries:

Afghanistan	Ghana	Norway
Angola	Greece	Pakistan
Argentina	Guatemala	Panama
Australia	Guyana	Peru
Austria	Haiti	Philippines
Barbados	Hong Kong	Poland
Belgium	Iceland	Portugal
Bolivia	India	Republic of China
Botswana	Indonesia	Republic of the Congo
Brazil	Iran	Rhodesia
Bulgaria	Iraq	Saudi Arabia
Burma	Ireland	Singapore
Cameroon	Israel	South Africa
Canada	Italy	Spain
Central African Republic	Jamaica	Surinam
Ceylon	Japan	Sweden
Chile	Jordan	Syria
China — Taiwan	Kenya	Tanzania
Colombia	Korea	Thailand
Costa Rica	Kuwait	Trinidad and Tobago
Cuba	Lebanon	Tunisia
Cyprus	Liberia	Turkey
Czechoslovakia	Libya	Uganda
Denmark	Macao	United Arab Republic
Dominican Republic	Malawi	United Kingdom
Ecuador	Malaysia	Upper Volta
El Salvador	Mexico	Uruguay
Ethiopia	Nepal	Venezuela
Finland	Netherlands	Vietnam
France	New Zealand	Yugoslavia
Germany	Nigeria	

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Armor

Louis F. Anderson, Sandstone
Robert M. Engeset, Minneapolis

Gregory O. Moon, Minneapolis

Second Lieutenant, Artillery

Thomas W. Carter, Minneapolis
Michael J. Scanlan, Minneapolis

Glenn F. Sorlie, Bismarck, N.D.

Second Lieutenant, Chemical Corps

Thomas J. Herold, St. Paul

Second Lieutenant, Corps of Engineers

James G. Kuklok, Anoka
Cecil W. Swason, Renner, S.D.

Thomas E. Walsh, Richfield

Second Lieutenant, Infantry

Ross R. Arneson, Minneapolis
Dennis W. Cunningham, Kenyon
James D. Draper, Minneapolis
Robert W. George, West St. Paul
Mark E. Harlan, Minneapolis

James O. Redman, Red Wing
Donald R. Stewart, Edina
Maurice L. Smith, St. Paul
Gerald E. Wallin, St. Paul
Jon H. Westby, Minneapolis

Second Lieutenant, Military Intelligence

Randolph L. Jones, Jr., Minneapolis
Noe Palacios, St. Paul

Jeffrey F. Shaw, Minneapolis

Second Lieutenant, Military Police

James M. Burkhardt, Wabasha

Second Lieutenant, Ordnance Corps

Donald I. Groth, Hardwick

Second Lieutenant, Quartermaster Corps

Steven E. Przymus, Minneapolis

Second Lieutenant, Signal Corps

Michael L. Lechtman, St. Paul

David J. Mueller, St. Paul

Second Lieutenant, Transportation Corps

Larry E. Holmberg

LeRoy F. Werges, Jr., Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

James Stephen Anderson, Bloomington	Michael Edward Mulvaney, Minneapolis
Craig Jeffrey Baldridge, Stone Lake, Wis.	Robert Stephen Peck, Manitowoc, Wis.
Dennis Arthur Behm, Grand Rapids	Marc Paul Saltzman, Willow Grove, Pa.
Theodore Howard Broman III, Sunnyvale, Calif.	Michael Bruce Sellman, St. Paul
James Larry Garvin, Balaton	Edward Frederick Shaver, Richmond, Va.
Gordon Earl Lipsy, Hill City	David Lee Skelton, Silver Bay
Dirk Linsey McNeely, Luverne	Peter Enock Stiff, Lynnfield, Mass.
Richard Salter Miller, Jr., St. James, N.Y.	David Gerald Whall, St. Paul
Peter Anthony Misslin, Garrison, N.D.	

Ensign, USNR

John Philip Larrivee, Edina	William Joseph Swanstrom, Duluth
Thomas James Marcy, Minneapolis	John Edward Sweeney, Jr., St. Paul

Second Lieutenant, USMC

Michael Allen Ray, Red Wing

Second Lieutenant, USMCR

Theodore Dale Ellingson, St. Paul

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Robert P. Bielenberg, Dodge Center	Gregory M. Johnson, Minneapolis
Charles M. Burns, Minneapolis	John W. Lehman, Rochester
Gregory J. Carlson, St. Paul	Dwayne L. Leistico, Worthington
Brian O. Christianson, Austin	Donald E. Link, Rochester
Dennis E. Dalen, Austin	Richard J. Lowe, Bigelow
Chris E. Doepke, Golden Valley	Mark S. Moilanen, Minneapolis
Fred J. Erickson, Olivia	Paul T. Nelson, Wahpeton, N.D.
George R. Frost, Minneapolis	John E. Stith, Alamogordo, N.M.
James E. Jensen, Minneapolis	James A. Telinda, St. Paul
Edward A. Jenson, Pelican Rapids	Stephen W. Voigt, St. Paul
Bruce L. Johnson, Stillwater	

Candidates for Graduation

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

Accounting Certificate

Darold Roy Strand, Minneapolis

Business Administration Certificate

William Leslie DeCoursey, Minneapolis

Civil Engineering Technician Certificate

Marilyn Ruth Schroeder, St. Paul

Engineering Science Certificate

Harold Edward Schertner, Minneapolis

Associate in Mortuary Science

Conrad Lynn Anderson, A.A., St.
Edward, Neb.

Larry Bruce Belmont, Henning
Dallas Leo Dafford, Dunn, N.C.

Dean DuWayne Dickinson, B.S.,
LaCrosse, Wis.

John Crandall Florin, B.A., Benton
Harbor, Mich.

Charles Edwin Goebel, Freeport

Charles Dean Hastings, Le Roy

Paul Allen Hauge, Stillwater

Billy Hugh Hines, Stewartville

Mildred Gail Junker, St. Paul

Leon Rodney Keranen, Menahga

Richard Noble Klecatsky, South St.
Paul

Karl Ruben Krohn, B.S., Wauwatosa,
Wis.

Larry Dean Oolman, Orange City,
Iowa

Joe Larrie Reed IV, Tampa, Fla.

Rlynn Craig Rockman, Chester, Mont.

Donald L. Schrader, Cheyenne, Wyo.

Durin Luverne Smith, Albert Lea

Gene Clemence Stifter, Hopkins

Eric Reid Trimble, B.A., Moline, Ill.

John William Wondra, B.S., St. Paul

Larry Lynn Wulff, Albert Lea

GENERAL COLLEGE

Associate in Arts

Sandra Diane Adamson, St. Paul

Kathryn Ann Aga, Minneapolis

Linda Sharon Ahlbom, Richfield

Ronald Thomas Amlotte, St. Paul

David James Anderson, St. Paul

Owen Robert Anderson, Richfield

William Jay Andler, St. Paul

Laurel Lynn Andrews, Bloomington

Stephen Alan Ault, Brainerd

Harold Owen Aurness, Minneapolis

Richard Ellis Bachrach, St. Paul

David Thomas Bakula, St. Paul

Gerald Allen Barth, Anchorage,
 Alaska
 James Allen Basco, St. Paul
 Robert Lansing Bement, Minneapolis
 Sandra Bea Berg, St. Paul
 Joseph Arvid Berglund, Minneapolis
 Kathleen Joy Berthiaume, St. Paul
 Bradley Steven Billiet, Minneapolis
 Michael Leigh Blazevec, Minneapolis
 Taras Borowsky, Minneapolis
 Roger Allen Borseth, Minneapolis
 Richard J. Boyer, Minneapolis
 Gordon Roger Brown, Edina
 John Carpenter Bucklin, Minneapolis
 Virginia Mary Burg, St. Paul
 Lon Robert Button, Edina
 Mary Ann Butwinick, St. Paul
 Barbara Helen Carlson, St. Paul
 Kathy Eileen Carlson, Alexandria
 Richard John Carlson, Minneapolis
 Scott Richard Carlson, New Brighton
 Richard Earland Carpenter, Jr., St.
 Paul
 Thomas Stoddard Carpenter, Duluth
 Terry Lee Carr, Bloomington
 James Ellsworth Clayton, Jr., Crystal
 Samuel Joseph Coburn, White Bear
 Lake
 Douglas Terry Cohen, Minneapolis
 Mark Howard Cohen, Minneapolis
 Wendell John Cole, Richfield
 Douglas Alan Coombs, Minneapolis
 Ragland Lindsay Cooper, Jr., Los
 Angeles, Calif.
 James Andrew Coopet, St. Paul
 Joseph William Coppersmith, St. Paul
 Stephen A. Cornica, Minneapolis
 Timothy Michael Costello, St. Paul
 Richard James Covelski, White Bear
 Lake
 Robert William Craig, Minneapolis
 William Charles Creighton, Minne-
 apolis
 Leonard Charles Crowe, Foley
 Daniel Roland Dablow, St. Paul
 Barbara Lynn Davies, Minneapolis
 Barbara Ann Davis, St. Louis Park
 Thomas Leroy Davison, Rochester
 Larry John DeHemmer, Golden
 Valley
 Richard Frank Dehn, St. Paul
 William Warren Deming, Minne-
 apolis
 Eugene Norbert Determan, St. Paul
 Keith Gerald De Wolf, Stillwater
 Mary Louise Dierling, Minneapolis
 John Thomas Dinesen, St. Paul
 Laura Teresa Dodd, Edina
 Margaret Mary Doenges, Minneapolis
 Jill Marie Dorsey, Minneapolis
 Harland Andrew Durkin, St. Louis
 Park
 Gale Lea Edson, St. Paul
 James Paul Egger, St. Paul
 Carol Jean Ellis, Minneapolis
 Barbara Kay Erickson, Minneapolis
 Darryl Lee Erickson, St. Paul
 Kay Margaret Erickson, Minneapolis
 William Lawrence Evans, Minnetonka
 Bradley Peter Farness, Bloomington
 Gerald Douglas Ferguson, West St.
 Paul
 J. David Fibison, St. Paul
 Michael Thomas Finley, Richfield
 Edith Marie Franklin, Shreveport, La.
 Leonard Lawrence Freiermuth,
 Hastings
 Michael Richard Gall, St. Paul
 Thomas Robert Gallagher, Jr., Coon
 Rapids
 Lawrence Evan Gallas, Minneapolis
 Larry M. Galvin, St. Louis Park
 Charlotte Ann Gammelgaard, Bloom-
 ington
 John James Gault, Jr., Bloomington
 Kathleen Jane Getten, Wayzata
 Adeline Lillian Gilberg, Minneapolis
 Vince Lyle Goodnough, Wheaton
 Clyde Robert Green, Minneapolis
 David Anthony Grisham, St. Louis
 Park
 George William Grove, Hopkins
 Dale James Guille, Minneapolis
 David William Guille, Minneapolis
 Glen Robert Gustafson, St. Paul
 Neal August Hahn, Bloomington
 Richard Edward Hammergren, Jr.,
 St. Paul
 Diane Louise Hammond, Minneapolis
 Thomas Jack Hanson, Minneapolis
 Michael Robert Harrigan, Minneapolis
 Jerry Jerome Hatalla, Stillwater

Janice Faye Haugen, St. Paul
 Jeffrey Dean Hawthorne, Minneapolis
 Marilyn Joy Hellman, St. Paul
 Chester Robert Herrboldt, Anoka
 Mary Ann Hill, Minneapolis
 Gary James Hitz, St. Paul
 Jeffery William Hoel, St. Paul
 Gregory Allen Holey, Minneapolis
 Gregory John Holmes, Minneapolis
 Brian Joseph Humbert, Crystal
 Marnajane Marion Husak, Minneapolis
 Thomas Albert Jenkin, Richfield
 Daniel Brian Jennings, Minneapolis
 Michael Dale Johns, St. Paul
 Constance Joan Johnson, Minneapolis
 Timothy Lyle Johnson, St. Louis Park
 Valarie Andrea Johnson, Bloomington
 James Allen Jorgensen, Bloomington
 John Gustav Josephson, St. Paul
 Julie Diane Kast, Bloomington
 Thomas John Kehoe, Minneapolis
 Dennis Leland Kenny, St. Louis Park
 Naheed Khan, Minneapolis
 Robert S. Kielsa, St. Paul
 Vance Lyle Kinkel, Minneapolis
 Dale Allan Kittelson, Anoka
 SueAnn Marie Knoll, Minneapolis
 Jeffrey William Koznick, Minneapolis
 Lorin Sherman Kramer, St. Louis Park
 Donald Kenneth Kramlinger, St. Paul
 Sharon Anne Kunerth, Chanhassen
 Kathy Irene Kurz, New Brighton
 Barbara Helene Lachinsky, St. Paul
 Dennis Edward Lancette, St. Paul
 Jon Alan Lang, Minneapolis
 Roger Louis Lange, Jr., St. Paul
 Richard Larson, Minneapolis
 Robert John Larson, St. Paul
 Kathleen Ruth Lawman, Minneapolis
 Nancy Mayyee Lee, Minneapolis
 Janice Arlene Leibman, St. Paul
 John Richard Lemanski, St. Paul
 Linda Gail Leonard, Minneapolis
 Elissa Renee Lewis, Minneapolis
 James Virgil Lhotka, Minneapolis
 Warren James Linc, Minneapolis
 Joan Catherine Locke, Minneapolis
 Mary Jo Loeffler, Minneapolis
 Jerome D. Lofstrom, St. Paul
 Edward Ventura Loye, Minneapolis

Douglas John Luoma, Finlayson
 Josiah Edmund Lupton, Weston,
 Conn.
 John Mather Lupton III, Weston,
 Conn.
 Jack Laurence Lytle, Navarre
 David Henry Macy, St. Paul
 Cheryl Ann Maloney, Minneapolis
 Barbara Jean Manion, St. Paul
 David Kimball Marconett, Minne-
 apolis
 James Westly Marshall, Minneapolis
 John Justin Masson, St. Paul
 Robert Michael McDonald, St. Paul
 Dennis John McDonough, St. Paul
 Thomas Andrew McInerney, Minne-
 apolis
 Gary John Metzger, West St. Paul
 Judith Theresa Meuwissen, St. Paul
 Dennis James Meyer, Minneapolis
 H. Peter Meysembourg, St. Paul
 Elizabeth Jean Miller, St. Paul
 Joan Barbara Miller, St. Paul
 John Allen Miller, St. Louis Park
 Lynette Karen Moen, Bloomington
 Joal Joseph Moses, Minneapolis
 John Stanley Mrozek, Minneapolis
 Terry Michael Mueller, St. Paul
 Don D. Nelson, Fergus Falls
 John Steven Nelson, Minneapolis
 Lore Nelson, St. Paul
 Mary Louise Noggle, Minneapolis
 Mark David Norrgard, Cloquet
 Patricia Ann O'Brien, St. Louis Park
 Susan Kay Ognanovich, St. Paul
 George Allen Oland, Minneapolis
 Gary Paul Olson, Cologne
 Kathleen Marie Olson, Minneapolis
 Randall Matthew Omlie, White Bear
 Lake
 Jeffrey Kenneth Owens, Edina
 Roger Paul Pearson, Minneapolis
 Terence Randall Pederson, St. Paul
 Marcia Karen Perry, Shakopee
 Richard Warren Perry, Minneapolis
 Bradley Jon Peterson, Bloomington
 Bruce Richard Peterson, Minneapolis
 Carroll Theodore Peterson, Minne-
 apolis
 Dale Carl Peterson, Minnetonka
 David John Peterson, Minneapolis

Gregg Russell Peterson, Minneapolis
 Robert Martin Peterson, Minneapolis
 Mara Dagnija Pillar, Minneapolis
 John Kelly Plourde, Minneapolis
 Frederick Wayne Polkey, Minneapolis
 Gregg James Polski, St. Paul
 Theodore Robert Preston, St. Louis
 Park
 Alice May Pruden, Eagan Township
 James Floyd Pugh, Minneapolis
 Valerie Ann Quist, Minneapolis
 Bruce Alan Ramm, Minneapolis
 Jane Marie Reis, Minneapolis
 Charles Edward Rice, Minneapolis
 Norman Alfred Rock, Minneapolis
 Robert Louis Roedocker, Minneapolis
 Richard Anthony Rohland, St. Paul
 William Charles Rollefson, Minne-
 apolis
 Paul Michael Romnes, Belview
 Gregory Thomas Rush, Minneapolis
 Mark Steven Saltzman, Minneapolis
 Marla Stacy Saltzman, Minneapolis
 Maejoy Charlene Schifferes, Minne-
 apolis
 James Charles Schmidt, St. Paul
 Ronald John Schmidt, St. Paul
 Margaret Elizabeth Schneider, Minne-
 apolis
 Gertrude Claudia Schroeder, St. Paul
 Carl Anthony Schuhwerck, St. Paul
 James Melvin Scurrah, Minneapolis
 John Francis Seberg, St. Paul
 Susan Kristine Seidl, Minneapolis
 John Dale Senander, St. Louis Park
 David John Shabaz, A.S., Minneapolis
 Benjamin Daniel Slater, North St. Paul
 Peter William Slimak, Minneapolis

Margaret Pomeroy Smith, St. Paul
 Linda Jean Soderberg, St. Paul
 Dale Lee Sogn, Columbia Heights
 James Albert Stachowiak, St. Paul
 Kenneth Norvel Stellmacher, Minne-
 apolis
 Ronald Keith Striker, St. Louis Park
 Ralph William Swanson, Minneapolis
 Dean Ray Syverson, Center City
 James Theodore Szczeci, Minneapolis
 Susan Ann Teener, Colden Valley
 Thomas Richard Thompson, Minne-
 apolis
 Hugh John Tunstead II, Edina
 Steven Terrance Turner, Edina
 Mary Mathilda Tysk, St. Paul
 Daniel Joseph Vannelli, Jr., St. Paul
 Thomas Philip Vavrck, St. Louis Park
 Ronald H. Vescio, Minneapolis
 Patricia Leann Vessey, Minneapolis
 Leslie Gene Vikre, Bemidji
 Eugene Carl Vogl, St. Paul
 Thomas J. Walerius, St. Paul
 Ann Kathleen Waterston, Minne-
 apolis
 Dennis Michael Weigel, Minneapolis
 Linda Marie Westlund, Des Moines,
 Iowa
 Michael Melvin Willett, North St.
 Paul
 Steven Comer Woldum, Minneapolis
 David Paul Wolf, St. Louis Park
 Mary Jo Wolff, St. Paul
 Patricia Ann Wong, Minneapolis
 Thomas Alexander Worthing, Minne-
 apolis
 Marguerite Elizabeth Yaeger, Minne-
 apolis

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Alice Cameron Bostrom, Crystal
 Michael Joseph Collins, Red Wing
 Jacquelin Lea Dahlberg, St. Paul
 Udine Clara Drews, Minneapolis
 Anita Jennifer Gay, Forest Lake
 Shannon Stewart Griffith, St. Paul
 Janice Marie Groth, Lake Elmo

Linda Ann Hall, St. Paul
 Lowell Drew Holman, St. Louis Park
 Kathleen Louise Larson, Minneapolis
 Randall Craig Larson, Wyoming
 Mary Alice Lundstrom, Minneapolis
 Linda Joy Mankoff, St. Louis Park
 Louise Ann Neumann, Annandale

Alberta Lee Orcutt, Hastings
 Willard L. Peterson, Columbia Heights
 Jerrold Loren Strick, Minneapolis
 Anne Carolyn Boustead Swanholm, Minneapolis
 Norman Earl Toenjes, St. Paul

Donald Francis Tupy, New Prague
 Kathryn Lois Warhol, Minneapolis
 Avonelle Maxine Weuve, Minneapolis
 Diane E. Wickstrom, Minneapolis
 Linda E. Will, Minneapolis
 Scott William Wylie, St. Louis Park

Bachelor of Arts

Honors citations are provisional and will not become final until all requirements are met for the level indicated.

Judith Waterman Abbott, Minneapolis
 Robert Kent Abbott, Jr., Minneapolis
 Mary Lee Abendroth, Minneapolis
 James Michael Abraham, Elk River
 Dale Allan Abrahamson, Bloomington
 John Adelsheim, Minnetonka Beach
 Steven Clyde Ager, Worthington
 Michael Charles Ahlgren, St. Paul
 Myrna Lee Ahlgren, St. Paul
 Roger Edwin Ala, New York Mills
 Dennis Paul Albrecht, Minneapolis
 Leverett C. Alcott, Cincinnati, Ohio
 Vera Alenov, St. Paul
 Patricia Jean Aletky, Minneapolis,
 SUMMA CUM LAUDE, Psychology
 Kathleen Ann Alexander, Edina
 Sally Louise Alford, A.A., Minneapolis
 Susan Gail Allen, Golden Valley
 James Richard Allis, Minneapolis
 Richard Evan Allred, St. Paul
 Gary Robert Amon, Minneapolis
 Jeri Thora Anders, Minneapolis
 Peter Jack Andersen, St. Paul
 Ashley Irving Anderson, Morris
 Brian Jon Anderson, Walnut Grove
 Catherine Marie Anderson, A.A.,
 Austin
 Dale Sidney Anderson, Minneapolis
 Gary Wayne Anderson, St. Paul
 Georgia Susan Anderson, Grygla
 John Ellis Anderson, Minneapolis,
 SUMMA CUM LAUDE, Sociology
 Mark Eugene Anderson, Lindstrom
 Mary Lou Anderson, Maple Plain
 Neal Raymond Anderson, Minneapolis,
 MAGNA CUM LAUDE, Sociology
 Rodney Lee Anderson, Cannon Falls

Roger Bruce Anderson, Golden Valley
 Steven Charles Anderson, Bloomington
 William Loyd Anderson, Minneapolis
 Bruce David Applequist, Minneapolis
 Richard Floyd Applin, Elbow Lake
 Muriel Rose Arbogast, St. Paul
 Ross Richard Arneson, Minneapolis,
 CUM LAUDE, English
 Pamela Jean Aulich, Chatfield
 Linda Marie Aus, Duluth, MAGNA CUM
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 David Michael Shilton, Philadelphia,
 Pa.
 Gerrick Anthony Slogar, Isabella
 Bernard Clarkson Smith, Jr., Virginia,
 WITH HIGH DISTINCTION
 James Andrew Telinda, St. Paul
 Michael Edward Topolka, Golden
 Valley

Dennis James Tracy, Houston
Robert William Trnka, Lonsdale
Dale Francis Weiss, Mondovi, Wis.

Lawrence Stanley Wenberg, St. Paul*
Richard Henry Yarges, Rochester

Bachelor of Agricultural Engineering

Larry George DeVries, A.A., Milan,
WITH DISTINCTION
Donald Edward Erickson, Buffalo
Orlin Wayne Johnson, Paynesville
John Leroy Kitchell, Jr., Ada

Gene Omer Krautkremer, Mont-
gomery, WITH DISTINCTION
James Eldredge MacKay, Pollock, S.D.
John Adam O'Bannon, Pillager
Donald Harlan Schendel, Waverly
Robert Douglas Week, Evansville

Bachelor of Architecture

William Joseph Armstrong, St. Paul
Patrick William Broderick, St. Paul
R. Allan Christianson, Minneapolis
Craig Llewellyn Crawford, B.A., St.
Paul
George Franklin Cundy, Appleton,
Wis.
Paul David Finsness, B.A., Minne-
tonka
Charles Todd Gill, Minneapolis
Leon Fred Hakkila, Virginia
Gregory Thomas Haley, Minneapolis,
WITH DISTINCTION
Delbert James Hall, Aurora
Donald Lee Hammer, B.A., Minne-
apolis
Daryl Erling Hansen, B.A., Minne-
apolis
Lloyd Peter Johnson, Maple Plain
Duane Alden Kell, Richfield
Jong-Han Lee, B.F.A., Prungtack,
Korea

Michael Preston Logan, St. Paul
Alan John MacLeod, Abington, Mass.,
WITH DISTINCTION
Joel William Moss, St. Louis Park
Mark Lawren Nessel, Minneapolis
Patrick William O'Brien, Minneapolis
Ronald Nils Orfield, A.A., Minne-
apolis
Dallas Benjamin Peacock, B.A., Mil-
tona
Robert Austin Perbix, Edina
Frederick Charles Richter, St. Paul
Craig Dallas Roney, Minneapolis
Marvin Paul Schwartz, Minneapolis
Michael Alan Schiff, Minneapolis
Valdis George Smits, St. Paul
Thomas Herman Sopoci, Minneapolis
Robert Duncan Taylor, Minneapolis
Terry Steven Wendt, Milwaukee,
Wis.
Jeri Ervin Zuber, Minneapolis, WITH
DISTINCTION

Bachelor of Chemical Engineering

James Theodore Abel, Minneapolis,
WITH DISTINCTION
Roger Alan Anderson, A.A., St. Paul
Ronald Lee Berglund, Fridley, WITH
DISTINCTION
Paul Edward Coleman, Minneapolis,
WITH DISTINCTION
James Norman Dau, Jr., Hopkins
John Engesser III, New Richland
Lawrence Irving Esterberg, Ely

John Louis Ethen, St. Paul
Charles Winfield Forsberg, New Ulm,
WITH HIGH DISTINCTION
Bruce Allan Groth, Deep River
Leonard Walter Haleen, Robbinsdale,
WITH DISTINCTION
David Charles Hedin, Mahtomedi
Thomas John Herold, St. Paul
Gary Robert Jernberg, St. Paul
Thomas Joseph Johnson, Marshall

* Degree conferred as of March 15, 1969.

Donald Sherman Kompelien, Canby
 Ervin Donald Kosloski, Foley
 Rickey James Kruger, Edina
*James Bennet Lane, Cambridge, WITH
 HIGH DISTINCTION*
 Vincent Michael Lobe, Ely
 David John Mendele, Richfield
*Clifford Larry Olson, Karlstad, WITH
 DISTINCTION*
 Richard Michael Olson, A.A., Biwabik
 Rudolph Joseph Papaik, Virginia
 Charles Barry Papeleux, St. Paul
*James Joseph Pedginski, A.A., Moun-
 tain Iron, WITH DISTINCTION*

David Allan Pierce, Minneapolis
 Robert William Ramus, Minneapolis
 Eugene Scherer, Milaca
 Roger Edward Schmid, New Ulm
 Richard Herbert Smith, Minneapolis
 Anthony Allen Thompson, Bagley
 Sverrir Thorhallsson, Reykjavik, Ice-
 land
 Kenneth Jon Veith, Minneapolis
 James Arnold vonBehren, West St.
 Paul
 Michael Robert Whalen, Minneapolis
 Robert Alan Zoss, Minneapolis, WITH
 DISTINCTION

Bachelor of Chemistry

Terrance Rodney Ashe, St. Paul
 Keith Walter Byerley, St. Paul
 Robert Bernard Carter, Buffalo
*Katherine Janet Dahlin, Ely, WITH
 HIGH DISTINCTION*
 Thomas George Dowdal, St. Paul
 David Burson Freid, Windom
 Gregory Scott Gross, St. Paul
*John Albert Huberman, A.L.A.,
 Rochester, WITH DISTINCTION*
 Robert Allen Hendricks, West St.
 Paul
*Thomas Joseph Hudson, West St.
 Paul, WITH DISTINCTION*
*Dennis Steven Johnson, Wells, WITH
 DISTINCTION*

Roger Waynsan Kwong, St. Paul,
 WITH HIGH DISTINCTION
*Steven Sho Matsumoto, St. Paul, WITH
 HIGH DISTINCTION*
*Jerry Wayne Misner, International
 Falls, WITH DISTINCTION*
 John Carroll Nelson, Minneapolis
 Mark Lynn Olson, Red Wing
*Gregory James Quarfoth, St. Paul,
 WITH DISTINCTION*
*George Edward Rounds, Richfield,
 WITH DISTINCTION*
 William Howard Scruton, Lexington
 Richard John Sinn, St. Paul
 Ella Mae Rodel Smith, Bird Island
 Richard Matthias Tober, St. Paul

Bachelor of Civil Engineering

Bruce Edward Axelson, Duluth, WITH
 DISTINCTION
*Carl Edward Borash, Royalton, WITH
 DISTINCTION*
 William Paul De Santo, Jr., Duluth
 Chris Edward Doepke, Golden Valley
*Gary Lee Erichson, Austin, WITH DIS-
 TINCTION*
*Gary John Graupman, Gibbon, WITH
 DISTINCTION*
 Lee Bernard Gregerson, Bigfork
 Lowell Allen Johnson, Hallock
 Gerald William Kieser, Winsted
 Stephen Raymond Krakau, Minne-
 apolis
 David Owen Loskota, Renville

Joseph Luther Luecke, Gaylord
 Larry Harvey Lueth, Pine City
 Donald Raymond Monahan, Richfield
*James Charles Peterson, Bloomington,
 WITH DISTINCTION*
*Gordon Hanley Reigstad, Sunburg,
 WITH HIGH DISTINCTION*
 Neal Edward Sandstede, Dassel
*Frank Joseph Schloegel, Rochester,
 WITH DISTINCTION*
 Emil Joseph Sheppard, Minneapolis
 Michael Joseph Spielmann, Minne-
 apolis
 Donovan Kenley Stormoe, Minne-
 apolis

Jon George Stromquist, Wayzata
Norman Dale Wagner, Claremont

Robert Harley Witty, Faribault
Robert Joseph Yourzak, Anoka

Bachelor of Electrical Engineering

John Harlan Alstrup, Minneapolis
David John Anderson, Bloomington
Orris Marlin Anderson, Fergus Falls
Stephen Michael Anderson, Forest Lake, WITH HIGH DISTINCTION
Steven Henry Arneson, Minneapolis
George Edward Bach, Minnesota Lake
Walden James Bahn, Wood Lake
LeRoy Rodney Bakewell, St. Paul
Warren Erwin Banks, Minneapolis
Kenneth Mason Beadell, Minneapolis
Brian Clair Beck, Eagle Bend
Dennis Arthur Behm, Grand Rapids, WITH DISTINCTION
John William Beland, Stacyville, Iowa
Larry Lloyd Black, St. Paul
Bruce Bernhard Boehlke, A.A., Columbia Heights
Mark John Burmaster, Stillwater, WITH DISTINCTION
Reggie Vern Carlson, Virginia, WITH DISTINCTION
Rodney Stanley Cerar, Crosby
Mark Sauchun Chang, Hong Kong, WITH HIGH DISTINCTION
Kenneth Alvin Christianson, A.A., Crosby
Keith Allen Christophersen, South St. Paul
Kemal Cingi, Istanbul, Turkey, WITH DISTINCTION
Richard Peter Cooper, Minneapolis
John Robert Crane, Stillwater
John Charles Cunningham, Twin Lakes
William George Czerniak, Duluth
David Dennis Dalquist, Randall, WITH HIGH DISTINCTION
Thomas Elvin Davis, A.A., Austin
Leland George DuBois, Minneapolis
John Earl Dvoracek, St. Paul, WITH HIGH DISTINCTION
Gary Earl Easler, Chatfield
Jerome John Elfert, Amboy
Howard William Eliuk, Minneapolis
Randolph Warren Ely, Le Sueur

David Richard Fairbairn, Cloquet, WITH DISTINCTION
Paul Mark Fernquist, Minneapolis, WITH DISTINCTION
Richard Victor Frykman, Mora
Robert Keller Gaasch, Iona
David Michael Gilbert, Hopkins
Harold Eugene Gulso, Caledonia, WITH DISTINCTION
John Raymond Hall, Minneapolis
Arthur Carlo Hansen, A.A., Blooming Prairie, WITH DISTINCTION
James Peter Harasyn, St. Louis Park
Robert George Harper, Golden Valley
Donald Wayne Hayden, A.A., Austin, WITH HIGH DISTINCTION
Raymond Calvin Hedin, St. Paul
John Thomas Hennessey, Anoka, WITH DISTINCTION
Richard Leslie Henninger, Richfield, WITH DISTINCTION
Michael James Hill, St. Paul, WITH HIGH DISTINCTION
Joseph John Hirte, St. Paul
James Leo Hoffman, Sauk Rapids
Michael Manfred Holm, Roseau
Russell Dean Huisinga, A.A., Clara City
Rand Harley Hulsing II, Minneapolis, WITH HIGH DISTINCTION
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John Alan Janzen, Mountain Lake, WITH DISTINCTION
James Louis Jasmin, South St. Paul, WITH DISTINCTION
Jimmie Palmer Jensen, Glenville
Edward Arland Jenson, Pelican Rapids, WITH HIGH DISTINCTION
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Robert H. Johnson, Farmington
Gerald Stephen Jones, Robbinsdale
Gerald Marvin Kackman, St. Paul, WITH DISTINCTION
Gary Douglas Kakach, Eden Prairie

Michael Allen Kantar, Minneapolis
 Kenneth Robert Kaufhold, Roseville,
 WITH DISTINCTION
 Robert William Keltgen, Minneapolis,
 WITH DISTINCTION
 Larry Joseph Koshire, Rochester
 Charles Thomas Kurtzman, St. Cloud
 Mark Edward Lauderbaugh, Bemidji
 Yan Sang Lee, Hong Kong, WITH DIS-
 TINATION
 Michael Charles Leuma, Minneapolis
 Gordon Earl Lipsy, Hill City, WITH
 HIGH DISTINCTION
 Max Charles Logan, Racine
 Stanley David Mahoney, Faribault
 Frank Austin May, Jr., New Brighton
 Ronald Henry Menzhuber, St. Cloud,
 WITH DISTINCTION
 Steven Allan Moll, Sleepy Eye
 John David Munson, Minneapolis,
 WITH DISTINCTION
 Robert Neil Neddermeyer, Jr., Long
 Lake
 Leslie Wayne Nelson, Upsala
 Bill Howard Niemi, Biwabik, WITH
 HIGH DISTINCTION
 Richard Dale Nosan, Buhl
 David Anthony Novak, Gilbert
 John Henry Nystrom, Minneapolis
 Bradley Robert O'Grosky, Rochester
 Richard Bryan Olson, Mora
 James Ralph Palan, Faribault
 Norman Gray Planer, Annandale,
 WITH HIGH DISTINCTION
 Richard Frank Pliml, Cook
 Michael Jon Pluimer, Milaca
 William Robert Poblete, A.A.,
 Rochester
 Charles Edward Pogemiller, Minne-
 apolis
 Douglas Everett Quammen, Monte-
 video
 Thomas Allen Rasmussen, Faribault
 Thomas D. Redmond, Jr., St. Louis
 Park
 Howard Alton Rice, B.A., Excelsior
 Carlton Daniel Rock, Golden Valley
 Bruce Buddy Roever, Cedarburg,
 Wis.
 Michael Alan Rose, Willmar, WITH
 DISTINCTION

Arpad Rummy, Minneapolis
 David Leo Runkle, St. Peter
 James Edward Sahl, St. Louis Park
 Jeffrey Edgar Schiebe, Minneapolis
 Robert Joseph Schilling, Cloquet,
 WITH HIGH DISTINCTION
 Christian A. Schlegel, B.M.E., Minne-
 apolis
 Steven Lance Schmehl, Coon Rapids,
 WITH DISTINCTION
 Carl Darwin Schmuland, Catawba,
 Wis., WITH DISTINCTION
 David Kent Schurr, Minneapolis
 James Carl Schwanebeck, Rochester
 Duane Arvid Sellman, Almelund
 Douglas Lee Severson, Henning
 David Joseph Silvers, Albany
 Gary Hart Sodahl, Litchfield, WITH
 DISTINCTION
 David John Stanton, St. Paul
 James Carl Stegeman, New Ulm,
 WITH DISTINCTION
 Marcus Daniel Stoner, Morris
 Georg T. Stromme, Roseville, WITH
 DISTINCTION
 Terry Lee Strong, A.A., Austin, WITH
 DISTINCTION
 Thomas Albert Sturm, St. James
 Robert John Svare, St. Paul
 Ernest Laurence Tell, Jr., Bemidji
 Bruce Arthur Tollefson, Minneapolis,
 WITH DISTINCTION
 John Allen Uttermark, St. Paul
 Alphonse Anthony Veerkamp, Eden
 Prairie
 Robert F. Vitko, Richfield
 Stephen William Voigt, St. Paul
 Kenneth Frank Watts, St. Louis Park
 Gary Alvin Welch, Edina
 Allan Joseph Wenzel, Winona
 Philip Eldon White, Morristown,
 WITH DISTINCTION
 Chester Wayne Wood, Jr., St. Paul
 Gerald Glen Worner, A.A., Fergus
 Falls, WITH DISTINCTION
 Shiucheung Yam, Hong Kong, WITH
 HIGH DISTINCTION
 Henry Yao, Hong Kong, WITH HIGH
 DISTINCTION

Bachelor of Mathematics

James Lee Anderson, Minneapolis
Peter Reed Crescenzo, Duluth
Robert Earl Engberg, Mora
Ronald James Ewing, Thief River Falls
David Theodore Harens, A.A., Worthington
Thomas Michael Hauwiller, St. Paul
Steve Carter Hultquist, Anoka
Michael William Hurley, St. Louis Park, WITH DISTINCTION
Gerald Louis Isaacs, St. Paul
Lowell Gale Johnson, Minneapolis, WITH DISTINCTION
Donald John Kleven, Minneapolis, WITH HIGH DISTINCTION
Stephen Larry Kreamer, Minneapolis
John Jeffrey Landgren, St. Paul, WITH HIGH DISTINCTION
Edwin Albert Maas, St. Peter
John Nicolaus Malecek, Minneapolis

Farshid Minbashian, Teheran, Iran, WITH HIGH DISTINCTION
John Gregory Morrill, West St. Paul
Richard Arthur Nelson, Fosston, WITH HIGH DISTINCTION
Kathleen Marie Nichols, Minneapolis
Keith Duncan Payden, St. Louis Park, WITH DISTINCTION
Cress Leigh Pease, Robbinsdale
John Richard Peters, St. Paul
Frank Winslow Stodola, Buffalo, WITH DISTINCTION
Thomas Eugene Truax, A.A., Rochester
James Clark Tuttle, Richfield
Viesturs Vidins, Minneapolis
Peter Allen Weise, Richfield, WITH DISTINCTION
Gregory Herbert Wiles, Minneapolis, WITH DISTINCTION
Barry Lee Winston, St. Louis Park, WITH DISTINCTION

Bachelor of Mechanical Engineering

Charles Arthur Baxter, Aurora, WITH DISTINCTION
Robert Michael Berini, Duluth
Peter Johannes Blomberg, Minneapolis
Vernell Argus Buck, Zumbrota, WITH DISTINCTION
Geoffrey Wayne Burton, Minneapolis
Douglas Michael Carlson, Truman
Ioannis Nicholas Catsaounis, Athens, Greece
Stanley Lester Davis, Duluth
Thomas Robert Engels, Minneota, WITH DISTINCTION
Richard George Ernst, Stanley, Wis.
John Francis Flanagan, Hastings
Robert Dean Foss, Stewartville
James Michael Conn, Alexandria, WITH DISTINCTION
Paul Daniel Franklin, Wendell
James Thomas Fries, Robbinsdale, WITH DISTINCTION
Gary Wayne Gaver, Lake Lillian
Paul Richard Gottwaldt, Fridley, WITH DISTINCTION

Charles Arthur Gronberg, Minneapolis
Jon Walter Halverson, Minneapolis
Denis Andrew Hansen, Two Harbors
Ronald Warren Hatch, Minneapolis
Victor John Hoeft, Lake City, WITH DISTINCTION
Michael Waldo Holmquist, Hopkins
Ted Robert Huntley, St. Paul
Harold Edward Jensen, Robbinsdale
Mark John Kahnke, Waseca
Juris Anatolis Karpovs, Minneapolis
David Don Keepers, Richfield
Stephen Richard Krogh, Cromwell
Charles Chester Kuyava, Jr., St. Cloud
Patrick H. Lamey, Jr., St. Paul
Lawrence Frank Leistiko, Minneapolis
Foster Kent Lewellen, Minneapolis
David Gordon Mell, Duluth
John Reino Moilanen, Minneapolis
Clifford Charles Moulton, Jr., Robbinsdale
James Robert Nylund, St. Paul
Gerald Gene Olafson, Minneapolis, WITH DISTINCTION

Stephen Holmes O'Leary, Edina,
 WITH DISTINCTION
 Robert Allen Olsen, Excelsior, WITH
 HIGH DISTINCTION
 Charles Dennis Olson, Madison
 Gary Wyman Olson, Minneapolis
 Stephen Edward Olson, St. Paul, WITH
 DISTINCTION
 Francis Joseph Patoile, St. Paul, WITH
 HIGH DISTINCTION
 Delwin Philip Peterson, Lindstrom
 Steven Robert Peterson, Albert Lea
 John Randolph, Minneapolis
 Mohammad Esmile Roghanizad,
 Abadan, Iran

Larry Gene Schmidt, Anoka
 Daniel Edward Siltala, Sebeka
 John Frank Skubic, Jr., Eveleth
 Jeffrey Bruce Stanley, Minneapolis
 Lynn Wallace Swenson, St. Paul
 James Harry Sykora, St. Louis Park
 Gary Lynn VanderSyde, Albert Lea
 Maurice Alan Wahlstrand, Willmar
 David Potter Webb, Roseville, WITH
 DISTINCTION
 Amer John Willenbring, St. Paul
 Allyn Edward Yoakum, Duluth, WITH
 DISTINCTION

Bachelor of Metallurgical Engineering

Gary Melvin Anderson, Minneapolis
 Ronald Maxwell Knutson, Excelsior
 Roger Edwyn Lindgren, Minneapolis
 William John Schultz, Mankato

Frederick John Sorgenfrei, Lake Elmo
 Ronald Walter Stepien, Glencoe
 David James Turnquist, St. Paul
 Alan Lee Whitted, Brainerd

Bachelor of Mineral Engineering

Gerard John Kulbieda, Minneapolis

John Norman Maki, Cloquet

Bachelor of Physics

Duane Rodney Aadsen, Kiester, WITH
 DISTINCTION
 Theodore Howard Broman III, Sunny-
 vale, Calif.
 John Lennart Carlsten, Bloomington,
 WITH HIGH DISTINCTION
 Kyle McCabe Cudworth, Minneapolis,
 WITH HIGH DISTINCTION
 Brian Barnett Dahlin, Rochester
 Charles John Dahlke, New Germany
 Michael Anthony Franey, Minneapo-
 lis, WITH HIGH DISTINCTION
 John Richard Gustafson, Duluth,
 WITH DISTINCTION
 James A. Hartung, Hector, WITH HIGH
 DISTINCTION
 Isaac Meyer Held, Minneapolis, WITH
 HIGH DISTINCTION
 Terrence Victor Hermes, St. Paul
 Larry Douglas Johnson, St. Paul Park,
 WITH DISTINCTION
 William Charles Johnson, Jr., Foley,
 WITH DISTINCTION

Christopher Anthony Kaminski, St.
 Louis Park
 Gary William King, Minneapolis,
 WITH HIGH DISTINCTION
 Leroy Joseph Kochel, St. Paul, WITH
 DISTINCTION
 Peter Ching Ho Luh, Republic of
 China, WITH HIGH DISTINCTION
 Thomas James Marcy, Richfield
 Timothy Paul Marz, St. Paul
 John Charles Milos, Biwabik, WITH
 HIGH DISTINCTION
 George Frank Mohar, Virginia, WITH
 DISTINCTION
 Clifford Larry Olson, Karlstad, WITH
 DISTINCTION
 Darrell DeWayne Rinerson, Ada
 Rodney William Salo, Virginia, WITH
 DISTINCTION
 Paul Charles Schubert, Duluth, WITH
 HIGH DISTINCTION
 Richard John Seebach, Red Wing

Michael Bruce Sellman, Honolulu, Hawaii, WITH HIGH DISTINCTION
Stephen John Snyder, Minneapolis, WITH HIGH DISTINCTION
David Laurence Tupper, St. Louis Park

Harold Robert Udseth, Bloomington, WITH HIGH DISTINCTION
James Lee Wolf, St. Paul, WITH HIGH DISTINCTION
Craig Edward Zaspel, North St. Paul

Bachelor of Science in Geology

Charles Alfred Rhoades, Bloomington Nicholas James Theis, Minneapolis

Bachelor of Science in Geophysics

Edward James Stang, Crosby

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

Technical Certificate in Agriculture

Kenneth Paul Anderson, Spring Grove

Bachelor of Science

David Ronald Aaseng, McIntosh, Agriculture
Dennis John Adams, Stillwater, Agriculture
Victor Neil Ahlberg, Minneapolis, Agriculture
Carleton Norbert Anderson, Ortonville, Agriculture
Dennis Wayne Anderson, Moose Lake, Agriculture
Louis Frank Anderson, Sandstone, Agriculture
Robert Odell Anderson, Minneapolis, Forestry
Cynthia Annette Argue, Richfield, Home Economics
Terry Daniel Attlesey, A.A., Austin, Forestry
Gary Allen Averbeck, Newport, Agriculture
Dale Emery Bain, Lewiston, Agriculture
John Adebayo Balogun, Ado-Ekiti, Nigeria, Agriculture
Thomas Frederick Baruth, St. Louis Park, Forestry, WITH HIGH DISTINCTION
Linda Lou Bauer, St. Paul, Home Economics
Bruce Richard Behrends, Hastings, Agriculture
Catherine Hartle Berns, Minneapolis, Home Economics
Robert Peter Bielenberg, Dodge Center, Agriculture, WITH DISTINCTION
James Allen Bloemendal, St. Paul, Forestry
John Orlin Botten, Hanska, Agriculture
Robert Lee Bovee, Champlin, Agriculture
Mary Jean Bredehoft, Zumbrota, Home Economics
Roberta Jean Bregman, Minneapolis, Home Economics, WITH HIGH DISTINCTION
Dennis Alvin Brogger, Cass Lake, Forestry, WITH DISTINCTION

Raymond Frederick Brown, St. Paul, Agriculture
 Mary Louise Brun, Duluth, Home Economics
 Roger LaDon Buchholtz, Goodhue, Agriculture
 Patricia Louise Butler, Austin, Home Economics
 Floyd Michael Byers, Stacy, Agriculture
 Michael William Carey, Madison, Wis., Forestry
 Herbert Edwin Cargill, Wayzata, Forestry, WITH DISTINCTION
 Carolyn Elaine Carlson, Excelsior, Home Economics
 Dale S. Carlson, White Bear Lake, Agriculture
 Nancy Anne Carlson, Minneapolis, Home Economics
 Bette Ann Chester, Madison, Home Economics
 Cheryl Lee Coady, St. Paul, Home Economics
 Arlys Elaine Cole, Renville, Home Economics
 Steven Robert Corneillier, Minneapolis, Forestry
 Carolyn Sue Costello, St. Paul, Forestry
 Dennis Wayne Cunningham, Kenyon, Agriculture
 Gary Olaf Dagsgard, Washburn, Wis., Forestry
 Jeanne Ellen Dolan, Elrosa, Home Economics
 James R. Dooley, Austin, Forestry
 Bonnie Kay Dorenbush, Hewitt, Home Economics
 Lee William Eberley, Benson, Agriculture
 John Arthur Erlandson, Cokato, Agriculture, WITH HIGH DISTINCTION
 Paul Frederic Farber, Osakis, Agriculture
 Janice Ann Fenske, Lafayette, Agriculture, WITH DISTINCTION
 Beverly Ann Fischer, Minneapolis, Home Economics, WITH DISTINCTION
 Kathleen Ann Fischer, Rosemount, Home Economics
 Lola Jean Fredrickson, Minneapolis, Home Economics
 Dana Putnam French, St. Louis Park, Home Economics
 Charlotte Louise Frischmon, Circle Pines, Home Economics
 Dennis Oren Fultz, Tracy, Agriculture
 Robert Laurence Gamel, Isanti, Agriculture
 Jerome Okobi Gbemudu, Nigeria, Agriculture
 Paul Andrew Gnerer, Bloomington, Forestry, WITH DISTINCTION
 Andre Joseph Gombako, B.Math., Bangassou, Central African Republic, Agriculture
 James Allen Grage, Fridley, Forestry
 Donald Laverle Groninga, A.A., Reading, Agriculture
 Michael P. Groppoli, St. Paul, Agriculture
 Laurence Merritt Grotbeck, St. Paul, Agriculture
 Larry Dean Gust, Hoffman, Agriculture
 Thomas Henry Hale, Chestnut Hill, Mass., Forestry
 Dennis Lee Hawton, Redwood Falls, Agriculture
 John Maurice Hegg, St. Paul, Forestry
 Gary Allen Heinrich, Richfield, Forestry, WITH DISTINCTION
 Robert George Heinze, Lake Crystal, Agriculture
 Terry Jay Helbig, St. Paul, Forestry
 Janelle Rae Hill, Minneapolis, Home Economics, WITH DISTINCTION
 Mary Rose Hoel, St. Paul, Home Economics
 Michael Robert Hoffman, St. Louis Park, Forestry
 Larry Jay Hogrefe, A.A., St. Paul, Forestry, WITH DISTINCTION
 Kent Howard Holden, Northfield, Agriculture
 Larry Eldon Holmberg, A.A., Pennock, Agriculture

- Melanie Adele Hougen, Minneapolis, Home Economics, WITH DISTINCTION
- LaVern Richard House, Spring Valley, Agriculture
- Michael Clark Howe, Brooklyn Park, Agriculture
- Duane Richard Hujanen, Parkville, Forestry
- Catherine Sophia Isenman, South St. Paul, Home Economics
- David Lee Jacobs, Moorhead, Forestry, WITH DISTINCTION
- Joanne Kathryn Jenkins, Waverly, Home Economics
- John William Jensen, Duluth, Agriculture
- Bonita Martini Johnson, New York Mills, Home Economics, WITH DISTINCTION
- Carol Ann Johnson, St. Paul, Home Economics
- Diane Carol Johnson, St. Paul, Home Economics
- Janice Elizabeth Johnson, Bigfork, Home Economics
- Michael A. Johnson, A.A., Aitkin, Agriculture, WITH DISTINCTION
- Wanda Claire Johnson, Slayton, Home Economics, WITH DISTINCTION
- William Gary Johnson, Grand Rapids, Agriculture
- Dean Lloyd Jones, Canton, Agriculture
- James Allan Katzung, A.A., Conger, Forestry, WITH DISTINCTION
- Gary Dean Kaufenberg, Olivia, Agriculture
- Duane Dale Kick, Pine City, Forestry
- Charlotte Ann Kiefer, St. Charles, Home Economics
- John Gordon King, St. Paul, Forestry, WITH DISTINCTION
- Loren Leroy Kitchenmaster, Steen, Agriculture
- Michael Knudson, Janesville, Wis., Forestry
- Robert Albert Koch, Hamel, Agriculture
- Bruce Alan Kolberg, Red Wing, Agriculture
- Betty Jane Kraker, Minneapolis, Home Economics
- Sandra Jean Kremer, Roseville, Home Economics, WITH DISTINCTION
- Mary Josephine Kretsch, Wayzata, Home Economics, WITH DISTINCTION
- Thomas James Krieg, Sauk Rapids, Forestry
- Larry Gene Kruger, Blooming Prairie, Agriculture
- Richard Arnold Kusicko, A.A., Lantana, Fla., Forestry
- Richard Bartholomew Lambert, St. Peter, Agriculture
- David Stephen Lang, Minneapolis, Agriculture
- Linda Peterson Lang, Minneapolis, Home Economics
- Richard N. Langenfeld, Hastings, Agriculture
- Michael Jon Louis Larson, A.A., Brainerd, Agriculture
- Larry William Lehman, Eagle Bend, Agriculture
- Nancy Kay Linge, Minneapolis, Home Economics
- Helen Abrams Lippman, Minneapolis, Home Economics, WITH DISTINCTION
- Janice Lynn Lischer, Bloomington, Home Economics
- John William Lofton, Roseau, Agriculture
- Glenn Laurence Lood, Cambridge, Agriculture
- Sander Allen Ludeman, Tracy, Agriculture
- Patricia Marie Lustig, St. Paul, Home Economics
- Catherine Ka Nin Ma, Hong Kong, Home Economics
- Gerald Allen Markuson, St. Paul, Agriculture
- Peter Evan Mattson, Milaca, Forestry
- Ann Elin McCool, Blooming Prairie, Home Economics
- Virginia Mary Melcher, Minneapolis, Home Economics, WITH DISTINCTION
- Mary Ann Mellen, A.A., Minneapolis, Home Economics

Richard Willard Meyer, South St. Paul, Agriculture
 Thomas Paschal Mies, White Bear Lake, Forestry
 Eugene Edward Miller, Hayward, Wis., Forestry, WITH DISTINCTION
 Joan Marie Munby, Emily, Home Economics, WITH HIGH DISTINCTION
 James Daniel Murphy, Jr., A.A., Worthington, Agriculture
 Deborah Dawn Myers, St. Paul, Forestry
 David Allen Nelson, Northfield, Agriculture
 Rosalyn Jo Nelson, Delano, Home Economics
 Beth Ann Nieland, Arlington, Home Economics, WITH DISTINCTION
 Kenneth Vernon Nordlund, Clearbrook, Agriculture, WITH HIGH DISTINCTION
 Jill Diane Nyberg, Sherburn, Home Economics
 Michael Paul Nygaard, Eden Prairie, Forestry
 Laurie Lee Odonovich, Crosby, Home Economics
 John Dennis Olson, Cannon Falls, Agriculture
 Larry Eugene Olson, Perham, Agriculture
 Cheryl Louise Orvis, Roseau, Home Economics
 Karen Sue Palan, Faribault, Home Economics, WITH DISTINCTION
 Paul Edward Pendowski, Milwaukee, Wis., Forestry, WITH DISTINCTION
 Roger James Pectorious, Albert Lea, Agriculture
 Donald Lennart Peterson, St. Paul, Agriculture, WITH HIGH DISTINCTION
 Lynn Christian Peterson, Cloquet, Forestry
 Glenn Richard Phillips, St. Paul, Agriculture, WITH DISTINCTION
 Donald Elbert Pierce, Jr., Pine River, Agriculture
 Bonnie Gay Podas, New Brighton, Home Economics
 Susan Helen Pree, Excelsior, Home Economics
 Roger Raphael Prokosch, Morgan, Agriculture
 Allan Robert Radel, A.A., Owatonna, Agriculture
 Merrick Drew Reburn, Harmony, Forestry
 David Edward Reiter, Owatonna, Forestry
 Susan Mary Rogen, Jasper, Home Economics
 Frances Feldman Rosenberg, St. Paul, Home Economics, WITH DISTINCTION
 Bruce Allan Rottink, St. Louis Park, Forestry, WITH HIGH DISTINCTION
 Peter Jon Roussopoulos, West St. Paul, Forestry, WITH DISTINCTION
 Richard Glenn Routhe, Redwood Falls, Agriculture
 Harry Fredrick Rydell, Minnetonka, Forestry
 Charles Thomas Saari, Embarrass, Agriculture
 Thomas Arthur Sammon, Faribault, Agriculture
 Douglas Talle Sanvik, Starbuck, Agriculture
 Marlene Mildred Schallberg, Elk River, Home Economics
 Anita Marie Schlottach, Lakefield, Home Economics
 Bruce Fred Schmidt, Embarrass, Wis., Forestry, WITH HIGH DISTINCTION
 Elmer Lyle Schmidt, Vesta, Forestry, WITH HIGH DISTINCTION
 John Robert Schroeder, Courtland, Agriculture
 Kurt Alan Schrupp, Plato, Agriculture
 Linda Rae Schwanz, Truman, Home Economics
 Daniel Leonard Seekins, Hoyt Lakes, Forestry, WITH DISTINCTION
 George Lounberg Shepard, Caledonia, Forestry
 Gary Don Siesennop, Bloomington, Agriculture
 Charles Kevin Smith, Minneapolis, Forestry, WITH HIGH DISTINCTION
 James Harley Smith, Morris, Forestry
 Robert Edward Sopoci, Minneapolis, Agriculture

- John Allan Spehar, Mountain Iron, Forestry, WITH DISTINCTION
 Philip John Splett, Albert Lea, Forestry
 Connie Lynn Stamnes, Halma, Home Economics
 Rodney Dee Sullivan, Park Rapids, Forestry
 John Roger Swanson, Golden Valley, Forestry, WITH DISTINCTION
 Fredric Earl Thunhorst, B.A., St. Paul, Agriculture
 John Martin Tuberty, Albert Lea, Agriculture
 Michael John Tupa, Hutchinson, Agriculture
 Stanley Heath Vanepps, Grand Rapids, Agriculture
- Kenneth Raymond Vinar, Olivia, Agriculture
 Duane Dennis Westweat, Bagley, Agriculture
 Steven Edward Weekes, New Brighton, Forestry
 Bonnie Rose Weiland, Kerkhoven, Home Economics
 Eugene Harold Werner, Dundas, Agriculture
 Thomas Michael Williams, Sturgeon Lake, Forestry, WITH DISTINCTION
 Mary Kathleen Wood, St. Paul, Home Economics
 Gary John Yotter, Zumbro Falls, Agriculture
 Gary Michael Zechmeister, A.L.A., South St. Paul, Home Economics

COLLEGE OF EDUCATION

Bachelor of Science

- Sandra Jean Abraham, Gaylord
 Diane Elizabeth Acker, Robbinsdale
 Ethel Annette Acko, Minneapolis
 Marion Lorraine Aho, Golden Valley
 Elizabeth Dupont Allen, Cloquet
 Bruce Richard Anderson, St. Paul
 Douglas Wayne Anderson, Minneapolis
 James Stephen Anderson, Bloomington, WITH DISTINCTION
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Gerald Merle Bosshardt, Faribault, Agricultural Education	Anita Jeanne Hoffman, Houston, Home Economics Education
Joan Mae Bouckaert, Porter, Home Economics Education	Gerald Kermit Johnson, Elbow Lake, Agricultural Education
Mavis Ellen Buchholz, Hewitt, Home Economics Education, WITH DISTINCTION	Karen Olsen Johnson, Minneapolis, Home Economics Education, WITH DISTINCTION
Mary Margaret Cain, Corcoran, Home Economics Education	James Walter Kelm, Faribault, Agricultural Education
Carolyn Ann Carter, Minneapolis, Home Economics Education	Gary Clement Kern, Sebeka, Agricultural Education, WITH DISTINCTION
Maureen Louise Crummy, Argyle, Home Economics Education	

- Dianne Theodora Krueger, Minnetonka, Home Economics Education
 Joy Lorraine Lewis, Inver Grove Heights, Home Economics Education, WITH DISTINCTION
 Ronald William Lindeman, Brown-ton, Agricultural Education
 Cayeline Marie Lindquist, Oklee, Home Economics Education
 Joanne Arlene Lofgren, Rush City, Home Economics Education
 Karel Louise Lutter, Cloquet, Home Economics Education, WITH HIGH DISTINCTION
 Julie Anna Manfred, B.S., Minneapolis, WITH DISTINCTION
 William Leo Manwarren, Wells, Agricultural Education
 William Micheal Moberg, Clinton, Agricultural Education, WITH DISTINCTION
 Marilyn Sue Muckala, Tyler, Home Economics Education
 Daryl Gene Murray, Blue Earth, Agricultural Education
 Merrie Esther Ogren, Minneapolis, Home Economics Education, WITH DISTINCTION
 Kenneth Melroy Olson, Zumbrota, Agricultural Education
 Sheryl Kay Pearson, Litchfield, Home Economics Education
 Howard Charles Pennertz, A.A., Litchfield, Agricultural Education
 Suzanne Kay Poppe, Preston, Home Economics Education
 Deland Arno Porath, Mountain Lake, Agricultural Education
 Thomas John Quinn, Osakis, Agricultural Education, WITH DISTINCTION
 Lyman Robert Richter, Dover, Agricultural Education
 Robert Dean Roesler, Minnesota Lake, Agricultural Education
 Jerry O'Connors Rollings, Garden City, Agricultural Education
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 June Alice Schmelke, Minneapolis, Home Economics Education
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 Marilyn Marie Wandersee Seifert, Loretto, Home Economics Education
 David Clark Skogen, Princeton, Agricultural Education
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 Carol Jean Trench, B.S., Richfield, Home Economics Education
 Patricia ViAnn Tullis, Sebeka, Home Economics Education
 Virginia Ann Wabbe, Waconia, Home Economics Education
 Robert Arnold Wall, Mountain Lake, Agricultural Education
 Rosamond Jane Warburton, Janesville, Home Economics Education
 May Ka-Yee Yue, Hong Kong, Home Economics Education

Master of Education

Lyle Roger Nelson, B.S., Slayton

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Vernon Elroy Anderson, Inver Grove Heights

Bachelor of Science in Business

Lawrence William Abdo, Minneapolis
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John Douglas Anderson, Minneapolis, WITH DISTINCTION
 Stephen Brian Anderson, Atwater

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Wallace Robert Arneson, St. Paul
Keith Allan Bangert, A.A., Albert Lea
Richard William Bann, St. Paul, WITH

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Garry Douglas Barnett, Mankato
David Charles Beert, Minneapolis
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Steven Donald Bergerud, Minneapolis
Carolee Larson Berndt, Minneapolis, WITH

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Gary Wayne Borth, Sleepy Eye
Dennis Albert Brekke, Buffalo
Robert James Brown, Stillwater
Charles Walter Butler, Villard
Brian Thomas Carlson, Minneapolis
Leonard Stewart Carlson, Stewartville
Paul Robert Carlson, Excelsior
Harold Lee Carter, Plainview
Paul Parney Cegla, Richfield, WITH

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Jane Evelyn Ertl, Robbinsdale, WITH
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Park

Oliver Ernest Frederick, New
Brighton

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Linda Bayle Goldfine, Hibbing
Victor Steven Greenstein, Minneapolis

Glenn Roy Grieder, St. Paul
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Patrick Donald Hamilton, St. Paul
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 Gary William Kruckeberg, Emily
 Gerry Rand Krueger, B.E.E., Minne-
 apolis
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 Adrian David LaChapelle, Richfield
 Duane Dale Lambrecht, New Ulm
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 Michael Lawrence Lovdal, Minneapo-
 lis, WITH HIGH DISTINCTION
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 apolis
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 Donald Joseph Mathiowetz, Spring-
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 Joachim Hubert Muehle, Minneapolis
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 Richard William Mueller, Minne-
 apolis
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 Dane Bryan Petersen, Minneapolis
 Alan John Pettersen, St. Paul
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 James Roger Potter, Hartley, Iowa,
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 James Barry Proman, Minneapolis,
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 Steven Edward Przymus, Minneapolis
 Douglas Michael Quinn, Minneapolis
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 Charles Delbert Ridgley, Jr., Minne-
 apolis
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 Conn.
 Rogercarole Rogers, Gary, Ind.
 Rickey Ronald Rohkohl, Minneapolis,
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 Ralph Weir Rostie, International Falls
 Caryl Marie Roth, St. Paul
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 Robert Leonard Shutes, Minneapolis
 David Raymond Sing, St. Paul

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 John William Westling, Minneapolis
 Gerald George Windschitl, Sleepy Eye
 James Thomas Wronski, Minneapolis
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 Albert Owen Zupancich, Ely

Bachelor of Science in Economics

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

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 James Sanford Wettestad, St. James
 David William Zeise, Redwood Falls

COLLEGE OF PHARMACY

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 Charles Frederic Axelson III, Northbrook, Ill.
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 Loyal Laverne Brock, Minneapolis

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Lake
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Adrian David LaChapelle, Richfield
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Margaret Jean Mallen, Winthrop

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Barry William Martinson, Virginia
Calvin Richard Mathieson, Minne-
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Iron
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luth
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WITH DISTINCTION
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apolis
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 Anthony Gerald Beyer, B.S., Tracy
 Bernard Leon Bodien, A.A., B.A., Squaw Lake
 James Ferguson Bodin, B.A., Duluth
 James Craig Boone, B.A., Minneapolis
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 Irving Titus Brennan, Jr., B.A., Alpine, N.J.
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 David Joseph Goldman, B.A., Minneapolis
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 Jere Norman Gwin, B.A., Detroit Lakes
 Lawrence Michael Hall, Jr., B.A., St. Cloud
 Lee Wayne Hanson, B.A., Brooten
 Mahlon Floyd Hanson, B.A., Center City
 Darrell Charles Hill, B.A., St. Paul
 Alden Conrad Hofstedt, B.A., Wheaton
 James Sherman Holmes, B.A., St. Paul, CUM LAUDE
 Larry Keith Houk, B.A., Grove City

Gregory Robert Howard, St. Paul,
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 Hubert Horatio Humphrey III, B.A.,
 Minneapolis
 Larke Lyman Huntley, Jr., B.A.,
 Grand Rapids
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 Jon David Jensvold, B.A., Minneapolis
 Thomas L. Johnson, B.A., Farmington
 William Adam Johnstone, B.A., Boze-
 man, Mont., MAGNA CUM LAUDE
 Ronald Stephen Kalina, B.A., Mont-
 gomery
 Arthur William Katzman, B.A., Min-
 neapolis
 David E. Kelley, B.A., Garden City
 Frank John Kicsner, B.A., Edina
 Carl Renart Larson, B.A., Ely
 E. Richard Larson, B.A., Minneapolis
 Jon Royal Larson, B.S., Minneapolis
 Robert Dean Larson, B.A., Hannibal,
 Mo.
 Robert Palmer Larson, B.A., Minne-
 apolis
 Thomas Henry Lehrer, B.A., Fort
 Lauderdale, Fla.
 Jeffrey Alan Levy, B.A., M.A., Minne-
 apolis
 Thomas Peter Lilja, B.S., Cokato
 Robert Josefson Lindall, B.A., Minne-
 ota
 Daniel Thomson Lindsay, B.A., Way-
 zata, CUM LAUDE
 Norman James Loren, B.A., Minne-
 apolis
 Malcolm Dean MacGregor, B.A., St.
 Paul
 Ronald LeRoy Marek, B.S., Washing-
 ton, Iowa
 James Robert Martin, B.A., Faribault
 Wesley Roy Martins, B.A., Moorhead
 Steven Albert Maurer, B.A., Minne-
 apolis
 Theodore Noah May, B.S., Minneapo-
 lis, MAGNA CUM LAUDE
 Terence John McCloskey, B.A., St.
 Paul
 William John McGinnis, Jr., B.E.E.,
 Minneapolis
 Philip Palmer McGuigan, B.A., New
 York, N.Y.
 Robert Dale Metcalf, B.A., Minne-
 apolis
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 Detroit Lakes, MAGNA CUM LAUDE
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 apolis, CUM LAUDE
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 Maple Lake
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 Iowa
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 Daniel V. Noble, B.B.A., Minneapolis
 Mark Murray Nolan, B.A., Duluth
 Judith Louise Oakes, B.A., Duluth
 Timothy Martin O'Brien, B.A., Min-
 neapolis
 Philip Allen Okney, B.A., Minneapolis
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 Robert James Orth, B.A., St. Paul
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 Paul
 Elliott Phillip Pinck, B.S.B., St. Louis
 Park
 Glenn Edwin Purdue, B.A., Byron
 Terryl Kent Qualey, B.M.E., Minne-
 apolis, CUM LAUDE
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 Malcolm Dennis Reid, B.E.E., Mound
 Gary Charles Reiter, B.A., Minne-
 apolis
 Robert William Reutiman, Jr., B.A.,
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 Paul
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 Paul
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 Selmer Dean Holland, Frost, WITH
 DISTINCTION
 Bruce William Johnston, Deer Park,
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 Wing, WITH DISTINCTION
 Donald Louis Krumm, St. Paul, WITH
 DISTINCTION
 Elden George Lamprecht, Plainview
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 Wis.
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 M.P.H., Granite Falls
 Douglas Gene Lee, Franklin, WITH
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 Jerome Daniel McGraw, Minneapolis
 David Robert Michalski, Milwaukee,
 Wis.
 Robert Lawrence Leonard Monico,
 B.S., Park Rapids

John Peter Neitzke, Detroit Lakes
 Gary Hirran Newman, A.A., Kandi-
 yohi
 Wayne Paul Ode, Lanesboro
 Robert Louis Peiffer, Jr., Edina, WITH
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 Richard Nichols Reiersen, B.A., St.
 Paul
 Marc Lewis Rothstein, St. Paul
 Dennis Allen Saari, Hibbing, WITH
 DISTINCTION
 Julie Anne Severson, Albert Lea, WITH
 DISTINCTION
 Diane Carol Sittig, Minneapolis,
 WITH DISTINCTION
 James Merle Spencer, Baraboo, Wis.
 Byron Malcolm Sugden, St. Paul
 Marvin John Trandem, Medford
 Daniel Pierce Treat, Fargo, N.D.
 Paul Louis Veum, Westby, Wis.
 Roland William Wohlin, A.A., New
 London
 John Fred Youngberg, Milaca

Doctor of Veterinary Medicine

Ben Ayuk Agborbesong, B.S., Kem-
 bong, Cameroon, Africa
 Eugene Raymond Anderson, B.S.,
 Donnelly
 Gerald F. Bailey, B.S., Redwood Falls
 Marcus Ronald Berg, B.S., Cyrus
 William Howard Brockway, B.S., Mil-
 roy
 John Roger Broderson, B.S., St. Paul
 Thomas Dwain Brokken, B.S., Har-
 mony
 Gary Roy Christian, B.S., Fargo, N.D.
 Gerald Lee Denisen, A.A., B.S., Aus-
 tin
 Stephen Everett Dille, B.S., Litchfield
 Thomas Ellsworth Dougherty, Duluth
 Dennis Arthur Doughty, B.S., Osh-
 kosh, Wis.
 Mark Leo Engelbreth, B.S., Racine,
 Wis.
 James William Farnham, B.S., Hib-
 bing

Frederick Foster Gordon III, B.S., St.
 Louis Park
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 William Bryant Isaacson, B.S., Park
 Rapids
 Duane Robert Kissner, B.S., Lamber-
 ton
 John Edward Kolpanen, B.S., Owen,
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 Ph.D., Eden, S.D.
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 Joel David Locketz, B.A., Minneapolis
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 ing Prairie
 William Fabian Maher, B.S., Vesta
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 Wis.
 Donald Theodore Maki, B.S., Kettle
 River
 Douglas Wayne Mason, B.S., Minne-
 apolis
 Lee Howard McDonald, B.S., St. Paul

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Francis Marlow Mills, B.A., B.S., Georgetown	Donald Keith Skaife, B.S., Blanchardville, Wis.
Loyal Charles Monson, B.S., Augusta, Wis.	David Lewis Sly, B.S., Farmington
Robert Allen Nesvold, B.S., Madison	Philip O. Sonstegard, B.A.B.A., Marshall
Joseph Spencer Norquist, B.S., Minneapolis	Henry Gilbert Stelling, B.S., Millville
Alan Duane Olson, B.S., Minneapolis	David Littlefield Stewart, B.S., Minneapolis
Peter Allan Olson, B.S., St. Paul	Jamie Dean Swanson, B.S., Cushing, Wis.
Andrew Albert Peterson, B.S., Hunter, N.D.	Dennis Elliott Sweet, B.S., Pipestone
Terrence Edward Rapacz, B.A., Minneapolis	Robert Marvin Thompson, Jr., B.S., Ortonville
John Clemens Reifenberger, A.A., B.S., Minneapolis	Sharon Ann Wachs, B.S., Minneapolis
Charles Schumann Rhodes, B.S., Clinton, Wis.	James Francis Weege, B.S., Ixonia, Wis.
John Quentin Rolfson, B.S., Bemidji	Loren August Will, B.A., B.S., Fridley
Patrick John Rooney, B.S., Superior, Wis.	Warren Dennis Wilson, B.S., Red Lake Falls
Kenneth Alan Rosenberg, B.S., St. Paul	Thomas Frederick Winter, B.S., Bloomington
Anthony Robert Scheiber, B.S., St. Paul	Robert Matheson Wood, Jr., B.S., St. Paul

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Bette Jo Arnett, Redwood Falls	Patricia Ann Gates, B.A., Minneapolis
Audrey Elaine Bomstad, Lake Lillian	Verna Rae Goltz, A.A., Squaw Lake
Julie Ann Borene, New Prague	Jenna Lee Gysler, Hopkins
Mary Ann Brosnahan, B.S., Minot, N.D.	Sheila Rae Hecker, Barnum
Patricia Bennett Carlson, Edina	Marcia Anne Inglis, Redwood Falls
Kathleen Ann Chopp, Rochester	Joyce Marie Keehn, Billings, Mont.
Barbara Jo Christenson, Richfield	Stephanie Jean Klohs, Minneapolis
Janice Maria Cleary, South St. Paul	Susan L. Kulas, Winona
Linda Marie Cleary, St. Paul	Katherine Marie Leslie, Newport
Patricia Kathryn Coe, Wayzata	Laura Ann Louwagie, Marshall
Mary Ann Decker, White Bear Lake	Lou Ellen Lundquist, Edina
Muriel Catherine Ebersole, Minneapolis	Lynn Marie Mattila, Brooklyn Center
Margret Ann Fahrenkrog, Bloomington	Pamela Michele Merritt, Minneapolis
Judith Mary Fitzgerald, Owatonna	Kathryn Louise Oliver, Moorhead
Kathleen Christine Fujino, St. Louis Park	Nancy Lou Palmer, Minneapolis
Ann Marie Funda, Jamestown, N.D.	Barbara Jo Peterson, St. Paul
	Roxayn Rae Quimby, West Concord
	Janice Alma Roen, Madison
	Lynda Jean Schreiber, Minneapolis
	Lea Mary Schuelke, Jamestown, N.D.

Pamela Ann Seeber, Edina
Susan Jennifer Snyder, Ewen, Mich.
Mary Katherine Spiczka, Robbinsdale
Lonnie Lea Sutherland, Hallock
Kathleen Margaret Voigt, St. Paul

Jane Louise Weinzierl, Waconia
Sharolyn Rae Westling, Minneapolis
Joan Beverly Ziebarth, Brooklyn Center

Bachelor of Science

Mark Edward Ballinger, New Prague
James Harold Barthel, St. Michael,
WITH DISTINCTION
Alan Lee Baumann, St. Paul
John Phillip Beardsley, Lakefield
James LeRoy Berge, Minneapolis
Gary Loy Bergh, St. Paul
Robert Arthur Bjorkman, St. Paul
Jon David Bjornnes, B.A., Edina
James Edward Black, New Ulm
Bernard Louis Bomberg, St. Paul
Arthur Alan Broderson, Rosemount
James Weston Burquest, Minneapolis
Gary Curtis Cargill, B.A., St. Paul
Rodger James Droel, Minneapolis,
WITH HIGH DISTINCTION
William Erwin Dyck, B.A., Minneapolis
Steven Paul Eck, Gonvick
Patrick Joseph Ennen, Minneapolis
Robert Jon Feigal, Pine Island, WITH
HIGH DISTINCTION
James Lloyd Fremstad, Fargo, N.D.
Michael Forbes Fuller, St. Paul
Neil Sheldon Gilbert, St. Louis Park,
WITH DISTINCTION
Peter Alan Glennie, B.A., International Falls
Donald Charles Grant II, Golden Valley
Gordon Donald Gross, Pierz
William Alan Guy, Little Falls
Dennis Michael Hackett, Lake Geneva, Wis., WITH DISTINCTION
Carl Haedge III, West St. Paul
Jeffrey Wynn Hagen, Granite Falls
William Charles Hill, St. Louis Park
Charles Louis Hirt, A.A., Hibbing
Bradley Alan Jarvey, B.A., Minneapolis, WITH DISTINCTION
Robert Allen Jeglum, B.S., Monroe, Wis.

Terry Lee Kalar, International Falls
Gregory John Kilbane, White Bear Lake
Alan Deming Mjolsnes, Edina
Richard Sharpe Morrissey, Gillette, Wyo.
Robert Lawrence Nelson, St. Paul,
WITH DISTINCTION
Dennis Elof Nilsson, Richfield
John Oscar Nord, Grand Forks, N.D.,
WITH HIGH DISTINCTION
Theodore Lynn Ostrem, Moorhead
James William Parkin, B.S.Pharm.,
Minneapolis, WITH DISTINCTION
William Ross Posnick, St. Louis Park
Michael Nick Prazich, Coleraine
Dennis LeRoy Quinlan, Richfield
Charles Otto Rohrer, Owatonna, WITH
DISTINCTION
Peter Charles Roth, Hopkins
Robert Gilbert Ryan, Duluth, WITH
HIGH DISTINCTION
Robert Charles Schulte, Minneota,
WITH DISTINCTION
Gerald D. Scovill, Hibbing
Richard John Simonsen, Oslo, Norway, WITH DISTINCTION
Robert Michael Sinko, Chisholm
Leo Carl Sinna, St. Paul, WITH HIGH
DISTINCTION
Richard Charles Stoffel, St. Paul
Robert Gordon Stromberg, Ashland, Wis., WITH DISTINCTION
Howard Wall Taylor, Minneapolis
Walter Frederick Teske, Minneapolis
Thomas Walter Waite, Cooley
John Howard Warford, Bemidji, WITH
DISTINCTION
Robert Russell Weigel, Minneapolis
Scott Robert Wilcox, Edina
James Randall Yamamoto, Paynesville
Warren Dale Zenk, South St. Paul

Doctor of Dental Surgery

- Steven Clyde Ager, Worthington
Harry Daniel Anderson, B.S., Dresser, Wis.
Robert Carl Anderson, B.S., St. Paul
Jerome Lewis Appeldoorn, Northfield
Ronald Eugene Appeldoorn, B.A., Truman
Michael C. Babcock, B.S., St. Peter
Mark Edward Ballinger, New Prague
Gary Norman Bjella, B.S., Crosby, N.D.
James Edward Black, New Ulm
Bernard Borkon, B.S., Duluth
LeRoy Oakley Brend, B.S. Mohall, N.D.
Douglas Wilford Burgess, B.S., Kasson
Peter Allan Cameron, B.A., B.S., St. Louis Park
Donald John Clausen, Edina
Neil Ronald Covin, B.S., Minneapolis
John Michael Daugherty, B.S., Willmar
Gary Michael DeLoia, B.S., Duluth
Theodore Joseph Dengler, Jr., B.A., B.S., Side Lake
Rodger James Droel, Minneapolis
Velma Hildegard Dyck, B.A., B.S., Minneapolis
Steven Paul Eck, Convick
Bernhard Harold Ellingson, B.S., Manvel, N.D.
Harry Paul Fanning, B.S., Laramie, Wyo.
Edward Michael Farsht, B.S., St. Paul
Michael James Fillmore, Moorhead
Wayne Arthur Finnegan, B.S., Willmar
David Allen Fleming, B.S., Grand Rapids, Mich.
Neil Lyons Frederiksen, B.S., Winona
Richard Wingate Gould, B.A., Edina
Dennis Michael Hackett, Lake Geneva, Wis.
Stuart John Herschleb, Stillwater
Gary Lee Hill, B.S., St. Louis Park
Charles Louis Hirt, A.A., Hibbing
Robert Allen Jeglum, B.S., Monroe, Wis.
Charles Michael Jenness, B.S., Northfield
Donald John Jeronimus, Jr., B.S., Golden Valley
Robert William Jones, B.S., St. Paul
Terry Lee Kalar, International Falls
George John Kinney, Jr., B.S., Menomonie, Wis.
Philip John Krueger, Perham
William David Kubiak, Duluth
Michael Richard Kuipers, B.S., Hopkins
Peter William Kuipers, B.S., St. Paul
Victor Ronald Kvikstad, B.S., Thief River Falls
Roger Elmer Layon, B.S., Kettle River
Dean Russell Lohmeier, B.S., Ada
Michael David Lund, Minneapolis
Michael Bernard Manthei, B.A., B.S., Mora
David Loren McCarty, Minneapolis
Peter Michael McLinn, B.S., Edina
Kenneth Theodore Meyer, B.S., Mantato
Russell Charles Meyer, B.S., Kenyon
John Irvin Misner, B.A., Minneapolis
Alan Deming Mjolsnes, Edina
Michael John Montgomery, B.S., Minneapolis
Richard Sharpe Morrissey, Gillette, Wyo.
Gary O. Myran, B.S., Manchester
James Allen Nasby, B.A., Bode, Iowa
Steven Jon Nedrelow, B.S., Plainview
Robert Lawrence Nelson, St. Paul
Stephen Russell Nelson, B.S., Adrian
Howard Michael Noack, B.S., Arlington
Roger Alan Novak, B.S., St. Paul
James Joseph O'Brien, B.S., Hopkins
Allan Dudley Olson, B.A., B.S., Minneapolis
Irene Livingstone O'Neill, Minneapolis
James William Parkin, B.S. Pharm., Minneapolis
Walter Brewster Parsons, Jr., B.S., St. Paul
Craig Albert Peterson, B.S., Moose Lake
James Joseph Popp, B.S., St. Cloud

James Curtis Price, B.S., Watertown, S.D.
 Stephen William Robinson, B.S., Minneapolis
 Henry Rudolph Ronning, B.S., Willmar
 John Douglas Rosberg, B.S., Duluth
 Robert Gilbert Ryan, Duluth
 Franz Leigh Sattler, B.A., B.S., Rochester
 John Philip Schad, A.A., B.S., Rochester
 Carl Michael Schneider, B.S., Bayport
 Peter Arnold Schneider, B.A., Adams
 Boyd Jon Schreiber, B.S., Minneapolis
 Norman Wright Scott, Jr., B.A., B.S., Minneapolis
 Robert Michael Sinko, Chisholm
 John Milton Skillicorn, B.A., Wauwatosa, Wis.
 Charles Vaughan Smith, White Bear Lake
 Terrance Joseph Spahl, B.S., St. Paul
 Michael Harold Spears, B.S., Red Lake Falls
 Richard Charles Stoffel, St. Paul
 Walter Frederick Teske, Minneapolis
 Allen Anthony Tighe, B.S., St. Paul
 Robert Burton Torgerson, Stillwater
 Charles Frederick Tremann, B.S., Minnetonka
 Mark B. J. Trehwella, Richfield
 Thomas Walter Waite, Cooley
 Richard Paul West, B.A., B.S., St. Cloud
 Warren Dale Zenk, South St. Paul
 Cortland Glenn Zimbrick, B.S., Grand Forks, N.D.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Mary Louise Ahles, Albany, WITH DISTINCTION
 Eloise Kay Anderson, Richfield, WITH HIGH DISTINCTION
 Jeanne Elizabeth Anderson, St. Paul
 Rachel Lynn Arnhold, Grand Rapids
 Cynthia Ann Bailey, Falcon Heights
 Sandra Ann Crum Barott, St. Paul
 Kay Rethwill Berg, Le Sueur
 Mary Ellen Berg, Rockford, Ill.
 Mary Ann Berger, Clear Lake
 Sharon Ann Blomquist, St. Paul
 Katherine Amanda Braun, Grand Rapids
 Nona June Brick, New Ulm
 Karen Loraine Brohaugh, Minneapolis, WITH HIGH DISTINCTION
 Lynda Elayne Burgess, West Caldwell, N.J.
 Sylvia Delores Byrd, Minneapolis
 Catherine Marie Carleen, Minnetonka, WITH DISTINCTION
 Rhoda Ann Carpenter, Minneapolis, WITH HIGH DISTINCTION
 Connie Johnson Ceman, Cresco, Iowa
 Mary Elizabeth Crowley, St. Paul
 Nancy Valberg Lee Dagg, Pengilly, WITH HIGH DISTINCTION
 Elaine Gail Davis, St. Cloud
 Linda Kathleen Davis, Richfield, WITH DISTINCTION
 Gail Jeannine Davison, Tintah
 Nancy Jane Day, St. Paul, WITH DISTINCTION
 Sharon Elizabeth Dodds, Minneapolis
 Joan Mary Drey, St. Paul
 Mary Jane Engeland, St. Paul
 Alanna Rae Erickson, Fergus Falls
 Patricia Louise Feld, St. Louis Park, WITH HIGH DISTINCTION
 Ruth Elaine Garbisch, Brownsdale
 Judith Kay Gehlsen, White Bear Lake
 Mary Ruth Gess, Bismarck, N.D., WITH HIGH DISTINCTION
 Sarah Fritz Haavik, Duluth, WITH DISTINCTION
 Sharyn Merice Halverson, Babbitt, WITH DISTINCTION
 Carla Anne Hansen, Litchfield, WITH HIGH DISTINCTION
 Ruth Ann Hansen, Jackson
 Sandra Marie Hanson, Dawson

- Virginia Elaine Hart, Minneapolis,
WITH DISTINCTION
- Jane Elizabeth Haugen, Minneapolis
- Robin Haverkamp, Cedar Rapids,
Iowa, WITH HIGH DISTINCTION
- Janet Nancy Hempstead, Edina
- Margaret Leslie Linse Heyne, New
Brighton
- Carole Lee Hodges, New Brighton,
WITH HIGH DISTINCTION
- Nancy Jean Hoffman, St. Paul
- Kathryn Dale Johnson, Anoka
- Mary Lou Johnson, St. Paul, WITH
HIGH DISTINCTION
- Pamela Judith Johnson, Minneapolis
- Mae June Keller, Breckenridge, WITH
HIGH DISTINCTION
- Marsha Elaine King, Minneapolis,
WITH HIGH DISTINCTION
- Joan Velma Lemberg, Brooklyn
Center
- Elizabeth Ann Liescheck, Roseville
- Ann Mary Lillehaug, Graceville, WITH
HIGH DISTINCTION
- Leslie Deanna Mason, Bloomington,
WITH DISTINCTION
- Agnes Elizabeth Meth, Kansas City,
Mo.
- Mary Candida Michel, Wichita, Kan.
- Mary Ann Nardecchia, White Bear
Lake
- Judy Van Camp Nelson, Austin, WITH
HIGH DISTINCTION
- Mary Margaret Nordlund, White
Bear Lake
- Lynne Margarec Nylander, Hancock
- Margaret Ann O'Brien, Minneapolis,
WITH DISTINCTION
- Mary Elizabeth O'Connor, St. Paul
- Marlys Ann Olsen, Minneapolis
- Sharon Lynn Olsen, Willmar
- Barbara Ann Olson, Edina
- Juliann Louise Olson, Ostrander, WITH
DISTINCTION
- Naomi Ann Palmer, Minneapolis
- Janice Ann Paulson, Anoka
- Kathryn Lynn Pearson, St. Cloud
- Susan LaVerne Worrel Peisert, St.
Paul, WITH DISTINCTION
- Candice Lee Peterson, Lompoc, Calif.
- Marjorie Ann W. Peterson, Minne-
apolis
- Mary Ann Mejdrich Peterson, Swatara
- Kay Russell Plymat, Minneapolis,
WITH DISTINCTION
- Patricia Jean Poylio, Soudan
- Linda Sue Reynolds, Minneapolis
- Deborah Gail Riese, Wadena, WITH
DISTINCTION
- Barbara Lou Ristuben, St. Paul
- E. Dawn Schapiro, Minneapolis, WITH
HIGH DISTINCTION
- Linda Lee Seck, Minneapolis
- Sharon Louise Simonson, Faribault
- Patricia K. Sleezer, Aurelia, Iowa
- Lana Jean Snodgrass, Las Cruces,
N.M.
- Marcella Ann Steiner, St. Paul
- Karolyn Anne Stenlund, St. Paul
- Alice R. Kyvig Swan, St. Paul, WITH
DISTINCTION
- Diane Ruth Traver, Minneapolis
- Anne Louise Trowbridge, Minneapo-
lis, WITH DISTINCTION
- Judith Anne Urban, Wausau, Wis.,
WITH HIGH DISTINCTION
- Merey Louise Vacura, Jackson
- Rose Marie Wandersee, Cokato
- Mary Kathryn Widen, Minneapolis
- Lorna Mae Wiens, Mountain Lake
- Julianne Louise Wold, St. Paul
- Linda Lillian Wold, Chicago, Ill.
- Carol Jeanne Woodard, Webster City,
Iowa
- Nancy Myrnell Youel, Kewanee, Ill.

Bachelor of Science

- Margaret Ann Abalan, Duluth, Physi-
cal Therapy, WITH DISTINCTION
- Jacqueline Allyn Abel, St. Paul, Physi-
cal Therapy
- Darrel Roy Anderson, B.A., Edina,
Medicine
- David Clifford Anderson, B.A.,
Rochester, Medicine

- Mary Kay Bauman, Minneapolis, Physical Therapy
- John Wagner Beasley, B.A., St. Paul, Medicine
- Penelope Nelson Beasley, B.A., Menahga, Medicine
- Barbara Jo Behan, South St. Paul, Medical Technology*
- Elizabeth Kirker Bixby, St. Paul, Medical Technology*
- Louis James Bortolon, Jr., A.A., A.M.S., Minneapolis, Mortuary Science
- Dennis Raymond Brady, B.A., St. Paul, Medicine
- Barbara Ann Buckman, St. Paul, Medical Technology*
- Joanne Emma Burg, A.A., Wahpeton, N.D., Mortuary Science, WITH DISTINCTION
- Joseph William Burnett, Jr., New Ulm, Medicine
- Grace Alice Byers, Minneapolis, Medical Technology*
- Kathleen Diane Bzoskie, Duluth, Physical Therapy, WITH HIGH DISTINCTION
- Kenneth Craig Caldwell, St. Paul, Medicine
- Richard William Carlson, B.A., Duluth, Medicine
- Kathleen Mae Carmody, A.M.S., Butte, Mont., Mortuary Science, WITH HIGH DISTINCTION
- Darrell Lewis Carter, Ada, Medicine
- Keith V. Chilgren, B.A., Minneapolis, Medicine
- Richard Thomas Chopp, Jr., Grand Rapids, Medicine
- Carol Ellis Christiansen, Crystal, Medical Technology, WITH DISTINCTION*
- Leah Rae Clark, St. Paul, Medical Technology*
- James McGinty Cooper, B.A., Rochester, Medicine
- Robert James Cornell, McKeesport, Pa., Mortuary Science
- Kenneth Bruce Cram, B.A., Minneapolis, Medicine
- Terry W. Crowson, Rochester, Medicine
- Michael Thomas Cullen, Jr., Willmar, Medicine
- Robert Ben D'Angelo, A.A., Queens, N.Y., Mortuary Science
- Eddie D. DeHaan, B.A., Manhattan, Mont., Medicine
- Robert John Dilley, Hibbing, Physical Therapy, WITH DISTINCTION
- Suzanne D. Dixon, Minneapolis, Medicine
- Dennis Donley Doorneweerd, B.A., Annandale, Medicine
- Richard Jay DuCharme, B.A., St. Paul, Medicine
- Roy John Dunlap II, St. Paul, Medicine
- Donald Taylor Eagles, B.A., Fargo, N.D., Medicine
- Brian Terry Ebeling, B.A., Minneapolis, Medicine
- Miriam Helene Ebeling, Minneapolis, Medical Technology, WITH DISTINCTION*
- Jacquelyn Carol Einhorn, West St. Paul, Medical Technology*
- Eugene Lee Elvecrog, B.A., Richfield, Medicine
- Judith Elida Engebretson, Roseau, Occupational Therapy
- Lucille Marie Englund, Minneapolis, Occupational Therapy
- Margaret Aurelia Erlinger, Minneapolis, Medical Technology, WITH DISTINCTION*
- Judith Marie Espeland, Granite Falls, Physical Therapy, WITH DISTINCTION
- Thomas R. Evans, Minneapolis, Medicine
- James Weir Ewing, B.A., Thief River Falls, Medicine
- Linda Ann Farley, Robbinsdale, Medical Technology*

* These degrees are conferred subject to the completion of practical work prior to December 20, 1969.

- Mary Ann Folta, Minneapolis, Physical Therapy, WITH HIGH DISTINCTION
- Andrew James Fortune, Jr., A.M.S., Saranac Lake, N.Y., Mortuary Science
- Barbara June Fyksen, Duluth, Medical Technology*
- John Wilson Gage, Rochester, Medicine
- Daniel Brian Garrity, A.M.S., Prairie du Chien, Wis., Mortuary Science
- Roger Lee Gebhard, B.A., St. Paul, Medicine
- John Howard Geiser, B.A., Bluffton, Medicine
- Howard David Gilbert, B.A., Minneapolis, Medicine
- Lorraine Roseanne Gilbertson, Minneapolis, Physical Therapy
- David Rhodes Gilchrist, B.A., Pine River, Medicine
- Ruth Marie Goehle, B.A., St. Paul, Medicine
- Marshall Joel Golden, St. Louis Park, Medicine
- Mary Marguerite Goossens, St. Paul, Medical Technology, WITH DISTINCTION*
- John Lawrence Gorny, B.A., Chicago, Ill., Medicine
- Stuart Irving Gross, B.A., Minneapolis, Medicine
- Janis Annette Gustafson, Minneapolis, Medical Technology*
- Stephen Leigh Hadley, Duluth, Medicine
- Mary Beth Hageman, Bovey, Physical Therapy, WITH DISTINCTION
- William Scott Haglund, A.M.S., St. Paul, Mortuary Science
- Jay Robert Hall, Emmetsburg, Iowa, Mortuary Science
- Jeffrey Brian Halter, B.A., Minneapolis, Medicine
- James Dillon Hamilton, Marshalltown, Iowa, Mortuary Science
- Irvin Lewis Handelman, B.A., St. Paul, Medicine
- Carol Gay Harrison, Minneapolis, Physical Therapy
- Patrick Francis Hergott, B.A., Minneapolis, Medicine
- Thomas Arthur Hildreth, B.A., Minneapolis, Medicine
- Thomas William Hilgers, B.S., Fairmont, Medicine
- Candyce Jane Holden, St. Paul, Occupational Therapy, WITH DISTINCTION
- Anthony Wesson Holt, B.A., North Branch, Medicine
- Bruce Ellyson Hyde, B.A., Virginia, Medicine
- Susan Alice Jensen, B.A., Minneapolis, Occupational Therapy
- Bruce Elwin Johnson, B.A., Morgan, Medicine
- Margaret Jeanne Johnson, St. Paul, Occupational Therapy, WITH DISTINCTION
- Mark Herbert Johnson, B.A., Albert Lea, Medicine
- Cynthia Carol Kaley, Rochester, Medical Technology*
- Ronald E. Karsnia, Frazee, Medical Technology*
- Susan Lee Kellor, South St. Paul, Occupational Therapy, WITH DISTINCTION
- Karen Rae Kerzie, Gilbert, Physical Therapy, WITH DISTINCTION
- William Richard Keye, Jr., B.A., St. Paul, Medicine
- Henry Michael Keys, B.A., St. Paul, Medicine
- William D. Kimber, B.A., Minneapolis, Medicine
- Cathy Scanlon Kircher, Willmar, Physical Therapy
- Linda Joan Kirchhoff, Columbia Heights, Medical Technology*
- Karen Ann Kloss, Minneapolis, Medical Technology*
- Timothy James Koelz, A.A., B.A., Worthington, Medicine
- Keith Francis Lacey, Chatfield, Medicine

* These degrees are conferred subject to the completion of practical work prior to December 20, 1969.

- Ernest Edelbert Lack, Jr., Minneapolis, Medicine
- Katherine Ann Lakso, Duluth, Medical Technology, WITH DISTINCTION*
- Charles Joseph LaTendresse, Eveleth, Medicine
- Robert Wallace Leland, Bricelyn, Medicine
- Wesley Leland Lindquist, B.A., Minneapolis, Medicine
- Carol Ann Luck, Duluth, Medical Technology*
- Tedford C. Luck, Duluth, Medicine
- Kristofer Torsten Lund, B.A., Mankato, Medicine
- Daniel Clay Maneval, A.M.S., Williamsport, Pa., Mortuary Science
- Franklin Hammond Martin, B.A., St. Paul, Medicine
- Ann Helen Mattice, Minneapolis, Physical Therapy
- Rebecca Jean McDermid, Minneapolis, Occupational Therapy
- Marion Elizabeth Melzark, Kettle River, Physical Therapy, WITH DISTINCTION
- Michael Metcalf, Princeton, Medicine
- Diane Marie Olson Michalik, Minneapolis, Medical Technology, WITH DISTINCTION*
- Carol Lee Miller, Minneapolis, Mortuary Science
- Joel Thomas Miller, White Bear Lake, Mortuary Science
- Joan Marie Milles, Mankato, Physical Therapy
- Cynthia Ann Moe, Richfield, Medical Technology*
- David Paul Munson, B.A., Bloomington, Medicine
- Steven Patrick Myers, A.M.S., Seymour, Ind., Mortuary Science
- Richard Britt Myre, A.M.S., Richfield, Mortuary Science, WITH DISTINCTION
- Arlene Gloria Nelson, Robbinsdale, Physical Therapy, WITH HIGH DISTINCTION
- Craig Edward Nelson, Minneapolis, Occupational Therapy
- Diane Joy Nelson, Minneapolis, Occupational Therapy, WITH DISTINCTION
- Jeffrey Warren Nelson, St. Paul, Medicine
- Kurt Neil Newton, Britt, Physical Therapy
- Dennis Allen Nousaine, New York Mills, Medicine
- Judith Lyn Oleson, Northfield, Physical Therapy, WITH DISTINCTION
- Connie Sue Olson, Dennison, Physical Therapy
- Dennis Henry Olson, B.A., St. Louis Park, Medicine
- Margaret F. Olson, Minneapolis, Physical Therapy
- Janice Jean Ophoven, St. Paul, Medicine
- Devonne Judy Ostman, Eden Prairie, Medical Technology*
- Susan Kay Ozwoeld, Minneapolis, Medical Technology*
- Viththalbhai U. Patel, B.A., M.S., Northfield, Medicine
- Nick James Pease, Osakis, Mortuary Science
- Jerry Robert Petersen, Minneapolis, Medicine
- Craig Algene Peterson, A.M.S., Willmar, Mortuary Science
- Nancy Lynn Peterson, Red Wing, Occupational Therapy, WITH HIGH DISTINCTION
- Robert Arnold Peterson, Minneapolis, Medicine
- Marilyn Joanne Ploof, St. Paul Park, Occupational Therapy, WITH DISTINCTION
- Thomas Alfred Polta, Grand Rapids, Medicine
- Janet Anne Porter, Minneapolis, Medical Technology, WITH DISTINCTION*
- Richard Michael Powell, B.A., Stillwater, Medicine

* These degrees are conferred subject to the completion of practical work prior to December 20, 1969.

- Kathryn Ann Pribyl, Maple Lake, Medical Technology*
- Steven Covert Puffer, White Bear Lake, Medicine
- Charles Frederick Quest, Jr., B.A., Minneapolis, Medicine
- Margot Marie Rabideau, A.A., Virginia, Physical Therapy, WITH DISTINCTION
- Janet Sue Redman, Alden, Medical Technology*
- John Clinton Rehkamp, A.A., Marshall, Mortuary Science
- Herbert Matthew Reiman, Jr., B.A., West Caldwell, N.J., Medicine
- Jane Lenore Reiman, B.A., St. Paul, Medicine
- Peter James Rieff, A.M.S., Minneapolis, Mortuary Science
- Karin Jean Rittgers, Starbuck, Medical Technology*
- Joyce Marie Rolla, Duluth, Medical Technology, WITH DISTINCTION*
- Jean Marie Rysavy, Austin, Medical Technology*
- Carolyn Jean Scheffler, Lafayette, Physical Therapy
- Don Charles Schmiesing, B.A., Walnut Grove, Medicine
- Marilyn Jean Schultz, A.A., Rochester, Physical Therapy, WITH DISTINCTION
- Jane Marie Shoffner, St. Paul, Occupational Therapy
- Stuart Erick Sinding, A.M.S., Thief River Falls, Mortuary Science
- Alan Russell Sivertson, Dalton, Medicine
- Joseph Frederick Soderlund, Minneapolis, Medicine
- Sharon Hildebrandt Solem, Glencoe, Physical Therapy, WITH DISTINCTION
- Susan Marie Stanko, Minneapolis, Occupational Therapy, WITH DISTINCTION
- Charles Allan Stegeman, Austin, Medicine
- Gloria Jean Schaap Strandberg, Worthington, Medical Technology, WITH DISTINCTION*
- Elaine Carol Strom, Minneapolis, Medical Technology*
- Cynthia Ann Strub, Richfield, Medical Technology*
- Daniel Raymond Suchy, B.A., Nelson, Medicine
- Darcea Dawn Taapa, A.A., Embarrass, Physical Therapy
- Robert Joseph Talian, A.M.S., Portage, Ind., Mortuary Science, WITH DISTINCTION
- Steven Jeffrey Thorson, Albert Lea, Medicine
- Diana Rae Thorud, St. Paul, Occupational Therapy
- Donald W. Tompkins, Byron, Mortuary Science
- Richard Laurence Turner, A.M.S., Golden Valley, Mortuary Science
- Irma Hilda Ullrich, B.A., Howard Lake, Medicine
- Richard James Vanasek, B.A., New Prague, Medicine
- Thomas McIntyre Vertin, A.M.S., Breckenridge, Mortuary Science
- Katherine Norby Waldron, A.L.A., Leawood, Kan., Physical Therapy, WITH DISTINCTION
- Frank Leslie Walker, Jr., B.A., Hopkins, Medicine
- John Arnold Wangsness, B.A., St. Paul, Medicine
- Mary Sharon Wangsness, B.A., St. Paul, Medicine
- Rud Carlton Wasson, B.A., Battle Lake, Medicine
- Thomas Joseph Weber, A.M.S., Melrose, Mortuary Science, WITH DISTINCTION
- Thomas Franklin Weigel, A.M.S., Minneapolis, Mortuary Science
- Anne Marie Westling, Minneapolis, Occupational Therapy
- Marnee Lynn Willson, Volborg, Mont., Physical Therapy, WITH HIGH DISTINCTION
- Richard Alan Wilson, B.A., Minneapolis, Medicine

* These degrees are conferred subject to the completion of practical work prior to December 20, 1969.

Lois Marie Wimer, Minneapolis,
Physical Therapy
Joan Elizabeth Wocken, St. Paul,
Physical Therapy, WITH HIGH DIS-
TINCTION

Ray William Wood, Granada, Medi-
cine
Richard Allen Wright, B.A., St. Paul,
Medicine

Master of Hospital Administration

George Gerald Adamovich, B.A., Vir-
ginia
George Russell Addleman, B.S.B.,
B.S.Pharm., Oberlin, Kan.
Donald Hanover Botkin, B.S., M.A.,
Denver, Colo.
Sister Maria Brandner, B.S., Denver,
Colo.
Thomas H. Chargaff, B.S., New York,
N.Y.
David Harrison Coombes, B.A., Chevy
Chase, Md.
Jeptha William Dalston, B.A., M.A.,
Longview, Tex.
James Howard Douglas, B.A., Minne-
apolis
Lanny Warren Erickson, B.A., Benson
Gerald Francis Fournier, B.A.,
M.A.P.A., Denver, Colo.
John Renan Frobenius, B.A.,
Omaha, Neb.
Sister Frances Marie Gerhard, B.A.,
Farmington, Mich.
Jerry Greene, B.A., Columbus, Ohio
James E. Griffith, B.S.B., Portland,
Ore.
John Herrick Harrold, B.A., Oak Park,
Ill.
Daniel Jon Hertsgaard, B.A., Minne-
apolis
Jack Dale Hoard, B.S., Eau Claire,
Wis.

Charles Fredrick Hoffman, B.A.,
Duluth
Robert Dennis Huseby, B.A., Duluth
William Bernard Kerr, B.S., Chicago,
Ill.
Martin Lewis Kieffer, B.A., St. Paul
Charles Thomas Killian, B.A., Arcadia,
Wis.
David Eugene Kolb, B.A., Ada
David James Newton, B.B.A., Ann
Arbor, Mich.
David Riley Pitts, B.S.B., St. Marys,
W.Va.
Vern Alfred Pundsack, B.A., Albany
John Norman Schwartz, B.A., Lester
Prairie
Walter Edwin Shain, B.S., Coon
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The Internal Structure of the Middle-Sized
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B.A. with distinction '67, Valparaiso University. Field of Concentration: Social Work. Major Adviser: Prof. H. E. Saloshin.

Kathleen Margaret Sheehan, Minneapolis

B.A. '67, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. M. R. Cohn.

Mary Barbara Sperl, St. Paul

B.A. '63, College of St. Catherine. Field of Concentration: Social Work. Major Adviser: Prof. S. S. Goldman.

Janice Gail Stuerzl, New Brighton

B.A. '67, Elmhurst College. Field of Concentration: Social Work. Major Adviser: Prof. E. S. Felker.

Annice Louise Tyler, Dallas, Tex.

B.A. '67, St. Louis University. Field of Concentration: Social Work. Major Adviser: Prof. S. S. Goldman.

Rebecca Lynn von Fischer, St. Paul

B.A. cum laude '67, Augsburg College. Field of Concentration: Social Work. Major Adviser: Prof. D. A. Whitmore.

Anthony John Waisbrot, Stevens Point, Wis.

B.S. '65, University of Wisconsin. Field of Concentration: Social Work. Major Adviser: Prof. L. F. Merl.

Stanley James Weisner, Oakland, Calif.

B.A. '67, University of California. Field of Concentration: Social Work. Major Adviser: Prof. C. L. Bower.

Susan Snow Wessels, Maplewood

B.A. '66, Skidmore College. Field of Concentration: Social Work. Major Adviser: Prof. L. N. Scott.

Master of Science

Rosie Lydia Acton, Minneapolis

B.S. in Nurs. '65, University of Kansas. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Noel Lewis Allen, Minneapolis

B. of Aero.E. '65, University of Minnesota. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. A. A. Blatherwick.

Darryl Lloyd Anderson, Edina

B.S. '67, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Studies on the Infection of *Populus tremuloides* by *Hypoxylon pruinautum*. Major Adviser: Prof. D. W. French.

Alexander Andrew Ardans, Elko, Nev.

D.V.M. '65, University of California. Major: Veterinary Medicine. Minor: Microbiology. Thesis: Clinical and Epizootiological Studies of Bovine Respiratory Disease Associated with Shipment. Major Adviser: Prof. D. K. Sorenson.

Theodore Barhydt Bailey, Jr., Washington, Iowa

B.S.Hort. '64, Iowa State University. Major: Horticulture. Minor: Biometry. Thesis: Effect of Three Selected Growth Regulators on Penn-cross Bentgrass (*Agrostis Palustris* Huds). Major Adviser: Prof. D. B. White.

Jeffrey Rogers Basford, St. Louis Park

B.Physics with high distinction '65, University of Minnesota. Field of Concentration: Physics. Major Adviser: Prof. S. G. Gasiorowicz.

Michael Joseph Bosiljvac, Omaha, Neb.

B.S. '67, United States Air Force Academy. Field of Concentration: Environmental Health. Major Adviser: Prof. D. E. Barber.

Nyles William Charon, Minneapolis

B.A. '65, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Anti-leptospiral Activity in Normal Lower Vertebrate Serum. Major Adviser: Prof. R. C. Johnson.

Winston Wen Lung Chuang, Hsinchu, Taiwan, China

B.B.A. '60, National Taiwan University. Field of Concentration: Business Administration. Major Adviser: Prof. E. H. Lewis.

Jan Tupper Collard, Minneapolis

B.S. in Nurs. with distinction '67, University of Minnesota. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Alan Eden Comer, Excelsior

B.A. '66, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. E. C. Abbe.

Paul Joseph Conlon, Montreal,
Quebec, Canada

B.S. cum laude '64, Loyola College. Field of Concentration: Geology. Major Adviser: Prof. H. E. Wright.

Mary Jane Cuff, Minneapolis

B.S.P.H.N. '58, Marquette University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

George Frank Detrick, Vineland, N.J.

B.S. '66, University of Delaware. Field of Concentration: Organic Chemistry. Major Adviser: Prof. W. E. Noland.

Barbara Eileen Duggan, Malden,
Mass.

B.S. magna cum laude '67, Salve Regina College. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Derrick Anthony Dunkley, Frankfield,
Jamaica

B.S.E.E. with honors '65, University of Edinburgh. Field of Concentration: Environmental Health. Major Adviser: Prof. G. S. Michaelson.

Charles Donald Easterberg, Evanston,
Ill.

B.A. '65, St. Olaf College. Field of Concentration: Environmental Health. Major Adviser: Prof. H. J. Paulus.

Faye Gertrude Fink, Vibank,
Saskatchewan, Canada

B.S.H.E.C. with great distinction '66, University of Saskatchewan. Major: Home Economics. Minor: Biometry. Thesis: Ascorbic Acid, Dehydroascorbic Acid and the Diketogulonic Acid Fraction in Frozen Cabbage Extracts. Major Adviser: Prof. Joan Gordon.

Thomas Edward Fontaine, Jr., St.
Paul

B.A. '65, University of Minnesota. Field of Concentration: Genetics. Major Adviser: Prof. D. J. Morrell.

James Louis Funderburgh, III, Austin,
Tex.

B.A. with honors '65, University of Texas. Major: Biochemistry. Minor: Physical Chemistry. Thesis: Purification and Properties of the VI Antigen from *Citrobacter freundii* 5396/38. Major Adviser: Prof. R. D. Edstrom.

Raymond John Giske, Minneapolis

B.A. '61, University of South Dakota. Field of Concentration: Business Administration. Major Adviser: Prof. R. S. Willis.

Thomas Leonard Goff, Minneapolis

B.S. '65, Wisconsin State College, River Falls. Field of Concentration: Zoology. Major Adviser: Prof. Magnus Olson.

Elaine Western Hagen, Redwood
Falls

B.A. cum laude '66, Macalester College. Major: Microbiology. Minor: Biochemistry. Thesis: A Genetic Study of Temperature of the *Bacillus Subtilis* Bacteriophage Ø29. Major Adviser: Prof. D. L. Anderson.

Barbara Jean Hanks, Urbana, Ill.

B.S.N. '59, Northwestern University. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

George Edward Heath, Doswell, Va.

B.S. '58, Virginia State College; D.V.M. '66, Tuskegee Institute. Major: Veterinary Physiology and Pharmacology. Minor: Biochemistry. Thesis: The Secretion of Drugs in the Sweat of Animals. Major Adviser: Prof. C. M. Stowe.

Marie Eleanor Heid, Napa, Calif.

B.S. '62, University of California, San Francisco. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Frederic James Hill, St. Paul

B.S. with distinction '67, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. R. L. Hossfeld.

Marthana Colleen Hjortland, Minneapolis

B.S. '51, North Dakota State University of Agriculture and Applied Science; M.S. '52, Ohio State University. Field of Concentration: Biometry. Major Adviser: Prof. M. W. Thornton.

Walter McClure Hohlstein, Roseville
B.S. '62, D.V.M. '62, University of Missouri.
Field of Concentration: Veterinary Microbiology.
Major Adviser: Prof. B. S. Pomeroy.

Judith Garnett Holland, Phoenix,
Ariz.

B.S. '65, Columbia University. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Alice Asako Ito, Los Angeles, Calif.

B.S. '52, University of Southern California. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Coral Senner Joffer, Parker, S.D.

B.S. '64, South Dakota State College of Agriculture and Mechanic Arts. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Toshiro Kamiya, Fujieda, Shizuoka,
Japan

B.S. in Forestry '64, Shizuoka University, Japan; B.S. '66, Wisconsin State College, River Falls. Major: Dairy Husbandry. Minor: Biometry. Thesis: Genetic and Phenotypic Relationships Between Lifetime Production and Measures of Body Size in Holstein Cattle. Major Adviser: Prof. C. W. Young.

John Ting-Chung Kan, Nanking,
China

B.S.(Agri.) '55, National Taiwan University; M.S.(Agri.E.) '62, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: Errors in Measurements of Nuclear-Scattering Cross Section at 16MeV with a Gas Cell Target. Major Adviser: Prof. R. E. Brown.

James Walter Klein, St. Paul

B.S. '62, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. F. D. Irving.

Dale Frederick Korff, Sheboygan Falls,
Wis.

B.S. '65, University of Wisconsin. Field of Concentration: Physics. Major Adviser: Prof. C. F. Giese.

Alice Mitsuye Kuramoto, Webster
City, Iowa

B.S. in Nurs. '67, University of Iowa. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Clara Mae Leach, Raleigh, N.C.

B.S.N. '61, Agricultural and Technical College, North Carolina. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Margaret Kay Lead, Spokane, Wash.

B.A. '64, Holy Names College. Field of Concentration: Entomology. Major Adviser: Prof. M. A. Brooks.

Bo-Yeon Chan Lee, Hong Kong,
Republic of China

Dipl. '55, Chung Chi College. Field of Concentration: Business Administration. Major Adviser: Prof. R. I. Lund.

Shiu Mei Lee, I-Lan, Taiwan, China

B.S. (Pharm.) '66, National Taiwan University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Enzymatic Degradation of Vi-Antigen. Major Adviser: Prof. R. D. Edstrom.

Tzuo-Yan Lee, Tainan, Taiwan, China

B.S. '65, Taiwan Provincial Chung-Hsing University. Field of Concentration: Biometry. Major Adviser: Prof. J. R. Boen.

Kezhekepat Palat Sankaran Menon,
Delhi, India

B.S. '64, University of Delhi. Field of Concentration: Physics. Major Adviser: Prof. C. J. Waddington.

Charles DeWayne Merta, Minne-
apolis

B.S.B. '62, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. E. A. Nightingale.

Howard Harold Meyer, Starbuck

B.S. with distinction '67, University of Minnesota. Field of Concentration: Genetics. Major Adviser: Prof. W. E. Rempel.

William Simpson Miller, Aneta, N.D.

B.S. '66, North Dakota State University. Field of Concentration: Horticulture. Major Advisers: Profs. L. C. Snyder and Cecil Stushnoff.

Donal Moloney, Ennistymon, Ireland

B.Agr.Sc. '56, University College, Dublin, Ireland. Field of Concentration: Plant Pathology. Major Adviser: Prof. M. F. Kernkamp.

Robert Eugene Muller, St. Paul

B.A. '65, University of Minnesota. Field of Concentration: Zoology. Major Adviser: Prof. W. D. Schmid.

Patricia Ann McVehie Neppl, St. Paul

B.S. *cum laude* '63, College of St. Scholastica. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

James Robert Nichaus, Grass Valley, Calif.

B.S. '66, University of California. Major: Geology. Minor: Biometry. Thesis: Investigation of Amino Acids in Precambrian Rocks. Major Adviser: Prof. F. M. Swain.

Larry LuVerne Olson, Cannon Falls

B.S. '66, University of Minnesota. Major: Soil Science. Minor: Plant Physiology. Thesis: An Investigation of Methods to Determine the Line Requirement of Minnesota Soils. Major Adviser: Prof. Janis Grava.

Janet Arlene Ose, Thief River Falls

B.S. in Nurs. '58, Pacific Lutheran University. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

William Charles Peterson, St. Paul

B.Math. with high distinction '67, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Equivalent Definitions of the Conformal Modulus of a Ring. Major Adviser: Prof. J. A. Kelings.

Philip Arthur Pfund, Madison, Wis.

B.S. '66, University of Wisconsin. Major: Fluid Mechanics. Minor: Mathematics. Thesis: Heat Transfer from the Inner Wall of an Annulus to a Decaying Vortex Flow. Major Adviser: Prof. C. J. Scott.

Lauri Ilmari Piiparinen, Cleveland, Ohio

B.S. in Forestry '67, Michigan College of Mining and Technology. Major: Forestry. Minor: Industrial Engineering. Thesis: Physical and Chemical Properties of Refiner Groundwood Produced from Aspen (*Populus tremuloides* Michx.) Wood Types. Major Adviser: Prof. R. L. Hossfeld.

Peter Williams Rauen, Stillwater

B.S. '65, Antioch College. Field of Concentration: Physics. Major Adviser: Prof. E. L. Hill.

Charles Edward Ready, St. Paul

B.Physics with distinction '67, University of Minnesota. Field of Concentration: Physics. Major Adviser: Prof. W. V. Weyhmann.

John J. Salasin, Minneapolis

B.A. '64, George Washington University. Major: Physiology. Minors: Mathematics and Computer Science. Thesis: A Hybrid Stimulation of the Neuronal Encoder. Major Adviser: Prof. R. L. Purple.

John Lewis Schladweiler, Madison

B.S. '67, University of Minnesota. Major: Wildlife. Minor: Biometry. Thesis: Behavior and Causes of Mortality of Pen-Reared Mallards (*Anas platyrhynchos*) Released into the Wild. Major Adviser: Prof. J. R. Tester.

Chee Yong Soh, Singapore

B.A. '61, University of Singapore. Field of Concentration: Business Administration. Major Adviser: Prof. C. W. Rudelius.

Donald Walter Strecker, Annandale

B. of Physics with distinction '65, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Altitude Variations of the Air-glow Continuum. Major Adviser: Prof. E. P. Ney.

David John Swenson, Minneapolis

B.A. '64, University of Minnesota. Field of Concentration: Statistics. Major Adviser: Prof. B. W. Lindgren.

Ana Eugeni Reyes Toledo, Concepción, Chile

Teacher '63, University of Chile. Field of Concentration: Zoology. Major Adviser: Prof. Magnus Olson.

Lester Ray Vough, Markleton, Pa.

B.S. '66, Pennsylvania State University. Major: Agronomy. Minor: Agricultural Plant Physiology. Thesis: Influence of Soil Moisture Availability and Ambient Temperature on Growth and Quality of Alfalfa Harvested at Specific Growth Stages. Major Adviser: Prof. G. C. Marten.

Dorothy Wahlstrom, St. Paul

B.S. with distinction '49, University of Minnesota. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

David Kyle Wilson, Morning Sun, Iowa

B.S. '55, Colorado State University. Field of Concentration: Environmental Health. Major Adviser: Prof. G. S. Michaelson.

Richard Neff Wolfe, Baltimore, Ohio
B.S. in Agri. Biochem. '60, Ohio State University. Major: Pharmacology. Minor: Physiology. Thesis: Monoamine Oxidase Catechol-O-Methyltransferase Activities in the Embryonic and Developing Chicken Brain. Major Adviser: Prof. F. E. Shideman.

Katsuzo Yamaishi, Osaka, Japan
B.S.E. '66, Osaka University. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Elastic Behavior of Aluminum Plate Under Transverse Bullet Impact. Major Adviser: Prof. Robert Plunkett.

Sachiko Yamashita, Japan
B.S. '55, Ochanomizu Women's University. Field of Concentration: Agricultural Economics. Major Adviser: Prof. M. C. Burk.

Master of Science in Aeronautical Engineering

Ramesh Kumar Agarwal, Mainpuri, India
B.S. '65, University of Allahabad; B.Tech. '68, Indian Institute of Technology. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. T. S. Lundgren.

Thomas Anthony Blazer, Pittsburgh, Pa.
B.S.M.E. '67, University of Pittsburgh. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. G. S. Beavers.

Gopalraj Jagadeesh, Bangalore, India
B.E. '65, Bangalore University; M.E. Aero.E. '67, Indian Institute of Science. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. L. L. Lee.

Ram Kumar Matta, Jaipur, India
B.Tech. with distinction '67, Indian Institute of Technology, Delhi. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. G. S. Beavers.

Prabhakara Poovandur Rao, Kav, India
B.E. (Mech.E.) '63, University of Mysore; M.E. (Aero.E.) with distinction '65, Indian Institute of Technology. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. G. S. Beavers.

Wann-Joe Sun, Kaohsiung, Taiwan, China
B.S.E. '66, National Taiwan University. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. A. S. Berman.

Master of Science in Agricultural Engineering

Curtis Roland Freeberg, Stillman Valley, Ill.

B.S. (Ag.E.) '67, B.S. (Ag.) '67, University of Illinois. Major: Agricultural Engineering. Minor: Industrial Engineering. Thesis: A Study of the Performance Characteristics of a Device for Mechanically Removing Small Bales from a Field Hauling Unit. Major Adviser: Prof. M. R. Smith.

Master of Science in Anesthesiology

Russell Bryan Peter Stasiuk, Winnipeg, Manitoba, Canada

B.S. in Med. '65, M.D. '65, University of Manitoba. Major: Anesthesiology. Minor: Pharmacology. Thesis: Studies of the Canine Ventricular Fibrillation Threshold: Effects of Anesthetics, Hypothermia and Bretylium Tosylate. Major Adviser: Dr. J. J. Buckley.

Master of Science in Chemical Engineering

Louis Seiler, Jr., Compton, Calif.

B.S. with honors '67, University of California, Berkeley. Major: Chemical Engineering. Minor: Biochemistry. Thesis: Augmented Heat Transfer Through Tissue Due to Blood Flow and Vascular Interaction. Major Adviser: Prof. K. H. Keller.

Master of Science in Civil Engineering

Larry James Finn, Patch Grove, Wis.

B.S. '68, Wisconsin State University, Platteville. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. T. Hanley.

Larry William Gubbe, Minneapolis

B.S.C.E. with distinction '66, University of Minnesota. Major: Civil Engineering. Minors: Mathematics and Mechanics and Materials. Thesis: The Effect of Gravity Loading on the Dynamic Response of a Yielding Structure. Major Adviser: Prof. L. E. Goodman.

Martin Ronald Lunde, Maple Shade, N.J.

B.S. in Mech.E. '67, Drexel Institute of Technology. Field of Concentration: Civil Engineering. Major Adviser: Prof. L. E. Goodman.

James Rudolph Ries, Minneapolis

B.C.E. '57, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. T. Hanley.

Robert Bernard Roscoe, Minneapolis

B.C.E. with distinction '67, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: County Coordinates as the Geographic Determinate for Urban Information Systems. Major Adviser: Prof. M. S. Kersten.

Master of Science in Dentistry

David Harold Brandt, Lakeland

B.S. '63, Macalester College; D.D.S. '67, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Dento-Facial Changes Occurring During and After Orthopedic Management of Scoliosis. Major Adviser: Dr. R. J. Isaacson.

Jerry Preston Devin, Muscatine, Iowa

D.D.S. '63, State University of Iowa. Major: Dentistry. Minor: Anatomy. Thesis: The Effects of Orthodontic Tooth Movement in Periodontally Diseased Hamsters. Major Adviser: Dr. R. J. Isaacson.

Lau Chung Sek, Sao Paulo, Brazil

Dipl.C.E. '64, Mackenzie University, Brazil. Field of Concentration: Civil Engineering. Major Adviser: Prof. Paul Andersen.

Gerald Marvin Sunde, Bloomington

B.C.E. with distinction '61, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. L. P. Pederson.

Robert Gerald Swanson, Minneapolis

B.C.E. '61, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. T. W. Thomas.

Robert Barry Whiteaker, Hopkins

B.C.E. with distinction '66, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Plate Analysis by Finite Difference Methods in Polar Coordinates. Major Adviser: Prof. P. P. Christians.

David Charles Ellenberg, Spring Valley

B.S. with high distinction '63, D.D.S. '65, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Evaluation of Relapse Changes Following Rapid Maxillary Expansion. Major Adviser: Dr. R. J. Isaacson.

Kurt Jay King, St. Louis Park

B.S. '63, D.D.S. '63, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Clinical Evaluation of a Composite Resin in Primary Posterior Teeth. Major Adviser: Dr. L. H. Meskin.

Robert Lewis Leff, Long Meadow,
Mass.

B.A. *magna cum laude* '62, Yale College;
D.D.M. '67, University of Pennsylvania. Major:
Dentistry. Minor: Anatomy. Thesis: Overbite
Correction and Relapse as Analyzed by Some
Cephalometric and Treatment Related Vari-
ables. Major Adviser: Dr. R. J. Isaacson.

Carter Carey Reese, Minneapolis

B.S. '63, D.D.S. '67, University of Michigan.
Major: Dentistry. Minor: Anatomy. Thesis:
An Evaluation of Migration of the Maxillary
First Permanent Molar Following Cessation
of Extra-Oral Forces. Major Adviser: Dr. R. J.
Isaacson.

John Joseph Sauk, Jr., Detroit, Mich.

B.S. '63, D.D.S. '67, University of Detroit.
Major: Dentistry. Minor: Pathology. Thesis:
The Effect of Methotrexate on Cellular Pro-
liferation in the Hamster Check Pouch. Major
Adviser: Dr. R. J. Gorlin.

Hugh Ronald Silksen, Russellville,
Ark.

B.S.(Ch.E.) '57, B.S.(B.) '57, University of
Colorado; D.D.S. '65, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis: A
Cephalometric Laminagraphic Evaluation of
Some Effects of Intermaxillary Elastics During
Full Banded Orthodontic Treatment. Major
Adviser: Dr. R. J. Isaacson.

Master of Science in Dermatology

Stewart Godbey Carrington,
Rochester

B.S. '53, Centenary College; M.D. '57, Louisi-
ana State University. Major: Dermatology.
Minor: Basic Dermatological Sciences. Thesis:
Ultrastructure of Histiocytes in Cutaneous
Pathology. Major Adviser: Dr. R. K. Winkel-
mann.

Master of Science in Electrical Engineering

Robert Orval Berg, Oakes, N.D.

B.S.E.E. '61, North Dakota State University
of Agriculture and Applied Science. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. R. P. Halverson.

Mao-Jin Chern, Republic of China

B.S.E. '65, National Taiwan University. Major:
Electrical Engineering. Minor: Physics. The-
sis: The Effect of the Gradient of the Electric
Field on the Propagation of Electromagnetic
Waves. Major Adviser: Prof. R. A. Phillips.

Paul Clinton Cornett, Minneapolis

B.S.E.E. '62, Colorado State University. Field
of Concentration: Electrical Engineering. Ma-
jor Adviser: Prof. L. T. Anderson.

Stephen Randall Duggan, Richfield

B.E.E. '62, University of Minnesota. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. K. S. P. Kumar.

Sang-Joon Lee, Seoul, Korea

B.E.E. '68, University of Minnesota. Major:
Electrical Engineering. Minor: Mathematics.
Thesis: Noise in Optical Mixing. Major Ad-
viser: Prof. Aldert van der Ziel.

Wilfred Jerry Mettes, Minneapolis

B.S.E.E. '62, University of Missouri. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. F. N. Bailey.

Raymond Frank Meyer, Bloomington

B.S. '60, South Dakota State College of Agri-
culture and Mechanic Arts. Field of Concen-
tration: Electrical Engineering. Major Adviser:
Prof. R. P. Halverson.

William Charles Mortimore, Minne-
apolis

B.S. with high honor '67, Michigan State Uni-
versity. Field of Concentration: Electrical En-
gineering. Major Adviser: Prof. J. H. Park.

Philip James Nistler, Eden Valley

B. of Physics '60, University of Minnesota.
Field of Concentration: Electrical Engineering.
Major Adviser: Prof. R. P. Halverson.

Michael Laurence Sandahl, Minne-
apolis

B.S.E.E. '63, Iowa State College. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. R. P. Halverson.

Lowell Harvey Schiebe, Minneapolis

B.E.E. '64, University of Minnesota. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. R. P. Halverson.

Master of Science in Industrial Engineering

Ajit Vinayak Gokhale, Poona, India
B.Tech.(Mech.E.) '67, Indian Institute of Technology, Bombay. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Soundarajan Ravisankar, Madras, India
B.E. '67, University of Madras. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Kishora Chandrakant Karnik, Baroda, India

B.E.(Mech.) '66, M.S. University of Baroda. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Master of Science in Mechanical Engineering

Norman Joseph Alvares, Pacifica, Calif.

B.A. '56, San Francisco State College. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Heat Transfer From a Burning Cloth to an Adjacent Isothermal Wall. Major Adviser: Prof. P. L. Blackshear, Jr.

Jean-Pierre Francois Antonin Bouchez, Lyon, France

Dipl.Ing. '65, Ecole Catholique d'Arts et Metiers de Lyon. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Measurements of the Thermal Accommodation of Helium on Tungsten at Room Temperature. Major Adviser: Prof. R. J. Goldstein.

Ram Kumar Mittal, Moga, Panjab, India

B.S.E.(Mech.) '65, Panjab University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

John David Munter, St. Paul

B. of Mech.E. with distinction '67, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Measurement of the Thermal Conductivity of Gases at High Temperatures with a Potential Lead Hot Wire Cell. Major Adviser: Prof. W. E. Ibele.

Master of Science in Medicine (Internal)

David Lyon Duval, Rochester

B.S. '58, Yale College; M.D. '62, Northwestern University. Major: Medicine (Internal). Minor: Physiology. Thesis: Effects of Non-Anticoagulant Drugs Upon Electrically-Induced Arterial Thrombosis. Major Adviser: Dr. J. A. Spittell.

Master of Science in Metallurgical Engineering

Jon Paul Zbasnik, Ely

B. of Physics '66, University of Minnesota. Major: Metallurgical Engineering. Minor: Physics. Thesis: Low Temperature Specific Heats of Molybdenum Carbides. Major Adviser: Prof. L. E. Toth.

Master of Science in Obstetrics and Gynecology

William Kerby Hummer, Rochester

B.S. '62, M.D. '62, State University of Iowa. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Carcinoma In Situ of the Vagina. Major Adviser: Dr. D. G. Decker.

Master of Science in Orthopedic Surgery

James Herbert House, Wood Lake

B.S. '61, M.D. '63, University of Minnesota.
Major: Orthopedic Surgery. Minor: Anatomy.
Thesis: Dynamic Concepts of Upper Ex-
tremity Surgery in Cerebral Palsy. Major Ad-
viser: Dr. J. H. Moe.

Master of Science in Surgery

Robert Gerald Carlson, Anoka

B.A. *magna cum laude* '51, M.D. '54, Uni-
versity of Minnesota. Major: Surgery. Minor: Pa-
thology. Thesis: Myocardial Revascularization:
Determinants of Immediate Implant Patency.
Major Adviser: Dr. C. W. Lillehei.

Certificate of Specialist in Education

Margaret Dredge Carlson, Minne-
apolis

B.A. *magna cum laude* '65, M.A. '67, Uni-
versity of Minnesota. Field of Concentration:
Educational Psychology. Major Adviser: Prof.
M. D. Hall.

Elwood John Young, Minnetonka

B.B.A. '58, M.A. '64, University of Minnesota.
Field of Concentration: Educational Admin-
istration. Major Adviser: Prof. V. D. Mueller.

Doctor of Education

Ronald Edmund Goedken, Burnsville

B.S. '53, St. Mary's College; M.A. '59, Uni-
versity of Minnesota. Major: Educational Ad-
ministration. Minor: Supporting Program.
Project: Teacher Observation Practices in the
Schools of the Educational Research and De-
velopment Council of the Twin Cities Met-
ropolitan Area. Major Adviser: Prof. N. C.
Nickerson, Jr.

Robert Louis Mayer, Waconia

B.A. '49, St. John's University; M.A. '62, Uni-
versity of Minnesota. Major: Educational Ad-
ministration. Minor: Supporting Program. Pro-
ject: A Model for the Preparation Process Prior
to Collective Negotiations in Minnesota School
Systems. Major Adviser: Prof. V. D. Mueller.

Harold Frank Janneck, II, Barnesville

B.S. '53, North Dakota State University of
Agriculture and Applied Science; M.S. '59,
South Dakota State College of Agriculture and
Mechanic Arts. Major: Educational Adminis-
tration. Minor: Supporting Program. Project:
An Analysis and Development of Grievance
Procedures for Use in the Public Schools. Ma-
jor Adviser: Prof. D. E. Davis.

Robert Lee Williams, Minneapolis

B.A. '52, M.Ed. '57, Adams State College. Ma-
jor: Educational Administration. Minor: Edu-
cational Psychology. Project: A Constructural
Framework for School-Community Conflict:
Five Case Studies. Major Adviser: Prof. D. E.
Davis.

Doctor of Philosophy

Ira Robert Adelman, Poughkeepsie,
N.Y.

B.A. '63, University of Vermont. Major: Fish-
eries. Minor: Supporting Program. Thesis: Sur-
vival and Growth of Northern Pike (*Esox lu-
cius L.*) in Relation to Water Quality. Major
Adviser: Prof. L. L. Smith, Jr.

Yogish Alekal, Bangalore, India

B.S. '60, University of Mysore; B.E. '63, In-
dian Institute of Science; M.S.E.E. '65, Uni-
versity of Minnesota. Major: Electrical Engi-
neering. Minor: Mathematics. Thesis: Syn-
thesis of Feedback Controllers for Systems with
Time-Delays. Major Adviser: Prof. E. B. Lee.

LeRoy Harvey Anderson, Hopkins

B.S. with distinction '63, M.S.E.E. '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Fluctuation Phenomena in Gallium Arsenide. Major Adviser: Prof. K. M. van Vliet.

Lois Marilyn Ledin Anderson, Cambridge

B.S. *cum laude* '56, Gustavus Adolphus College. Major: Psychology. Minor: Educational Psychology. Thesis: Longitudinal Changes in Level of Work Adjustment. Major Adviser: Prof. L. H. Lofquist.

Donald William Backus, Minneapolis

B.A. '47, Concordia Seminary. Major: Psychology. Minor: Neuropsychiatry. Thesis: The Seven Deadly Sins: Their Meaning and Measurement. Major Adviser: Prof. P. E. Meehl.

John B. Bdzil, Cleveland, Ohio

B.S. in Chem. '63, Case Institute of Technology. Major: Physical Chemistry. Minor: Physics. Thesis: The Elastic Properties of Random Two-Phase Materials. Major Adviser: Prof. Stephen Prager.

Charles Alfred Beasley, St. Paul

B.E.M. *summa cum laude* '52, M.S. '57, Ohio State University. Major: Mineral Engineering. Minor: Supporting Program. Thesis: The Conversion of Mineral Resources to Mineral Reserves: General and Specific Process Models and a Comparative Case-Study Example. Major Adviser: Prof. E. P. Pfeiderer.

Donald Stephen Black, Phoenix, Ariz.

B.S. '50, M.S. '57, Oregon State College. Major: Genetics. Minor: Plant Physiology. Thesis: Heritability Estimates of Oil Content and Other Characters in Several Flax Populations and the Genotypic Correlations Among Characters. Major Adviser: Prof. V. E. Comstock.

Armin Clealand Block, Rice Lake, Wis.

B.S. '51, M.E. '56, Wisconsin State College, Milwaukee. Major: Education. Minor: Curriculum and Instruction. Thesis: An Evaluative Study of the Achievements of Wisconsin's Cooperative Educational Service Agencies. Major Adviser: Prof. C. P. Hooker.

George Wesley Bonewell, Pelican Rapids

B.A. '58, M.D. '66, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: The Inhibition of the Proteolysis of Bovine Serum Albumin by 2,4-Dinitrophenol: A Model for the Uncoupling of Oxidative Phosphorylation. Major Adviser: Prof. C. A. Terzuolo.

Lloyd John Buckwell, Jr., Carthage, Miss.

B.S. in Ed. '51, Northwestern University; M.S. '54, Virginia Polytechnic Institute. Major: Business Administration. Minor: Economics. Thesis: Variable Costs for Internal Management: A Case Study of a Railroad. Major Adviser: Prof. J. C. Gray.

Paul James Cahill, El Sobrante, Calif.

B.S. '64, Wheaton College. Major: Organic Chemistry. Minors: Physical Chemistry and Inorganic Chemistry. Thesis: Correlation of Mass Spectra with the Relative Configuration of Diastereomeric Sulfoxides. Major Adviser: Prof. R. M. Dodson.

Gregg Morgan Campbell, Minneapolis

B.A. '57, University of Minnesota. Major: History. Minor: Political Science. Thesis: Walter Lippmann: An Intellectual and Biographical Analysis of A Preface to Politics. Major Adviser: Prof. D. W. Noble.

Richard William Condon, Crystal Falls, Mich.

B.A. '59, M.A. '60, University of Omaha. Major: History. Minor: German. Thesis: The Moscow Parenthesis: A Study of Finnish-German Relations, 1940-41. Major Adviser: Prof. H. A. Deutsch.

William Bernard Conway, Rensselaer, Ind.

B.A. '60, Ambrose College; M.A. '68, University of Minnesota. Major: Economics. Minor: Political Science. Thesis: Capitalization of the Property Tax: An Empirical Study. Major Adviser: Prof. E. M. Foster.

John Burrell Cook, Des Moines, Iowa

B.S. with distinction '61, M.A. '64, University of Minnesota. Major: Education. Minor: Inorganic Chemistry. Thesis: Student Achievement as a Function of Verbal Interaction in the Classroom. Major Adviser: Prof. C. H. Boeck.

Richard Lee DeSchraver, Minneapolis

B.S. '54, University of Notre Dame; M.S. '55, University of Illinois. Major: Education. Minor: Psychology. Thesis: The Effect of Noise Upon the Instrumental Performance of Exercised and Non-Exercised Rats. Major Adviser: Prof. R. E. McAdam.

Donald Robert Dyrhaug, Bemidji

B.A. '51, Concordia College; M.S. '60, North Dakota State University of Agriculture and Applied Science. Major: Educational Psychology. Minor: Psychology. Thesis: Expectations Concerning the College Experience as They Relate to the Academic Achievement and Persistence of Freshmen. Major Adviser: Prof. W. H. Edson.

Ronald John Elin, Minneapolis

B.A. *magna cum laude* '60, University of Minnesota. Major: Biochemistry. Minor: Pathology. Thesis: Biochemical and Pathological Studies in Magnesium Deficiency in the Rat. Major Adviser: Prof. W. D. Armstrong.

Howard Louis Empie, Jr., Johnstown, N.Y.

B.S.(Chem.E.) *magna cum laude* '64, Syracuse University; M.S.(Chem.E.) '65, Massachusetts Institute of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Non-Equilibrium Adsorption Models for Heterogeneous Catalysts. Major Adviser: Prof. N. R. Amundson.

Michael Allyn Ewert, Dedham, Mass.

B.A. '61, Stanford University; M.S. '65, University of Minnesota. Major: Wildlife. Minor: Botany. Thesis: Seasonal Movements of the Toads *Bufo Americanus* and *B. Cognatus* in Northwestern Minnesota. Major Adviser: Prof. J. R. Tester.

Richard John Forstrom, Minneapolis

B.S. with high distinction '63, M.S.E.E. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A New Measure of Erythrocyte Membrane Strength — The Jet Fragility Test. Major Adviser: Prof. P. L. Blackshear.

Carol Gustafson Golub, Minneapolis

B.S. with high distinction '62, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Influence of Various Demographic Variables in the Participation of Veterans Administration Day Treatment Center Patients in a Token Economy. Major Advisers: Profs. C. A. Parker and D. H. Blocher.

Herbert Paul Golub, Boston, Mass.

B.A. '62, University of Massachusetts; M.Ed. '63, C.A.G.S. '66, Boston University. Major: Educational Psychology. Minor: Psychology. Thesis: The Effects of a Token Economy on the Behavior of Patients in a Veterans Administration Day Treatment Center. Major Advisers: Profs. C. A. Parker and D. H. Blocher.

Rose Grunwald, Minneapolis

M.Ph. '47, University of Helsinki; M.L.S. '51, Carnegie Institute of Technology. Major: Latin. Minor: Greek. Thesis: Studies in the Literary Sources for the Reign of Emperor Gallienus, 253-268 A.D. Major Adviser: Prof. T. B. Jones.

Holavanahally Vasudevachar Gururaja, Holavanahally, India

B.S. '61, University of Mysore; B.E. with distinction '64, M.E. '66, Indian Institute of Science. Major: Electrical Engineering. Minor: Mathematics. Thesis: Optimal Control of Linear Systems with Random Parameter. Major Adviser: Prof S. J. Kahne.

Abdollah Hadian-Dehkordi, Shahr-kord, Iran

Lic.(Math.) '57, Lic.(Stats.) '60, University of Tehran. Major: Statistics. Minor: Mathematics. Thesis: Optimality Properties of Various Procedures for Ranking n Different Numbers Using Only Binary Comparisons. Major Adviser: Prof. Milton Sobel.

Gordon Ames Hale, Wayzata

B.A. with distinction '64, Stanford University. Major: Child Psychology. Minor: Psychology. Thesis: Reversal Shift Performance in Children as a Function of Age, Over-Training and Dimension Preference. Major Adviser: Prof. H. J. Pick, Jr.

Edward Claus Hartog, Hills

B.S. '56, M.A. '65, University of Minnesota. Major: Agricultural Education. Minor: Educational Psychology. Thesis: Development of a Method to Determine Educational Content of Farm Supply Store Management. Major Adviser: Prof. M. J. Peterson.

Douglas Procter Hatfield, Minneapolis

B.S. '51, M.A. '61, University of Minnesota. Major: Speech-Communication. Minor: Education. Thesis: A History of Amateur Theatre in St. Paul, Minneapolis and Their Suburbs, 1929-May, 1963. Major Adviser: Prof. K. L. Graham.

Andrew Edward Helmich, Minneapolis

B.A. '55, Moravian College; M.A. '63, University of Denver. Major: Education. Minor: Speech-Communication. Thesis: A Description and Appraisal of the CIC Traveling Scholar Program: 1963-1967. Major Adviser: Prof. R. E. Eckert.

James Hunter Herring, Kingsville,
Tex.

B.A. '41, Marshall College; M.A. '56, State University of Iowa. Major: Mass Communication. Minor: Sociology. Thesis: The Inter-City Daily in the United States and France — 1946-1969 — With Depth Studies of Two Representative Newspapers. Major Adviser: Prof. R. B. Nixon.

Marshall Clyde Hudson, Bradford, Pa.

B.S. '63, Drexel Institute of Technology; M.S. '66, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Mass Spectrometric Determination of the Mass Difference H_2D and the Stable Isotopic Masses and Mass Differences of Samarium, Europium, Gadolinium, Terbium, and Dysprosium. Major Adviser: Prof. W. H. Johnson.

Rufino Herrera Ibarra, Manila,
Philippines

B.S. *cum laude* '63, University of the Philippines. Major: Physics. Minor: Mathematics. Thesis: The Effect of Nuclear Shell-Model Continuum States on Form Factors for Particle-Transfer Reactions. Major Adviser: Prof. B. F. Bayman.

Akira Ichikawa, Seattle, Wash.

B.A. '60, University of Washington; M.A. '64, University of Minnesota. Major: Political Science. Minor: Mass Communication. Thesis: Some Political and Social Implications of Buddhism: Thought and Practice. Major Adviser: Prof. M. Q. Sibley.

Jerry Robert Isaacs, Stanley, Wis.

B.S. '52, Wisconsin State College, Eau Claire; M.A. '58, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: A Study of Men Preparing for Careers in Education. Major Adviser: Prof. N. C. Nickerson, Jr.

Bruce Carl Jacobsen, Bozeman, Mont.

B.S. '62, M.S. '66, Montana State College; B.F.T. '63, American Institute for Foreign Trade. Major: Theatre. Minor: Supporting Program. Thesis: A Historical Study of the Bozeman, Montana, Opera House. Major Adviser: Prof. A. H. Ballet.

Marvin Petersen Jessen, Des Moines,
Iowa

B.A. *cum laude* '49, M.A. '51, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: The Ecology and Taxonomy of the Caprellidae (order Amphipoda; suborder Caprellidae) of the Coos Bay, Oregon, Area. Major Adviser: Prof. A. C. Hodson.

Tobin Harry Jones, Rochester

B.A. '62, M.A. '65, University of Minnesota. Major: French. Minor: Spanish. Thesis: Narrative Point of View and Related Forms of Reader Involvement in the French Nouveau Roman. Major Adviser: Prof. P. W. Lock.

Martin A. Kammermeier, Cold Spring

B.S. '58, M.S. '63, St. Cloud State College. Major: Speech Science, Pathology and Audiology. Minor: Supporting Program. Thesis: A Comparison of Phonatory Phenomena Among Groups of Neurologically Impaired Speakers. Major Adviser: Prof. F. L. Darley.

Shing Peter Kau, Taiwan, China

B.S. '63, Taiwan Provincial Cheng Kung University; M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minors: Mathematics and Statistics. Thesis: Topics in Non-linear Estimation. Major Adviser: Prof. K. S. P. Kumar.

Howard Morgan Kittleson, Blooming
Prairie

B.S. with high distinction '65, M.A. '66, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Attitudes Toward Entrepreneurial Behavior and Education — Their Relationship to Instruction. Major Adviser: Prof. G. I. Swanson.

Carol Ann Klein, St. Paul

B.A. '54, Iowa State Teachers College; M.Ed. '63, College of St. Thomas. Major: Education. Minor: Biology. Thesis: Differences in Science Concepts Held by Children From Three Social-Economic Groups. Major Adviser: Prof. C. H. Boeck.

Edward Charles Knop, Streator, Ill.

B.A. '62, Wartburg College; M.A. '65, University of Arizona. Major: Sociology. Minor: Supporting Program. Thesis: Timbertown in Transition: Perspectives on Community Formation, Maintenance and Decline. Major Adviser: Prof. D. A. Martindale.

Vilis Kurmis, Minneapolis

Dipl. '49, Baltic University; M.S. '63, University of Minnesota. Major: Forestry. Minor: Soil Science. Thesis: Dynamics of Advance Reproduction in Upland Forest Communities in Itasca State Park, Minnesota. Major Adviser: Prof. H. L. Hansen.

JoAnne Kyhl, Cedar Falls, Iowa

B. of Music '53, University of Michigan; M. of Music, University of Texas. Major: Music. Minor: Art History. Thesis: Symphony No. 1 in G. Major Adviser: Prof. Paul Fetler.

Harvey James Lally, Innisfail, Australia
B.Ed. '66, University of Queensland; M.A. '67,
University of Minnesota. Major: Sociology.
Minors: Educational Psychology and Curricu-
lum and Instruction. Thesis: Competition and
Violence in the American Character. Major
Adviser: Prof. D. A. Martindale.

Barbara Ann Larson, La Grange, Ill.

B.A. '48, University of Wisconsin; M.A. '53,
Cornell University. Major: Speech-Communi-
cation. Minor: Supporting Program. Thesis: A
Rhetorical Study of the Preaching of the Rever-
end Samuel Davies in the Colony of Vir-
ginia from 1747-1759. Major Adviser: Prof.
E. G. Bormann.

Robert John Laur, Columbia, Mo.

B.B.A. '58, M.H.A. '60, University of Minne-
sota. Major: Hospital Administration. Minor:
Industrial Relations. Thesis: A Study of the
Extramural Sector of Governing Board Re-
sponsibility in Nonprofit General Hospitals:
Trustee Interest in Inter-organizational Re-
lations. Major Adviser: Prof. T. J. Litman.

Steven Edward Lindberg, Scandia

B.S. *cum laude* '64, Gustavus Adolphus Col-
lege. Major: Organic Chemistry. Minor: Sup-
porting Program. Thesis: The Reaction of In-
doles with Quinones. Major Adviser: Prof.
W. E. Noland.

Nanjappa Lingappa, Bangalore, India

B.S. with honors '56, M.S. '57, University of
Mysore. Major: Physics. Minor: Mathematics.
Thesis: Inelastic Scattering of 40 MeV Pro-
tons by NI^{68} and NI^{60} and Coupled Channel
Analysis. Major Adviser: Prof. G. W. Green-
lees.

Peter Burnam Manning, St. Paul

B.S. '57, University of Vermont and State
Agricultural College; M.S. '61, University of
Rhode Island. Major: Food Science and In-
dustries. Minor: Biochemistry. Thesis: An
Evaluation of Analytical Methods for Deter-
mining Whey Protein Denaturation in Heated
Skinmilk Systems. Major Adviser: Prof. S. T.
Coulter.

Sol Mastbaum, Mendota Heights

B.S. '51, M.A. '56, University of Minnesota.
Major: Education. Minor: Educational Psy-
chology. Thesis: A Study of the Relative Ef-
fectiveness of Electric Calculators or Compu-
tational Skills Kits in the Teaching of Mathe-
matics. Major Adviser: Prof. D. A. Johnson.

Robert Kingsley Maxwell, Winona

B.A. '60, M.S. '64, University of Minnesota.
Major: Soil Science. Minor: Supporting Pro-
gram. Thesis: The Development of a Minia-
ture Solarimeter and Its Utility in Testing
Light Models Applied to Soybeans. Major Ad-
viser: Prof. D. G. Baker.

Sophia Milner, Matanzas, Cuba

B.S. '63, Polytechnic Institute of Brooklyn.
Major: Chemical Engineering. Minor: Mathe-
matics. Thesis: Recombination of Hydrogen
and Oxygen in the Presence of Inert Gases
under the Influence of Gamma Radiation. Major
Adviser: Prof. H. S. Isbin.

Robert Timothy Moline, St. Peter

B.A. '55, Augustana College; M.A. '61, Uni-
versity of Illinois. Major: Geography. Minor:
Soil Science. Thesis: The Modification of the
Wet Prairie in Southern Minnesota. Major Ad-
viser: Prof. W. J. Barrett.

Wayne Virgil Moore, Wichita, Kan.

B.A. with honors '64, Friends University. Ma-
jor: Anatomy. Minor: Biochemistry. Thesis:
Analysis of Oxidative Enzymes and Polaro-
graphic Respiration Studies on Guinea Pig
Forebrain Synaptosomes. Major Adviser: Dr.
A. W. Lindall.

Harland Buell Moulton, McLean, Va.

B.A. '47, M.A. '49, University of Minnesota.
Major: History. Minor: Political Science. The-
sis: American Strategic Power: Two Decades
of Nuclear Strategy and Weapon Systems,
1945-1965. Major Adviser: Prof. H. C.
Deutsch.

Kanury Anjaneya Murty, Kavutaram,
Andhra, India

B.E. in Mech.E. '61, Andhra University; M.S.
in Mech.E. '64, University of Minnesota. Ma-
jor: Mechanical Engineering. Minor: Mathe-
matics. Thesis: An Evaluation of the Physico-
Chemical Factors Influencing the Burning Rate
of Cellulosic Fuels and a Comprehensive
Model for Solid Fuel Pyrolysis. Major Adviser:
Prof. P. L. Blackshear, Jr.

Robert Joseph Nadon, Denver, Colo.

B.A. '49, M.A. '52, B.S. '54, University of
Minnesota. Major: American Studies. Thesis:
Urban Values in Recent American Fiction.
Major Adviser: Prof. M. C. Turpie.

Roy Gerald Nix, Galeton, Colo.

B.S. '65, Colorado School of Mines. Major:
Chemical Engineering. Minor: Mathematics.
Thesis: Rate Dynamics in a Stirred Liquid
Electron Exchange System. Major Adviser:
Prof. A. J. Madden.

Eugene Edward Olson, Seattle, Wash.
B.S. '63, Harvey Mudd College. Major: Physical Chemistry. Minor: Electrical Engineering. Thesis: Radiation Induced Electrical Phenomena in Alkaline Earth Oxides. Major Adviser: Prof. J. E. Wertz.

**Maresh Chandra Pandey, Almora,
India**

B.S. '59, University of Jammu and Kashmir; M.S. '62, Ranchi University; M.S. '66, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Effect of Light on the Development of *Leptosphaerulina* Leaf Spot on Alfalfa. Major Adviser: Prof. M. F. Kernkamp.

**Harbhajan Singh Paul, Ganganagar,
India**

B. of Vet.Sc. and A.H. '59, University of Gauhati; M.S. '67, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Isozymes of Tissue and Plasma Alkaline Phosphatase of the Hen as Related to Dietary Calcium and Vitamin D. Major Adviser: Prof. P. E. Waibel.

Daniel Pearl, Duluth

B.A. '58, M.S. '63, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: User Information in Corporate Reports: An Examination of the Availability of User Information in Corporate Reports Prepared for the Primary and Secondary Markets. Major Adviser: Prof. J. C. Gray.

**Thomas Michael Pell, Jr., Holly Hill,
Fla.**

B.Ch.E. with high honors '63, M.S.E. '64, University of Florida. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Some Problems in the Analysis of Chemical Systems with Stochastic Features. Major Adviser: Prof. Rutherford Aris.

Eric William Petraske, Milford, N.H.

B.A. '64, Harvard College. Major: Physics. Minor: Mathematics. Thesis: Charge Exchange Scattering at Negative Pions on Protons at High Momentum Transfer. Major Adviser: Prof. H. W. Courant.

John Charles Pierce, Yelm, Wash.

B.A. with honors '65, University of Puget Sound; M.A. '67, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Ideology, Attitudes, and Voting Behavior of the American Electorate: 1956, 1960, 1964. Major Adviser: Prof. W. H. Flanigan.

Noel Potter, Jr., Rutland, Vt.

B.A. '61, Franklin and Marshall College; M.A. '63, Dartmouth College. Major: Geology. Minors: Geophysics and Botany. Thesis: Rock Glaciers and Mass-Wastage in the Galena Creek Area, Northern Absaroka Mountains, Wyoming. Major Adviser: Prof. H. E. Wright, Jr.

**James Woodson Ramsey, Minne-
apolis**

B.S. with high distinction '61, M.S.M.E. '65, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Interaction of a Heated Air Jet with a Deflecting Flow. Major Adviser: Prof. R. J. Goldstein.

Terry Glenn Rhoades, Corvallis, Ore.

B.S. '67, Oregon State University. Major: Physics. Minor: Mathematics. Thesis: Elastic Scattering of Negative Pions from Deuterons at 2.01, 3.77, and 5.53 GeV/c. Major Advisers: Profs. Ernest Coleman and Morton Hamermesh.

Tony Roffers, Minneapolis

B.A. '61, M.A. '64, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Conditioning a Style of Interaction in Counseling Groups and Its Effects on Behavior and Attitude Changes in College Students. Major Adviser: Prof. W. H. Edson.

Elwin Eugene Rogers, Minneapolis

B.S. with distinction '57, M.A. '59, University of Minnesota. Major: German. Minor: Germanic Philology. Thesis: Eucharistic Thought and Motif in the Works of Novalis. Major Adviser: Prof. F. H. Wood.

**William Edwin Rogers, Williamsport,
Pa.**

B.S. '58, Dickinson College; M.S. '61, Pennsylvania State University. Major: Zoology. Minor: Entomology. Thesis: Morphogenesis and Relationships of Some Trypanosomatid Parasites of Muscoid Flies (*Diptera*). Major Adviser: Prof. F. G. Wallace.

**Gerald Charles St. Denis, Fall River,
Mass.**

B.S. '50, College of the Holy Cross; M.S.W. '53, Boston College School of Social Work. Major: Social Work. Minor: Public Health. Thesis: Interracial Adoptions in Minnesota: Self-Concept and Child-Rearing Attitudes of Caucasian Parents Who Have Adopted Negro Children. Major Adviser: Prof. E. W. Francel.

John William Schmidt, Kenosha, Wis.
B.A. '56, Illinois College; M.A. '61, Bradley University. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Gulf of Tonkin Debates, 1964 and 1967: A Study in Argument. Major Adviser: Prof. R. L. Scott.

Esther Millon Seeman, Nashville, Tenn.

B.A. '43, Goucher College; M.A. '46, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Administration of the Minorities Treaties by the League of Nations. Major Adviser: Prof. R. E. Riggs.

Terry Toshio Sekioka, Ewa, Hawaii

B.S. '63, University of Hawaii; M.S. '67, University of Minnesota. Major: Horticulture. Minor: Genetics. Thesis: A Genetic and Selection Study of *Solanum Tuberosum* L. Involving Seedling and Clonal Populations of a 5 x 5 Design II Crossing Pattern. Major Adviser: Prof. F. I. Lauer.

Roy Woo Shin, Seoul, Korea

B.A. '58, Macalester College. Major: Political Science. Minor: History. Thesis: The Politics of Foreign Aid: A Study of the Impact of United States Aid in Korea from 1945 to 1966. Major Adviser: Prof. G. A. Warp.

Dennis Edwin Showalter, Delano

B.A. *egregia cum laude* '63, St. John's University; M.A. '65, University of Minnesota. Major: History. Minor: Political Science. Thesis: Railroads and Rifles: The Influence of Technological Development on German Military Thought and Practice, 1815-1966. Major Adviser: Prof. O. P. Pflanze.

William Curtis Stephenson, St. Paul

B.A. '61, Pomona College; M.A. '63, University of California, Berkeley. Major: English. Minor: Supporting Program. Thesis: The Meditative Poetry of Wordsworth and Wallace Stevens. Major Adviser: Prof. J. L. Scoggins.

Lee Wayne Stokes, Boise, Idaho

B.S. '61, University of Idaho; M.P.H. '66, University of Minnesota. Major: Environmental Health. Minor: Entomology. Thesis: The Productivity of Lake Superior Periphyton as Reflected by Pigment Analysis and Respirometry. Major Adviser: Prof. T. A. Olson.

Thomas Eugene Straw, Roseville

B.S. with high distinction '64, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Purification of Uridine Diphosphate Glucose Dehydrogenase of Beef Liver. Major Adviser: Prof. Samuel Kirkwood.

Wayland Roger Swain, Boone, Iowa

B.A. '60, Ottawa University, Kansas; M.S. '65, University of Minnesota. Major: Environmental Health. Minor: Entomology. Thesis: The Ecology of the Second Trophic Level in Lakes Superior, Michigan and Huron. Major Adviser: Prof. T. A. Olson.

Johannes Tall, St. Paul

'53, New South Wales Conservatorium of Music; M.A. '61, University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: Concerto for Violin and Orchestra. Major Adviser: Prof. Paul Fetler.

Theofanis George Theofanous, Athens, Greece

Dipl. in Ch.E. '65, National University of Technology, Athens. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Dynamics of Spherical Liquid-Vapor Phase Change in Constant and Time-Dependent Pressure Fields. Major Adviser: Prof. H. S. Isbin.

George William Tindall, Vernon Center, N.Y.

B.S. with distinction '65, Clarkson College of Technology, Athens. Major: Analytical Chemistry. Minor: Supporting Program. Thesis: Application of the Rotating Ring-Disk Electrode to the Study of the Underpotential Deposition and Stripping of Copper and Silver. Major Adviser: Prof. Stanley Bruckenstein.

Werner Dietrich Tismer, White Bear Lake

Free University of Berlin; M.A. '54, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: The Relationship Between Organizational Structure and School Adjustment of Sixth Grade Pupils. Major Adviser: Prof. C. P. Hooker.

Anton Hugh Turritin, Minneapolis

B.A. *cum laude* '59, M.A. '60, University of Minnesota. Major: Sociology. Minor: History. Thesis: Alienation and Juvenile Delinquency: An Exploratory Study of Some Recent Sub-cultural Theories of Delinquency. Major Adviser: Prof. E. D. Monachesi.

Harry Nicholas Vakos, Minneapolis

B.S. '50, M.A. '53, University of Wisconsin. Major: Education. Minor: Supporting Program. Thesis: Effects of Part Time Grouping on Achievement in Social Studies. Major Adviser: Prof. C. P. Hooker.

Edgard Souza Aguiar Vieira, Rio de Janeiro, Brazil

B.S. '61, M.S. '64, University of Brazil. Major: Chemical Engineering. Minor: Mathematics. Thesis: *Scalar Transport Across Wavy Liquid Layers*. Major Adviser: Prof. L. E. Scriven.

Harriet Erika Elizabeth Viksna, Riga, Latvia

B.A. *summa cum laude* '61, Augustana College. Major: German. Minor: Germanic Philology. Thesis: *Ueber Die Isolierung Des Menschen Im Werk Wilhelm Raabes*. Major Adviser: Prof. E. F. Menze.

Laurence Weinberg, Hillside, N.J.

B.S. *cum laude* '65, Rensselaer Polytechnic Institute. Major: Mathematics. Minor: Supporting Program. Thesis: *Asymptotic Distribution of Eigenvalues for the Boundary Value Problem $y''(x) - \lambda^2 p(x)y(x) = 0, y \in L_2(-\infty, +\infty)$* . Major Adviser: Prof. W. A. Harris, Jr.

William Henry Weinheimer, Syracuse, N.Y.

B.S. '62, Cornell University; M.S.(Ag.) '64, University of Idaho. Major: Horticulture. Minor: Genetics. Thesis: *Developmental Morphology of Three Distinct Plant Habit Phenotypes of Cucurbita maxima Duch.* Major Adviser: Prof. D. W. Davis.

James Maurice Wheeler, Lexington, Ky.

B.S.Chem.E. with high distinction '65, University of Kentucky. Major: Chemical Engineering. Minor: Mathematics. Thesis: *Questing Control of a Continuous Fermentation*. Major Adviser: Prof. Rutherford Aris.

Doctor of Philosophy in Medicine

Stuart Tsau-Shiong Chen, Tainan, Formosa

B.M. '59, National Taiwan University. Major: Medicine (Internal). Minor: Biochemistry. Thesis: *Pulmonary Excretion of the Volatile Fatty Acids and Mercaptans in Liver Failure*. Major Adviser: Dr. Leslie Zieve.

Douglas Richie White, Minneapolis

B.A. *magna cum laude* '64, M.A. '67, University of Minnesota. Major: Anthropology. Minor: Supporting Program. Thesis: *Decision Making in Equestrian Indian Societies: An Essay in Comparative Pragmatics*. Major Adviser: Prof. E. A. Hoebel.

Frank Samuel Williston, Fayetteville, N.C.

B.A. '55, Clark University; M.A. '58, Syracuse University. Major: Education. Minor: Philosophy. Thesis: *A Comparative Analysis of John Dewey's Theory of Valuation*. Major Adviser: Prof. R. H. Beck.

Thomas John Wright, Mankato

B.A. with honors '61, Mankato State College; M.S. '66, University of Minnesota. Major: Environmental Health. Minor: Biometry. Thesis: *Influences of Meteorology and Other Factors on Viable Microorganisms in an Urban Atmosphere*. Major Adviser: Prof. H. J. Paulus.

Mary Louise Young, Duluth

B.S. with distinction '55, M.A. '61, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: *The Relationship Between Personal-Social Adjustment, Physical Fitness and Attitude Toward Physical Education Among High School Girls Within Varying Socioeconomic Levels*. Major Adviser: Prof. E. M. Jaeger.

Jafer Sadik Kuaity, Baghdad, Iraq

M.B.Ch.B. '60, University of Baghdad; M.S. in Med.(Internal) '67, University of Minnesota. Major: Medicine (Internal). Minor: Physiology. Thesis: *A Comparative Study of the Effect of Acute Cold Exposure on Fat Mobilization in Dogs and Birds*. Major Adviser: Dr. A. L. Schultz.

**Summary of Degrees Conferred by the University
During the Academic Year, 1968-1969**

Conferred July, August, and December, 1968; and March, 1969	4,643
Conferred June, 1969 (subject to completion of requirements)	5,729
Total degrees conferred 1968-1969	<u>10,372*</u>

* Includes 1,045 conferred at Duluth, 185 at Morris, and 90 at Crookston.

Academic Costume

Academic costume — cap, gown, and sometimes hood — may be worn by anyone with a college degree, or by a candidate whose degree is soon to be awarded. Characteristics of costumes show their wearers' highest degrees and, often, the fields of major interest and the institutions by which the degrees are granted.

All bachelor's and master's gowns are black and untrimmed. The bachelor's gown has a long pointed sleeve; the master's a closed sleeve with an arm slit. Doctor's gowns in the United States are usually black, with velvet front facings and sleeve crossbars (some universities, especially those abroad, prescribe colorful crimson, bright red, or other colors, set off by black or colored facings).

At commencements degree candidates wear the gowns for the degrees they are about to receive. Hoods are worn only by those who already possess degrees. Anyone who has a University of Minnesota degree may wear the Minnesota hood — black with a maroon chevron on gold. The length and shape of a hood identifies the most advanced degree its wearer has earned; and the hood's velvet edging shows the degree's field: dark blue for Philosophy, light blue for Education, green for Medicine, lilac for Dentistry, orange for Engineering, russet for Forestry, drab for Business, olive green for Pharmacy, purple for Law, gray for Veterinary Medicine, golden yellow for Science, white for Arts and Letters.

Caps — usually tasseled mortarboards — show by tassel color the nature of degrees awarded at University of Minnesota commencements. Doctors' tassels may be black or gold; masters' are black. Bachelor's degree candidates at Minnesota, however, indicate their fields of study by their tassel colors (they are given here in the order they appear in the procession):

(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
College of Biological Sciences	golden yellow
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

Gold shoulder furrageres are worn by candidates who are honor students.

After receiving his degree, a holder may wear the academic costume on any appropriate occasion. But he always wears the black tassel, and omits the shoulder insignia. Appropriate academic costumes can be obtained anywhere that academic ceremonies are conducted.



UNIVERSITY OF MINNESOTA

July Commencement, 1969

FRIDAY AFTERNOON, JULY 18, 4:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

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

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable George W. Rauenhorst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Mr. James F. Hogg, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

THE BOARD OF REGENTS requests that the following Northrop Memorial Auditorium procedures or regulations be adhered to: (1) Smoking is confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. (2) The use of cameras or tape recorders by members of the audience is prohibited. (3) The sale of tickets by anyone other than authorized Box Office personnel is prohibited in the lobby or corridors of Northrop Memorial Auditorium.

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and eighteenth 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 preparation is offered. Since its founding, the University has awarded more than 214,280 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 45,000 students annually on its Twin Cities, Duluth, Morris, Crookston, 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 six 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 Horticultural Research Center and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless experiments of vital importance to the future health and welfare of us all. Research 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 Minnesota 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 biomedical 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.

As it meets the needs of present students, the University must also make plans for those of the future. The 47,534 students who enrolled at the University at the beginning of the 1968-1969 academic year represented nearly one half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1967 LEGISLATURE granted the University \$110,893,275 for general operations and maintenance during the 1967-1969 biennium. In addition, the University received \$9,401,100 for University Hospitals; \$9,883,460 for special appropriations, including special extension and research activities; \$22,739,346 for new buildings, land, and the rehabilitation of existing buildings; and \$955,000 for the Crookston Technical College.

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 1967-1968 showed that the University's current income amounted to \$196,515,675.43. Of the total received, \$17,146,177.31 came from student tuition and fees; \$30,280,089.30 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts, and sales of bulletins and agricultural products; \$1,669,798.78 from intercollegiate athletics; \$27,376,182.44 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 \$9,847,348.82 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also, \$47,079,539.59 came from the federal government for instruction, research, and agricultural extension. The State provided \$63,116,539.19 or 32.1 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$21,486,114.

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, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations.

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.

The following is a complete list of those students who have graduated with honors from the College of Liberal Arts:

SUMMA CUM LAUDE

Abild, Susan F., German
Bajpai, Catalina, Spanish
Breitman, Richard, Speech
Carlson, Jeffrey J., Sociology
Dlugosch, Thomas, English
Garon, Philip S., Political Science
Ceyer, Anna, Psychology
Gilbertson, Patricia, Social Welfare
Godbout, Lucille, Economics
Hanson, Karen, Philosophy
Kassin, Michael B., Theatre Arts
Klein, Susan D., Sociology
Lichter, Samuel Robert, Interdepartmental
Messer, Vernelle, English
Pew, Becky, Spanish
Rigelman, Bruce, Political Science, Philosophy

Rigelman, Diana, Political Science
Schanfield, Paul, Pre-Medicine
Sha, Ronald, Pre-Medicine
Strickler, John, Geography
Vinokour, Bruce, Art History

MAGNA CUM LAUDE

Anderson, Randall, History
Corrick, Robert, Political Science
Faschingbauer, Thomas, Psychology
Geber, Patricia, French
Haar, Roger D., International Relations

CUM LAUDE

Anderson, Randall A., English
Brady, Thomas Quinn, Journalism
Kodluboy, Donald, Psychology
Potter, Laura, English

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Minneapolis Campus of the University this afternoon from 3:15 to 3:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Charles W. Forsberg, M.A. 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 3:30 to 4:00 p.m., Professor Heinrich R. Fleischer, University Organist, will play:

Solemn MarchGluck

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 4:00 p.m., Professor Howard F. Nelson, Industrial Education, Faculty Marshal, will carry the Mace into the auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Nelson, as Mace-Bearer, will present the Mace at the center of the stage. When all those marching have taken their seats, he will put the Mace into its cradle to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

Festival MarchGluck

ON THE STAGE: The curtain will be opened when the Mace-Bearer enters. Seated in the first row from left to right are Marshal Nelson; Professor Clarke A. Chambers, Ph.D., Director of the Social Welfare History Archives; Recorder W. Donald Beatty, Ph.D., Admissions and Records; the Reverend George G. Garrelts, Director of the Newman Center; Professor G. Gordon Kingsley, Ed.D., General College; Colonel William D. Beard, U.S.A., Professor of Military Science; Assistant Dean F. T. Benson, Ph.D., University College; The Honorable George W. Rauenhorst, Regent of the University of Minnesota; Professor John A. Goodding, Ph.D., College of Agriculture, Forestry, and Home Economics in the Institute of Agriculture; Dean Paul V. Grambsch, Ph.D., School of Business Administration; The Honorable Marjorie J. Howard, Regent of the University of Minnesota; Assistant Vice President James F. Hogg, S.J.D.; The Honorable Charles E. Wyzanski, Jr., LL.D., United States District Judge, Commencement speaker; President Malcolm Moos, Ph.D., University of Minnesota; Vice President Stanley J. Wenberg, LL.D., Educational Relationships and Development; The Honorable John A. Yngve, Regent of the University of Minnesota; Associate Dean Francis M. Boddy, Ph.D., Graduate School; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; The Honorable Neil C. Sherburne, Regent of the University of Minnesota; Assistant Dean Paul Cartwright, M.S., Institute of Technology; Mr. James Watson, President of the University of Minnesota Alumni Association;

Dean Robert J. Keller, Ph.D., College of Education; Associate Dean H. Mead Cavert, Ph.D., College of Medical Sciences; Dean Richard S. Caldecott, Ph.D., College of Biological Sciences; Captain Walter T. Broughton, U.S.N., Professor of Naval Science; Colonel Frederick J. Adelman, U.S.A.F., Professor of Aerospace Studies; Professor Arnold F. Caswell, Ph.D., College of Liberal Arts; Associate Professor James H. Werntz, Ph.D., Director of the Center for Curriculum Studies, Marshal; and Professor Robert M. Jordan, Ph.D., Institute of Agriculture, Marshal.

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

THE NATIONAL ANTHEM: The entire audience and Professor Caswell.

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

INVOCATION: Father Garrelts.

SPEAKING FOR THE UNIVERSITY: President Moos.

COMMENCEMENT ADDRESS: Judge Wyzanski.

CONFERRING OF ROTC CERTIFICATES: President Moos will introduce Colonel Beard and Captain Broughton, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by Assistant Vice President Hogg.

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

PRESENTATION OF DIPLOMAS: Assistant Vice President Hogg and Vice President Wenberg will introduce the college deans or their representatives, who will present to President Moos the candidates for diplomas. (Candidates from the college will pass across the stage to receive their diplomas following their introductions.) Vice President Hogg will present Professor Kingsley for the General College, Associate Dean Turnbull for the College of Liberal Arts, Assistant Dean Benson for the University College, Dean Caldecott for the College of Biological Sciences, and Assistant Dean Cartwright for the Institute of Technology. Vice President Wenberg will present Professor Goodding for the Institute of Agriculture, Dean Keller for the College of Education, Dean

Grambsch for the School of Business Administration, Associate Dean Cavert for the College of Medical Sciences, and Associate Dean Boddy for the Graduate School.

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Mr. Watson.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: President Moos will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his academic hood, he will be presented individually by Associate Dean Boddy.

HAIL! MINNESOTA: The University's Alma Mater song, sung by the audience and Professor Caswell.

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

RECESSIONAL: Professor Fleischer will play:

Fantasie in G MinorPachelbel

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

(Immediately following these exercises, all members of the audience are invited to attend the President's Reception, which is described on the back cover of this program.)

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 to those listed below and to such others as may meet the requirements for the Reserve Officers in the Armed Services.

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Corps of Engineers

Kim S. Rood, Forest Lake

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Gary S. Nelson, Anoka

Karl M. Petersen, Minneapolis

Ensign, USNR

James R. Spear, Dunnell

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

James Scott Abernethy, Edina
Marian Thorin Allen, Minneapolis
Gloria Rae Anthony, Minneapolis
John Peter Boosalis, Minneapolis
Gerald Lawrence Brooks, Minneapolis
Jerry Dean, Sioux Falls, S.D.
J. David Fibison, St. Paul
Clifford Fredrick Harris, Marble Falls,
Tex.
Hilary Parker Herbig, Waseca
Frederick Douglas Herman, St. Paul
Veryl Holmes, Minneapolis

Daniel Dean Huebener, St. Paul
Sara Renee Kauffman, St. Louis Park
Lee L. Kraemer, Minneapolis
Kathleen Ruth Lawman, Minneapolis
Daniel Thomas Obrzut, Minneapolis
George Arnold Olson, Jr., Mora
Dale Eugene Pflapsen, Jr., Minnetonka
John Aldrich Reed, St. Louis Park
Margaret Theresa Skoy, Crystal
Alvin Herman Smith, Jacksonville,
Fla.
Joanne Kay Tallakson, Minneapolis

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Paulette Gail Bouley, Golden Valley
Jason Stephen Cooper, St. Paul
Matthew Anthony Eich, Minne-
apolis

Gae Ann Eue, Minnetonka
James Eugene Johnson, Isanti
Caroline Mavis McCaerney, Minne-
apolis

Bachelor of Arts

*Honors citations are provisional and will not become final until
all requirements are met for the level indicated*

Susan Faye Abild, Vermillion, S.D.
Joel Charles Alsaker, Minnetonka
Randall Alfred Anderson, Minneapolis
Steve Baldwin Anderson, Richfield
Valda Krievins Anderson, St. Paul

William M. Appleton, St. Paul
John Dennis Bailey, Minneapolis
Catalina Jos Bajpai, Buenos Aires,
Argentina
Michael Geoffrey Baker, Dawson

Kathleen Elaine Bakke, Minneapolis
 Bruce Joseph Balzart, White Bear
 Lake
 Kathleen Ann Balzart, Forest Lake
 Dean Anthony Barnell, Minneapolis
 James Ellis Belka, Minneapolis
 William Henry Bierbaum, Hopkins
 John Stephen Bjorum, Two Harbors
 Richard Allen Bokovoy, A.L.A.,
 Minneapolis
 Stanley Gene Bonnema, Minneapolis
 Verna Kay Bormann, Parkston, S.D.
 Diane Marie Bortolussi, Port Arthur,
 Ontario, Canada
 Marcia Ellen Bottoms, Minneapolis
 Michael George Bouley, Minneapolis
 Jeanne Ellyn Bous, Long Prairie
 Charles Edward Boyer III, St. Paul
 Thomas Quinn Brady, St. Paul, CUM
 LAUDE, Journalism
 Richard Lee Breitman, Eau Claire,
 Wis.
 Dean Jeffrey Bronson, Minneapolis
 Jo Anne Bucholz, Minneapolis
 Randall Earl Bundy, Minneapolis
 Jean Marie Burton, Minneapolis
 James Allan Bush, Eveleth
 Dennis Leroy Carlson, Aitkin
 Jeffery John Carlson, Minneapolis
 Gladys Norman Carmichael, Minne-
 apolis
 Ronald George Chamberlain, Anoka
 Ginny Gae Chaseley, Minneapolis
 Ronald Jerome Chewing, Blue Earth
 Howard Conrad Chilberg, Jr., Bruns-
 wick, Maine
 Robert Arthur Close, St. Paul
 Larry Michael Collins, Waseca, MAGNA
 CUM LAUDE, Journalism
 Claudia Lee Browning Colvin,
 Atlanta, Ga.
 Barbara Scanlan Corso, Oak Park, Ill.
 Gregory Lee Cottle, Minneapolis
 Dianne Marie Dahl, Minneapolis
 Arlo Marie Darvial, Amery, Wis.
 Steven Willard DeVore, Minneapolis
 Thomas Michael Dlugosch, St. Cloud
 Elizabeth M. Doherty, Danvers
 Steven Richard Dornfeld, St. Paul
 Barbara Elaine Eckstrom, Minneapolis
 Lois Marie Ericson, Minneapolis
 Glen Robert Evans, Minneapolis
 Edward Christian Farni II, Golden
 Valley
 Thomas Richard Faschingbauer,
 St. Paul, CUM LAUDE, Psychology
 Charles John Fenner, West St. Paul
 William Lewis Fitch, Coon Rapids
 John David Force, LaCrescenta, Calif.
 Janelle Diane Franz, Mountain Lake
 Mary Ann Frederick, St. Charles
 Peter Cory French, Minneapolis
 John Paul Fretheim, Bloomington
 Victoria Friendly, Washington, D.C.
 Kay Frances Fuecker, Willmar
 Eugene Howard Fuerstenau, A.A.,
 Bloomington
 Joan Mary Muellner Gabel, St. Paul
 Philip Stephen Garon, Duluth, SUMMA
 CUM LAUDE, Political Science
 Patricia Ann Geber, St. Paul
 Anna Geyer, Minneapolis
 William Robert Glas, Hutchinson
 Lucille Marie Godbout, St. Paul
 Patricia Elaine Green, Minneapolis
 Patrick Mark Grenville, Los Angeles,
 Calif.
 Janet Elizabeth Gridley, Minneapolis
 Theodore George Gullixson, A.A.,
 Princeton
 David Edward Gumlia, Crosby
 Roger Dennis Haar, Minneapolis
 Dennis Ray Hamilton, Excelsior
 Joel Bruce Handler, Minneapolis
 Jon Arlin Hanson, Richfield
 Karen Hanson, St. Paul, SUMMA CUM
 LAUDE, Philosophy
 Rolfe Edwin Hauser, Minneapolis
 John William Hayes, Jr., St. Paul
 Lois Ann Heckmann, Glencoe
 Charles Judson Hess, Jr., St. Paul
 Neil L. Hiedeman, Breckenridge
 Bruce Charles Hirte, Minneapolis
 James Marvin Holmen, Morris
 Judy Mae Holter, Hopkins
 Sandra Joy Hork, Minneapolis
 Ellen Hoyt, St. Paul
 Gary Raymond Hunziker, Chaska
 Thomas John Hurrell, Rochester
 Thomas John Gosta Jacobson, St. Paul
 Rita Marie Jandrich, St. Paul
 Susan Charlotte Jesky, West Concord

Chris Alfred Johnson, Silver Bay
 Gary Roland Johnson, Richfield
 Susan Beth Johnson, Richfield
 Thomas Allen Johnson, Minneapolis
 Gerald David Jutila, Cloquet
 Francis Edward Kapsch, Jr., Minneapolis
 Michael Barry Kassin, Skokie, Ill.
 Steven Edward Keator, Minneapolis
 Shirley T. Keran, St. Paul
 Sharon Larson Kieffer, Minneapolis
 Susan Jean Klein, Minneapolis
 Terrence Walter Knapton, A.A., St. Paul
 Donald W. Kodluboy, St. Paul
 James Vernon Kosmalski, St. Paul
 Steven Frank Kriz, Hopkins
 Carol Ann Krovoza, Minneapolis
 Dennis James Kuchera, South St. Paul
 Lydia Kurylko, St. Paul
 Ellen Zana Kutzik, Montevideo
 Mary Joan Elizabeth Kuisisto, Duluth
 John Robert Lachenmayer, St. Paul
 Meredith Ann Lagaard, Minneapolis
 Anthony Richard Lancette, St. Paul
 Raymond Russell Larson, Minneapolis
 Stephen P. Larson, Minneapolis
 Maurice Udell Lazarus, Minneapolis
 Ramona Marie Lee, Minneapolis
 William James Lentz, Faribault
 Paul Rhead Lerum, Bloomington
 Samuel Robert Lichter, St. Paul
 Beverly Jane Lindell, Minneapolis
 Catherine Elizabeth Longen, A.A., Minneapolis
 Susan Kay Lundahl, Minneapolis
 Marilyn Faye Lustig, Owatonna
 Jerome Kent Malerich, Hopkins
 James Jay Martin, Minneapolis
 Patrick Wayne Marx, Minneapolis
 Barry Charles Mattson, Minneapolis
 Robert Thomas McAvey, St. Paul
 Michael Francis McCalley, Minneapolis
 Elizabeth Ann McCarvill, A.L.A., Richfield
 Michael Dean McCollum, A.A., Fridley
 Kathryn Gwen McCoy, St. Paul
 Gloria Marie McGee, St. Paul
 Joan Ellen McGee, Protection, Kan.
 Mary Kathleen McMahan, Minneapolis
 Donald Bruce McRaven, Jr., A.A., Minneapolis
 Kathleen Jeanne Mealey, North St. Paul
 Ellen Lee Raiche Mechler, Anoka
 Charles Joseph Meola, Minneapolis
 Vincent James Meola, Jr., Edina
 Gary Steven Mertz, A.A., Rochester
 Vernelle Evelyn Messer, St. Paul
 Charles Thomas Moore, Edina
 Karen Marie Morgando, Gilbert
 Lorraine Berland Moss, Minneapolis
 David Anthony Munz, Mound
 Byron Eugene Nelson, Chisago City
 Jay Carlton Newby, Cloquet
 Mary Ellen Novotny, New Prague
 Jerry Patrick O'Dair, Robbinsdale
 Robert Roy Oian, Minneapolis
 Gregory Thomas Orth, St. Paul
 Coralee Bunker Ostlund, Anoka
 Glenn Carl Otte, A.A., Lexington
 Ronald Clifford Page, Minneapolis
 Layce Wayneen Parkinson, South St. Paul
 Gretchen Ann Parsons, Delano
 Gordon Russell Paulson, South St. Paul
 Marc Acker Pelletier, St. Paul
 Charles Thomas Percival, St. Louis Park
 Karl M. Petersen, Minneapolis
 Norman Gene Peterson, A.A., Viborg, S.D.
 Virginia Lee Peterson, Minneapolis
 Becky Ann Pew, St. Paul
 Burnham John Philbrook, Roseville
 David George Pitzel, St. Paul
 Jon Henry Poehler, Hastings
 Laura Louise Potter, Minneapolis
 Joseph Patrick Praml, Minneapolis
 Joel Keith Pribnow, Richfield
 Joanne Gertrude Rabeneck, St. Paul
 Nancy Jean Rea, Edina
 Thomas James Rehtiene, St. Paul
 Betty Jeanne Reuss, Minneapolis
 John Michael Rick, A.A., St. Louis Park
 Donald Richard Ricker, Nashwauk

Bruce Duane Rigelman, Minneapolis,
 SUMMA CUM LAUDE, *Political
 Science and Philosophy*
 Diana Joy Rigelman, Sandstone,
 SUMMA CUM LAUDE, *Political Science*
 Phillip Jonathan Riveness, Karlstad
 James Carl Robertson, A.L.A.,
 Williams
 Donald Frank Romberg, Lake Benton
 Judith Patricia Sampson, Edina
 Renae Yvonne Sands, A.A., Willmar
 Winston Edward Satran, Bloomington
 Paul Morris Schanfield, St. Louis Park
 Roger Putnam Schmidt, St. Cloud
 Gordon David Schmuck, Hugo
 A. Teresa Schultz, Minneapolis
 Dorothea Juliana Schwab, Minne-
 apolis
 Barrett Kinne Seeley, Jr., Minneapolis
 Naomi June Senum, Bemidji
 Laurel Jeanne Shogren, Shafer
 Mary Carol Sievers, Lakeville
 Mary Alice Simonds, Minneapolis
 Dennis Lee Smith, St. Paul
 Gregory Solum, Minneapolis
 John Phillip Spears, Robbinsdale
 Robert Joseph Stahl, St. Paul
 John David Steen, St. Paul

Robert Noonan Stewart, Ashland,
 Wis.
 Reynold Phalen Stimart, Chisago City
 Stephen Anthony Stoll, Minneapolis
 Sharon June Strandell, Minneapolis
 Michael Francis Strapp, St. Paul
 John Charles Strickler, Excelsior
 John Charles Super, Fridley
 Charles Richard Torske, Pine River
 Antoinette Marie Trend, Detroit,
 Mich.
 David Sterling VanTassel, Crystal
 Suzanne Seymour Versen, A.A., Edina
 Bruce Arnold Vinokour, St. Louis
 Park
 Margaret Ann Walbran, Owatonna
 Judy Esther Walker, Worthington
 Ronald Sherman Wallace, Edina
 Karen Diane Way, Minneapolis
 Catherine Ann Webber, Minneapolis
 Martha Jean Weinke, Minneapolis
 Joan Ellen Welch, Minneapolis
 Neil Herbert Westby, Blue Earth
 Timothy Lyle Whaley, South St. Paul
 RoseMary Willett, St. Cloud
 Emily Katherine Wilson, Jackson
 Center, Ohio
 John Baldridge Wolcott, Minneapolis
 Edward Frank Zantek, Minneapolis

Bachelor of Fine Arts

Jane Frederick Dunlap, Rochester

Timothy Walther Huchthausen, Zero

UNIVERSITY COLLEGE

Bachelor of Arts

Marilyn Segal Chiat, G.D.H., Minne-
 apolis, CUM LAUDE
 Daphne Elizabeth Mantis, St. Paul

Nancy Jolene Schull, Watertown,
 S.D., CUM LAUDE
 Frances Henrietta Lohn Turnball,
 Bloomington

Bachelor of Science

Paul Edward Schmidt, Marshall

INSTITUTE OF TECHNOLOGY

Bachelor of Aeronautical Engineering

Bradford John Peterson, Minnetonka
Thomas James Retka, South St. Paul

Stephen Kin Seung, Kowloon, Hong
Kong, WITH DISTINCTION

Bachelor of Chemical Engineering

Milton Lee Buschbom, Minneapolis
Michael Clyde Manion, Hopkins,
WITH DISTINCTION

David Fruen Nissen, Lane, S.D.

Bachelor of Chemistry

John Victor Anderson, Litchfield

Bachelor of Civil Engineering

Wallace Melanchthon Borene,
Montevideo
Gerald William Kieser, Winsted
Allan Wayne Orsen, Minneota

Jorge Ramon Pinto Araujo, Colombia,
South America
Kim Stephen Rood, Forest Lake
Jerry D. Smrcka, Richfield

Bachelor of Electrical Engineering

Robert Arnold Cohen, Minneapolis
Christian Henry Krippner, Jr.,
Owatonna
Thomas Franklin Lahre, Minnetonka,
WITH DISTINCTION
Richard Eldreid Nelson, Austin

Robert Dale Perkins, Duluth
Robert William Riewe, Lake Crystal
Paul Joseph Schaffer, Little Falls
James Arthur Skrien, New Brighton
Edward William Soronen, Embarrass
Richard J. Wolszon, Jr., St. Paul

Bachelor of Geo-Engineering

John Jacob Hanson III, Columbia Heights

Bachelor of Mathematics

Stephen Larry Creamer, Minneapolis

JoAnn Alice Werner, Minneapolis

Bachelor of Mechanical Engineering

Ronald Dean Buckmeier, Fairmont
Myron D. Hanson, Minneapolis

Robert Howe Kolar, Birmingham,
Ala., WITH DISTINCTION

David William Kranz, Robbinsdale
Patrick H. Lamey, Jr., St. Paul
Patrick Clyde Lee, Faribault
Michael Anthony Simetkosky,
Virginia, WITH DISTINCTION

Donald Maurice Soenen, Marshall
Gary Russell Woodford, Redwood
Falls

Bachelor of Physics

Christopher Anthony Kaminski, St. Louis Park, WITH DISTINCTION

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

Bachelor of Science

Michael Lee Anderson, Canby,
Forestry
Catherine Hartle Berns, Minneapolis,
Home Economics, WITH DISTINCTION
Jean Helen Brudevold, St. Louis Park,
Home Economics
Susanna Christine Caviezel, St. Paul,
Home Economics
Elizabeth Joan Dragon, Hopkins,
Home Economics
Neil Irvin Geving, Duluth, Forestry
Jerome Henry Goenner, Clear Lake,
Agriculture
Cheryle Ann Koeckeritz, Nassau,
Home Economics, WITH DISTINCTION

Sandra Joyce Manthei, Danube, Home
Economics
Rosalyn Jo Nelson, Delano
Juliann Dietz Ogilvie, Sleepy Eye,
Home Economics
Paula Bernice Slater, St. Paul,
Home Economics
Gwenneth Eileen Western, Redwood
Falls, Home Economics
Mary Jean Widtfeldt, Minneapolis,
Home Economics
Judith Marie Wirz, Anoka, Home
Economics
Richard Herbert Witt, Minnesota
City, Forestry

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

Bachelor of Science

Shirley Maude Engelstad, Kasson,
Home Economics Education
Peter M. Franzky, West Germany,
Agricultural Education
Cynthia Stephanie Huse, Trimont,
Home Economics Education

Dennis Lloyd Jackson, Pine Island,
Agricultural Education
Jean ReNaye Jackson, Blackduck,
Home Economics Education

Linda Cheryl Lee, St. Paul, Home
Economics Education, WITH
DISTINCTION

Sandra Mary Wadsworth, Spicer,
Home Economics Education
Jane Kathleen Williams, Hamel,
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

Gerald A. Balgaard, Ashby

COLLEGE OF EDUCATION

Bachelor of Science

Daniel Victor Alsop, Minneapolis,
WITH DISTINCTION
Barbara Jane Anderson, Minneapolis
Robert F. Arms, Flandreau, S.D.
Martha Atwell, Fort Dodge, Iowa
George Gregory Balego, Minneapolis
Darien Sue Barth, Wayzata
Dianne Parks Berthe, St. Louis Park
Hyacinth Lee Bettger, Willmar, WITH
HIGH DISTINCTION
Lucille Margaret Bjork, Dassel, WITH
DISTINCTION
Gene LeRoy Blomquist, Milaca
Pamela Ruth Bollum, South St. Paul
Bonnie Bowen Bolstad, Minneapolis
Susan Renee Bovee, McIntosh
Joan Elizabeth Brings, St. Paul
Gisela Lina Buller, St. Paul
Richard Thomas Cairns, Minneapolis
Frank Cammarata, Minneapolis
Carol Ann Cartwright, Princeton
Gary Wayne Chesner, Minneapolis
Barbara Hall Crawford, Forest Lake
Penny Lou Crockett, Minneapolis
Mary Ellen Cross, Edina, WITH DIS-
TINCTION
Jack Unger Dean, B.A., Minneapolis

Claudia Therese Despot, Duluth,
WITH DISTINCTION
Lynda Barbara Dosch, Minneapolis
Barbara Louise Erickson, Minneapolis,
WITH DISTINCTION
Charles Curtis Erickson, Minneapolis
Jane Adeline Evans, B.A., Minneapolis
David John Evertz, St. Paul
Kathleen Mary Falkowski, Minne-
apolis
Maralyn Johnson Fiddler, Minne-
apolis, WITH DISTINCTION
Marcia Jane Field, Edina
Dina Burgin Fischbein, B.A., Minne-
apolis
Richard Arthur Fitch, B.A., St. Paul
Faith Evangeline Franks, Pine City
Candice Ann Fuller, St. Paul
Grace Ceci Genova, B.A., St. Paul,
WITH DISTINCTION
Susan Ann Geving, Wayzata
Cheryl Mohs Gilbert, Minneapolis,
WITH DISTINCTION
Patricia Dorothy Meany Gilbertson,
Rose Creek, WITH DISTINCTION
Diane Elizabeth Godfrey, Minne-
apolis

Trudy Beth Gordon, Minneapolis
 James Michael Grah, Gaylord
 Barbara Anderson Gravelly, Detroit
 Lakes
 Nancy Annabelle Grimme, A.A., Min-
 neapolis
 Patricia Mae Alcorn Gudrais, Walnut
 Grove, WITH DISTINCTION
 Judy Ellyn Guetz, B.A., St. Paul
 Nancy Lee Guetz, St. Paul
 Donald Francis Gulden, Minneapolis
 Sharlene Janet Hanson, Clinton
 Laurel Lee Hardacker, Minneapolis
 Marcia Ellen Harmon, A.A.,
 Rochester
 Delores Faye Hendrickson,
 Hutchinson
 Karen Lois Lund Herrboldt, Coon
 Rapids
 James Robert Hoffner, Babbitt, WITH
 DISTINCTION
 Mary Louise Hougham, Redwood
 Falls
 Janis Lynn Hustad, Glenwood
 Barbara Ann Johnson, Elmore
 Mary Josephine Johnson, Grand
 Rapids, WITH DISTINCTION
 Linda Mae Kaner, Cloquet, WITH HIGH
 DISTINCTION
 Margaret Ruth Keenan, St. Louis
 Park, WITH DISTINCTION
 Steven Marshall Kloner, St. Paul
 Kathryn Diane Knudsen, Bloomington
 Stephen Conrad Koepcke, Min-
 neapolis
 Marilyn Jean Krause, Minneapolis
 Merle Joy Kuitunen, Hibbing
 Linda June Laman, Stanchfield
 Sheila Renee Lammi, A.A.,
 Mounds View
 Alice Ruth Lindgren, A.L.A.,
 Minneapolis
 Barbara Joan Lobben, Minneapolis
 Barbara Mork Lodin, Minneapolis
 Sharon Kaye Loken, New Richland
 Cheryl Ann Lubinski, Minneapolis
 Janet Florence Ludke, Alexandria
 Edward Melvin Maki, Aurora
 Glenn Otis Martin, St. Paul, WITH
 DISTINCTION
 Donald Larry Mattson, A.A., Willmar

Susan Louise McAninch, Bloomington
 Carol Vinette McKay, St. Paul
 Kenneth Frank Melich, St. Cloud
 Mitzi Marlys Mikelson, Minneapolis
 John William Miskowiec, B.A., Min-
 neapolis
 Richard Thomas Mumbleau, Colum-
 bia Heights
 Kenneth James Mumford, Minne-
 apolis, WITH DISTINCTION
 Kathleen Margaret Nelson, St. Paul
 Rebecca Jane Nelson, Northbrook, Ill.
 Sharon Lee Nelson, Bloomington
 John Dale Nemes, St. Louis Park,
 WITH DISTINCTION
 Diana Lee Olson, Minneapolis
 Jane Dale Olson, Minneapolis, WITH
 DISTINCTION
 Nancy Ann Ostmo, Minneapolis,
 WITH DISTINCTION
 Susan Teresa Anna Reufrew, West
 St. Paul
 Myrna Ann Almo Renslo, Caledonia,
 WITH DISTINCTION
 Lynette Isis Sanborn, Edina, WITH
 DISTINCTION
 Sharon Ann Skow Sandanger, A.A.,
 Devils Lake, N.D.
 Kathlyn Ann Sandberg, Shafer
 Frank Louis Sanders, Jr., Minneapolis
 Judy Ann Schechter, St. Paul
 Lynda Sue Malone Seck, Minneapolis
 Virginia Gene Struck Sheff, St. Paul
 Barbara Ellen Sheldon, Clinton
 Corners, N.Y.
 Karon Ann Sias, Edina
 Bettianne Smith, St. Paul
 Jan Fenske Spreeman, Stillwater
 Mary A. Storlie, Lakeville
 Douglas Ralph Stottler, A.A., DeGraff
 Norman William Strande, Minne-
 apolis, WITH DISTINCTION
 Linda Hanson Wassenaar, Minne-
 apolis, WITH DISTINCTION
 Nathan Howard Wayne, Clarks Grove
 Nancy Louise Whipkey, B.A.,
 Worthington
 David Edward Wicklund, Minneapolis
 Jean Marie Wilmes, St. Paul
 Stephen Lynn Wolner, St. James,
 WITH DISTINCTION

Cynthia Anne Wyzkowski, St. Paul
Suzanne Jayne Yeknik, Minneapolis,
WITH DISTINCTION

Jane Lucille Zimmerman, Edina
Sandra Lee Zwiaska, Columbia
Heights, WITH DISTINCTION

Master of Education

Joseph Solomon Darby, Jr., B.S.,
Minneapolis
John William Horstman, B.S., Maple
Lake
Norman Howard Kragseth, B.S.,
St. Louis Park

Patrick Thomas Long, B.A., North-
field
Corbin Price Smith, B.A., St. Paul
Ursula Walsh, B.A., M.A., Omaha,
Neb.
Russell John Winters, B.S., Park
Rapids

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Thomas Dean Ashley, Minneapolis
Bruce Lee Bevacqua, Minneapolis
James Hugh Bickett, Edina
James Richard Caine, Hopkins
Harold Lee Carter, Plainview
Edward Barton Chapin, Jr., St. Paul
Paul Frederick Clover, Maple Plain
Lawrence Paul Connoy, Osseo
James Clinton Cross, Lakeville
Timothy Mark Cutter, Minneapolis
John Victor Dahl, Minneapolis
Ted Edward DeZurik, Minneapolis
Dean Arthur Enrooth, Minneapolis
David Francis Hanson, Deer River
James Robert Hemak, Columbia
Heights
Glenn Gollen Johnson, A.A., Austin
Thomas Paul Kvaale, Richfield
Stanley Harrison Lester, Chaska
Richard Earl Mader, Jr., Edina
Terry Guy McKimm, Hutchinson
George Marion McMurry, Minne-
apolis
Norman Edward Meyer, Madison
Michael Anthony Morrison, Albert
Lea
Keith Walter Oliver, Minneapolis
Archie Hagen Olson, Duluth

Francis Edward Otto, A.A., Lester
Prairie
Gregory Mello Patient, St. Paul
John Carleton Pepper, Minneapolis
Roger Thomas Peltier, New
Brighton, WITH DISTINCTION
Ronald Martin Peterson, Minneapolis
Michael Louis Pietrzak, Brooklyn
Center, WITH DISTINCTION
Paul Egan Portz, St. Paul
Robert Andrew Quevli, Windom
John Neil Reif, St. Paul
Lawrence Noel Roden, A.A., Elk
River
Craig Allen Saline, St. Anthony
Village
William Raymond Searles, Albert Lea,
WITH DISTINCTION
Roland Robert Smith, St. Louis Park
James Robert Spear, Dunnell
Michael John Toyli, Palisade
Paul Alvin Trowbridge, St. Paul, WITH
DISTINCTION
Dean Mark Ward, Pemberton
Thomas John Woodward, Ashland,
Wis.
Fredrick Dean Zahn, Faribault

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Mary Rachel Earley, *Fountain*, WITH DISTINCTION

Bachelor of Science

Andrea Marie Durand, *Minneapolis*,
WITH HIGH DISTINCTION*
Charles Wesley Harris, A.A., *York*,
Neb., WITH DISTINCTION

Joseph Jack Klugman, B.A., *St.*
Louis Park
Robert Allen Larter, *Lancaster**

Master of Public Health

Donna Marie Anderson, B.S.,
Hinckley
Sheila Mary Farnan, B.A., *St. Paul*
Sheila Catherine Flynn, B.A., *Canby*

Alexander Allen Levitan, B.A., M.D.,
Minneapolis
Mary Lou Rogers, B.A., *Denver, Colo.*
Jacqueline M. Swartz, B.S., *Fairmont*

GRADUATE SCHOOL

Master of Architecture

Franklin Smith Flint, *Pocatello, Idaho*
B.S. '60, *Idaho State College*; B. of Arch. '66,
University of Utah. Field of Concentration:
Architecture. Major Adviser: Prof. W. K.
Vivrett.

Edward Joseph Kodet, Jr., *Belvidere*,
S.D.
B. of Arch. '68, *University of Nebraska*. Field
of Concentration: Architecture. Major Adviser:
Prof. W. K. Vivrett.

Master of Arts

Junko Amaike, *Nishinomiya, Japan*
B.A. '66, *Kobe College*. Field of Concentra-
tion: Curriculum and Instruction. Major Ad-
viser: Prof. Norine Odland.

Gunhill Emilia Ashbach, *St. Paul*
B.S. '64, *University of Minnesota*. Field of
Concentration: Curriculum and Instruction.
Major Adviser: Prof. B. E. Balow.

Lois Jean Anderson, *Frazee*
B.S. '67, *University of Minnesota*. Field of
Concentration: Speech Science, Pathology and
Audiology. Major Adviser: Prof. R. R. Martin.

Eugene Louis Atkin, *Minneapolis*
B.A. '58, *Grinnell College*. Field of Concen-
tration: Philosophy. Major Adviser: Prof. H. E.
Mason.

* These degrees are conferred subject to the completion of practical work prior to December 20, 1969.

Carole Roberta Becker, Minneapolis

B.A. '60, Oberlin College. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

Walter William Bednarczyk, Minneapolis

B.A. '66, College of St. Thomas. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

Gail Rhian Benjamin, Minneapolis

B.A. '64, Michigan State University. Major: Anthropology. Minor: Linguistics. Thesis: Non-Linguistic Content of Speech. Major Adviser: Prof. H. B. Sarles.

Rita M. Bienvenue, Minneapolis

B.A. with honors '67, University of Windsor. Major: Sociology. Minor: Anthropology. Thesis: Participation and Social Integration: An Exploratory Study. Major Adviser: Prof. R. H. Hall.

Cora Marie Bentz Biernat, Columbia Heights

B.S. '65, University of Minnesota. Field of Concentration: Art Education. Major Adviser: Prof. C. A. Gayne.

Michelle Therese Bigelow, Minneapolis

B.A. '67, University of Maryland. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. E. H. Henrikson.

Charles Avery Bolles, Pine Island

B.A. '62, University of Minnesota. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Diane Constance Brown, Waterloo, Iowa

B.A. '68, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. E. W. McDiarmid.

Leroy Callister Brown, Robbinsdale

B.S. '56, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. J. R. Curtin.

Martina Marie Bursik, Faribault

B.A. '41, Emmanuel College. Field of Concentration: Library Science. Major Adviser: Prof. Patricia Turner.

Myrna Diane Bushyager, Minneapolis

B.A. '62, Morningside College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. F. L. Ryan.

Christy Ann Hohman Caine, Brainerd

B.A. with high honor '66, Hamline University. Major: Anthropology. Minor: Ancient History. Thesis: The Archaeology of the Lower Snake River Valley. Major Adviser: Prof. O. E. Johnson.

Gordon William Carlson, Verona, N.J.

B.A. '65, Bethel College. Field of Concentration: History. Major Adviser: Prof. T. G. Stavrou.

James Russell Carlson, Minneapolis

B.S. with distinction '68, University of Minnesota. Field of Concentration: Distributive Education. Major Adviser: Prof. M. K. Klaurens.

Karen Westman Carlson, Minneapolis

B.S. *cum laude* '61, Gustavus Adolphus College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. Robert Dykstra.

Harry F. Cramer, Antigo, Wis.

B.A. '49, Marquette University. Field of Concentration: Classics. Major Adviser: Prof. G. M. Erickson.

Melvin DeBoer, Edgerton

B.A. '63, Calvin College. Field of Concentration: Latin. Major Adviser: Prof. R. P. Sonkowsky.

Francis John Ditter, Jr., Minneapolis

B.A. '63, Stanford University. Field of Concentration: Sociology. Major Adviser: Prof. A. L. Johnson.

Robert Richard Dobroski, Pittsburgh, Pa.

B.A. '49, Maryknoll Seminary. Field of Concentration: Classics. Major Adviser: Prof. G. M. Erickson.

Ann Mary Doherty, Providence, R.I.

B.A. '62, Salve Regina College. Field of Concentration: Classics. Major Adviser: Prof. G. M. Erickson.

Barbara Lee Drolet, Burnsville

B.S. '56, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. R. F. Weatherman.

Thomas Eugene Eveslage, Minneapolis

B.S. '65, St. Cloud State College. Field of Concentration: Mass Communication. Major Adviser: Prof. G. S. Hage.

Doris Marie Fenholt, Long Lake

B.A. *cum laude* '58, Westmar College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. Norine Odland.

Elsa Marie Finucane, Duluth

B.A. '47, College of St. Scholastica. Field of Concentration: Art Education. Major Adviser: Prof. C. A. Gayne.

Maurine Ruth Geick, Elmhurst, Ill.

B.A. '60, University of Minnesota. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. F. M. Lassman.

Shirley Hattendorf George, Elmhurst, Ill.

B.A. '60, Valparaiso University. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.

James Farrell Geraghty, Minneapolis

B.A. *cum laude* '39, College of St. Thomas. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

Heather Arling Greenagel, Pacific Palisades, Calif.

B.S. '61, University of Minnesota. Major: Speech-Communication. Minor: English. Thesis: An Analysis of the Arguments Used by Corwin, Cass, and Calhoun to Support Their Positions in the Senate Debates on the Three Million Bill During the Mexican War. Major Adviser: Prof. E. G. Bormann.

Gail LaVonne Grewe, St. Cloud

B.S. '57, University of Minnesota. Field of Concentration: Recreation and Park Administration. Major Adviser: Prof. F. M. Chapman.

Stephen Paul Grooms, Ames, Iowa

B.A. '64, Grinnell College. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Andrew A. Hall, Minneapolis

B.A. '64, Long Island University, Southampton. Field of Concentration: Art Education. Major Adviser: Prof. C. A. Gayne.

Michael Haralambos, Liverpool, England

B.A. with honors '64, University of Liverpool. Major: Anthropology. Minor: Sociology. Thesis: Soul Music and Blues: Their Meaning and Relevance in Northern United States Black Ghettos. Major Adviser: Prof. L. P. Gerlach.

Frances Marguerite Haug, Yorkton, Saskatchewan, Canada

B.Ed. '66, University of Saskatchewan. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. Norine Odland.

Jerome Francis Hawkins, St. Paul

B.B.A. '61, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

Lowell James Hill, Minneapolis

B.S.B. with distinction '67, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

Nigel Houghton, London, England

B.S. '66, London School of Economics. Major: Geography. Minor: History. Thesis: An Electoral Geographic Analysis of Areas of Competition of Indian Political Parties. Major Adviser: Prof. J. E. Schwartzberg.

Richard Jacob Ilkka, Minneapolis

B.S. '66, University of Minnesota. Major: Speech-Communication. Minor: Education. Thesis: Ignatius Donnelly and the Rhetoric of Populist Reform, 1891-1892. Major Adviser: Prof. R. L. Scott.

Ilah Jean Jackish, Red Wing

B.S. with distinction '55, University of Minnesota. Field of Concentration: Business Education. Major Adviser: Prof. R. G. Price.

Badri Nahvi Johnson, Tehran, Iran

B.S. with distinction '67, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: National Characteristics and Cross-Cultural Education: The Moslem Case. Major Adviser: Prof. D. A. Martindale.

Brian Blake Johnson, Minneapolis

B.S. with distinction '64, University of Minnesota. Field of Concentration: Industrial Education. Major Adviser: Prof. Jerome Moss, Jr.

Danae P. Kembe, Patras, Greece

B.A. '66, University of Minnesota. Field of Concentration: Sociology. Major Adviser: Prof. D. A. Martindale.

Sil Dong Kim, Seoul, Korea

B.L. '64, Seoul National University. Field of Concentration: Political Science. Major Adviser: Prof. M. Q. Sibley.

Esrom M. Kleven, Edina

B.A. '46, Augsburg College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. G. Price.

Paul George Krempl, Albany, N.Y.

B.S. '63, University of North Dakota. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. E. H. Henrikson.

Michael George Krukones, Chicago, Ill.

B.S. with honors '66, Loyola University. Major: Political Science. Minor: History. Thesis: Communication Flow as an Indicator of Economic and Political Integration in Western Europe: 1918-60. Major Adviser: Prof. R. E. Riggs.

Geoffrey Lambert, Scunthorpe, England

B.A. '66, Manchester University. Major: Political Science. Minor: Sociology. Thesis: Backbench Rebellion in the House of Commons. Major Adviser: Prof. D. E. Repass.

Robert Louis Levin, Philadelphia, Pa.

B.S. '60, Temple University. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Judd Mark Ludlow, Cook

B.S. '65, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. D. Ashmun.

Linda Rae Maney, Goshen, N.Y.

B.A. '66, Elmira College. Field of Concentration: Classics. Major Adviser: Prof. G. M. Erickson.

Betty Louise Maurstad, Minneapolis

B.A. *cum laude* '49, M.A. '67, University of Minnesota. Major: Art History. Minor: Museology. Thesis: The Etchings of George E. Resler, 1882-1954, an Artist of St. Paul, Minnesota. Major Adviser: Prof. D. R. Torbert.

Thomas Patrick McGowan, Minneapolis

B.A. '63, University of Minnesota. Field of Concentration: German. Major Adviser: Prof. W. F. Taraba.

Priscilla Alden Mewha, Indiana, Pa.

B.S. '67, Indiana University of Pennsylvania. Major: Geography. Minor: Forestry. Thesis: Historical Sites as Open Space: Fort Ligonier and Bushy Run Battlefield, Westmoreland County, Pennsylvania. Major Adviser: Prof. J. R. Borchert.

Betsy Ann Miller, Tamaqua, Pa.

B.S. '68, Ursinus College. Field of Concentration: Psychology. Major Adviser: Prof. M. D. Dunnette.

Mary Patricia Monaghan, Minneapolis

B.A. *cum laude* '67, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

Luther Carroll Morgan, Minneapolis

B.A. '47, Augsburg College. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. H. Edson.

Gwendolyn Gertrude Mosborg, Minneapolis

B.S. '47, Milwaukee State Teachers College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. J. C. Manning.

Joanne Henry Moses, Minneapolis

B.A. '60, Mount Marty College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. P. Pearson.

Premila Menon Mussells, Hyderabad, India

B.S. '60, LL.B. '62, Osmania University. Major: Political Science. Minor: History. Thesis: The Development of the Political Thought of Jayaprakash Narayan. Major Adviser: Prof. B. E. Lippincott.

Roscoe Winthrop Nelson, Jr., St. Paul

B.A. '47, Harvard University. Field of Concentration: Sociology. Major Adviser: Prof. Reuben Hill.

Norman Yen Tak Ng, Hong Kong

B.A. '61, University of Hong Kong. Field of Concentration: Geography. Major Adviser: Prof. J. W. Webb.

Gerald Eugene Norbury, St. Louis Park

B.A. *magna cum laude* '59, University of Minnesota. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Patrick Henry O'Brien, International Falls

B.A. *cum laude* '64, University of Minnesota. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Robert Earl Olsen, Regina, Saskatchewan, Canada

B.Ed. '56, University of Alberta. Field of Concentration: Industrial Education. Major Adviser: Prof. H. F. Nelson.

Gerald Allen Olson, Ellsworth, Wis.

B.S. '58, Wisconsin State College, River Falls. Field of Concentration: Music Education. Major Adviser: Prof. A. F. Caswell.

Dorothy Winifred Petry, St. Paul

B.A. with high honor '46, King's College. Field of Concentration: Educational Psychology. Major Adviser: Prof. A. R. Anderson.

Gregory Herbert Pitman, St. Paul

B.A. *cum laude* '62, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

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B.A. *magna cum laude* '63, College of Santa Fe. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

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B.A. '64, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

Dean Kingsley Rowney, Adelaide, South Australia, Australia

Assoc. of Mus. '60, University of Adelaide. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

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B.A. '67, Buena Vista College. Field of Concentration: Library Science. Major Adviser: Prof. J. H. Leigh.

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B.S. *cum laude* '59, University of Minnesota. Field of Concentration: Area Studies. Major Adviser: Prof. E. M. Copeland.

John Paul Schifsky, St. Paul

B.A. '66, St. John's University. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

Nancy Jane Schwartz, Naugatuck, Conn.

B.A. with honors '67, University of Connecticut. Field of Concentration: Latin. Major Adviser: Prof. G. M. Erickson.

Judith Naomi Scott, Minneapolis

B.A. *cum laude* '61, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. Patricia Turner.

Robert Carl Serfass, Nazareth, Pa.

B.S. in H.E. with honor '62, East Stroudsburg State College. Field of Concentration: Physical Education. Major Adviser: Prof. J. E. Alexander.

Rolf Norman Sigford, Minneapolis

B.A. '68, University of Minnesota. Field of Concentration: History. Major Adviser: Prof. D. W. Noble.

Margaret Ann Smith, South Dartmouth, Mass.

B.A. '67, College of New Rochelle. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

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B.A. *magna cum laude* '66, St. Louis University. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

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B.S. with honors '66, Northwest Missouri State College. Field of Concentration: Art Education. Major Adviser: Prof. C. A. Gayne.

Susan Diane Steinhardt, Wisconsin Rapids, Wis.

B.A. *cum laude* '65, Carroll College. Field of Concentration: Classics. Major Adviser: Prof. G. M. Erickson.

Frederic John Stephan, White Bear Lake

B.A. '65, University of Denver. Field of Concentration: Geography. Major Adviser: Prof. W. J. Barrett.

Michael Wagner Stirens, Waterville

B.A. '68, University of Minnesota. Major: History. Minor: Mass Communication. Thesis: John Holles, First Earl of Clare. Major Adviser: Prof. D. H. Willson.

Barbara Louise Swanson, Minneapolis

B.S. '67, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. E. M. Birkmaier.

Thomas Patrick Sweetser, Minneapolis

B.S. *cum laude* '64, Spring Hill College. Major: Sociology. Minor: Educational Psychology. Thesis: The Catholic Church in the Modern World: An Analysis of the Response of the Catholic Church to the Changing American Culture as Indicated by the Reaction to Change within the Wisconsin Province of the Society of Jesus Order. Major Adviser: Prof. W. L. Zwerman.

Emma Michelotti Taddei, Minneapolis

B.A. *magna cum laude* '67, University of Minnesota. Field of Concentration: Italian. Major Adviser: Prof. Arshi Pipa.

Doris Carol Tannenbaum, Maspeth, N.Y.

B.A. '66, Queens College of the City University of New York. Major: Child Psychology. Minor: Psychology. Thesis: Impulsivity of the Female Adolescent Delinquent as Indicated on the Porteus Maze and Kagan's MFF Task. Major Adviser: Prof. C. P. Palmquist.

Robert Henry Taylor, Bowman, N.D.

B.S. in Ed. '57, Northern State Teachers College. Field of Concentration: Library Science. Major Adviser: Prof. J. H. Leigh.

Lowell Stanton Thompson, Baltimore, Md.

B.A. *cum laude* '54, University of Minnesota. Major: Philosophy. Minor: Political Science. Thesis: The Epistemological Justification of Religious Belief According to H. D. Lewis in "Out Experience of God." Major Adviser: Prof. H. E. Mason.

Margaret Anne Thompson, Denver, Colo.

B.A. *cum laude* '67, University of Colorado. Major: Sociology. Minor: English. Thesis: Professionalization and the New Careerist. Major Adviser: Prof. Harold Finestone.

Robert Paul Thompson, St. Paul

B.S. '49, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. P. Pearson.

Richard Ivan Towber, New York, N.Y.

B.A. '63, State University of New York at Stony Brook. Major: Economics. Minor: Statistics. Thesis: The Measurement of Income Inequality in the United States with Emphasis on Low-Income Families. Major Adviser: Prof. W. W. Heller.

Robert Louis Veninga, St. Paul

B.A. '63, University of Minnesota. Major: Speech. Minors: Political Science and Anthropology. Thesis: A Comparative Study of Middle-Eastern and Western Political Rhetoric. Major Adviser: Prof. W. S. Howell.

Marlyn William Wacholz, Renville

B.S. '59, University of Minnesota. Field of Concentration: Agricultural Education. Major Adviser: Prof. M. J. Peterson.

Carol Jordan Wawersik, Minneapolis

B.A. *summa cum laude* '66, University of Minnesota. Field of Concentration: German. Major Adviser: Prof. E. F. Menze.

Richard George Weeks, Jr., St. Paul

B.A. '66, Macalester College. Field of Concentration: History. Major Adviser: Prof. J. K. Munholland.

John Benedict Winkel, Spencer, Iowa

B.A. *cum laude* '65, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

Charles Franklyn Wrobel, Mount Vernon, Wash.

B.S. '62, Stout State College. Field of Concentration: Educational Psychology. Major Adviser: Prof. Bjorn Karlsen.

Shih Pau Yen, Shansi, China

B.A. '63, Taiwan Provincial Chung Hsing University. Major: Statistics. Minor: Mathematics. Thesis: Efficiency Comparisons for Two Subset Selection Procedure. Major Adviser: Prof. Milton Sobel.

James Michael Zak, Cloquet

B.S. '63, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. D. A. Johnson.

Marilyn Florence Ziebarth, St. Paul

B.A. '67, Carleton College. Field of Concentration: History. Major Adviser: Prof. C. A. Chambers.

Master of Arts in Public Administration

Joyce Ann Banks, Lynchburg, Va.
B.S. '65, North Carolina College at Durham.
Field of Concentration: Public Administration.
Major Adviser: Prof. P. T. Steen.

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B.A. with honors '65, Maryknoll College. Field
of Concentration: Public Administration. Major
Adviser: Prof. G. A. Warp.

Donavan Rae Jacobson, Bloomington
B.B.A. '59, University of New Mexico. Major:
Public Administration. Thesis: An Analysis of
School Business Administration in the Bloom-
ington, Minnesota, School Systems. Major Ad-
viser: Prof. G. A. Warp.

Robert Dennis Ranta, Minneapolis
B.A. '65, University of Minnesota. Field of
Concentration: Public Administration. Major
Adviser: Prof. G. A. Warp.

Master of Business Administration

George Edward Bohlig, Minneapolis
B.S. in Chem.E. '57, Massachusetts Institute of
Technology. Field of Concentration: Busi-
ness Administration. Major Adviser: Prof. N.
A. Glaskowsky, Jr.

James Paul Henderson, St. Paul
B.A. '61, Miami University, Ohio. Field of
Concentration: Business Administration. Major
Adviser: Prof. N. A. Glaskowsky, Jr.

John Lowe Laird, Ashtabula, Ohio
B.A. '67, College of Wooster. Field of Con-
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B.S.B. with high distinction '67, University of
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Rudelius.

Joel William Mahle, St. Paul
B.A. '67, Macalester College. Field of Con-
centration: Business Administration. Major Ad-
viser: Prof. G. M. Andrew.

Master of Fine Arts

Steven Edward Bigler, Tulsa, Okla.
B.A. '64, University of Minnesota. Field of
Concentration: Studio Art. Major Adviser:
Prof. Peter Busa.

Bruce Alan McConachie, Detroit,
Mich.
B.A. '66, Grinnell College. Field of Concen-
tration: Theatre. Major Adviser: Prof. Theo-
dore Herstand.

Noboru Sawai, Minneapolis
B.A. cum laude '66, Augsburg College. Field
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Prof. M. H. Myers.

Julie Hutchison Windahl, Minne-
apolis
B.S. '64, University of Minnesota. Field of
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H. L. Adey.

Norma Jean Wood, Fayetteville, Ark.
B.A. '67, University of Arkansas. Field of
Concentration: Theatre. Major Adviser: Prof.
M. W. Klein.

Master of Social Work

Sonja Jean Thompson, Minnetonka
B.A. '67, Augsburg College. Field of Concen-
tration: Social Work. Major Adviser: Prof. B.
E. Compton.

Lonnie Rae Weber, Avon, S.D.
B.A. '65, Augustana College. Field of Con-
centration: Social Work. Major Adviser: Prof.
H. J. Yesner.

Master of Science

Jacques Becker, Meudon-Bellevue,
France

Lic. '61, University of Paris. Major: Geology. Minor: Botany. Thesis: The Freshwater Ostracoda of the Lower Humboldt Formation (Miocene) in Northern Nevada, Northern Utah and Southeastern Idaho. Major Adviser: Prof. F. M. Swain.

Claire Marguerite Bourque, Arlington,
Mass.

B.S. *cum laude* '65, Boston College School of Nursing. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

Dona Lea Brock, Barberton, Ohio

B.A. *cum laude* '62, Kent State University. Field of Concentration: Analytical Chemistry. Major Adviser: Prof. E. B. Sandell.

Walter Hong-der Chen, Tainan,
Formosa

B.S.E. '63, M.S.E. '66, Taiwan Cheng Kung University. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. P. E. Sethna.

Peter Wen-Shyo Chiou, Formosa

B.S. '64, Taiwan Provincial Chung-Hsing University. Field of Concentration: Animal Science. Major Adviser: Prof. R. M. Jordan.

David Carroll Christensen,
Rochester

B.S. '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Gaumnitz.

Dinshaw Rustom Doongaji, Bombay,
India

B.Med., B.Surg. '55, M.D. '60, University of Bombay. Major: Psychiatry. Minor: Psychology. Thesis: A Clinical Study of an Investigational Neuroleptic Agent (SKF 14336-D) Versus a Standard Neuroleptic (Chlorpromazine). Major Adviser: Prof. B. C. Schiele.

Jean Charles Ducroux, Paris, France

Lic. en Droit '66, Faculte de Droit et Des Sciences Economiques de Paris. Field of Concentration: Business Administration. Major Adviser: Prof. J. R. Nelson.

John Peter Glish, Jr., Minneapolis

B.A. '63, St. Mary's College. Field of Concentration: Mathematics. Major Adviser: Prof. H. B. Jenkins.

Charles Douglas Gross, Minneapolis

B.A. '67, St. Cloud State College. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Zimmer.

James Vernon Groth, Minneapolis

B.S. '67, University of Minnesota. Major: Plant Pathology. Minor: Plant Breeding. Thesis: Studies on Heterokaryosis in the Genus *Thaatephorus*. Major Adviser: Prof. N. A. Anderson.

Warren Louis Guthel, New York,
N.Y.

B.S. '65, State University of New York at Stony Brook. Major: Physics. Minor: Mathematics. Thesis: The Design of a Proposed Superfluid Gyroscope. Major Adviser: Prof. William Zimmerman, Jr.

Shirley Ann Haase, Tomah, Wis.

B.S. '61, University of Wisconsin. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

Mary Yoshiko Hama, Altadena, Calif.

B.S. '67, University of California, Berkeley. Field of Concentration: Agricultural Economics. Major Adviser: Prof. M. C. Burk.

Richard Frank Hardyman, San Diego,
Calif.

B.S. '66, University of Wyoming. Major: Geology. Minor: Mineral Engineering. Thesis: The Petrography of a Section of the Basal Duluth Complex, St. Louis County, Northwestern Minnesota. Major Adviser: Prof. H. T. Hall.

Tien-Ming Ho, Sa-Wan, Kwangton,
China

B.A. '63, Taiwan Provincial Chung Hsing University. Field of Concentration: Business Administration. Major Adviser: Prof. D. C. Hastings.

David Alexander Judd, Anchorage,
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B.S. '66, Stanford University. Field of Concentration: Mathematics. Major Adviser: Prof. R. H. Cameron.

Yi-Fu Lin, Taichung, Taiwan, China

B.S. in B.A. '60, Cheng Kung University. Field of Concentration: Business Administration. Major Adviser: Prof. D. C. Hastings.

Audrey Frances Logsdon, Wayzata

B.S. in N.A. with distinction '63, University of Minnesota. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

Charles Keith Marschke, St. Paul

B.S. '65, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Chemical Studies on the Spore Coat of *Bacillus Licheniformis*. Major Adviser: Prof. R. W. Bemlohr.

Donna Mae Messerli Meyer,
Winthrop

B.S. with high distinction '64, University of Minnesota. Major: Medical Technology. Minor: Microbiology. Thesis: Characterization of Mycoplasma Species Using Gas Chromatography. Major Adviser: Prof. R. F. Hovde.

Byong Sung Min, Seoul, Korea

B.S. '65, Seoul National University. Major: Food Science and Industries. Minor: Biometry. Thesis: A Study of Physical Properties of Whipped Topping Mixtures. Major Adviser: Prof. E. L. Thomas.

Lauren Wallace Nordvall, Lynnfield,
Mass.

B.A. '61, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. John Neter.

Sylvia Carol Ogren, Mound

B.S. with distinction '51, University of Minnesota. Field of Concentration: Agricultural Economics. Major Adviser: Prof. M. C. Burk.

Jacqueline Mary Piotrowicz, Palos
Heights, Ill.

B.S.Chem. '67, Purdue University. Field of Concentration: Organic Chemistry. Major Adviser: Prof. W. E. Parham.

Henry William Quade, Bloomington,
Ind.

B.S. '62, University of Wisconsin. Field of Concentration: Zoology. Major Adviser: Prof. J. C. Underhill.

Lowell Herbert Rosen, Perham

B. of Phys. with distinction '67, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Electron Precipitation Patterns and their Relation to Substorm Increases in 50-150 Kev Electrons at the Synchronous Orbit. Major Adviser: Prof. J. R. Winckler.

Douglas Charles Sanders, St. Paul

B.S. '65, Michigan State University. Major: Horticulture. Minor: Biometry. Thesis: Studies on the Influence on B-9 and CCC on Snap Bean Transpiration, Growth and Development. Major Adviser: Prof. R. E. Nyland.

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B.A. '64, University of Dayton. Field of Concentration: Botany. Major Adviser: Prof. E. C. Abbe.

Roger Ray Schmidt, Hartsburg, Ill.

B.S.M.E. *magna cum laude* '68, Bradley University. Field of Concentration: Fluid Mechanics. Major Adviser: Prof. E. M. Sparrow.

Donald Allen Schmiedt, Cleveland,
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B.S. in B.A. '67, Ohio State University. Field of Concentration: Business Administration. Major Adviser: Prof. J. M. Smith, Jr.

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B.A. '66, Grinnell College. Field of Concentration: Genetics. Major Adviser: Prof. D. P. Snustad.

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B.A. '62, Gakushuin University; M.A. in Comm. '67, Waseda University. Field of Concentration: Business Administration. Major Adviser: Prof. J. K. Simmons.

Gerald Joseph Thiede, Two Rivers,
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B.S. with high distinction '67, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. J. M. Hughes.

Irene Maria Walkee, Minneapolis

B.S. '52, University of Minnesota. Field of Concentration: Home Economics. Major Adviser: Prof. M. C. Burk.

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B.S. '62, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. B. A. Brown.

Richard Charles Woodhouse, Min-
neapolis

B.S.B. with distinction '67, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: An Empirical Study of the Hypothesis that a Stable Dividend Payout Leads to Higher Stock Prices than Alternative Dividend Policies. Major Adviser: Prof. J. R. Nelson.

Master of Science in Aerospace Engineering

James Patrick Johnson, Richfield

B.S.E. '66, University of Notre Dame. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. P. E. Sethna.

Sarat Chandra Praharaj, Puri, Orissa, India

B.Tech. with honors '67, Indian Institute of Technology. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. D. D. Joseph.

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B.M.E. '65, Bangalore University; M.E. '67, Indian Institute of Science. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. D. D. Joseph.

Lawrence Frederick Schumann, Lake City

B. of Aero.Eng. with distinction '67, University of Minnesota. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. G. S. Beavers.

Master of Science in Chemical Engineering

Yoshinori Hatazaki, Nishiharu, Japan

B. of Eng. '61, Waseda University. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Study of Mixing Models for Continuous Stirred-Tank Reactor-with an Irreversible Second-Order Chemical Reaction. Major Adviser: Prof. A. G. Fredrickson.

Master of Science in Civil Engineering

Dane Richard Ismart, Baltimore, Md.

B.C.E. '67, Georgia Institute of Technology. Field of Concentration: Civil Engineering. Major Adviser: Prof. D. L. Gerlough.

Turhan Kasar, Istanbul, Turkey

B.S.C.E. with honors '68, Robert College. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. T. Hanley.

Master of Science in Dentistry

Sanford Erwin Gruskin, Southfield, Mich.

D.D.S. '66, Marquette University. Major: Dentistry. Minor: Pathology. Thesis: Experimentally Induced Osteomyelitis in the Mandibles of Rabbits. Major Adviser: Dr. J. A. Gibilisco.

Ronald Norton Spiegel, Pittsburgh, Pa.

B.S. '63, D.M.D. '66, University of Pittsburgh. Major: Dentistry. Minor: Anatomy. Thesis: A Cephalometric Study of the Cranial Base of Children with Endocrinopathies and Its Effect on the Craniofacial Skeleton. Major Adviser: Dr. J. A. Gibilisco.

Master of Science in Dermatology

William Alastair McLeod, Vancouver, British Columbia, Canada

M.D. '58, University of Alberta. Major: Dermatology. Minor: Basic Dermatologic Sciences. Thesis: An Electron Microscopic Study of the Microcirculation of the Normal Human Dermis. Major Adviser: Dr. R. R. Kierland.

Stewart Earle Wiegand, Houston, Tex.

B.A. '61, University of Texas; M.D. '65, Baylor University. Major: Dermatology. Minor: Basic Dermatologic Sciences. Thesis: The Diagnosis of Superficial Pathogenic Fungi with Ink Blue Agar. Major Adviser: Dr. R. K. Winkelmann.

Master of Science in Electrical Engineering

Gerald George Anderson, Minneapolis

B.S. '58, North Dakota State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Lawrence Klamser Bell, Chicago, Ill.

B.E.E. '50, Marquette University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. P. Kumar.

Bradley Kenneth Johnson, St. Paul

B.E.E. with distinction '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Optimally Ordered Triangularization Applied to Engineering Problems. Major Adviser: Prof. V. D. Albertson.

Mohinder Pratap Malhotra, New Delhi, India

B.S. '64, University of Delhi; B.E. '67, Institute of Science, Bangalore. Field of Concentration: Electrical Engineering. Major Adviser: Prof. Mahmoud Riaz.

Robert Clement Oswald, St. Paul

B.S. '61, College of St. Thomas. Major: Electrical Engineering. Minor: Mathematics. Thesis: Auger Spectroscopy for the Chemical Analysis of Surfaces. Major Adviser: Prof. R. E. Weber.

Robert Charles Raetz, St. Paul

B.E.E. '56, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Ferdinand Alonso Samuels, Golden Valley

B.E.E. '54, New York University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Richard Harley Welch, Jr., Minneapolis

B.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Synthesis of Magnetic Thin Films. Major Adviser: Prof. D. E. Speliotis.

Richard Henry Wolfarth, New Brighton

B.E.E. '55, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Ruben Zimering, Minneapolis

Dipl.Ing. '48, Institute of Technology of Munich. Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. P. Kumar.

Master of Science in Mechanical Engineering

Marvin Ray Kammin, Story City, Iowa

B.S.M.E. '65, Iowa State University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Heat Transfer Between a Turbulent Jet and the Inside of an Isothermal Sphere. Major Adviser: Prof. R. J. Goldstein.

William John Langer, Minneapolis

B.M.E. with distinction '68, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. L. P. Sapetta.

Michael Rickert, Stillwater

B.M.E. with distinction '67, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. J. L. Threlkeld.

Master of Science in Medicine (Internal)

Jacques Souadjian, Los Angeles, Calif.

M.D. '63, University of Ottawa. Major: Medicine (Internal). Minor: Hematology. Thesis: The Thymus in Malignancy. Major Adviser: Dr. E. D. Bayrd.

Master of Science in Surgery

Joseph R. Barata, New York, N.Y.

M.D. '56, University of Havana. Major: Surgery. Minor: Pathology. Thesis: Technical Aspects and Comparative Value of Various Methods of Immunosuppressive Therapy on Survival of Orthotopic Canine Lung Allografts. Major Adviser: Dr. C. W. Lillehei.

Certificate of Specialist in Education

Randall Earl Genrich, Minneapolis

B.S. '54, Wisconsin State College, River Falls; M.A. '62, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. R. R. Houchins.

Elizabeth Meyers Hyde, Souderton, Pa.

B.A. '66, Bucknell University; M.A. '68, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. D. Hall.

Benito Chu Sy, Quezon City, Philippines

B.A. '60, Far Eastern University; M.S.Ed. '62, University of the East; M.A. with high honors '66, Manuel L. Quezon University. Field of Concentration: Educational Psychology. Major Adviser: Prof. C. A. Parker.

Doctor of Education

William Arthur Gessner, St. Paul

B.S. '49, St. Cloud State Teachers College; M.A. '61, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: An Evaluation of Chapter 633 of the Minnesota Statutes of 1967. Major Adviser: Prof. C. P. Hooker.

Doctor of Philosophy

Russell Blair Adams, Minneapolis

B.B.A. '49, B.S. '52, M.A. '55, University of Minnesota. Major: Geography. Minor: Statistics. Thesis: Regionalization of Population Movement and Growth in the Upper Midwest. Major Adviser: Prof. J. R. Borchert.

William Herbert Agee, Minneapolis

B.A. *cum laude* '55, University of Minnesota. Major: American Studies. Thesis: Franklin and Crevecoeur: Individualism and the American Dream in the Eighteenth Century. Major Adviser: Prof. M. C. Turpie.

Donna Marie Farrell Barden, Minneapolis

B.A. '52, M.A. '54, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: A Comparison of the Histories of Delinquent Boys and Girls. Major Adviser: Prof. R. D. Wirt.

Eric Wolfgang Bauer, Vienna, Austria

'52, University of Vienna; M.A. '59, DePauw University. Major: Education. Minor: Supporting Program. Thesis: The Establishment of a Set of Criteria for the Development of a Pedagogical Grammar of German. Major Adviser: Prof. E. M. Birkmaier.

Robert Gene Blaine, Frazee

B.S. '57, Moorhead State College; M.A. '64, University of Minnesota. Major: Educational Administration. Minor: Education. Thesis: Problem Situations Encountered by Principals in Junior High Schools Located in High and Low Socioeconomic Communities. Major Adviser: Prof. O. E. Domian.

Carl O. Bleyle, Ames, Iowa

B.M. with high distinction '57, University of Kentucky; M.M. '60, University of Wisconsin. Major: Music. Minor: History. Thesis: Georg Andreas Sorge's Influence on David Tannenberg and Organ Building in America During the Eighteenth Century. Major Adviser: Prof. Johannes Riedel.

Robert Henry Busch, Gainesville, Fla.

B.S. '62, D.V.M. '62, University of Minnesota. Major: Veterinary Pathology. Minor: Microbiology. Thesis: The Pathology and Pathogenesis of *Listeria monocytogenes* Infection in Piglets and Studies of Factors Influencing Host Resistance and Virulence of the Organism. Major Adviser: Prof. J. H. Sautter.

Peter William Chommie, Thief River Falls

B.A. '56, St. Olaf College; M.S.W. '61, Washington University. Major: Social Work. Minor: Sociology. Thesis: A Study of Differential Participation in an Indigenous Welfare Rights Organization as Related to Value Orientations and Patterns of Alienation. Major Adviser: Prof. L. N. Scott.

Rena Neumann Coen, Minneapolis

B.A. '46, Barnard College; M.A. '48, Yale University. Major: Art. Minor: History. Thesis: The Indian as the Noble Savage in Nineteenth Century American Art. Major Adviser: Prof. D. R. Torbert.

Leon Duncan Coleman, Chicago, Ill.

B.A. '48, Roosevelt College. Major: American Studies. Thesis: The Contribution of Carl Van Vechten to the Negro Renaissance: 1920-1930. Major Adviser: Prof. M. C. Turpie.

Loren William Crabtree, Fort Collins, Colo.

B.A. *summa cum laude* '61, M.A. '66, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Christian Colleges and the Chinese Revolution, 1840-1940: A Case Study in the Impact of the West. Major Adviser: Prof. Romeyn Taylor.

William Arthur Dando, Newell, Pa.

B.S. '59, California State College, Pennsylvania; M.A. '62, University of Minnesota. Major: Geography. Minor: History. Thesis: A Study of the Soviet New Lands Program 1954-1963. Major Adviser: Prof. J. R. Borchert.

Francis Paul Di Bella, West Roxbury, Mass.

B.A. '64, Brown University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Role of Disulfide Bonds in the Structure and Activity of Soybean Trypsin Inhibitor. Major Adviser: Prof. I. E. Liener.

Mohamed Samir Mostafa El-Antably, Tanta, United Arab Republic

B. of Pharm. '59, M. of Pharm. '65, Cairo University. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: Physiologically-Active Coumarin Derivatives. Major Adviser: Prof. T. O. Soine.

Erwin Farkas, New York, N.Y.

B.S. '55, Cornell University; M.S. '59, University of Minnesota. Major: Clinical Psychology. Minor: Neuropsychiatry. Thesis: Verbal Conditioning in Schizophrenics as a Function of Rated Social Behavior and Awareness-Facilitating Task Instructions. Major Adviser: Prof. S. R. Hathaway.

Malcolm McCollum Feeley, San Antonio, Tex.

B.A. '64, Austin College; M.A. '67, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: A Comparative Analysis of State Supreme Court Behavior. Major Adviser: Prof. Samuel Krislov.

Daniel Freeman, Rehogot, Israel

M.S. '53, Hebrew University. Major: Agricultural Economics. Minor: Economics. Thesis: Interregional Competition in Producing, Processing and Marketing Snap Beans. Major Adviser: Prof. S. A. Engene.

Brhane Gebrekidan, Addis Ababa, Ethiopia

B.S. with high distinction '61, Imperial Ethiopian College of Agricultural and Mechanical Arts; M.S. '64, University of Nebraska. Major: Agronomy. Minors: Genetics and Statistics. Thesis: Comparative Study of Three Methods of Testin, Combining Ability and Heterosis in Barley. Major Adviser: Prof. D. C. Rasmusson.

Viktor Gecas, Chicago, Ill.

B.A. '64, Beloit College; M.A. '67, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Parent-Child Interaction and Adolescent Self-Evaluation. Major Adviser: Prof. Reuben Hill.

Elsa Pollard Greene, Minneapolis

B.A. '61, Wellesley College; M.A. '65, University of Minnesota. Major: American Studies. Thesis: The Splintered Crown: A Study of Eve and Emily Dickinson. Major Adviser: Prof. M. C. Turpie.

Michael Lance Harvey, Fullerton,
Calif.

B.S. '61, Harvey Mudd College; M.A. '63, University of California, Los Angeles. Major: Theatre. Minor: Supporting Program. Thesis: The History of the Gripsholm Castle Theatre During the Reign of Gustav III of Sweden. Major Adviser: Prof. F. M. Whiting.

Frederic Lee Harwood, Minneapolis

B.A. '61, College of St. Thomas; M.A. '63, University of Minnesota. Major: Education. Minor: English. Thesis: A Comparison of an Individualized Remedial Reading Approach and a Programmed Remedial Reading Approach with Selected Junior High School Students. Major Adviser: Prof. S. B. Kegler.

Thomas Samuel Hyde, Minneapolis

B.S. '64, University of Washington. Major: Psychology. Minor: Educational Psychology. Thesis: Effects of Pavlovian Conditioned Stimuli on Discriminative Instrumental Baselines Responding. Major Adviser: Prof. M. A. Trapold.

Samiha Shaker Tadros Ibrahim,
Cairo, Egypt

B.S. '57, B.S. in Math. '59, Ain Shams University. Major: Mathematics. Minor: Fluid Mechanics. Thesis: Mathematical Connection Between Solutions of the Navier-Stokes System and the Prandtl Boundary Layer System. Major Adviser: Prof. P. C. Fife.

Donald Bruce Johnstone, Excelsior

B.S. magna cum laude '63, M.A. '64, Harvard University. Major: Education. Minor: Supporting Program. Thesis: The Erosion of Innovation in Higher Education. Major Adviser: Prof. R. G. Price.

Faiz Mohammad Khan, Multan,
Pakistan

B.S. '57, M.S. '59, University of the Panjab. Major: Biophysics. Thesis: Dose Distribution Problems in Cobalt Teletherapy. Major Adviser: Prof. M. K. Loken.

Francis Gerald Kline, Winnipeg,
Manitoba, Canada

Ph.B. '63, University of North Dakota. Major: Mass Communication. Minor: Political Science. Thesis: Urban-Suburban Family Structure and Media Use. Major Adviser: Prof. P. J. Tichenor.

Benjamin Parker Klotz, Jeffersonville,
Ind.

B.S. '59, Arizona State College, Tempe. Major: Economics. Minor: Statistics. Thesis: Scale and Substitution in Manufacturing Plants: A Study of Selected U.S. Industries. Major Adviser: Prof. J. G. Turnbull.

Charles Kenneth Knox, Jr., Minne-
apolis

B.S. '61, M.S. in Aero.Eng. '62, University of Minnesota. Major: Physiology. Minor: Mathematics. Thesis: An Analysis of the Discharges of Crustacean Statocyst Receptors and Their Responses to Sinusoidal Rotations. Major Adviser: Prof. Carlo Terzuolo.

Daniel Allen Kocchel, Waseca

B.S. in Pharm. '62, University of Minnesota. Major: Medicinal Chemistry. Minor: Biochemistry. Thesis: The Synthesis and Pharmacology of Some Modified Cardenolides and Phenoxyacetic Acids. Major Adviser: Prof. Ole Gisvold.

Edith Kolb, Zurich, Switzerland

M.D. '52, University of Zurich. Major: Biochemistry. Minor: Physiology. Thesis: Isolation and Characterization of a Testis Specific Lactate Dehydrogenase. Major Advisers: Profs. G. A. Fleisher and Frank Ungar.

Dennis LeRoy Larson, Wyoming

B.S. in Pharm. '61, University of Minnesota. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: The Absolute Stereochemistry and Analgesic Potency of α - and β -Prodine Enantiomers. Major Adviser: Prof. P. S. Portoghesi.

Maurice E. LeGault, Detroit Lakes

B.S. '57, M.A. '61, University of Minnesota. Major: Education. Minor: Music. Thesis: Descriptive Survey of the Choral Music Programs in Five Minneapolis High Schools During the Years 1925 to 1945. Major Adviser: Prof. A. F. Caswell.

Rudolph Alexander Henry Lorentz, Fayetteville, N.Y.

B.S. '64, Massachusetts Institute of Technology. Major: Mathematics. Minor: Physics. Thesis: Gentleness Versus Trace Class. Major Adviser: Prof. P. A. Rejto.

Raymond Alphonse Lucker, St. Paul

B.A. '48, M.A. '52, St. Paul Seminary. Major: Education. Minor: Educational Psychology. Thesis: Some Presuppositions of Released Time. Major Adviser: Prof. R. H. Beck.

Paul Andrew Magnuson, Minneapolis

B.A. *cum laude* '61, Brown University. Major: English. Minor: Philosophy. Thesis: The Problems of Personal Identity and Guilt in Coleridge's Poetry. Major Adviser: Prof. J. L. Scoggins.

Dennis Quentin McInerny, Minneapolis

B.A. '59, College of St. Thomas; M.A. '60, University of Notre Dame; M.A. '67, University of Minnesota. Major: American Studies. Thesis: Thomas Merton and Society: A Study of the Man and His Thought Against the Background of Contemporary American Culture. Major Adviser: Prof. M. C. Turpie.

Ernesto Moreno-Martinez, Zacatecas, Mexico

Ing.Agr. '61, Universidad de Coahuila; M.S. '64, Escuela Nacional de Agricultura. Major: Plant Pathology. Minor: Botany. Thesis: Studies of the Fungus Flora of Black and White Pepper and of the Factors Affecting Its Development. Major Adviser: Prof. C. M. Christensen.

Peter Briggs Moyle, Excelsior

B.A. '64, University of Minnesota; M.S. '65, Cornell University. Major: Zoology. Minor: Supporting Program. Thesis: Ecology of the Fishes of a Minnesota Lake, with Special Reference to the Cyprinidae. Major Adviser: Prof. J. C. Underhill.

Malcolm Eric Nairn, Perth, Western Australia, Australia

B.V.S. '60, University of Queensland; M.S. '67, University of Western Australia. Major: Veterinary Pathology. Minor: Microbiology. Thesis: A Study of Infectious Osteomyelitis and Synovitis of Turkeys. Major Adviser: Prof. Victor Perman.

Harold Decantillon Nathan, Minneapolis

B.A. '64, University of California, Santa Barbara; M.S. '68, University of Minnesota. Major: Geology. Minor: Supporting Program. Thesis: The Geology of a Portion of the Duluth Complex, Cook County. Major Adviser: Prof. W. C. Phinney.

Victor Carl Nelson, Montrose, Calif.

B.S. '64, Harvey Mudd College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Stereochemical Investigations of Certain Asymmetric Sulfoxides, Disulfides and Dithiols. Major Adviser: Prof. R. M. Dodson.

Willard Michele Overgaard, Boise, Idaho

B.A. '48, University of Oregon; M.A. '55, University of Wisconsin. Major: Political Science. Minor: Area Studies. Thesis: Legal Norms and Normative Bases for the Progressive Development of International Law, as Defined in Soviet Treaty Relations, 1945-1964. Major Adviser: Prof. C. H. McLaughlin.

Amreek Singh Paintal, Agra, India

B.E. '61, M.E. '62, University of Roorkee. Major: Civil Engineering. Minor: Mathematics. Thesis: The Probabilistic Characteristics of Bed Load Transport in Alluvial Channels. Major Adviser: Prof. A. G. Anderson.

Marvin Andrew Palecek, Winona

B.A. '53, Northwestern Schools; M.A. '54, University of Minnesota. Major: History. Minors: Political Science and Sociology. Thesis: The United Defense Fund: A Study of the Coordination of Voluntary Welfare Services During Wartime. Major Adviser: Prof. C. A. Chambers.

Yung Chul Park, Seoul, Korea

B.E. '62, Seoul National University; B.A. '63, Parsons College. Major: Economics. Minor: Supporting Program. Thesis: Asset Preferences and the Impact of Monetary and Fiscal Policy in the Static Models of Income Determination. Major Adviser: Prof. O. H. Brownlee.

Carl Magnus Peterson, Backoo, N.D.
B.S.M.E. '59, M.S. '61, University of North Dakota. Major: Environmental Health. Minor: Mechanical Engineering. Thesis: Aerosol and Meteorological Sampling of an Urban Atmosphere to Determine Particle Dispersion Characteristics. Major Adviser: Prof. H. J. Paulus.

James Terry Plunkett, Crofton-on-Hudson, N.Y.

B.A. *cum laude* '59, M.A. '60, University of Notre Dame. Major: English. Minor: Art History. Thesis: The Quest for a Father-God in the Fiction of Thomas Wolfe. Major Adviser: Prof. B. R. Bowron.

Stuart Harvey Rakoff, Manchester, N.H.

B.A. '65, Colby College; M.A. '67, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Longitudinal Analysis of Municipal Expenditures. Major Adviser: Prof. F. J. Sorauf.

Vernon Neil Rampton, Dauphin, Manitoba, Canada

B.S.E. '62, University of Manitoba. Major: Geology. Minor: Soil Science. Thesis: Pleistocene Geology of the Snag-Klutlan Area, Southwestern Yukon, Canada. Major Adviser: Prof. H. E. Wright, Jr.

Charles Peter Reinert, Tracy

B. of Phys. '61, M.S. '63, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Balloon Borne X-Ray Survey of the Cyprus Region. Major Adviser: Prof. W. R. Webber.

Robert Hoxie Rutford, Vermillion, S.D.

B.A. '54, M.A. '63, University of Minnesota. Major: Geology. Minor: Geography. Thesis: Geomorphology and Glacial Geology of the Ellsworth Mountains, Antarctica. Major Adviser: Prof. H. E. Wright, Jr.

David Clyde Saffell, Shadyside, Ohio

B.A. '63, Baldwin-Wallace College; M.A. '65, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Secretary General as Chief Executive of the United States. Major Adviser: Prof. R. E. Riggs.

Robert Ray Scales, Oklahoma City, Okla.

B.S. '58, Oklahoma Baptist University; M.A. in Theatre Arts '61, University of California, Los Angeles. Major: Theatre. Minor: Supporting Program. Thesis: Stage Lighting Theory, Equipment, and Practice in the United States from 1900 to 1935. Major Adviser: Prof. W. J. Josal.

Robert Earl Shoemaker, Baltimore, Md.

B.A. '61, Carleton College; M.S. '64, University of Minnesota. Major: Botany. Minor: Geology. Thesis: Pollen and Spores of the Judith River Formation (Campanian), Central Montana. Major Adviser: Prof. J. W. Hall.

Richard James Shumway, Northfield

B.S. '63, B.A. '63, University of Minnesota; M.A. '67, University of Kansas. Major: Education. Minor: Mathematics. Thesis: The Role of Counterexamples in the Development of the Mathematical Concepts of Eighth Grade Mathematics Students. Major Adviser: Prof. D. A. Johnson.

Eugene Louis Skok, Jr., St. Paul

B.S. with distinction '57, M.S.C.E. '59, University of Minnesota. Major: Civil Engineering. Minor: Geophysics. Thesis: Design of Flexible Pavements Based on Relationships of Performance Materials, Properties, and Surface Deflections Using Results of the AASHO Road Tests, Measurements on Minnesota Pavement Sections, and Elastic Theory. Major Adviser: Prof. M. S. Kersten.

Rodney Joseph Soukup, Montgomery

B.S. '61, M.S. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Hot Electron Transport in Vacuum Deposited Thin Film Emission Diodes. Major Adviser: Prof. D. E. Speliotis.

Daniel Adrian Spyker, Lima, Ohio

B.E.E. '66, General Motors Institute; M.S. '66, Purdue University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Application of Optimal Control Theory to Cardio-Circulatory Assist Devices. Major Adviser: Prof. E. B. Lee.

Harry Louis Summerfield, St. Paul
B.S. '62, B.A. '62, University of Minnesota;
M.A. '66, Washington University. Major:
Education. Minor: Political Science. Thesis:
The Neighborhood Based Politics of Education
in the Central City: An Analysis of Education
Politics in Four Socio-Economically Differentiated
Central City Neighborhoods. Major Ad-
viser: Prof. C. P. Hooker.

Clarke Walker Thomson, St. Catharines,
Ontario, Canada
B.A. '53, McMaster University; M.A. '58,
University of Colorado. Major: Geography.
Minor: Geology. Thesis: An Investigation of
the Net Amounts of Water Consumed Under
Conditions of Irrigated Agricultural and Me-
dium Density Residential Land Use in the
Vicinity of Metropolitan Denver. Major Ad-
viser: Prof. W. J. Barrett.

Doctor of Philosophy in Medicine (Internal)

Henry Edward Hynes, Temple, Tex.
M.B.B.Ch. '58, University College, Ireland.
Major: Medicine (Internal). Minor: Anatomy.
Thesis: Preparation of a Fibrinogen-Free Con-
centrate of Antihemophilic Factor (Factor
VIII). Major Adviser: Dr. C. A. Owen.

Doctor of Philosophy in Surgery

Vu Van Nguyen, Vietnam
M.D. '61, Faculty of Medicine, Saigon. Major:
Orthopedic Surgery. Minor: Pathology. The-
sis: The Response of Bone to Some Systemic
and Local Factors. Major Adviser: Dr. M. B.
Coventry.

Academic Costume

Academic costume — cap, gown, and sometimes hood — may be worn by anyone with a college degree, or by a candidate whose degree is soon to be awarded. Characteristics of costumes show their wearers' highest degrees and, often, the fields of major interest and the institutions by which the degrees are granted.

All bachelors' and masters' gowns are black and untrimmed. The bachelor's gown has a long pointed sleeve; the master's a closed sleeve with an arm slit. Doctors' gowns in the United States are usually black, with velvet front facings and sleeve crossbars (some universities, especially those abroad, prescribe colorful crimson, bright red, or other colors, set off by black or colored facings).

At commencements degree candidates wear the gowns for the degrees they are about to receive. Hoods are worn only by those who already possess degrees. Anyone who has a University of Minnesota degree may wear the Minnesota hood — black with a maroon chevron on gold. The length and shape of a hood identify the most advanced degree its wearer has earned; and the hood's velvet edging shows the degree's field: dark blue for Philosophy, light blue for Education, green for Medicine, lilac for Dentistry, orange for Engineering, russet for Forestry, drab for Business, olive green for Pharmacy, purple for Law, gray for Veterinary Medicine, golden yellow for Science, white for Arts and Letters.

Caps — usually tasseled mortarboards — show by tassel color the nature of degrees awarded at University of Minnesota commencements. Doctors' tassels may be black or gold; masters' are black. Bachelor's degree candidates at Minnesota, however, indicate their fields of study by their tassel colors (they are given here in the order they appear in the procession):

General College	crimson and white
College of Liberal Arts	white
University College	old gold and white
College of Biological Sciences	golden yellow
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

Gold shoulder fourrageres are worn by candidates who are honor students.

After receiving his degree, a holder may wear the academic costume on any appropriate occasion. But he always wears the black tassel, and omits the shoulder insignia. Appropriate academic costumes can be obtained anywhere that academic ceremonies are conducted.

President's Reception

JULY, 1969

- The members of the graduating class and their families and friends are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held on the Mall in front of Northrop Memorial Auditorium. In case of rain, the Mann Court of the Architecture Building will be used. Refreshments will be served.
- Those in the receiving line will be President and Mrs. Moos; Judge and Mrs. Wyzanski; Vice President and Mrs. Wenberg; Assistant Vice President and Mrs. Hogg, and Mr. and Mrs. Watson.
- During the reception, Mr. Forsberg will play a Carillon Concert.
- Assisting in the reception are students and staff members including those from the Senate Committee on University Functions, the Air Force ROTC, Gamma Sigma Sigma Social Service Sorority, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

August Commencement, 1969

FRIDAY AFTERNOON, AUGUST 22, 4:00 P.M.

UNIVERSITY OF MINNESOTA MALL

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

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

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gaaney, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable George W. Rauenhorst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Mr. James F. Hogg, 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 eighteenth 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 preparation is offered. Since its founding, the University has awarded more than 215,180 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 45,000 students annually on its Twin Cities, Duluth, Morris, Crookston, 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 six 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 Horticultural Research Center and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless experiments of vital importance to the future health and welfare of us all. Research 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 Minnesota 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 biomedical 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.

As it meets the needs of present students, the University must also make plans for those of the future. The 47,534 students who enrolled at the University at the beginning of the 1968-1969 academic year represented nearly one half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1967 LEGISLATURE granted the University \$110,893,275 for general operations and maintenance during the 1967-1969 biennium. In addition, the University received \$9,401,100 for University Hospitals; \$9,883,460 for special appropriations, including special extension and research activities; \$22,739,346 for new buildings, land, and the rehabilitation of existing buildings; and \$955,000 for the Crookston Technical College.

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 1967-1968 showed that the University's current income amounted to \$196,515,675.43. Of the total received, \$17,146,177.31 came from student tuition and fees; \$30,280,089.30 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts, and sales of bulletins and agricultural products; \$1,669,798.78 from intercollegiate athletics; \$27,376,182.44 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 \$9,847,348.82 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also, \$47,079,539.59 came from the federal government for instruction, research, and agricultural extension. The State provided \$63,116,539.19 or 32.1 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$21,486,114.

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, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations.

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 afternoon from 3:00 to 3:30 p.m. they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Charles W. Forsberg, M.A. Guests will be seated as they arrive and will remain seated until colors are presented.

PRELUDE CONCERT: From 3:30 to 4:00 p.m., Professor Heinrich R. Fleischer, Ph.D., University Organist, will play.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 4:00 p.m. Professor Harold B. Allen, Ph.D., Director, CLA Communications Program, as Mace-Bearer, will carry the Mace to the stage, heralding the arrival of the academic procession of the candidates for degrees. Marshal Allen will present the Mace to the audience and graduates. When all those marching have taken their seats, he will put the Mace into its cradle to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

Solemn MarchMendelssohn

ON THE STAGE: Seated on the stage from left to right are Marshal Allen; Professor Warren S. Loud, Ph.D., Institute of Technology, Marshal; Assistant Recorder Charles F. Liesenfelt, M.A., Admissions and Records; The Honorable John A. Yngve, Regent of the University of Minnesota; The Reverend G. Russell Hatton, M.Th., Chaplain and Director, University Episcopal Center; Dean Bryce L. Crawford, Jr., Ph.D., Graduate School; Associate Dean Norman W. Moen, Ph.D., General College; Associate Dean Lloyd H. Lofquist, Ph.D., College of Liberal Arts; Dean Alfred L. Vaughan, Ph.D., University College; Director Louise A. Stedman, Ph.D., Home Economics, College of Agriculture, Forestry, and Home Economics; Dean Robert B. Howard, M.D., College of Medical Sciences; The Honorable Neil C. Sherburne, Regent of the University of Minnesota; Commissioner Duane J. Mattheis, M.A., Minnesota Department of Education, Commencement speaker; Vice President William G. Shepherd, Ph.D., Academic Administration, presiding; Vice President Paul H. Cashman, Ph.D., Student Affairs; The Honorable George W. Rauenhurst, Regent of the University of Minnesota; Professor Edwin L. Haislet, Ed.D., Executive Director of Minnesota Alumni Association; Colonel Frederick J. Adelman, U.S.A.F., Professor, Aerospace Studies; Major Charles R. Chase, U.S.A., Assistant Professor, Military Science; Major James D. Shubert, U.S.N., Assistant Professor, Naval Science; Assistant Dean Jack Merwin, Ed.D., College of Education; Associate Dean Richard A. Swalin, Ph.D., Institute of Technology; Dean Paul V. Grambsch, D.B.S., School of Business Administration; Professor Samuel Kirkwood, Ph.D., College of Biological Sciences; Professor Arnold F. Caswell, Ph.D., College of Liberal Arts, soloist; Professor Harold B. Swanson, Ph.D.,

Director, Information and Agricultural Journalism, Marshal; and Professor James Bolton, Ph.D., College of Liberal Arts, Marshal.

PRESENTATION OF COLORS: As the Color Guard, made up of the University Army, Navy, and Air Force ROTC Cadets and Midshipmen, marches up the Mall, the audience will rise and will remain standing for the National Anthem and for the Invocation. Professor Fleischer will play.

THE NATIONAL ANTHEM: The audience and Professor Caswell:

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

INVOCATION: Father Hatton.

SPEAKING FOR THE UNIVERSITY: Vice President Shepherd.

COMMENCEMENT ADDRESS: Commissioner Mattheis.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: Vice President Shepherd will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his hood, he will be presented individually by Dean Crawford.

CONFERRING OF OTHER GRADUATE SCHOOL DEGREES: Vice President Shepherd will confer the degrees upon the graduates. Dean Crawford will present the candidates to Vice President Shepherd.

CONFERRING OF ROTC CERTIFICATES: Vice President Shepherd will introduce Major Chase, Major Shubert, and Colonel Adelman, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by Vice President Cashman.

PRESENTATION OF DIPLOMAS: Vice President Cashman will introduce the college deans or their representatives who will present the candidates for diplomas. (Candidates from the colleges will pass across the stage to receive their diplomas.) Vice President Cashman will present Assistant Dean Moen for General College, Associate Dean Lofquist for the College of Liberal Arts, Dean Vaughan for University College, Professor Stedman for the College of Agriculture, Forestry, and Home Economics, Dean Howard for the College of Medical Sciences, Assistant Dean Merwin for the College of Education,

Associate Dean Swalin for the Institute of Technology, Dean Grambsch for the School of Business Administration, and Professor Kirkwood for the College of Biological Sciences.

SPEAKING FOR THE UNIVERSITY OF MINNESOTA ALUMNI ASSOCIATION: Mr. Haislet.

HAIL MINNESOTA: The University's Alma Mater sung by the audience and Professor Caswell.

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

RECESSIONAL: Professor Fleischer will play:

Donan Toccata *Bach*

THE AUDIENCE is requested to remain seated until those in academic costume have marched out.

(Immediately following these exercises, all members of the audience are invited to attend the President's Reception, which is described on the back cover of this program.)

Candidates for Graduation

including Candidates for Commissions

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. Commissions will be presented to those listed under the Departments of Military Science, Naval Science, and Aerospace Studies, and to such others as may meet the requirements for the Reserve Officers in the Armed Services.

GRADUATE SCHOOL

Doctor of Philosophy

Mohammad Ezzat Abdelmawgood,
Mallawi, Egypt

B.A. with honors '60, M.A. '63, Cairo University. Major: Education. Minor: Curriculum and Instruction. Thesis: Current and Proposed Programs for Preparing Teachers of Secondary School English as a Foreign Language in the United Arab Republic. Major Adviser: Prof. G. M. A. Mork.

Dennis Richard Anderson, St. Paul

B.A. '64, Southern Illinois University. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Infrared Studies on Polyatomic Molecules. Major Adviser: Prof. John Overend.

Wylla Decker Barsness, Boise, Idaho

B.A. '49, William Jewell College; M.S. in A.S. '60, Montana State College. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Study of Classification as Observed in a Miniature Linguistic System. Major Adviser: Prof. J. H. Flavell.

Abraham Zisha Bass, Milwaukee, Wis.

B.A. '62, University of Wisconsin; M.S. '63, Columbia University. Major: Mass Communication. Minor: Supporting Program. Thesis: Public Information Broadcasting by the United Nations: History, Politics and the Flow of the News. Major Advisers: Profs. R. E. Carter, Jr., and E. Emery.

Jay Donald Bates, Crystal Falls, Mich.

B.S. '57, Michigan State University; M.A. '65, Northern Michigan University. Major: Entomology. Minor: Botany. Thesis: Some Factors Influencing the Development of the Corn Leaf Aphid, *Rhopalosiphum maidis* (Fitch), as a Pest of Barley *Hordeum Vulgare L.*, in Minnesota. Major Adviser: Prof. A. G. Peterson.

Raphael Jacob Becvar, Fort Atkinson,
Iowa

B.A. '54, Loras College; M.S. '64, University of Omaha. Major: Educational Psychology. Minor: Education. Thesis: Job Satisfaction of First-Year Teachers: A Study of Discrepancies Between Expectations and Experiences. Major Adviser: Prof. W. H. Edson.

Alberto Benvenuti, Florence, Italy

Laurea '64, Università Degli Studi, Florence. Major: Physics. Minor: Mathematics. Thesis: π -d Interactions at 2.3 GeV/c. Major Adviser: Prof. H. W. Courant.

Roger Anthony Bird, Montreal,
Quebec, Canada

B.A. '61, Carleton College; M.A. '63, University of Minnesota. Major: Comparative Literature. Minor: History. Thesis: Dryden's Medieval Translations. Major Adviser: Prof. S. M. Monk.

Robert Emmett Boyd, Richfield

B.A. '56, Hamline University; M.A. '64, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Counselor Interests as a Factor in Counselor Effectiveness. Major Adviser: Prof. W. W. Tennyson.

George Henry Bridgman, Edina

B.A. *summa cum laude* '61, Hamline University; M.A. '64, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Some Results on the Fourier-Wiener Transform. Major Adviser: Prof. R. H. Cameron.

Joseph Edward Brogunier, Hagerstown, Md.

B.A. '58, Brown University; M.A. '64, Purdue University. Major: English. Minor: Linguistics. Thesis: The Jefferson Urn: Faulkner's Literary Sources and Influences. Major Adviser: Prof. R. J. Foster.

Donald Ian Brownstein, New York, N.Y.

B.A. '65, Queens College. Major: Philosophy. Minor: Supporting Program. Thesis: Objects and Their Qualities. Major Adviser: Prof. H. I. Hochberg.

John Alva Bull III, Ellensburg, Wash.

B.A. '64, M.S. '65, Central Washington State College. Major: Psychology. Minor: Supporting Program. Thesis: The Influence Appetative Pavlovian CS_2 on the Performance of a Discriminated Instrumental Avoidance Response. Major Adviser: Prof. J. B. Overmier.

Joe Edward Collier, Shenandoah, Iowa

B.S. in Ed. '52, Northwest Missouri State Teachers College; M.S. '63, Iowa State College. Major: Entomology. Minor: Botany. Thesis: A Taxonomic Revision of the Genus *Optioservis* (Coleoptera: Elmidae) in the Nearctic Region. Major Adviser: Prof. E. F. Cook.

Larry Lee Collins, Taylors Falls

B.S. '62, B.A. '62, M.A. '64, University of Minnesota. Major: Spanish. Minor: Linguistics. Thesis: An "Unknown" Manuscript of the *Cronica de Veinte Reyes*. Major Adviser: Prof. W. T. Pattison.

Frank Fowler Conlon, Park Ridge, Ill.

B.A. '60, Northwestern University; M.A. '63, University of Minnesota. Major: History. Minor: Area Studies. Thesis: The Emergence of the Saraswat Brahmins, 1830-1930: A Study of Caste and Social Change in Modern India. Major Adviser: Prof. David Kopf.

Ivan Copelowitz, Johannesburg, South Africa

B.S. '63, University of Witwatersrand. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Influence of Large External Gradients on Catalyst Particle Behavior. Major Adviser: Prof. Rutherford Aris.

Arnold Martin Dashcfsky, Philadelphia, Pa.

B.A. '64, M.A. '66, Temple University. Major: Sociology. Minor: Supporting Program. Thesis: Social Interaction and Jewish Self-Conception: A Two Generation Analysis in the St. Paul Community. Major Adviser: Prof. D. A. Martindale.

Joseph Francis Doherty, Ridgewood, N.J.

B.S. *cum laude* '64, Boston College. Major: American Studies. Thesis: The "Desolation of Solitude" Studies in American Solipsistic Loneliness During the First Half of the Nineteenth Century. Major Advisers: Profs. M. C. Turpie and D. W. Noble.

Thomas William Eder, Freeport, Ill.

B.S.Chem.E. '65, University of Illinois. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Kinetics of Methylene Radical Reactions. Major Adviser: Prof. R. W. Carr, Jr.

Frank Creighton Emerson, Orange, Conn.

B.S. '58, Davidson College; M.B.A. '62, New York University. Major: Economics. Minor: Business Administration. Thesis: The Determinants of Residential Value with Special Reference to the Effects of Aircraft Nuisance and Other Environmental Features. Major Adviser: Prof. H. D. Mohring.

Dennis James Fallon, Redfield, S.D.

B.S. '62, Bemidji State College; M.A. '64, University of Minnesota. Major: Education. Minor: History and Philosophy of Education. Thesis: An Evaluation of Selected Aspects of Physical Education Doctorates. Major Adviser: Prof. R. E. McAdam.

James Henry Flom, St. Cloud

B.S. with distinction '54, M.A. '58, University of Minnesota. Major: Education. Minor: Music. Thesis: An Investigation of Growth in Musical Facts and Concepts, in Musical Discrimination, and in Vocal Performance Proficiency as a Result of Senior High School Vocal Music Experiences. Major Adviser: Prof. A. F. Caswell.

John Calvin Fout, Omaha, Neb.

B.A. '63, M.A. '64, University of Omaha. Major: History. Minor: German. Thesis: Protestant Christian Socialism in Germany, 1848-1896. Major Adviser: Prof. O. P. Pflanze.

Arthur John Francia, Monessen, Pa.

B.S. '63, M.S. '65, Pennsylvania State University. Major: Business Administration. Minor: Supporting Program. Thesis: The Changing Professional Liability of the CPA and Insuring Against This Liability. Major Adviser: Prof. J. C. Gray.

Robert Joseph Frank, Minneapolis

B.A. cum laude '62, St. John's University; M.A. '68, University of Minnesota. Major: English. Minor: Latin. Thesis: The Balanced Art of Charles Lamb: A Study of the Essays of Elia. Major Adviser: Prof. J. L. Scoggins.

Adelaide Jean Fuhrman, Logan, Utah

B.S. '56, Utah State University; M.A. '65, Brigham Young University. Major: Educational Psychology. Minor: Supporting Field. Thesis: The Relations of Susceptibility to Persuasion and Expectation on the Outcomes of a Counseling Experience. Major Adviser: Prof. C. A. Parker.

Osmund Sundet Gilbertson, Spring Grove

B.S. '58, M.A. '66, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Mobility of Agricultural Manpower: Its Vocational and Educational Correlates. Major Adviser: Prof. R. P. Marvin.

John Irving Gmitro, Minneapolis

B.S. with high distinction '59, University of Minnesota; M.S. '60, University of California. Major: Chemical Engineering. Minor: Mathematics. Thesis: Concentration Patterns Generated by Reaction and Diffusion. Major Adviser: Prof. L. E. Scriven.

Ira Barry Goldberg, Bayside, N.Y.

B.A. '64, Adelphi University. Major: Physical Chemistry. Minor: Analytical Chemistry. Thesis: Electron Spin Resonance Studies of Ion Pairing. Major Adviser: Prof. J. R. Bolton.

Robert Goodwill, Fredonia, N.Y.

B.S. in Ed. '63, State University of New York. Major: Genetics. Minor: Supporting Program. Thesis: Heterozygosity in Inbred Lines of *Tribolium Castaneum*. Major Adviser: Prof. F. D. Enfield.

Anna Choder Hampton, Tel Aviv, Israel

B.A. '63, Hebrew University. Major: Psychology. Minor: Psychiatry. Thesis: Longitudinal Study of Personality of Children Who Become Delinquents, Using the Personality Inventory for Children (PIC). Major Adviser: Prof. R. D. Wirt.

Larry Lee Hatfield, Ortonville

B.S. '62, University of Minnesota; M.A. '66, Western Michigan University. Major: Education. Minor: Educational Psychology. Thesis: Computer-Assisted Mathematics: An Investigation of the Computer Used as a Tool to Learn Mathematics. Major Adviser: Prof. D. A. Johnson.

Larry Ray Hawf, Mount Carmel, Ill.

B.A. '63, M.S. '65, Southern Illinois University. Major: Plant Physiology. Minor: Botany. Thesis: Some Factors Involved in the Herbicidal Activity of 2,4-D and 2,4-DB. Major Adviser: Prof. Richard Behrens.

Walter James Hendricks, St. Paul

B.S. '56, Pennsylvania State University; M.S. '58, Massachusetts Institute of Technology. Major: Mathematics. Minor: Supporting Program. Thesis: Processes with Stable Components. Major Adviser: Prof. W. E. Pruitt.

David Ellis Highnam, Mount Vernon, Wash.

B.A. magna cum laude '63, Western Washington State College; M.A. '65, University of Minnesota. Major: French. Minor: Supporting Program. Thesis: In Defense of Crebillon fils. Major Adviser: Prof. J. L. Waldauer.

Joseph Marshall Horn, Stillwater, Okla.

B.S. '63, Oklahoma State University of Agriculture and Applied Science; M.A. '67, University of Minnesota. Major: Psychology. Minor: Genetics. Thesis: The Effects of Isolation and the Prior Occurrence of Fighting upon the Expression of Aggression in Mice in an Instrumental Learning Situation. Major Adviser: Prof. Auke Tellegen.

Gordon Stanley Howell, Jr., St. Paul
B.S. '63, M.S. '65, Mississippi State University. Major: Horticulture. Minor: Plant Physiology. Thesis: The Environmental Control of Cold Hardiness in Haralson Apple. Major Adviser: Prof. C. J. Weiser.

Jeremy Michael Hughes, Lansing,
Mich.

B.A. '62, Our Lady of Carey Seminary-College; M.A. '65, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of the Relationships Between Attitudes Toward the Senior High School Program of Independent School District #12, Circle Pines, Minnesota, and the Socio-economic Status of the Respondents. Major Adviser: Prof. D. E. Davis.

Mark Hutter, Brooklyn, N.Y.

B.A. '63, M.A. '66, Brooklyn College. Major: Sociology. Minor: Supporting Program. Thesis: Campus Housing and Identity of Married Students. Major Adviser: Prof. Reuben Hill.

Carl Roger Jessen, St. Paul

B.S. '54, D.V.M. '56, University of Minnesota. Major: Genetics. Minor: Radiology. Thesis: Hereditary Aspects of Canine Hip Dysplasia in the German Shepherd and Vizsla Breeds. Major Adviser: Prof. F. A. Spurrell.

Thomas Matyas Kando, Amsterdam,
The Netherlands

'65, University of Amsterdam; M.A. '67, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: The Social Consequences of Sex Achievement: A Study of the Social Relations of Twenty-six Trans-sexuals After Their Conversion Operation. Major Adviser: Prof. D. A. Martindale.

Theodore Jay Kaul, Owatonna

B.S. '58, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Effects of the Client's Suggestibility and Expectation for Improvement in the Process of Behavior Change. Major Adviser: Prof. C. A. Parker.

Franklyn Sonny Kessel, Cape Town,
South Africa

B.A. '64, B.A. with honors '65, M.A. '67, University of Cape Town. Major: Psychology. Minor: Child Psychology. Thesis: The Development of Children's Comprehension from 6 to 12. Major Adviser: Prof. J. J. Jenkins.

Vasant Sadashio Rao Khokle, Bilaspur,
India

B.A. '56, M.A. '60, Sangor University. Major: Linguistics. Minor: Anthropology. Thesis: Two Models of Phonological Distinctive Features—An Evaluation as Applied to Marathi. Major Adviser: Prof. Walter Lehn.

Daniel Carl Kieselhorst, Minneapolis

B.A. '60, M.A. '64, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: Unilateral Disarmament: An Analysis and Justification. Major Adviser: Prof. M. Q. Sibley.

Yvonne Mathews Klein, New York,
N.Y.

B.A. magna cum laude '56, Queens College; M.A. '58, University of Minnesota. Major: English. Minor: Art History. Thesis: The Politics of the American Military Novel. Major Adviser: Prof. M. C. Turpie.

John Edward Kralewski, Denver, Colo.

B.S. in Phar. '56, M.H.A. '62, University of Minnesota. Major: Hospital Administration. Minor: Industrial Relations. Thesis: The Professional Nurse in the Large-Scale Organization: A Study of Conflict Resolution. Major Adviser: Prof. V. E. Weckwerth.

Evelyn Ruth Larson, Moorhead

B.S. '41, North Dakota State University; M.S. Ed. '52, University of North Dakota. Major: Education. Minor: Business Administration. Thesis: A Comparison of Personal Finance Understandings of High School Students. Major Adviser: Prof. R. G. Price.

Richard Glen Lester, Minneapolis

B.S. '42, Illinois Wesleyan University. Major: Physiology. Minor: Biochemistry. Thesis: An In Vitro Study of Monosaccharide Metabolism in the Jejunal Mucosa of the Dog. Major Adviser: Prof. E. D. Grim.

Henry Soehlke Liers, Bellmore, N.Y.

B.S. '62, State University of New York; M.S. '67, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Elastic Scattering of 39.6 MeV Protons by the Nickel Isotopes. Major Adviser: Prof. C. H. Poppe.

William Frank Liljemark, Minneapolis

B.S. in Dent. '63, University of Minnesota. Major: Microbiology. Minor: Dentistry. Thesis: Morphology and Physiology of the Intracellular Development of *Bacillus Subtilis* Bacteriophage ϕ 25. Major Adviser: Prof. D. L. Anderson.

Peter Buller Little, Rosemount

D.V.M. '62, Ontario Veterinary College; M.S. '66, University of Minnesota. Major: Veterinary Pathology. Minor: Biochemistry. Thesis: Biochemical and Pathologic Studies of Thiamin Deficiency and Polioencephalomalacia of Cattle. Major Adviser: Prof. Victor Perman.

Russell D. Madsen, Lake Bronson

B.S. '50, M.A. '58, University of Minnesota. Major: Curriculum and Instruction. Minor: Business Administration. Thesis: The Effect of the Use of Overhead Transparencies on Achievement in High School Bookkeeping. Major Adviser: Prof. R. G. Price.

Marland LeRoy Madson, Northfield

B.A. '52, St. Olaf College; M.A. '53, University of Minnesota. Major: Education. Minor: Biology. Thesis: Methods, Including CCTV, of Presenting Introductory Biology: Their "Affect" on College Freshmen. Major Adviser: Prof. C. H. Boeck.

Garrett Kile Mandeville, Excelsior

B.A. '58, M.A. '63, University of Minnesota. Major: Educational Psychology. Minor: Statistics. Thesis: A Monte Carlo Investigation of the Adequacy of Standard Analysis of Variance Test Procedures for Dependent Binary Variates. Major Adviser: Prof. R. O. Collier, Jr.

Pat F. Mentone, Chicago, Ill.

B.S. *magna cum laude* '64, College of St. Thomas. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Cobalt and Chromium Complexes as Ligands for the Rare Earths. Major Adviser: Prof. Z Z. Hugus.

William Ellsworth Millard, Afton, Wis.

B.S. '62, M.S. '65, University of Wisconsin. Major: Geography. Minor: Supporting Program. Thesis: The Sale of Culture. Major Adviser: Prof. E. C. Mather.

Gary Arthur Mohrenweiser, Onamia

B.S. '64, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Markov-Chain Model for Projecting School Enrollments. Major Adviser: Prof. D. E. Davis.

John James Mulryan, New York, N.Y.

B.A. '61, Iona College; M.A. '63, Marquette University. Major: English. Minor: Latin. Thesis: *Natalis Comes Mythologiae*: Its Place in the Renaissance Mythological Tradition and Its Impact Upon English Renaissance Literature. Major Adviser: Prof. G. W. O'Brien.

Patricia Durey Murphy, Minneapolis

B.S. '52, Iowa State College; M.A. '67, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Conceptual Systems and Teaching Styles. Major Adviser: Prof. M. M. Brown.

Bruce Mussell, Ottawa, Ontario, Canada

B.A. '62, Carleton College, Canada; M.A. '65, Stanford University. Major: Educational Psychology. Minor: Psychology. Thesis: The Behavior of Subject-Matter Informants in Constrained Descriptions of Their Subject-Matter. Major Adviser: Prof. Wells Hively.

Edwin C. Myers, Lancaster, Pa.

B.S. '64, Ursinus College. Major: Educational Psychology. Minor: Psychology. Thesis: Controlling Errors in Matching-to-Sample. Major Adviser: Prof. Wells Hively.

Robert Dale Nelson, Amery, Wis.

B.S. '62, Wisconsin State College. Major: Genetics. Minor: Supporting Program. Thesis: Electrophoretic Analysis of Vertebrate Histones: Species and Tissue Specificity of Very Lysine-rich and Serine-rich Histones. Major Adviser: Prof. S. C. Reed.

Douglas James Ness, Owatonna

B.S. with high distinction '64, M.S. '65, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Domains of Attraction of Monofrequent Oscillations in Weakly-Nonlinear Dynamical Systems. Major Adviser: Prof. P. R. Sethna.

Ethel Aiko Oda, Kanai, Hawaii

B.Ed. '58, M.Ed. '64, University of Hawaii. Major: Educational Psychology. Minor: Supporting Program. Thesis: Value Commitments and Attitudinal Change in Therapeutic Encounters. Major Adviser: Prof. C. A. Parker.

Yoshihiko Otani, Osaka, Japan

B.Econ. '60, Kobe University. Major: Economics. Minors: Mathematics and Statistics. Thesis: Theory of International Trade and Properties of the Production Possibility Set. Major Adviser: Prof. J. S. Chipman.

Willis Lysle Owen, Jr., Big Spring, Tex.

B.A. '62, William Marsh Rice University; M.A. '64, Indiana University. Major: Mathematics. Minor: Statistics. Thesis: Optimal Stopping Rules When the Variance Is Infinite. Major Adviser: Prof. W. E. Pruitt.

William George Parkos, Faribault

B.S. '61, Mankato State College; M.S. '66, University of Minnesota. Major: Environmental Health. Minor: Entomology. Thesis: Productivity Studies of Lakes Superior, Michigan, Huron and Erie Utilizing the Carbon Fourteen Technique. Major Adviser: Prof. T. A. Olson.

**Sheron Jeanenne Dailey Pattison,
Dallas, Tex.**

B.A. *cum laude* '61, Wake Forest College; M.A. '63, University of Minnesota. Major: Speech-Communication. Minor: English. Thesis: An Analysis of Readers Theatre Based on Selected Theatre Theory with Special Emphasis on Characterization. Major Adviser: Prof. D. W. Thompson.

Carl Hubert Reidel, Chicago, Ill.

B.S. '58, University of Minnesota; M.P.A. '64, Harvard University. Major: Forestry. Minor: Supporting Program. Thesis: A Study of the Interorganizational Relationships of State and Federal Natural Resource Agencies in Southeastern Minnesota. Major Adviser: Prof. F. D. Irving.

Jerry Bruce Rumley, Denver, Colo.

B.A. '55, University of Denver; M.A. '59, University of Minnesota. Major: Theatre. Minor: Art History. Thesis: An Analysis of the Adaptation of Selected Plays into Musical Form from 1943 to 1963. Major Adviser: Prof. A. H. Ballet.

Theodore Caskey Russell, St. Paul

B.S. '30, Kirksville State Teachers College; M.Mus. '35, Northwestern University. Major: Music. Minor: Music Education. Thesis: Theodore Thomas: His Role in the Development of Musical Culture in the United States, 1835-1905. Major Adviser: Prof. Johannes Riedel.

**Herman Clarence Rustad, Vermillion,
S.D.**

B.S. '51, St. Cloud State Teachers College; M.A. '65, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Relationships Between School Board Member-Administrator Perceptions of Educational Quality, as Measured by the Educational Characteristics Criterion (ECC) and Size Factor in South Dakota Public Schools. Major Adviser: Prof. O. E. Domian.

**Henry Preston Sanderson, Ottawa,
Ontario, Canada**

B.S. '49, Dalhousie University; M.P.H. '62, University of Minnesota. Major: Environmental Health. Minor: Biometry. Thesis: Analysis of Pollutants Emitted from Asphalt Plants Using Gas Chromatographic Techniques. Major Adviser: Prof. H. J. Paulus.

**Richard Frank Sauers, Philadelphia,
Pa.**

B.A. *cum laude* '65, LaSalle College. Major: Organic Chemistry. Minors: Biochemistry and Physical Chemistry. Thesis: Sulfur Monoxide: Reaction with Dienes. Major Adviser: Prof. R. M. Dodson.

**LaVell Eugene Saunders, Tremonton,
Utah**

B.S. '62, M.S. '64, Utah State University. Major: Sociology. Minor: Supporting Program. Thesis: Social Class and the Postparental Perspective. Major Adviser: Prof. Joan Aldous.

Stephen Lewis Schensul, Chicago, Ill.

B.A. '63, Hunter College of the City of New York; M.A. '65, University of Minnesota. Major: Anthropology. Minor: Supporting Program. Thesis: Marginal Rural Peoples: Behavior and Cognitive Models Among Northern Minnesotans and Western Ugandans. Major Adviser: Prof. P. J. Pelto.

David Jacob Schoon, Luverne

B. of Phys. with distinction '65, University of Minnesota. Major: Chemical Engineering. Minor: Electrical Engineering. Thesis: The Automated Counting of Microbial Colonies. Major Adviser: Prof. H. M. Tsuchiya.

**Howard Martin Shapiro, Barrington,
N.H.**

B.A. '64, Brandeis University; M.A. '66, Boston University. Major: Sociology. Minor: Supporting Program. Thesis: Marginality, Familial Interaction, and Intellectuality: The Shaping of Perspective in a Jewish Community. Major Adviser: Prof. D. A. Martindale.

**Mohammed Tyebji Shipchandler,
Bombay, India**

B.S. '62, University of Bombay. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Synthetic and Structural Studies on Naturally Occurring Coumarins. Major Adviser: Prof. T. O. Seine.

Kerwin Larry Siewert, Zumbro Falls

B.S. with high distinction '65, M.S. '67, University of Minnesota. Major: Nutrition. Minor: Supporting Program. Thesis: Role of Pregastric Esterase in Fat Utilization of Young Ruminants. Major Advisers: Profs. R. J. Sirmy and D. E. Otterby.

Henry Allen Snyder, St. Paul

B.S. '53, M.A. '65, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Relationships of Selected Interpersonal and Professional Characteristics of Administrative Interns and Their Supervisors to the Satisfaction of the Internship Experience. Major Adviser: Prof. V. D. Mueller.

Kevin Charles Sontheimer, Pittsburgh, Pa.

B.S. '60, University of Pittsburgh; M.A. '63, Pennsylvania State University. Major: Economics. Minor: Supporting Program. Thesis: On the Existence of Equilibrium in a Model of International Trade with Fixed Tariff-Subsidy Distortions. Major Adviser: Prof. H. F. Sonnenschein.

Richard Warren Stedtfeld, Glasgow, Mont.

B.A. in Ed. '60, Pacific Lutheran College; M.A. '67, San Diego State College. Major: Education. Minor: Educational Psychology. Thesis: Performance Level Effectiveness of Training Prospective Teachers in Interpersonal Skills. Major Adviser: Prof. G. M. A. Mork.

Ray Marvin Stensvad, Two Harbors

B.A. '36, St. Olaf College; M.A. '39, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Factors Associated with the Salary of the Superintendent of Schools. Major Adviser: Prof. C. P. Hooker.

Donald Gregory Stitts, Rochester

B.A. '52, University of Maine; M.S. '65, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Pricing Efficiency in Selected Federal Order Milk Markets. Major Adviser: Prof. E. F. Koller.

Gary John Stroebel, Mapleton

B.S. with high distinction '65, M.S. '67, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Stability of Elastic Plates Via Liapounov's Direct Method. Major Adviser: Prof. W. H. Warner.

Jean Phyllis Swanson, Hallock

B.A. *cum laude* '41, Macalester College; M. Mus. '46, Northwestern University. Major: Music. Minor: Music Education. Thesis: The Use of the Organ in the Church of England (1660-1800). Major Adviser: Prof. Johannes Riedel.

Robert Swidinsky, Vancouver, British Columbia, Canada

B. of Comm. with honors '58, M.A. '63, University of Manitoba. Major: Economics. Minor: Statistics. Thesis: Occupational Unemployment Rate Differentials Over the Business Cycle. Major Adviser: Prof. N. J. Simler.

Ming Liang Tarng, Chung-Li, Taiwan

B.S.Eng. '63, National Taiwan University; M.S.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Fluctuation in P-N Junctions at High Injection Levels. Major Adviser: Prof. K. M. van Vliet.

Thomas Harvey Thelen, Albany

B.A. '64, St. John's University. Major: Genetics. Minor: Supporting Program. Thesis: Virus Induced Mutagenesis, Tests in *Gallus Domesticus*. Major Adviser: Prof. S. C. Reed.

David Hardy Warren, Minneapolis

B.A. '65, Yale University. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Study of Internodality Interactions in Spatial Localization. Major Adviser: Prof. H. S. Pick.

John Bruce Wasson, Battle Lake

B.S. '59, M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Influence of Time Limits on Reading Comprehension Tests Among Fifth Grade Pupils of Differing Abilities. Major Adviser: Prof. B. E. Balow.

Walter B. Weimer, Washington, Pa.

B.S. *magna cum laude* '64, University of Pittsburgh. Major: Psychology. Minor: Supporting Program. Thesis: The Syntax of Action: Prolegomena to the Transformational Analysis of Behavior. Major Adviser: Prof. M. A. Trapold.

Clyde Hawthorne Wilkes, Jr., Wayzata

D.D.S. '58, Emory University. Major: Physiology. Minor: Dentistry. Thesis: Studies on Bone Blood Flow, With Particular Reference to Marrow Pressure. Major Adviser: Prof. M. B. Visscher.

Edgar Benjamin Williams, St. Paul

B.S. '40, St. Cloud State Teachers College; M.A. '52, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Research Study of the Educational Achievement of Children Using a Visual Linguistics Reading Program as Compared with the Children Using a Traditional Developmental Reading Series at the First Grade Level. Major Adviser: Prof. O. E. Domian.

Pamela Wormington, Pittsburgh, Pa.

B.S. in Chem. '65, Carnegie Institute of Technology. Major: Physical Chemistry. Minor: Physics. Thesis: Electron Spin Resonance Studies of Time Dependent Phenomena. Major Adviser: Prof. J. R. Bolton.

Richard Walter Wunderlich, New York, N.Y.

B.A. '59, New York University; M.S. '66, Purdue University. Major: Sociology. Minor: Philosophy. Thesis: Institutional Context and the Scientific Tradition. Major Adviser: Prof. D. A. Martindale.

Carl Duane Zimmerman, Minneapolis

B.A. '57, Emmanuel Missionary College; M.S. '60, University of Minnesota. Major: Computer and Information Science. Minor: Supporting Program. Thesis: Extended Fortran Algebraic Manipulator with Applications to Linear Problems of Physics. Major Adviser: Prof. D. S. Frankowski.

Doctor of Philosophy in Surgery

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B.S. '62, University of Utah. Major: Political Science. Minor: Anthropology. Thesis: Elite Theory from Mosca to Mills. Major Adviser: Prof. Edwin Fogelman.

Cheryl Marie Sinkula, Fargo, N.D.

B.A. '68, North Dakota State University of Agriculture and Applied Science. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

Paul Miles Sloan, St. Paul

B.A. '63, Bethel College. Major: Sociology. Minor: Philosophy. Thesis: Comparison of Roles: A Case Study in Alcoholism. Major Adviser: Prof. D. A. Martindale.

Karen Marie Smith, St. Louis Park

B.A. '65, Mankato State College. Field of Concentration: Recreation and Park Administration. Major Adviser: Prof. F. M. Chapman.

Carol Jean Soderberg, Duluth

B.S. *magna cum laude* '60, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

Norman Gene Staska, Owatonna

B.S. '57, University of Minnesota. Field of Concentration: Music Education. Major Adviser: Prof. E. M. Turrentine.

Mary Catherine Steitz, Wauwatosa, Wis.

B.S. '65, University of Wisconsin. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. H. Edson.

James Lee Sturm, Minneapolis

B.S. '61, University of Minnesota. Field of Concentration: Music Education. Major Adviser: Prof. R. L. Borg.

Gerilyn G. Tandberg, Leeds, N.D.

B.S. '63, Minot State Teachers College. Field of Concentration: Theatre. Major Adviser: Prof. A. H. Ballet.

Ernie Clarence Thieding, McFarland, Wis.

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Annette King Thompson, Edina

B.S.Ed. '61, Ohio State University. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. C. Chase.

Sharon Barbara Powers Thompson, St. Paul

B.A. '64, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

Steven Ray Trauman, New Britain, Conn.

B.A. '66, City College of New York. Major: History. Minor: English. Thesis: From Progress to Institutions: Richard Hofstadter's Journey. Major Adviser: Prof. D. W. Noble.

Lillian Risch Trouten, White Bear Lake

B.A. *cum laude* '65, Hamline University. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

George Albin Tufvander, Byron

B.S. '50, St. Cloud State College. Field of Concentration: Educational Administration. Major Adviser: Prof. V. D. Mueller.

Peter Veldman, St. Paul

B.S. '59, University of Minnesota. Field of Concentration: Physical Education. Major Adviser: Prof. R. J. Donnelly.

Hilary Harold Vickman, Canon City, Colo.

B.A. *magna cum laude* '54, St. Benedict's College. Field of Concentration: Psychology. Major Adviser: Prof. J. B. Preus.

Thomas John Volgy, Grand Rapids, Mich.

B.A. *magna cum laude* '67, Oakland University. Field of Concentration: Political Science. Major Adviser: Prof. R. E. Riggs.

Carroll Gene Vomhof, Cottage Grove

B.S. '65, University of Minnesota. Field of Concentration: Distributive Education. Major Adviser: Prof. R. D. Ashmun.

Elizabeth Margaret Wakefield, Hartland

B.S. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. G. M. A. Mork.

Frank Dean Wallentine, Minneapolis

B.B.A. '55, University of Minnesota. Field of Concentration: Economics. Major Adviser: Prof. J. A. Buttrick.

Janet Marie Walther, Des Moines, Iowa

B.A. '63, Marycrest College. Field of Concentration: Educational Psychology. Major Adviser: Prof. D. H. Blocher.

Raymond Alvar Wargelin, Bloomington

B.A. *magna cum laude* '66, Gustavus Adolphus College. Major: Philosophy. Minor: English. Thesis: A Phenomenological Analysis of Time in Human Consciousness. Major Adviser: Prof. G. B. Matthews.

Evelyn Finke Wells, St. Louis Park

B.S. with distinction '55, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. E. W. McDiarmid.

Judy Olson Wells, Rush City

B.A. '68, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. D. K. Berninghausen.

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B.A. '57, University of North Carolina. Field of Concentration: Classics. Major Adviser: Prof. G. M. Erickson.

Gary Gene Wicks, Seneca, Ill.

B.A. '66, St. Olaf College. Major: Physical Education. Minor: Educational Psychology. Thesis: Effect of Learning on Maximal Grip Strength Measures. Major Adviser: Prof. J. F. Alexander.

Martha Helen Wiggins, Hopkins

B.S. '61, Mankato State Teachers College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. Robert Dykstra.

Lumen Barry Woodward, Pueblo, Colo.

B.A. '66, Southern Colorado State College. Major: French. Minor: Classics. Thesis: A Study of Thematic Structure in Balzac's "La Recherche de L'Absolu." Major Adviser: Prof. A. A. Renaud.

Sister Alice Zwiefelhofer, Marshfield, Wis.

B.A. '62, Mount Mary College. Field of Concentration: Educational Psychology. Major Adviser: Prof. F. B. Wilderson.

Master of Arts in Public Administration

Barbara Katherine Aho, Cloquet

B.A. '64, University of Minnesota. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

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B.S. '54, Northwestern University. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Edith Elfstrum Graney, Vesta

B.A. '66, University of Minnesota. Field of Concentration: Public Administration. Major Adviser: Prof. P. T. Steen.

Gerald Robert McKay, Minneapolis

B.A. '67, University of Minnesota. Major: Public Administration. Thesis: The Model Neighborhood Program in South Minneapolis: A Case Study of the Application of the "Widespread Citizen Participation" Clause in the Program. Major Adviser: Prof. G. A. Warp.

Alix Patricia McNeill, St. Paul

B.A. '68, St. Louis University. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

William Dean Showalter, Fridley

B.A. *cum laude* '57, University of Minnesota. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Charles Burton Winkle, Jr., San Antonio, Tex.

B.F.A. (Arch.) '59, B.S.C.E. '62, B. of Arch. '62, University of Utah. Major: Public Administration. Thesis: Factors Affecting State Planning Implementation. Major Adviser: Prof. G. A. Warp.

Master of Business Administration

Richard Lee Bach, Minneapolis

B.S. in M.E. '61, Kansas State College. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Melvin George Dau, Minneapolis

B.S.E.E. '66, University of Wisconsin. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

David Paul Gerzevske, Minneapolis

B.A. '67, St. Olaf College. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

Richard Lee Gifford, Lansing, Mich.

B.S. '58, Michigan State College. Field of Concentration: Business Administration. Major Adviser: Prof. A. F. Whitman.

Doyle Eugene Larkin, St. Louis Park

B.S. with distinction '60, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Robert Julian Rolfe, St. Paul

B.S. '50, St. Cloud State Teachers College; M.S. '56, University of Wisconsin. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Master of Fine Arts

Rosemary Smith Egerman, Minneapolis

B.A. '63, Siena Heights College; M.A. '65, University of Iowa. Field of Concentration: Studio Arts. Major Adviser: Prof. Malcolm Myers.

Leslie William Schimelpfenig, Hibbing

B.S. '60, University of Minnesota. Field of Concentration: Theatre. Major Adviser: Prof. H. L. Adey.

Master of Science

Wanda Kay Alphin, Kinston, N.C.

B.S. '67, East Carolina University. Major: Home Economics. Minor: Biometry. Thesis: Effect of Flex Abrasion on a 65/35 Polyester-Cotton Fabric With and Without Wrinkle Resistant-Soil Release Finish. Major Adviser: Prof. Suzanne Davison.

Thomas Lee Auth, Plum City, Wis.

B.S. cum laude '67, Wisconsin State University. Field of Concentration: Business Administration. Major Adviser: Prof. J. K. Simmons.

David John Bagenda, Bukoba, Tanzania

B.S. '67, Luther College. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Spectrophotometric Determination of Ascorbic Acid, Glucose and Fructose Using Nitrilotriacetateferrate (III). Major Adviser: Prof. T. J. Bydalek.

Kathleen Ann Ball, St. Paul

B.S. '65, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. D. B. Lawrence.

Alfreda Douglane Blackshear, Tallahassee, Fla.

B.S. '66, Florida A. & M. University. Field of Concentration: Genetics. Major Adviser: Prof. S. C. Reed.

Alan Luther Bonander, Minneapolis

B.S. in Econ. '66, University of Minnesota. Major: Business Administration. Minor: Mathematics. Thesis: Two Inventory Models Subject to Finite Duration with Random Termination. Major Adviser: Prof. R. E. Willis.

Kenneth Howard Brown, Chicago, Ill.

B.S. '65, University of Illinois. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Attempted Synthesis of 1,3,3-Triphenylcyclobutene. Major Adviser: Prof. R. M. Dodson.

Eva Jane Bruner, Minneapolis

B.S. in Bus. with distinction '65, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. J. C. Gray.

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**David Bonney Dayton, Rochester,
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B.S. '67, Case Institute of Technology. Field of Concentration: Physics. Major Adviser: Prof. H. T. Mantis.

**Margaret Catherine Dunphy, Madison,
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B.S. '63, University of Wisconsin. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

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F.A.C.C.A. '62, University of Strathclyde. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Zimmer.

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Dipl. '67, Ecole Superieure de Commerce de Paris. Field of Concentration: Business Administration. Major Adviser: Prof. G. B. Davis.

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B.S. '56, University of Minnesota. Field of Concentration: Agricultural Economics. Major Adviser: Prof. T. R. Nodland.

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B.S. *cum laude* '67, Chinese University of Hong Kong. Field of Concentration: Genetics. Major Adviser: Prof. W. E. Rempel.

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B.S. '64, Mankato State College. Field of Concentration: Horticulture. Major Adviser: Prof. D. W. Davis.

Walter Lynn Johnson, St. Paul

B.A. '63, Macalester College. Major: Dairy Husbandry. Minor: Physiology. Thesis: Immunochemical and Physiological Studies on the Decapacitation Factor in Rabbit Seminal Plasma. Major Adviser: Prof. A. G. Hunter.

John Clifford Kelly, Minneapolis

B.A. '67, University of Minnesota. Field of Concentration: Computer and Informational Science. Major Adviser: Prof. R. Y. Kain.

**Barbara Ann Klostreich, Bismarck,
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B.S.N. '67, Jamestown College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. N. I. Harris.

Kenneth Anthony Kozar, Ely

B.S.B. '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

Helen Jean Moreland, Hays, Kan.

B.S. '63, Fort Hays Kansas State College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. M. Sarosi.

Jonathan Worden Perry, Minneapolis

B.S. *cum laude* '61, College of Idaho. Major: Mathematics. Minor: Statistics. Thesis: Convergence and Simmability of the Heine and Neumann Series of Legendre Polynomials. Major Adviser: Prof. C. L. Miracle.

**Norman Clark Reynolds, Jr., Bristol,
Conn.**

B.S. in Biology '65, Brown University. Field of Concentration: Physical Chemistry. Major Adviser: Prof. W. G. Miller.

**Fernando Salinas-Bernal, Morelia,
Michoacan, Mexico**

Cert. '65, Escuela Nacional de Agricultura. Field of Concentration: Food Science and Industries. Major Adviser: Prof. E. L. Thomas.

**Kenneth Camilo Schmidt, Minne-
apolis**

B.A. '64, University of California. Major: Mathematics. Minor: Statistics. Thesis: Continuity and Differentiability of D- Topological Vector Spaces. Major Adviser: Prof. Walter Littman.

Richard John Streit, St. Cloud

B.S. in Pharm. with distinction '67, University of Minnesota. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

Timothy Paul Sullivan, Proctor

B.S. '67, University of Minnesota. Major: Plant Physiology. Minor: Plant Pathology. Thesis: Living Haustoria of *Erysiphe graminis* in Host Cells Opened by Microsurgery. Major Adviser: Prof. W. R. Bushnell.

Stephen John Sweeney, Richfield

B.S. in Phar. with distinction '68, University of Minnesota. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

Clarence Joseph Tracy, International Falls

B. of Phys. '67, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Study of Nitrogen Gas Discharges. Major Adviser: Prof. H. J. Oskam.

Phillip James Vergamini, Superior, Wis.

B.S. '65, Wisconsin State University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: The Hall Mobility of Hafnium and Tin Disulfides. Major Adviser: Prof. L. E. Conroy.

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B.S.Nur. cum laude '67, University of North Dakota. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

Thomas Henry Zytkovicz, Osseo

B.S. '64, College of St. Thomas. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Studies of Dipicolinic Acid Syntheses in *Bacillus cereus* Mutants. Major Adviser: Prof. H. R. Warner.

Master of Science in Aerospace Engineering

Vijay Gupta, Delhi, India

B.Tech. in Mech.Eng. '68, Indian Institute of Technology. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. T. S. Lundgren.

Master of Science in Anesthesiology

Joseph M. Messick, Jr., Wilmington, Del.

B.A. '56, Wesleyan University; M.D. '61, University of Virginia. Major: Anesthesiology. Minor: Physiology. Thesis: The Effects of Pentobarbital and Meperidine on Canine Whole Body and Cerebral Oxygen Consumption Rates. Major Adviser: Dr. R. A. Theye.

Master of Science in Chemical Engineering

Edgardo Raúl Canales, San Javier, Chile

Ing. Civil Químico '65, Universidad de Concepción. Major: Chemical Engineering. Minor: Mathematics. Thesis: Experimental Measurement of Protein Diffusion Coefficients by a Diaphragm Cell Technique. Major Adviser: Prof. K. H. Keller.

Master of Science in Civil Engineering

Ibrahim Khatri, Karachi, Pakistan

B.E. '66, University of Karachi. Field of Concentration: Civil Engineering. Major Adviser: Prof. Paul Andersen.

Tameo Matsuda, Osaka, Japan

'62, Osaka City University. Major: Civil Engineering. Minor: Industrial Engineering. Thesis: Traffic Maneuvers at Entrance Ramps. Major Adviser: Prof. D. L. Gerlough.

Dennis Eugene Palmer, Minneapolis

B.C.E. '64, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. C. E. Bowers.

Master of Science in Dentistry

Carolyn Durran Hudson, Welwyn
Garden City, England

B.D.S. '64, University of Edinburgh. Major: Dentistry. Minor: Pathology. Thesis: A Radioautographic Investigation of Epithelial Breakdown During Fusion of Rat Palatal Shelves. Major Adviser: Dr. R. J. Gorlin.

David Walter Twomey, St. Cloud

D.D.S. '63, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Analysis of Change in Alveolar Bone and Growth Pattern of the Young Mouse Mandible After Tooth Extraction. Major Adviser: Dr. E. S. Olsen.

Robert Michael Valko, Denver, Colo.

D.D.S. '62, Georgetown University. Major: Dentistry. Minor: Pathology. Thesis: A Histologic Study of Oral Mucosal Attachment to Synthetic Materials. Major Adviser: Dr. R. J. Gores.

Clyde Hawthorne Wilkes, Jr.,
Wayzata

D.D.S. '58, Emory University. Major: Dentistry. Minor: Physiology. Thesis: A Study of Mandibular Marrow Pressures. Major Adviser: Dr. N. O. Holte.

Master of Science in Electrical Engineering

Larry John Eriksson, Brooklyn Center

B.S.E.E. '67, Northwestern University. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Electrical Properties of Evaporated Zinc Sulfide Thin Films. Major Adviser: Prof. W. T. Peria.

Sanfield L. Forseth, Minneapolis

B.S.E.E. '59, Northwestern University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. P. Kumar.

Geetha Varadarajan Kadaba, Banga-
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B.S. '63, Mysore University; M.S. '66, Bangalore University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. F. Lambert.

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B.E.E. '67, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. H. Park.

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Donald Lawrence Stevenson, New
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B.S.E.E. '57, Iowa State College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

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Dipl.E. '60, Rheinisch-Westfalische Technische Hochschule Aachen. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Gerald Raymond Willenbring,
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B.E.E. with distinction '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Dependence of Helium-Neon Laser Amplification at 3.39 Microns on Total Gas Pressure. Major Adviser: Prof. J. A. Carruthers.

Master of Science in Industrial Engineering

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B.Tech.(E.E.) '66, Indian Institute of Technology. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

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B.M.E. '65, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

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B.E. '67, University of Madras. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

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B.Tech. '68, Indian Institute of Technology. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Master of Science in Mechanical Engineering

Satya Prakash Garg, Minneapolis

B.Eng. '67, University of Allahabad. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. H. Liu.

Yukinobu Ikemoto, Namikata,
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B.Eng. '63, Yokohama National University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. R. C. Jordan.

Jose Mario Fonseca Miccolis, Rio de
Janeiro, Brazil

Eng. '66, Pontificia Universidade Catolica do Rio de Janeiro. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. E. M. Sparrow.

Master of Science in Medicine (Internal)

Guillermo Marco Cremer, Lima, Peru

M.D. '61, University of San Marcos. Major: Medicine (Internal). Minor: Biochemistry. Thesis: The Relationship of Insulinogenic Reserve to Diabetic Instability. Major Adviser: Dr. G. D. Molnar.

Master of Science in Metallurgical Engineering

Robert Allen Ayres, Houston, Tex.

Met.Engr. '67, Colorado School of Mines. Major: Metallurgical Engineering. Minor: Mechanics and Materials. Thesis: The Effect of Orientation of the Yield Stress of High Purity Molybdenum. Major Adviser: Prof. D. F. Stein.

Master of Science in Mineral Engineering

Lloyd Marlyn Haugaard, Parkers
Prairie

B.Phys. '64, University of Minnesota. Major: Mineral Engineering. Minor: Chemical Engineering. Thesis: Model Blasting Studies Using Cylindrical Charges in Cement Mixes. Major Adviser: Prof. A. M. Starfield.

Master of Science in Otolaryngology

Carl Ernest Reiner, Longmeadow,
Mass.

M.D. '62, Tufts University. Major: Otolaryngology. Minor: Anatomy. Thesis: Experimental Production of Serous Otitis Media with Anatomic Considerations as to Pathogenesis. Major Adviser: Dr. J. L. Pulec.

Master of Science in Pathology

Kenneth James Fawcett, Port Huron,
Mich.

M.D. '61, University of Michigan. Major: Pathology. Minor: Hematology. Thesis: Mesonephric Carcinoma of the Cervix: A Clinical and Pathological Study. Major Adviser: Dr. M. B. Dockerty.

Master of Science in Urology

John David Wilson, Sydney, Australia
M.B.B.S. '60, University of Sydney. Major: Urology. Minor: Pathology. Thesis: Intra Operative Autotransfusion: A New Method. Major Adviser: Dr. C. A. Owen.

Certificate of Specialist in Education

Frank Dale Campbell, Fergus Falls

B.S. '62, Northland College; M.A. '66, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. Jan Duker.

LeRoy James Goodenough, Rice Lake,
Wis.

B.S. '63, M.A. '65, University of Minnesota. Field of Concentration: Distributive Education. Major Adviser: Prof. R. D. Ashmun.

Donald John Huesers, Chisago City

B.A. '43, Minot State Teachers College; M.A. '54, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. O. E. Domian.

Howard Albin Jenson, Columbia
Heights

B.A. '32, Concordia College; M.S. in Ed. '43, University of North Dakota. Field of Concentration: Educational Administration. Major Adviser: Prof. C. P. Hooker.

Thomas Bernard Menk, New
Brighton

B.A. '57, Wartburg College; M.S. in Ed. '64,
Purdue University. Field of Concentration:
Educational Psychology. Major Adviser: Prof.
Jan Duker.

Lorraine O. Moore, Minneapolis

B.S. cum laude '54, M.A. '63, University of
Minnesota. Field of Concentration: Educa-
tional Psychology. Major Adviser: Prof. M. D.
Hall.

Barbara Bratland Murray, Golden
Valley

B.A. '63, North Dakota State University of
Agriculture and Applied Science; M.S. in Ed.
'67, Moorhead State College. Field of Con-
centration: Educational Psychology. Major Ad-
viser: Prof. A. R. Anderson.

William Theodore Welch, White
Bear Lake

B.A. '53, Hamline University; M.A. '57, Uni-
versity of Minnesota. Field of Concentration:
Educational Psychology. Major Adviser: Prof.
W. W. Tennyson.

Doctor of Education

Roland Vernon Ellertson, Vermillion,
S.D.

B.A. '49, Iowa State Teachers College; M.A.
'62, University of Minnesota. Major: Educa-
tional Administration. Minor: Supporting Pro-
gram. Project: A Legal Evaluation of Dress
Codes in a Selected Sample of Public School
Districts in the Twin Cities Metropolitan
Area. Major Adviser: Prof. C. P. Hooker.

Dean Ellsworth Fritze, Hayfield

B.S. '48, Gustavus Adolphus College; M.A.
'54, University of Minnesota. Major: Educa-
tional Administration. Minor: Supporting Pro-
gram. Project: The Relationship Between Ex-
penditure Per Pupil and Achievement in Eng-
lish. Major Adviser: Prof. C. P. Hooker.

Daniel Borgen Mjolsness, Elbow Lake

B.S. '49, Moorhead State Teacher's College;
M.S.Ed. '56, University of North Dakota.
Major: Educational Administration. Minor:
Industrial Relations. Project: Development of
a Model to Appraise the Performance of Sec-
ondary Principals. Major Adviser: Prof. D. E.
Davis.

Paul Walter Proescholdt, Cedar
Rapids, Iowa

B.S. '60, Iowa State College; M.S. in Ed. '61,
Northern Illinois University. Major: Educa-
tional Administration. Minor: Supporting Pro-
gram. Project: The Preparation Process for
Collective Negotiations by Boards of Educa-
tion in the Twin Cities Metropolitan Area.
Major Adviser: Prof. D. E. Davis.

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Field Artillery

Larry D. Strootman, Anoka

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

David D. Abelson, St. Paul

Gary B. James, Carterville, Ill.

Ensign, USNR

Ronald T. Johnson, Minneapolis

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Michael B. Bussio, Duluth

GENERAL COLLEGE

Associate in Arts

Bruce Milton Albertson, New Brighton
Bernard Exsall Baker, Jr., Minneapolis
E. Terry Banbury, St. Louis Park
Patricia Anne Barlau, Minneapolis
Thomas S. Bastys, Minneapolis
Alan Lee Berger, St. Paul
Dorothy Dot Bigos, Golden Valley
Norman E. Bittner, Jr., Minneapolis
James Edwin Brown, Minneapolis
Vernon Vaughn Brucciani, Minneapolis
Marie Therese Butler, St. Paul
Rachel Gilmore Cockrell, Des Moines, Iowa
Ronnellee Cousin, Minneapolis
Nettie Lynum Davis, Minneapolis
Gregory Martin Diebel, St. Paul
MaryElizabeth Ann Flint, St. Paul
Douglas Eugene Hermanson, Minneapolis

Dennis Francis Heyda, Golden Valley
Thomas Edward Howe, Minneapolis
Marnajane Marion Husak, Minneapolis
Larry Alan Johnsen, Bloomington
E. J. Lee, Minneapolis
Douglas John Luoma, Finlayson
Michael Geoffrey Mencke, St. Paul
Richard Hugh Mulhollam, White Bear Lake
Robert Lloyd Nelson, Minneapolis
Eric Randolph Norris, Minneapolis
Bruce William Palmer, Anoka
David Louis Paron, New Brighton
Dale Carl Peterson, Minnetonka
Gladys Marie Randle, Minneapolis
Todd Allen Salsman, New Prague
Robert Shelton, Minneapolis
Jeffrey John Tschurl, St. Paul
Gary Louis Varner, Minneapolis
Thomas J. Walerius, St. Paul

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Florence E. Arbaugh Barkman, Champaign, Ill.
Mary Ann Gallagher, Edina

Donna Hansen Stene, Roseville
Judy Anne Toft, St. Paul

Bachelor of Arts

*Honors citations are provisional and will not become final until
all requirements are met for the level indicated*

- Mary Grace Aamot, Jackson
Susan Faye Abild, Vermillion, S.D.,
SUMMA CUM LAUDE, German*
Jan Scott Aldrich, Mitchell, S.D.
Jack Lamont Alexander, Minneapolis
Judith Anne Allen, Minneapolis
Joan Czapiewski Anderberg, Hallock
Janet Kay Anderson, Portland, Ore.
Randall Alfred Anderson, Minne-
apolis, MAGNA CUM LAUDE, History
and CUM LAUDE, English*
Wayne Leslie Andert, White Bear
Lake
Linda Ann Antone, Minneapolis
Catalina Jos Bajpai, Buenos Aires,
Argentina, SUMMA CUM LAUDE,
Spanish*
Henry Ralph Bariss, Minneapolis
Jean Fay Barsaloux, Crookston
Jeffrey Christopher Bates, Minne-
apolis
Paul John Bauer, St. Paul
Vincent Joseph Beaudette, Minne-
apolis
Kathryn Ann Bell, Minneapolis
Carolyn Christine Berg, Minneapolis
Coral Ann Berge, Minneapolis
Gary Robert Berggren, Stillwater
Judith Ann Bertollette, Minneapolis,
MAGNA CUM LAUDE, Theatre
Janille Nanita Boitel, Minneapolis
Robert John Bolland, St. Paul
Thomas Quinn Brady, St. Paul, CUM
LAUDE, Journalism
Elaine E. Brown, Minneapolis
Kenneth Davis Brown, Wayzata
Leslie Reed Burdick, Floodwood
Michael Bardon Bussio, Duluth
Terry Michael Caldwell, St. Paul
Jeffery John Carlson, Minneapolis,
SUMMA CUM LAUDE, Sociology*
Sharon Ann Carlson, A.A., OIT
Jodie Wigren Carlsten, Minneapolis,
CUM LAUDE, English
- Gayle Lanette Casselton, North St.
Paul
Catherine Hallman Changus, Minne-
apolis
John Elwood Clasen, St. Paul
Janice Marie Cloud, Grand Rapids
Faye Riva Rosenzweig Cohen, A.L.A.,
St. Paul, SUMMA CUM LAUDE,
Sociology
Kenneth Brian Colclasure, A.A.,
Minneapolis
Sara Ellen Colwell, Minneapolis
Elizabeth Mary Cronin, Minneapolis
Michael William Cronin, Minne-
apolis
Robert Jon Crouse, A.A., St. Paul
William Alexander Dahlin, St. Paul
Richard Lee Dempsey, Waukesha,
Wis.
John Remi Deprez, Minneapolis
R. Scott Dickman, Mankato
Michael Harlow Dilley, Montevideo
Thomas Michael Dlugosch, St. Cloud,
SUMMA CUM LAUDE, English*
Ann Lumphrey Dodge, Beardsley
Donna Rose Drenth, Lyle
William Ross Duncan, Minneapolis
Gerald Lee Edelstein, St. Paul
James Paul Ehrlichmann, Minne-
apolis
Mardelle LaDonna Eide, McGregor,
MAGNA CUM LAUDE, Russian
Kathryn Joanne Ekstrand, Burnsville
Donna L. Erickson, Minneapolis,
CUM LAUDE, History
Rondi Charlotte Erickson, Duluth
Richard John Evans, Hopkins
Susan Bea Farmer, Greenfield, Mass.
Edward Christian Farni II, Golden
Valley
Thomas Richard Faschingbauer,
St. Paul, MAGNA CUM LAUDE,
Psychology*
Bernard James Fennell, Minneapolis

* Degree conferred as of July 18, 1969.

- Charles Alan Flann, Lake Lillian
 Margaret Jean Fleetham, Minneapolis
 Carolyn Julie Frederick, A.A., St. Paul
 Ann Louise Freeman, Grand Rapids
 Karel Marie Fuller, Austin
 Roberta Ann Fuller, Minneapolis
 Fredrick William Gallow, St. Paul
 LeRoy Gardner, Jr., St. Paul
 Philip Stephen Garon, Duluth,
 SUMMA CUM LAUDE, *Political
 Science**
- Patricia Ann Geber, St. Paul, MAGNA
 CUM LAUDE, *French*
 Eugene Walter Geckler, A.A., Min-
 neapolis
 Cynthia Lynn Gentling, Minneapolis
 Barbara Louise George, Bloomington
 James Thomas Gill, Minneapolis
 Theora Ilene Gilliam, Winona
 Robert John Ginnane, Minneapolis
 Lucille Marie Godbout, St. Paul,
 SUMMA CUM LAUDE, *Economics**
- Mildred Nancy Goldish, St. Paul
 Edward Jay Goldstein, St. Paul
 Mary Jean Goulet, Coleraine
 Robert B. Gremore, White Bear Lake
 Susan Muriel Groff, Harlow, N.D.
 Roger Dennis Haar, Minneapolis,
 MAGNA CUM LAUDE, *International
 Relations**
- Thomas Herbert Haight, A.A., St.
 Louis Park
 Phyllis Ann Hammond, Minne-
 apolis
 Karen Hanson, St. Paul, SUMMA CUM
 LAUDE, *Philosophy**
- Leonard Paul Hardwick, Minneapolis
 Judith Ann Harrigan, B.S., St. Paul
 Joanne Berman Harris, Minneapolis,
 CUM LAUDE, *Art History*
 Richard Wallace Harry, Fergus Falls
 Warren Gilbert Hasty, Minneapolis
 Beverly Ann Hayden, Mahtomedi,
 SUMMA CUM LAUDE, *Music*
 Katharine Ann Hayes, Eden Prairie
 Alon Russell Hemme, Hardwick
 Rebecca Kay Hendrickson, Kimball
- Charles Lewis Henneman, Minne-
 apolis
 Michael Dennis Holm, St. Paul
 William Jennings Holman IV, Edina
 Martha Lynn Holmberg, St. Louis
 Park
 Darryl Oliver Holter, Minneapolis
 Roberta Theel Hoseth, A.A., Roch-
 ester
 Loren Dale Hosfield, Minneapolis
 Shirlee Flakne Hueser, Minneapolis
 Peter Chase Jablonski, Anoka
 Michaela Jill Jackson, Castile, N.Y.
 Carol Lee Jacobsen, Red Wing
 Michael Jakob Jaros, Jr., Duluth
 Denis Eldon Johansen, Askov
 Diane Lynn Johnson, St. Louis Park
 Gary Lee Johnson, St. Paul
 Irene Martha Johnson, B.S., Palo
 Alto, Calif.
 Rose Kanavati, St. Paul
 Gary Kenneth Katz, St. Paul
 Deborah P. Kemp, A.A., Mobile, Ala.
 Michael Robert Kienlen, Maple Plain
 Susan Jean Klein, Minneapolis,
 SUMMA CUM LAUDE, *Sociology**
- Susan Hobart Klemmack, St. Louis
 Park, SUMMA CUM LAUDE,
Psychology
 Michael Joseph Knapp, Richfield
 Donald W. Kodluboy, St. Paul, CUM
 LAUDE, *Psychology**
- Gregg Charles Kosanke, A.A.,
 Minneapolis
 James Dennis Kramer, Minneapolis
 Lanny Lee Roy Kuester, Redwood
 Falls
 Sharon Marlene Lampi, Grand Rapids
 Carol Marie Larrivee, Minneapolis
 Nancy Louise Larson, Minneapolis
 Reid Robert Larson, Minneapolis
 Thomas James Law, Minneapolis
 Frederick Bruce Lawrence, St. Paul
 Vija Rumpel Lawson, St. Paul
 Arnold Frederick Lees III, White
 Bear Lake
 John James Lenke, Minneapolis
 Gary Edward L'Herault, Minneapolis

* Degree conferred as of July 18, 1969.

*Samuel Robert Lichter, St. Paul, SUMMA CUM LAUDE, Interdepartmental**
Jeffrey Stephen Liebo, B.S., Minneapolis, CUM LAUDE, Premedicine
Vincent Joseph Liesenfeld, St. Paul, SUMMA CUM LAUDE, English
Barbara Jean Lindstrom, Guthrie
Helen Joan Line, Columbia Heights
David Arthur Lundberg, Hopkins, MAGNA CUM LAUDE, Philosophy and Psychology
Maureen Loretta McAvey, St. Paul
John Craig McCarthy, B.S., Minneapolis
Edmond Sims McCombs, Jr., Cleveland, Ohio
Mary McDiarmid, St. Paul
William James McDonald, Toledo, Ohio
William James McHale, Minneapolis
James Edward Menting, Alma, Wis.
Constance Louise Menze, St. Paul
*Vernelle Evelyn Messer, St. Paul, SUMMA CUM LAUDE, English**
Nancy Ellen Meyer, Minneapolis
Barbara Eugenia Margaret Miller, Minneapolis
John Michael Miller, Hopkins
William John Mittendorff, Minneapolis
Mary Ann Vong Moskalik, St. Paul
Deborah Davis Mounts, Coronado, Calif.
Bonnie Lou McKenna Moy, South St. Paul
John Dale Myskevitz, Excelsior
Dale Arvid Nelson, St. Paul
Harley Wayne Nelson, Hallock
Mary Whitaker Nelson, Kailua, Hawaii
Stephen Vincent Nicholson, Orono
John Elliott Norman, Jr., Lake Crystal
Woodrow Edward Numainville, St. Paul
Edward John O'Connor, Minneapolis
Donald Ray Oliver, Minneapolis
Dale Patrick Olson, Minnetonka
Margaret Ann Olson, Aitkin
Thomas Peter Peplinski, St. Paul
Shirley Jeanne Persons, St. Charles
Cynthia Jane Peterson, Minneapolis
Jeffrey E. Petrich, South St. Paul
*Becky Ann Pew, St. Paul, SUMMA CUM LAUDE, Spanish and French**
Carol Altmann Pinsky, Minneapolis
James Clifford Pirus, Red Wing
*Laura Louise Potter, Minneapolis, CUM LAUDE, English**
Janice Anne Raivo, Minneapolis
Fred Otto Rau, St. Paul
Robert Thomas Regan, Jr., St. Paul
Phyllis Ann Reha, Sandstone
John Joseph Reimer, Minneapolis
Margie Anne Richards, Hopkins
Michael H. Robins, St. Paul, cum LAUDE, Theatre
Douglas Nye Robinson, Great Falls, Mont.
Daniel Lester Rogers, St. Paul
Jerry Paul Rogers, Mahanomen
Tony Earl Rohde, Austin
Luanne Amy Rohrbacher, Minneapolis
James Kenneth Ross, Fergus Falls
William Alfred Rossetter, St. Paul
Steven Harry Roskopf, St. Paul
Stephen John Runkel, A.A., Minneapolis
Monica Gale Ryan, Minneapolis
David Stuart Sandler, Hopkins
Thomas Lee Sawyer, Jr., Minneapolis
*Paul Morris Schanfield, St. Louis Park, SUMMA CUM LAUDE, Premedicine**
Rita Lou Schiavino, St. Paul
Mary Susan Schmitt, Minneapolis
Michael Peter Schutz, Hopkins
Linda Chinander Schwartz, St. Paul
Claire Joan Schwarz, St. Paul
Stanley George Seim, A.A., Stillwater
Harvey Miles Shafer, Minneapolis
Lynne Marie Sheets, Minnetonka
Elizabeth Jane Shinn, Franklin, La.

* Degree conferred as of July 18, 1969.

William Ronald Siemers, Faribault
 Marc David Silberman, Minneapolis,
 SUMMA CUM LAUDE, German
 Victoria Joan Sitter, Cumberland,
 Md., CUM LAUDE, Art History
 William Edward Slettom, St. Paul
 Kent Alvin Smith, Cass Lake
 Linda Carol Smith, Minneapolis
 Marlene Susan Sockol, Newton, Mass.,
 SUMMA CUM LAUDE, Humanities
 Cathy Dianne Solum, Burnsville
 Gary Richard Sparr, St. Paul
 Ramona Bystedt Speers, Minneapolis
 Richard Gary Spicer, St. Paul
 John David Stack, St. Paul
 John Francis Stahlmann, North St.
 Paul
 Lanny B. Stapp, South St. Paul
 Jerry Hubbard Stearns, Hutchinson
 Thomas Allen Steele, Carrollton,
 Ohio
 James David Steeves, North Branch
 Tonya Merle Steffenson, West St.
 Paul
 Alan Jay Stesin, Minneapolis, MAGNA
 CUM LAUDE, Anthropology
 Daniel Riley Stone, Minneapolis
 Judith Ann Strecker, Minneapolis
 John Charles Strickler, Excelsior,
 SUMMA CUM LAUDE, Geography*
 Robert Dennis Sturm, St. Paul
 John Patrick Sullivan, International
 Falls
 Marilyn J. Swanson, Minneapolis
 Edmond Anthony Sworsky, Fridley
 Janice Chaleen Teisberg, Faribault,
 MAGNA CUM LAUDE, Music
 Diana Lynn Theisen, St. Cloud
 Mary Ann Thompson, St. Paul Park
 Robert James Thompson, Robbinsdale
 Fred William Thurston, Minneapolis
 Una Jane Tift, A.A., Minneapolis
 Orton Raymond Tofte, Tofte
 Stephen Paul Tollison, Red Wing

Vincent Favian Tookenay, A.L.A.,
 Schreiber, Ontario, Canada
 Diane Kay Townsend, Richfield
 Sharon Lee Layman Tracy, Anoka,
 MAGNA CUM LAUDE, Humanities
 Marshall Glenn Turner, Minneapolis
 John David Umberger, West
 Lafayette, Ind.
 Charles Alan Upcraft, Minneapolis
 Joseph Valentinetti, Minneapolis
 Linda Louise Van Broeke, Sioux Falls,
 S.D., MAGNA CUM LAUDE, Anthro-
 pology
 Mary Fitzgerald Vannucci, St. Louis
 Park
 Dennis James VanOrden, Glencoe
 Franklin Walter Verley, St. Paul
 Rodney Earnst Von De Linde, St.
 Paul
 Marie Carla Wagner, Minneapolis
 Joan Christine Wallin, Minneapolis
 Edward Alfred Ward, Hopkins
 Richard Steven Waters, Crystal
 Ewing Tatum Wayland, Jr., A.A.,
 Minneapolis
 J. Pamela Weiner, Minneapolis
 Robert Lawrence Weiner, St. Paul
 Peter Joseph West, Minneapolis
 Gary Ralph White, Richfield
 James Edward White, Minneapolis
 Nancy Ann Wiebold, Janesville
 Susan Louise Merrick Wiik, Minne-
 apolis, CUM LAUDE, English
 John William Wilkinson, Wood
 Lake
 Patricia Louise Husting Willenbring,
 Minneapolis
 Atheen Marie Wilson, Elmore
 John Bell Wilson, Richfield
 Mary Roberta Wood, Fairmont
 Suzanne Jeanne Zanick, Minneapolis
 John Thomas Ziebarth, St. Paul**
 Michael Joseph Zmuda, Jr., A.A.,
 Minneapolis
 Charles Aristides Zotalis, St. Paul

* Degree conferred as of July 18, 1969.

** Degree conferred as of March 15, 1969.

Bachelor of Fine Arts

Nancy Kaye Muchr, Duluth, CUM
LAUDE, Music

Richard Leslie Smith, St. Louis, Mo.

UNIVERSITY COLLEGE

Bachelor of Arts

James E. Beard, Minneapolis

Bachelor of Science

Linda Gayle Burstein, St. Louis Park

Todd Michael Morgan, Minneapolis
Larry Dale Strootman, Anoka

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

George Alan Feldhamer, Golden
Valley

Terry Charles Nord, Henning
James Sidney Wilson, Minneapolis

INSTITUTE OF TECHNOLOGY

Certificate in Science

Robert Borth Williams, Minneapolis

Bachelor of Aeronautical Engineering

Kenneth Lee Bullard, New Brighton
William George Elder, Minneapolis

Thomas Peter Olson, Stacy

Bachelor of Architecture

Ruben Colondres, B.S., Ponce,
Puerto Rico

Thomas Winston Robinson, Winona

Bachelor of Chemical Engineering

Lee Hobart Stocking, Wayzata

Bachelor of Chemistry

David Donald Abelson, St. Paul
Joel Clifton Anderson, Minneapolis
Philip Alan Cartier, St. Paul
Chia Chao Chen, Wooster, Ohio,
WITH HIGH DISTINCTION
Ronald Jerome Eshleman, Worthington

Ricardo Luis Herrera, Santiago, Cuba
Dean Jerome Schroeer, White Bear Lake
Gary Lee Sultany, Robbinsdale
Stanley Paul Westphal, Minneapolis,
WITH DISTINCTION

Bachelor of Civil Engineering

William Alan Maher, St. Paul
Ronald Neil Palmquist, Minneapolis

Ted Joe Sexton, Bemidji

Bachelor of Electrical Engineering

Luis Roberto Abreu, Camaguey, Cuba
Larry T. Christensen, St. Paul
Craig Allen Frane, Minneapolis
Allen Hans Hansen, Fairmont
William Harold Mair, Waseca,
WITH DISTINCTION

James Evert Martin, Fergus Falls
David Jack Preston, Cottage Grove
Howard Alton Rice, B.A., Excelsior
James Newell Ruckh, St. Louis Park
Jerome Griffith Strobeck, St. Paul

Bachelor of Mathematics

Henry Florian Frisch, New Ulm,
WITH HIGH DISTINCTION
Walter Chudleigh Geddes, Palatine, Ill.
John Thomas Hudachek, Stillwater

Terrence Raymond McGibbon, St. Paul
John Gilbert Phillips, St. Paul, WITH DISTINCTION, *Mathematics*

Bachelor of Mechanical Engineering

David John Anderson, Moose Lake
Raymond Arthur Anderson, Minneapolis, WITH DISTINCTION
Gary William Charboneau, Minneapolis
Robert Arnold Christenson, Pine City
Darrel Francis Coleman, New Brighton
Dann Charles Dahlseid, A.A., Willmar
John Miles Fitzgerald, Stillwater
Russell Lee Foster, Little Fork
Steven James Harmon, Edina

David Harold Hultgren, North St. Paul, WITH DISTINCTION
Gary Michael Johnson, Hibbing
Roger William Johnson, North St. Paul
David Stacy Kircher, Minneapolis
David Robert Knudtson, Fergus Falls
Robert Joseph Koscak, Hibbing
John Paul Kosel, B.S.B., St. Paul
Lance Wallace Larson, Minneapolis
Thomas Alfred May, Bemidji, WITH DISTINCTION
Keith Richard Mickelson, Isle

Clifford Charles Moulton, Jr.,
Robbinsdale
Floyd Delano Niskanen, Sebeka
Jon Gregory Ohman, A.A., Biwabik
Gregory Kermit Peterson, Hibbing,
WITH DISTINCTION
Dale Robert Reed, Virginia

Allen Dale Smith, Lincoln
John Janis Taube, Bayport
Norman Ray Tuomi, Hibbing, WITH
DISTINCTION
James Allan Tysver, Carlisle, WITH
DISTINCTION
John Paul Weyandt, St. Paul

Bachelor of Physics

Lindwood Allen Bird, Princeton
Charles John Dahlke, New Germany
Cyril Peter deVries, Hopkins, WITH
HIGH DISTINCTION

Jeffrey Lynn Hayden, Minneapolis
Gregory Charles Nelson, St. Paul
Sidney Donald Nystrom, A.A.,
Worthington

Bachelor of Science in Geology

John Wilbur Morse, Moorhead, WITH DISTINCTION

Bachelor of Science in Geophysics

James Allan Labo, Minneapolis

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

Bachelor of Science

Vivian Laura Becker, Little Falls,
Home Economics
Richard Allen Berge, Fergus Falls,
Agriculture
John Alden Bergstrom, Minneapolis,
Agriculture
Katherine Anderson Black, Wash-
ington, D.C., Home Economics
Kenneth Wayne Bonnema, Rinsburg,
Agriculture
Nancy Fitzgerald Freiwald, Minne-
apolis, WITH HIGH DISTINCTION,
Home Economics
Christine Lynn Hanson, Bagley,
Home Economics
Arthur Stuart Hawkins, B.A., Hugo
Alfred Ernest Hodapp, Jr., St. Clair,
Agriculture

Randall Steven Hughes, Wayzata,
Agriculture
Roger Clarence Jensen, Kimball,
Agriculture
Carlton Lee Johnson, Herman,
Agriculture
Sander Nicholas Johnson, Columbia
Heights, Home Economics
Heidi Aleece Lindquist, Brooklyn
Park, Home Economics
Richard Bruce Lockhart, A.A.,
Williams, Agriculture
Alyce Elaine Lundmark, Clearbrook,
Home Economics
Doree Ann Maser, Hopkins, Home
Economics
Linda Susan Matsche, St. Paul, Home
Economics

Kathleen Ann McShannock, St. Paul,
Home Economics
Ruth Ann Monson, Pequot Lakes,
Agriculture, WITH DISTINCTION
Daniel Edison Montgomery, Duluth,
Forestry*
Rodney Takeo Oshiro, Kekaha,
Hawaii, Forestry*
Linda Diane Reider, West St. Paul,
Home Economics

Katherine Marie Roushar, Excelsior,
Home Economics
Michael Allen Thorsen, New London,
Agriculture, WITH DISTINCTION
Roger Paul Waleski, Grand Rapids,
Agriculture
Carol Ann Lovold Weege, St. Paul,
Home Economics
Orin Dean Zach, Wayne, Neb.,
Agriculture

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

Bachelor of Science

Paul Theodore Pasche, Hoffman,
Agricultural Education*

Joanne Arlene Lofgren Ploetz, Rush
City, Home Economics Education

COLLEGE OF EDUCATION

Bachelor of Science

Patricia Ann Aasen, Columbia
Heights, WITH DISTINCTION
Ellen Kay Adams, Olivia
Jacquelyn Ann Ames, Winona
Nona Jean Anderson, Edina
Linda Marie Augst, Robbinsdale
Paulette Bonita Backstrom, Min-
neapolis
Leonard Alan Bay, Minneapolis
Robert James Bedney, Owatonna
Jacqueline Ann Belisle, St. Paul
Mary Margaret Berger, St. Paul
Barbara Louise Nolte Bohn, Bloom-
ington, WITH DISTINCTION
Thomas Melvin Boice, Minnetonka
Jane Elizabeth Brown Brawerman,
Hopkins

Dwayne Keith Buchholz, Champlin
Dennis Clifford Buland, A.A.,
Minneapolis
Inez Frieda Schulz Campbell, A.A.,
Eau Claire, Wis., WITH DISTINC-
TION, Elementary Education
Charlotte Ann Champion, Prior Lake
Barbara Anderson Carlson, St. Paul
Joanne Barbara Christ, B.A., Min-
neapolis
Ellen Durham Christensen, Casper,
Wyo., WITH HIGH DISTINCTION
Teresa Westfall Codlin, Edina,
WITH DISTINCTION
Jeanne Ann Culbertson, Minneapolis
Paul Francis DeBoer, Ogilvie

* Degree conferred as of June 7, 1969.

- Susan Raymond Doering, South
St. Paul, WITH HIGH DISTINCTION
- Robert Michael Dols, Minneapolis
- Cassandra Sara Doyle, Roseville
- Nancy Lenore Dwyer, Bloomington
- Earl David Egler, Minneapolis
- Lauralee Elnes, Hopkins, WITH
DISTINCTION
- Patricia Vevertha Engelking, Min-
neapolis, WITH DISTINCTION
- Sharon M. Falb, West St. Paul
- Mary Beatrice Farrester, Minneapolis
- Barbara Jean Finn, Madison, Wis.
- Donna Mary Flavin, Minneapolis
- Thomas Guinn Gale, Minneapolis
- Elizabeth Frances Gillis, St. Paul
- LaDes Anita Glanzer, Minneapolis
- Joanne Helen Golden, St. Louis Park
- Nancy Annabelle Grimme, A.A.,
Minneapolis
- Sharon Kay Grover, Brooklyn Center,
WITH DISTINCTION
- Jane Katherine Gustafson, Minne-
apolis, WITH DISTINCTION
- Edward Francis Hanson, Nashwauk
- Theresa Louise Harder, Minneapolis
- Theodore John Haugan, Brooklyn
Center
- Dorothy Lenore Rasmussen Haugee,
Minneapolis
- Patrick Burke Hoemke, St. Paul
- Kathleen Holstein, Richfield
- Jackie Ray Houge, A.A., St. Paul,
WITH DISTINCTION
- William Joseph Hoyt, A.A., St. Paul
- Gary Burton James, Carterville, Ill.
- Noel Charles Jenke, Owatonna
- Ruth K. Johnson, B.A., St. Paul
- Lynn Joy Krahn, Jeffers
- Barbara Jean Kuhlman, Byron, WITH
DISTINCTION
- Lee Curtis Kulbitski, White Bear
Lake, WITH DISTINCTION
- Mary Marjorie Kuykendall, A.A.,
Keyser, W.Va., WITH DISTINCTION
- Elizabeth Ann LeBrun, Pipestone
- Janice Diane Lee, Benson
- Margaret Louise Lindell, Minne-
apolis
- Thomas Douglas Luck, St. Paul
- Ann Lenore Ludlow, Arden Hills
- Alice Louise Needham Macnamara,
Mound
- David Michael Marschinke, South
St. Paul
- Nancy Jane Marti, Roseville, WITH
DISTINCTION
- Cathleen Adams Martin, Bloomington,
WITH DISTINCTION
- Mary Dorschner Marts, Minneapolis,
WITH DISTINCTION
- Stephanie Marie McConachie, B.A.,
Minneapolis
- James Edward McDermott, Roseville,
WITH DISTINCTION
- Mary Catherine McKeen, Minne-
apolis
- Susan Mary Musgjerd, Waconia
- Arlene Mary Nanik, Verndale
- Sandra D. Nills, A.A., Rochester
- Joan Carol Norton, Minneapolis,
WITH DISTINCTION
- Howard Lindsey Peterson, Minne-
apolis
- Virginia Florence Houston Peterson,
B.A., Minneapolis, WITH DIS-
TINCTION
- Renae Ruth Pieri, Elk River, WITH
DISTINCTION
- Joan Maack Pinkney, A.A., Foxhome
- Clementine Reix Rardin, B.S.,
St. Paul
- Mathew Louis Rauh, Jr., Minneapolis
- Corrine Jean Roussopoulos, St. Paul
- Steven Robert Roy, St. Paul
- David Theodore Sandquist, St. Paul
- SuAnne Schloo, A.A., Austin
- Susan Marie Schneider, St. Paul
- Susan Jostrom Schwalbach, Mound
- Gayle Lynn Seeley, St. Paul
- Daniel Howard Seleen, Minneapolis
- Sandra Lynn Johnson Shun, Min-
neapolis*
- Barbara Joy Silberg, St. Paul, WITH
DISTINCTION*

* Degree conferred as of July 18, 1969.

Susan Rae Smith, Minneapolis
 Jeanette Carolyn Stone, Minneapolis
 Susan Kay Strickler, Excelsior
 Dennis Stanley St. Sauver, St. Paul
 James Curtis Swanson, Richfield
 Ellen Rose Thayer, Edina
 Sharon Marie Theisen, Minneapolis
 Marsha Lee Thole, Minneapolis
 Barbara Eve Waldman, St. Paul,
 WITH DISTINCTION
 John Arthur Watts, A.A., Rock
 Island, Ill.

Stuart Alan Weitzman, St. Paul
 James Paul Werner, A.A., Minne-
 apolis
 Richard Bruce Whitbeck, Bloom-
 ington
 Susan Louise Merrick Wiik, Minne-
 apolis, WITH DISTINCTION
 Merrilee Wildung, Minneapolis
 Michael Fredrick Wilm, White Bear
 Lake
 Patricia Kay Zdon, Minneapolis

Master of Education

Richard Sidney Alford, M.S., Min-
 neapolis
 Joyce Marie Anderson, B.A., Spring
 Lake Park
 Dorothy Delight Bloyer, A.A., B.S.,
 Canby
 Robert Michael Buchmeier, B.M.E.,
 St. Paul
 Milton Luther Bushey, B.S., York, Pa.
 Gordon Carl Christianson, B.S.,
 St. Paul
 John William Ellis, B.S., Seattle,
 Wash.

Charles Roy Elving, B.S., Interna-
 tional Falls
 Gerald John Grady, B.S., Lakeville
 Clyde William Harrison, Jr., B.F.A.,
 B.S., Minneapolis
 Arvin T. Jackson, B.A., Minneapolis
 Theresa Rose Moroni, B.S., Eveleth
 Edward Ray Nelson, B.S., St. Paul
 Philipp Gottfried Schmelzle, B.S.,
 Camp Hill, Pa.
 Richard Gene Smoliak, B.S., St. Paul

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Dennis Carl Anderson, St. Paul
 Gregory Shane Anderson, North
 St. Paul
 John Denis Anderson, St. Paul
 James Arle Bernards, Richfield, WITH
 DISTINCTION
 Joseph John Bianconi, St. Paul
 Robert J. Buckman, St. Paul
 Richard James Carlson, Heron Lake,
 WITH DISTINCTION
 David Harold Caspersen, Minneapolis
 Gary George Cotter, Minneapolis
 Patrick James Crowley, St. Paul
 William Fred Dehning, Minneapolis
 Bruce Scott Dolgoff, Minneapolis

John Rudman Dragich III, New
 Prague, WITH DISTINCTION
 Stephen Peter Exley, A.A., St. Paul
 William Thomas Fairbanks, St. Paul
 Robert Alfred Faulkner, Crystal, WITH
 DISTINCTION
 Milton Jay Goldstein, St. Paul
 Duane Dale Gravley, Minneapolis
 Beverlee DeCoux Gruber, Faribault
 Dennis Jerome Guiney, Minneapolis
 George August Halberg, A.A., Aurora
 LeRoy Edmund Hautala, Cook
 Gary Allen Ingamells, Bemidji
 C. Leonard Jackson, St. Paul
 John Jantschik, A.A., Minneapolis

Ronald Toivo Johnson, A.A., Minneapolis	Dwight Jerome Oxtou, Minneapolis
Edward Wai Kin Ko, Hong Kong, WITH DISTINCTION	Glenn Clair Peterson, St. Paul
William Leonard Laakso, Hillsdale, N.J.	Harold Gregg Roberts, Edina
Paul Stephen Langeness, Bloom- ton	Scotland Bruce Rutherford, Edina
Richard Dale La Roche, Minneapolis	Charles Andrew Schons, Minneapolis
Donald E. Manion, St. Paul*	Karl Schuller, Brooklyn Center
James Roy Martin, Minneapolis	Richard Henry Slettehaug, Minne- apolis
Roger Nippert McGrath, St. Paul	Nanette Joan Steinberg, Minneapolis, WITH DISTINCTION*
John William McPartland, Jr., St. Paul	Gloria June Swanson, St. Paul
John Joseph Meade, Minneapolis	David Thomas Warford, McIntosh
John Peter Menth, Minneapolis	James Thomas Whiting, Minneapolis
Jack Terry Michals, A.A., Virginia	Dean Kenneth Wiley, St. Paul
Raymond Daniel Mramor, Minne- apolis	Gerald Warren Williams, A.A., Min- neapolis
Patrick Edward Murphy, St. Paul	Richard Lee Williams, South St. Paul
LeRoy Richard Norby, Minneapolis, WITH DISTINCTION	Thomas William Yoemans, Deer- wood, WITH DISTINCTION
	Evan Norbert Ziegler, Janesville
	Duane Thomas Zwolensky, A.A., Golden Valley

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Maureen Joann Bell, Austin**	Lenore Joan Freeberg, South St. Paul**
Kathleen A. Jagiela Bourdeaux, New Brighton**	Kay Elaine Smith, Rochester
Jackie Hsi Ning Chu, Taiwan, Repub- lic of China, WITH HIGH DISTINCTION**	Sharol Stone Thomas, Minneapolis, WITH DISTINCTION**

Master of Public Health

Robert Theodore Bruss, B.A., Min- neapolis	Rolf Erland Overlie, B.A., Mounds- view
Mary Foecke Davis, B.A., Min- neapolis	Jean Tulloch-Reid, Kingston, Jamaica
Audrey Juanita Lubben, B.A., Le Mars, Iowa	Jean J. Ruel, B.S., St. David, Co. Levis, Quebec, Canada
Aree Moonpuntha, M.D., Nakorn Pkanom, Thailand	Nukun Tansitipat, M.D., Sisaket, Thailand

* Degree conferred as of July 18, 1969.

** These degrees are conferred subject to the completion of practical work prior to December 20, 1969.

Academic Costume

Academic costume — cap, gown, and sometimes hood — may be worn by anyone with a college degree, or by a candidate whose degree is soon to be awarded. Characteristics of costumes show their wearers' highest degrees and, often, the fields of major interest and the institutions by which the degrees are granted.

All bachelors' and masters' gowns are black and untrimmed. The bachelor's gown has a long pointed sleeve; the master's a closed sleeve with an arm slit. Doctors' gowns in the United States are usually black, with velvet front facings and sleeve crossbars (some universities, especially those abroad, prescribe colorful crimson, bright red, or other colors, set off by black or colored facings).

At commencements degree candidates wear the gowns for the degrees they are about to receive. Hoods are worn only by those who already possess degrees. Anyone who has a University of Minnesota degree may wear the Minnesota hood — black with a maroon chevron on gold. The length and shape of a hood identify the most advanced degree its wearer has earned; and the hood's velvet edging shows the degree's field: dark blue for Philosophy, light blue for Education, green for Medicine, lilac for Dentistry, orange for Engineering, russet for Forestry, drab for Business, olive green for Pharmacy, purple for Law, gray for Veterinary Medicine, golden yellow for Science, white for Arts and Letters.

Caps — usually tasseled mortarboards — show by tassel color the nature of degrees awarded at University of Minnesota commencements. Doctors' tassels may be black or gold; masters' are black. Bachelor's degree candidates at Minnesota, however, indicate their fields of study by their tassel colors (they are given here in the order they appear in the procession):

Graduate School	black
General College	crimson and white
College of Liberal Arts	white
College of Education	light blue
Institute of Technology	orange
University College	old gold and white
School of Business Administration	drab
College of Agriculture, Forestry, and Home Economics	maize
College of Medical Sciences	green
College of Biological Sciences	golden yellow

Gold shoulder furragers are worn by candidates who are honor students.

After receiving his degree, a holder may wear the academic costume on any appropriate occasion. But he always wears the black tassel, and omits the shoulder insignia. Appropriate academic costumes can be obtained anywhere that academic ceremonies are conducted.

President's Reception

AUGUST, 1969

- The members of the graduating class and their families are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held on the Plaza directly in front of Northrop Memorial Auditorium (in case of rain, the Reception will be in the main lobby of Coffman Union). During the outdoor Reception, Mr. Forsberg will play a Carillon Concert.
- Assisting in the Reception are students and staff members from the Senate Committee on University Functions, Gamma Sigma Sigma Social Service Sorority, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

December Commencement, 1969

SATURDAY EVENING, DECEMBER 20, 7:30 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

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

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Herb L. Huffington, M.D., Waterville

The Honorable Fred J. Hughes, St. Cloud

The Honorable George W. Rauenhorst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Mr. James F. Hogg, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

THE BOARD OF REGENTS requests that the following Northrop Memorial Auditorium procedures or regulations be adhered to: (1) Smoking is confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms. (2) The use of cameras or tape recorders by members of the audience is prohibited. (3) The sale of tickets by anyone other than authorized Box Office personnel is prohibited in the lobby or corridors of Northrop Memorial Auditorium.

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and eighteenth 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 preparation is offered. Since its founding, the University has awarded more than 216,515 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 45,000 students annually on its Twin Cities, Duluth, Morris, Crookston, 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 Horticultural Research Center and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are working on countless experiments of vital importance to the future health and welfare of us all. Research 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 Minnesota 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 biomedical 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 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.

As it meets the needs of present students, the University must also make plans for those of the future. The 50,145 students who enrolled at the University at the beginning of the 1969-1970 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1969 LEGISLATURE granted the University \$141,093,656 for general operations and maintenance during the 1969-1971 biennium. In addition, the University received \$9,210,301 for University Hospitals; \$15,758,812 for special appropriations, including special extension and research activities; \$55,486,951 for new buildings, land, and the rehabilitation of existing buildings; \$1,640,000 for the Crookston Technical College; and \$165,000 for the Waseca Technical College.

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 1967-1968 showed that the University's current income amounted to \$196,515,675.43. Of the total received, \$17,146,177.31 came from student tuition and fees; \$30,280,089.30 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts, and sales of bulletins and agricultural products; \$1,669,798.78 from intercollegiate athletics; \$27,376,182.44 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 \$9,847,348.82 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also, \$47,079,539.59 came from the federal government for instruction, research, and agricultural extension. The State provided \$63,116,539.19 or 32.1 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$21,486,114.

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and par-

ticipates 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, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds, administered by the Department of University Relations.

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 Twin Cities Campus of the University this evening from 6:45 to 7:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Miss Janet Orjala, College of Liberal Arts '70, University 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.

PRELUDE CONCERT: From 7:00 to 7:15 p.m., Eugene Montgomery, Graduate School, Department of Music, will play.

PROCESSION: Candidates for degrees will be seated from 7:15 to 7:30 p.m. At 7:30 p.m., Professor William C. Rogers, Ph.D., Director of the World Affairs Center, Faculty Marshal, will carry the Mace into the Auditorium, concluding the arrival of the academic procession of candidates for degrees. Marshal Rogers, as Mace-Bearer, will present the Mace at the center of the stage. He will put the Mace in its cradle to signal the beginning of the ceremony. Mr. Montgomery will play:

Trumpet Voluntary in DPurcell

ON THE STAGE: Seated on the stage from left to right are Marshal Rogers; Associate Professor Donald R. Browne, Ph.D., College of Liberal Arts, Marshal; Assistant Professor Kenneth G. Nelson, Ph.D., College of Pharmacy; Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences; The Reverend Gordon Dahl, M.A., Campus Rector, Lutheran Student Association; Recorder W. Donald Beatty, Ph.D., Admissions and Records; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Dean Robert J. Keller, Ph.D., College of Education; The Honorable George Raunenhorst, Regent of the University of Minnesota; Dean Bryce Crawford, Jr., Ph.D., Graduate School; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Vice President Donald K. Smith, Ph.D., Administration; Dean Warren B. Cheston, Ph.D., Institute of Technology; Professor Melvin Calvin, Ph.D., Department of Chemistry, University of California, Berkeley; Vice President Hale Champion, B.A., Planning and Operations; Mr. Robert John Donovan, Ph.D., Chief of the *Los Angeles Times* News Bureau in Washington, D.C., Commencement speaker; President Malcolm Moos, Ph.D., University of Minnesota; Vice President Paul H. Cashman, Ph.D., Student Affairs; Professor Frank H. Kaufert, Ph.D., Director of the School of Forestry, College of Agriculture, For-

estry, and Home Economics; Dean Robert B. Howard, M.D., Ph.D., College of Medical Sciences; Vice President William G. Shepherd, Ph.D., Academic Administration; Assistant Dean Robert F. Grabb, LL.B., Law School; Vice President Stanley J. Wenberg, LL.D., Coordinate Campuses and Educational Relationships; The Honorable Elmer L. Andersen, Regent of the University of Minnesota; Dean Alfred L. Vaughan, Ph.D., University College; Professor G. Gordon Kingsley, Ed.D., General College; Mr. Edwin L. Haislet, Ed.D., Director of Alumni Relations; Major Charles R. Chase, USA, Assistant Professor of Military Science; Captain Walter T. Broughton, USN, Professor of Naval Science; Captain David J. Martinson, USAF, Commandant of Cadets, Department of Aerospace Studies; Mr. Leslie L. Stokely, B.A., Soloist, Graduate School; Professor Edward Silberman, M.S., Director of the St. Anthony Falls Hydraulic Laboratory, Institute of Technology, Marshal; and Professor John E. Stecklein, Ph.D., Director of the Bureau of Institutional Research, 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 will remain standing for the National Anthem and for the Invocation. Mr. Montgomery will play.

THE NATIONAL ANTHEM: The audience and Mr. Stokely.

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

INVOCATION: Reverend Dahl.

SPEAKING FOR THE UNIVERSITY: President Moos.

COMMENCEMENT ADDRESS: Mr. Donovan.

CONFERRING OF DEGREES: President Moos will confer certificates and degrees, including the University of Minnesota's degree of Doctor of Science, *honoris causa*.

CONFERRING OF HONORARY DEGREE: Dean Cheston will present Melvin Calvin, Professor of Chemistry, University of California, Berkeley, and Nobel Prize awardee to President Moos for the University's honorary degree, Doctor of Science.

MELVIN CALVIN

NATIVE of Minnesota; graduate of the Michigan College of Mining and Technology with the degree Bachelor of Science, and of the University of Minnesota with the degree Doctor of Philosophy; Professor of Chemistry at the University of California, Berkeley; Nobel Prize winner in 1961 for his achievements in photosynthesis; pioneer in research on the use of radioactive carbon as a tracer in biochemical reactions; investigator into the evolution of organic compounds in nature; scientist of wide-ranging curiosity whose work has included painstaking quantitative studies and exploration into such diverse fields as the chemical aspects of memory and life on the stars —

BECAUSE you have been consistently at the forefront in extensions of chemical knowledge; because you combine breadth of interest with depth of comprehension; because your achievements and your awards have brought honor to this University and this State —

The Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Melvin Calvin, the degree of Doctor of Science, *honoris causa*.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: President Moos will confer the degrees upon the candidates. As each new Doctor of Philosophy is invested with his hood, he will be presented individually by Dean Crawford.

CONFERRING OF OTHER GRADUATE SCHOOL DEGREES: President Moos will confer the degrees upon the graduates. Dean Crawford will present the candidates to President Moos.

PRESENTATION OF DIPLOMAS: Vice President Shepherd will introduce the college deans or their representatives, who will present to President Moos the candidates for diplomas. (Candidates from the colleges will pass across the stage to receive their diplomas.) Vice President Shepherd will present Professor Kingsley for the General College; Dean Ziebarth for the College of Liberal Arts; Dean Vaughan for the University College; Assistant Dean Kerr for the College of Biological Sciences; Dean Cheston for the Institute of Technology; Professor Kaufert for the College of Agriculture, Forestry, and Home Economics; Dean Keller for the College of Education; Dean Grambsch for the School of Business Administration; Assistant Professor Nelson for the College of Pharmacy; Assistant Dean Grabb for the Law School; and Dean Howard for the College of Medical Sciences.

CONFERRING OF ROTC CERTIFICATES: Vice President Shepherd will introduce Major Chase, Captain Broughton, and Captain Martinson, who will present candidates for commissions in their respective services. Certificates of ROTC completion will be presented by President Moos.

HAIL! MINNESOTA: The University's Alma Mater, sung by the audience and Mr. Stokely.

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

RECESSIONAL: Mr. Montgomery will play.

Finale from Symphony VIWidor

THE AUDIENCE is requested to remain seated until those in academic costume have marched out.

(Immediately following these exercises, all members of the audience are invited to attend the President's Reception, which is described on the back cover of this program.)

Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Harry Merton Wenner, Roseau

B.S. '49, Gustavus Adolphus College; M.A. '52, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: An Assessment of Video Tape as a Tool in the Improvement of Teacher Classroom Effectiveness. Major Adviser: Prof. S. H. Popper.

Doctor of Philosophy

David Randolph Adams, Arlington,
S.D.

B.S. '63, South Dakota State College of Agriculture and Mechanic Arts; M.S. '66, University of Minnesota. Major: Mathematics. Minor: Supporting Program. Thesis: Exceptional Sets for Bessel Potentials of Functions in Lp. Major Adviser: Prof. N. G. Meyers.

Abdul Karim Ahmed, Karachi,
Pakistan

B.S. '59, University of Karachi; M.S. '63, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Kinetics of the Reactivation of Disulfide-Reduced R Nase. Major Adviser: Prof. D. B. Wetlaufer.

Dennis Richard Anderson, Elburn, Ill.
B.A. '64, Southern Illinois University. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Infrared Studies on Polyatomic Molecules. Major Adviser: Prof. John Overend.

Emory Dean Anderson, East Lansing,
Mich.

B.S. in Ed. cum laude '61, Dana College. Major: Fisheries. Minor: Biometry. Thesis: Factors Affecting Abundance of Lake Herring, *Coregonus Artedii* LeSueur, in Western Lake Superior. Major Adviser: Prof. L. L. Smith.

Prem Lal Arya, Bikaner (Raj) India

B.V.S. '49, East Panjab University; M.S. '67, University of Minnesota. Major: Veterinary Pathology. Minor: Microbiology. Thesis: Morphological Studies of Air Sac Infection in Turkeys Due to *Mycoplasma meleagridis* and Possible Secondary Agents. Major Adviser: Prof. J. H. Sautter.

Win Aung, Rangoon, Burma

B.S.Mech.Eng. '62, Rangoon University; M.S.Mech.Eng. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Heat Transfer in the Separated Region Beyond a Rearward-Facing Step. Major Adviser: Prof. R. J. Goldstein.

Zoltan Laszlo Bandi, Austin

B.A. '62, M.S. '67, University of Minnesota. Major: Biochemistry. Minor: Physiology. Thesis: Metabolism of Alkoxy lipid in the Rat. Major Adviser: Prof. H. K. Mangold.

Frederick Daniel Becchetti, Jr., Min-
neapolis

B.Phys. with high distinction '65, M.S. '68, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: A Study of the (He^3,t) Reaction and Isobaric Analog States in 1f-2p Shell Nuclei. Major Adviser: Prof. G. W. Greenless.

Loren Lane Benson, Hopkins

B.S. '51, M.A. '58, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: Taxonomical Assessment of Educational Development of Tenth Graders Under Traditional and Modular Curriculum Plans of Organization for Instruction. Major Adviser: Prof. W. W. Tennyson.

**George Michael Benjamin Berger,
Johannesburg, South Africa**

B.S. '58, M.B.B.Ch. '60, University of Witwatersrand. Major: Biochemistry. Minor: Biometry. Thesis: Aspects of the Control of Corticosteroidogenesis in the Adrenal Cortex. Major Advisers: Profs. Frank Ungar and V. R. Mattox.

Richard Reid Bevis, Minneapolis

B.S. with distinction '63, D.D.S. '66, University of Minnesota. Major: Anatomy. Minor: Dentistry. Thesis: An Autoradiographic and Electron Microscopic Study of Collagen Synthesis During Tooth Movement: In the Supralveolar Fibers of the Golden Syrian Hamster. Major Adviser: Prof. A. M. Carpenter.

Wayne Arnold Bough, Stockton, Mo.

B.S. in Agr. '65, University of Missouri. Major: Biochemistry. Minor: Supporting Program. Thesis: The Metabolism of Tyrosine in *Sorghum Vulgare*. Major Adviser: Prof. J. E. Gander.

**Bruce Tambllyn Bowman, Ontario,
Canada**

B.S.A. '64, Ontario Agricultural College; M.S. '66, University of Guelph. Major: Soil Science. Minor: Analytical Chemistry. Thesis: The Effect of Water Upon Malathion Adsorption Onto Five Montmorillonite Systems. Major Adviser: Prof. R. S. Adams, Jr.

**Arndt Folkvard Braaten, Decorah,
Iowa**

B.A. '49, St. Olaf College; M.S. '61, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Students' Perceptions of Teaching in General — Liberal and Teacher Education in Six Midwest Lutheran Colleges. Major Adviser: Prof. G. M. A. Mork.

**John Joseph Brann, Jr., Williamsport,
Pa.**

B.S.E.E. '63, M.S.E.E. '65, University of Notre Dame. Major: Control Sciences. Thesis: An Application of a Symbol Manipulating Language to the Generation of Symbolic Lyapunov Functions. Major Adviser: Prof. F. N. Bailey.

Pearl Rhoten Buckland, Bloomington

B.S. with distinction '56, University of Minnesota; M.S. '60, Mankato State College. Major: Educational Psychology. Minor: Psychology. Thesis: The Effect of Visual Perceptual Training on Reading Achievement in Low Readiness First Grade Pupils. Major Adviser: Prof. B. E. Balow.

Donald Duane Burk, Eau Claire, Wis.

B.S. '55, Central Michigan University; M.Ed. '56, Ohio University. Major: Education. Minor: Educational Administration. Thesis: Personality Characteristics of Student Teachers and of Their Supervisors. Major Adviser: Prof. C. J. Hoyt.

John Charles Burr, Jr., Parma, Ohio

B.S. with distinction '57, Colorado Agricultural and Mechanical College. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Absolute Intensity Measurement in the Liquid Phase by Attenuated Total Reflection. Major Adviser: Prof. B. L. Crawford, Jr.

Harold Edwin Carley, Ithaca, N.Y.

B.S. '64, Cornell University; M.S. '66, University of Idaho. Major: Plant Pathology. Minor: Soil Science. Thesis: Factors Affecting the Epidemiology of Pea (*Pisum sativum* L.) Root Rot Caused by *Aphanomyces euteiches* Drechs. Major Adviser: Prof. T. H. King.

Chien Chung Chao, Taiwan

B.S. '58, Taiwan Provincial Cheng Kung University; M.S. '65, Utah State University. Major: Physical Chemistry. Minor: Supporting Program. Thesis: Luminescence Phenomena in Magnesium Oxide. Major Adviser: Prof. J. E. Wertz.

Alvin Woodard Ching, Prior Lake

B.S. '44, South Dakota State College of Agriculture and Mechanic Arts. Major: Psychology. Minor: Philosophy. Thesis: The Scientific Explanation of Moral Behavior. Major Adviser: Prof. P. E. Meehl.

Kyu Chul Cho, Seoul, Korea

M.D. '55, M.M. '57, D.M.S. '65, Yonsei University. Major: Pharmacology. Minor: Physiology. Thesis: Renal Reabsorption of Drugs. Major Adviser: Prof. F. E. Shideman.

**Philip Joseph Clausen, Vermillion,
S.D.**

B.S. with distinction '59, M.S. '65, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: A Revision of the Nearctic Species of the Tribe Parydrini (Diptera: Ephydriidae). Major Adviser: Prof. E. F. Cook.

William Thomas Clute, St. Paul

B.A. '63, Hamline University; M.A. '65, University of Maryland. Major: Sociology. Minor: Supporting Program. Thesis: Community Involvement and Associational Participation in a Racially Mixed Urban Area. Major Adviser: Prof. G. P. Stone.

Robert Charles Colligan, Bagley

B.S. '60, Bemidji State College; M.A. '65, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Deficits in Psychometric Performance Related to Perinatal Stress. Major Adviser: Prof. Jan Duker.

John David Cuddigan, Minneapolis

B.A. '55, M.A. '58, St. Louis University. Major: History. Minor: Political Science. Thesis: Three Puritan Peers: Their Religious Beliefs and Activities in the Puritan Revolution. Major Adviser: Prof. D. H. Willson.

Richard Waldron Davenport, Farmington, N.H.

B.S. in Chem. *cum laude* '65, University of New Hampshire. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Synthesis and Reactions of 1,3-Bridged Aromatic Compounds. Major Adviser: Prof. W. E. Parham.

William Martin Davidson, Newton, Mass.

B.A. '60, Dartmouth College; D.M.D. *cum laude* '65, Harvard School of Dental Medicine. Major: Anatomy. Minor: Dentistry. Thesis: *In Vitro* Studies of Chondrogenesis and Osteo Genesis. Major Adviser: Prof. P. K. Dixit.

Dorr Gellatly Dearborn, New Brighton

B.A. '61, Willamette University. Major: Biochemistry. Minor: Genetics. Thesis: Structural Studies on Human Serum Beta₂ Lipoprotein. Major Adviser: Prof. D. B. Wetlaufer.

Louis Mathieu deGryse, Chicago, Ill.

B.S. '46, McGill University; M.A. '49, Columbia University. Major: History. Minor: Art. Thesis: The Reform of Flemish Judicial and Fiscal Administration in the Reign of Philip of Alsace (1157/63-1191). Major Adviser: Prof. R. S. Hoyt.

Patrick Paul Dennis, Eau Claire, Wis.

B.S. '65, Wisconsin State College. Major: Genetics. Minor: Biochemistry. Thesis: Relationships Between Pyrimidine Pool Sizes and Macromolecular Synthesis in *Escherichia Coli*. Major Adviser: Prof. L. A. Snyder.

Donald Joseph Dietrich, Stevens Point, Wis.

B.S. '63, Canisius College; M.A. '65, University of Minnesota. Major: History. Minor: Political Science. Thesis: German Idealism and the German Catholic Theological Response—Hermes, Moehler, Staudenmaier and Gunther: 1815-1860. Major Adviser: Prof. O. P. Pflanze.

Edward David Emery, Northfield

B.A. '61, State College of Washington. Major: Economics. Minor: Supporting Program. Thesis: An Investigation of the Potential Welfare Effects from Rate of Return Regulation of the Steam-Electric Industry in the United States. Major Adviser: Prof. H. D. Mohring.

Robert Francis Estelle, St. Paul

B.S. with distinction '49, M.A. '53, University of Minnesota. Major: Spanish. Minor: Supporting Program. Thesis: The Interrelationship of Assonance, Verb Forms, and Syntax in the "Romances Viejos." Major Adviser: Prof. W. T. Pattison.

Dorothy Ann Evans, St. Paul

B.S. with high distinction '60, M.A. '64, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Word Associations Among Students of Low and Middle Socioeconomic Status. Major Adviser: Prof. B. E. Balow.

John Hartnett Faricy, St. Paul

B.S. '54, Creighton University; M.S. '63, University of Minnesota. Major: Business Administration. Minors: Psychology and Journalism. Thesis: Customer Shopping Patterns for Suburban Shopping Centers and Adjacent Discount Stores with Specific Reference to Grocery Shopping. Major Adviser: Prof. E. H. Lewis.

Norberto Angel Fava, Buenos Aires, Argentina

Lic. '64, Universidad de Buenos Aires. Major: Mathematics. Minor: Supporting Program. Thesis: Weak Type Inequalities for Iterated Operators. Major Adviser: Prof. R. V. Chacon.

Enrica Fish, Minneapolis

B.A. '59, McGill University; M.Ed. '60, Tufts University. Major: Education. Minor: Educational Psychology. Thesis: The Relationship of Teachers' Assigned Marks to Tested Achievement Among Elementary Grade, Racially Divergent, Lower Socio-Economic Status Boys and Girls. Major Adviser: Prof. N. C. Chase.

John Edward Foker, Minneapolis

B.A. '59, M.D. '63, Harvard College. Major: Microbiology. Minor: Biochemistry. Thesis: Studies of the Graft-Versus-Host Reaction. Major Adviser: Prof. R. A. Good.

Jai Prakash Gaur, Gwalior, India

B.E. '62, Birla College of Engineering; M.E. '63, Indian Institute of Science. Major: Electrical Engineering. Minor: Mathematics. Thesis: Investigation of the Cataphoresis Effect in Gas Discharges. Major Adviser: Prof. L. M. Chanin.

William James Geer, Minneapolis

B.F.A. '62, Minneapolis School of Art; B.A. '65, M.A. '67, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: The Artist as a Member of a Formal Organization. Major Adviser: Prof. D. A. Martindale.

Moses Haym Goldberg, New Orleans, La.

B.S. '61, Tulane University; M.A. '63, Stanford University; M.A. '65, University of Washington. Major: Speech-Communication. Minor: Supporting Program. Thesis: A Survey and Evaluation of Contemporary Principles and Practices at Selected European Children's Theatres. Major Adviser: Prof. K. L. Graham.

Gilbert Stephen Gomes, San Leandro, Calif.

B.S. '62, University of California. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Photochemistry of Benzene Vapor: Excitation in the First and Second Electronic Systems. Major Adviser: Prof. Sanford Lipsky.

Chester Lee Goodrich, Gibson City, Ill.

B.S. '63, University of Illinois; M.S. '66, University of Minnesota. Major: Agronomy. Minor: Statistics. Thesis: Evaluation of Two Selection Procedures for Improvement of Open-pollinated Varieties of Corn. Major Adviser: Prof. D. C. Rasmuson.

Karl Frederick Grittner, St. Paul

B.A. '45, Hamline University; M.A. '59, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Relationships Between Experience and Academic Qualifications in the Salary Schedules of Selected Metropolitan Area School Districts. Major Adviser: Prof. C. P. Hooker.

Bruce Edward Haissig, St. Paul

B.S. with distinction '60, University of Minnesota; M.S. '62, State University of New York. Major: Plant Physiology. Minor: Biochemistry. Thesis: Physiological Aspects of Adventitious Root Initiation in Brittle Willow, *Salix fragilis*. Major Adviser: Prof. A. J. Linck.

Jan Benjamin Hall, Madison, Wis.

B.S. '65, University of Wisconsin. Major: Inorganic Chemistry. Minor: Supporting Program. Thesis: The Structure of Some Group IV Pseudohalides. Major Adviser: Prof. J. D. Britton.

Fred William Hallberg, St. Paul

B.A. '58, M.A. '63, University of Minnesota. Major: Philosophy. Minor: Psychology. Thesis: The Empirical Status of Cartesian Dualism. Major Adviser: Prof. Herbert Feigl.

Terry Halwes, Arlington, Tex.

B.A. '65, Arlington State College. Major: Psychology. Minor: Child Psychology. Thesis: Effects of Dichotic Fusion on the Perception of Speech. Major Adviser: Prof. J. J. Jenkins.

Caroline Wolf Harlow, Minneapolis

B.A. '62, College of St. Catherine; M.A. '64, University of Minnesota. Major: Political Science. Minor: History. Thesis: A Longitudinal Analysis of the Stability of Voting Blocs in the United States House of Representatives During the Eisenhower Years, 1952-1960. Major Adviser: Prof. F. J. Sorauf.

Bruce Lowell Hawkins, St. Paul

B.S. cum laude '64, Hamline University. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Conformational Analysis of 3-Methylcyclohexene and *Trans*-3,6-Dimethylcyclohexene. Major Adviser: Prof. E. W. Garbisch.

Ada Gay Hegion, Pincher Creek, Alberta, Canada

B.S. '59, University of Alberta; M.A. '67, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Role Playing and Communication: A Developmental Study. Major Adviser: Prof. J. H. Flavell.

Lyle Raymond Heim, Milaca

B.A. '63, M.S. '66, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: Effect of Thymectomy and/or Adrenalectomy on Mouse Lymphoid Tissue During Graft-Versus-Host Reaction: Delineation of Thymus Dependent Lymphoid Elements. Major Adviser: Prof. R. A. Good.

Hazel Lucile Heiman, Grand Forks,
N.D.

B.S. '47, Southern State College; M.A. '59, University of South Dakota. Major: Speech-Communication. Minor: Supporting Program. Thesis: A Historical Study of the Persuasion of the Populist Impulse in South Dakota. Major Adviser: Prof. E. G. Bormann.

Arthur Dean Hendrickson, Duluth

B.S. '49, M.A. '51, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Study of the Relative Effectiveness of Three Methods of Teaching Mathematics to Prospective Elementary School Teachers. Major Adviser: Prof. D. A. Johnson.

Robert William Herdt, Glen Cove,
N.Y.

B.S. '61, M.S. '63, Cornell University. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of the Aggregate Supply Function of Agriculture in the Punjab (India). Major Adviser: Prof. W. W. Cochrane.

Charles William Hobbs, Winfield,
Mo.

B.S. '65, Southwest Missouri State College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Synthesis and Study of Some Dimethylindium (III) and Dimethyltin (IV) Complexes. Major Adviser: Prof. R. S. Tobias.

Ronald Harold Hofstetter, Kitchener,
Ontario, Canada

B.S. '52, M.S. '64, McMaster University. Major: Botany. Minor: Supporting Program. Thesis: Floristic and Ecological Studies of Wetlands in Minnesota. Major Adviser: Prof. Evile Gorham.

Thomas Dana Hollmann, Princeton,
N.J.

B.A. '66, Rutgers College. Major: Psychology. Minor: Educational Psychology. Thesis: Some Factors Affecting Information Processing and Decision Making in the Employment Interview. Major Adviser: Prof. M. D. Dunnette.

Margaret Howard Hoopes, Ephrata,
Wash.

B.S. '53, Ricks College; M.A. '62, Brigham Young University. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Structuring Goals in the Process of Group Counseling for Academic Improvement. Major Adviser: Prof. C. A. Parker.

Chun Huh, Seoul, Korea

B.S. '65, Seoul National University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Capillary Hydrodynamics "Interfacial Instability and the Solid/Liquid/Fluid Contact Line." Major Adviser: Prof. L. E. Scriven.

Jonathan Edward Colin Hutchins,
Los Angeles, Calif.

B.A. '63, Oxford University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: BH_3 as a Reaction Intermediate. Major Adviser: Prof. M. M. Kreevoy.

Simeon Kedogo Imbamba, Maragoli,
Kenya

B.A. '64, M.S. '65, Southern Illinois University. Major: Plant Physiology. Minor: Botany. Thesis: Effect of 2-Chloro-4-Ethylamino-6-Iso-propyl-Amino-S-Triazine (Atrazine) on Physiological Processes in Leaves. Major Adviser: Prof. D. N. Moss.

Joyce Taborn Jackson, Golden Valley

B.A. '51, M.S. in Ed. '52, Southern Illinois University. Major: Education. Minor: Supporting Program. Thesis: Teacher Influence and Classroom Behavior of Emotionally Disturbed Students in Regular Classes of a Junior High School. Major Adviser: Prof. W. W. Tennyson.

Kenneth Eugene James, Salem, Ore.

B.S. '65, Walla Walla College; M.S. '67, University of Minnesota. Major: Biometry. Minor: Statistics. Thesis: A System for Convenient Description and Analysis of Linear Classification Models Utilizing an Orthogonal Projection Operator. Major Adviser: Prof. E. A. Johnson.

Charles Berthil Johansson, Edina

B.A. '64, M.A. '65, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Psychometric Characteristics of the Inventory of Interests—1969. Major Adviser: Prof. D. P. Campbell.

Douglas Robert Johnson, Delmar,
N.Y.

B.A. '65, Middlebury College. Major: Organic Chemistry. Minors: Physical Chemistry and Biochemistry. Thesis: Strained Aromatic Systems: The Synthesis of 8,9-Benzo-12-Halo [6]-Metacyclophane. Major Adviser: Prof. W. E. Parham.

Jerry Michael Johnson, St. Paul

B.A. '65, M.S. '66, University of Minnesota. Major: Environmental Health. Minor: Entomology. Thesis: The Potential Productivity of Fresh Water Environments as Determined by Algal Bioassay Techniques. Major Adviser: Prof. T. A. Olson.

Ronald James Johnson, St. Paul

B.S. '60, M.S. '67, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Effect in Training in Letter Names on Success in Beginning Reading for Children of Differing Abilities. Major Adviser: Prof. Robert Dykstra.

Ramachandra H. Joisa, Panja, India

B.S. '60, University of Mysore; B.E. with distinction '63, M.E. '65, Indian Institute of Science. Major: Electrical Engineering. Minor: Mathematics. Thesis: Sensitivity Analysis of Nonlinear Estimation Algorithms. Major Adviser: Prof. K. S. P. Kumar.

Ronald Elwin Kaldenberg, Pella, Iowa

B.S. '61, M.S. '64, Iowa State University. Major: Agricultural Economics. Minor: Economics. Thesis: Economic Analysis of the Optimal Size and Location of Southern Minnesota Country Elevators. Major Adviser: Prof. R. P. Dahl.

Amarlal Harichand Kalro, Bombay, India

B.Tech with honors '63, Indian Institute of Technology; M.S.I.E. '67, University of Minnesota. Major: Industrial Engineering. Minor: Mathematics. Thesis: The Analysis and Design of Multi-State Inventory Problems. Major Adviser: Prof. S. R. Arora.

Dianne Josephson Kieren, Virginia

B.A. *magna cum laude* '63, St. Olaf College; M.S. '66, University of Minnesota. Major: Home Economics. Minor: Child Psychology. Thesis: Adaptability: A Measure of Spousal Problem Solving and Its Relation to Child Rearing Practices. Major Adviser: Prof. Irving Tallman.

Dennis Eugene Konasewich, Redwater, Alberta, Canada

B.S. with honors '65, University of Alberta. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Hydrolysis of the Diazoacetate Ion. Major Adviser: Prof. M. M. Kreevoy.

Komandur Rama Krishnan, Bangalore, India

B.E. '62, Nagpur University; M.S. '63, University of Illinois. Major: Electrical Engineering. Minor: Mathematics. Thesis: On Hamilton Paths in Tree-Graphs and the Generation of Trees. Major Adviser: Prof. B. A. Sheno.

Thomas Albert Kucharek, South Euclid, Ohio

B.S. '62, Kent State University; M.S. '65, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Factors Influencing Teliospore Germination of *Puccinia recondita* f. sp. *tritici*. Major Adviser: Prof. M. F. Kernkamp.

Joseph Emil LaBelle, Winona

B.A. '51, St. Mary's College; M.A. '59, St. Louis University. Major: Education. Minor: History and Philosophy of Education. Thesis: Leadership Patterns of Chief Administrators in Six Christian Brothers' Colleges. Major Adviser: Prof. R. E. Eckert.

John Allen Landsverk, Ada

B.A. '66, M.A. '67, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: The Impact of Religious Affiliation on Secular Aspiration and Achievement Among Minnesota Public High School Students. Major Adviser: Prof. D. A. Martindale.

Dalmon Martin Larson, Twin Valley

B.S. '61, North Dakota State University of Agriculture and Applied Science. Major: Nutrition. Minor: Biochemistry. Thesis: Absorption, Excretion, and Utilization of Certain D-Amino Acids in the Germ-free Chick. Major Adviser: Prof. P. E. Waibel.

Juris Christopher Lasmanis, South Bend, Ind.

B.A. '65, Indiana University. Major: Education. Minor: Educational Psychology. Thesis: A Markov-Chain Model for the Prediction and Control of College Enrollment. Major Adviser: Prof. V. D. Mueller.

Charles Tsungnan Lee, Taipei, Taiwan

B.S.E. '62, National Taiwan University; M.S. '67, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Damping Characteristics of Composite Engineering Structures. Major Adviser: Prof. Robert Plunkett.

Robert Alan Lewis, Madison, Wis.

B.A. '53, University of Wisconsin; M.A. '66, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Developmental Processes in Premarital Dyadic Formation. Major Adviser: Prof. Reuben Hill.

Jerry Allen Lezniak, Minneapolis

B. of Physics '63, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: A Measurement of Charged Particle Spectra in Interplanetary Space. Major Adviser: Prof. W. R. Webber.

Paul Clyde Litzinger, Ebensburg, Pa.

B.S. '65, St. Francis College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Some Heterogeneous Reactions Between Mercury (II) Compounds with Elemental Mercury. Major Adviser: Prof. M. M. Kreevoy.

Peter Daniel Lohn, Minneapolis

B.S. with distinction '62, M.S. Aero. Eng. '65, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: Structure of a Strong Shock in a Monatomic Gas. Major Adviser: Prof. T. S. Lundgren.

Lynn Mansell Louden, Oakland, Calif.

B.A. '58, Gettysburg College; M.A. '63, University of Minnesota. Major: Art History. Minor: Philosophy. Thesis: Emergent Romanticism in the Drawings of Thomas Girtin. Major Adviser: Prof. Melvin Waldfoegel.

Geula Grinberg Lowenberg, Haifa,
Israel

B.A. '57, Hebrew University of Jerusalem; M.A. '59, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Investigation of Convergent and Discriminant Validity of Trait Dimensions, Defined by a Self-Descriptive Adjective Checklist. Major Advisers: Profs. W. A. Russell and M. D. Dunnette.

Michael Jerry Lyons, St. Paul

B.A. '54, M.A. '63, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: The Liberal Reconsideration of Property: The Debate Over the Irish Land Act of 1881. Major Adviser: Prof. J. L. Altholz.

Edward Lawrence MacGaffey,
Necedah, Wis.

B.S. '36, M.A. '37, University of Wisconsin; M.S.W. '53, University of Minnesota. Major: Social Work. Minor: Public Health. Thesis: Comparative Impact Upon the Patient of Two Forms of After-Hospital Care, Hospital-Based Home Care and Nursing-Home Care, As Indicated in Certain Standard Measures. Major Adviser: Prof. L. N. Scott.

Shashi Dhar Malaviya, Allahabad,
India

B.S. '46, Benares Hindu University; M.S.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Study of Noise in Transistors at Microwave Frequencies up to 4 GHz. Major Adviser: Prof. Aldert van der Ziel.

Ludwig Anthony Mayer, Los Angeles,
Calif.

B.S. '60, University of California; M.S. '65, San Diego State College. Major: Inorganic Chemistry. Minor: Supporting Program. Thesis: Theoretical Aspects of the Pfeiffer Effect. Major Adviser: Prof. R. C. Brasted.

Joseph Leo Mayou, Minneapolis

B.S. '52, M.S. '55, University of Minnesota. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Some Factors Affecting the Thermal Inactivation of *B. Stearotherophilus* Spores. Major Adviser: Prof. J. J. Jezeski.

John McDonald, Minneapolis

B.S. '65, University of Edinburgh. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Thermal Conductivity of Molten Alkali Nitrates and Halides. Major Adviser: Prof. H. T. Davis.

Lawrence Joseph McDonald, Minne-
apolis

B.Math. with high distinction '62, M.S. '65, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Equivalent Potentials for Pion-Alpha Scattering. Major Adviser: Prof. A. M. Bolsterli.

Roger Alan Messenger, South St. Paul

B.S. with high distinction '65, M.S. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise Temperature as a Tool in Gas Discharge Research. Major Adviser: Prof. Aldert van der Ziel.

William Scott Meyer, Minneapolis

B.S. with high distinction '64, M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Results on the Exploitation of Sparsity by Linear Approximations Applicable to Power System Static Optimization Problems. Major Adviser: Prof. V. D. Albertson.

Alfred Edward Miron, Hugo

B.S. with distinction '64, M.S. '66, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Urea-Nitrogen Utilization in the Ruminant. Major Adviser: Prof. R. J. Simy.

Mary Virginia Mitchell, Safford, Ariz.

B.A. '49, M.A. '51, Louisiana State University. Major: English. Minor: German. Thesis: Joseph Conrad and 19th Century Aesthetic Tradition. Major Adviser: Prof. L. H. Unger.

Trinidad Roldan Montero, Bani, Pangasinan, Philippines

B.S.E. '62, Arellano University; M.A. '67, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Assessment of Public School Practice in Reading Instruction in the State of Minnesota with Recommendations for Reorganization and Improvement. Major Adviser: Prof. J. C. Manning.

James Paul Nelson, Alpha, Ill.

B.S. '65, University of Illinois. Major: Organic Chemistry. Minors: Physical Chemistry and Biochemistry. Thesis: Sulfur Monoxide: Reactions with Trienes. Major Adviser: Prof. R. M. Dodson.

Norma Arleane Nelson, Philip, S.D.

B.A. '50, Augustana College; M.A. '56, University of South Dakota. Major: Biometry. Minor: Mathematics. Thesis: Treatment Estimation in Randomized Clinical Trials with Strata Heterogeneity. Major Adviser: Prof. R. B. McHugh.

Laurence Elwood Nyquist, Tracy

B.A. *summa cum laude* '61, Macalester College; M.S. '63, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Cosmic Ray Record in the Metallic Phase of Chondrites. Major Advisers: Profs. R. O. Pepin and P. Signer.

Robert Fredrick Nyvall, Thief River Falls

B.S. '65, M.S. '66, University of Minnesota. Major: Plant Pathology. Minor: Soil Science. Thesis: Biotic Factors Affecting the Growth of *Fusarium roseum* in the Soil. Major Adviser: Prof. Thor Kommedahl.

George Michael O'Brien, Duluth

B.A. '57, St. Norbert College; M.A. '64, Brown University. Major: German. Minor: Supporting Program. Thesis: The Ethic Developed in the Works of Ludwig Anzengruber. Major Adviser: Prof. E. F. Menze.

Shigeru Ochi, New Brighton

B.A. *summa cum laude* '49, Macalester College; M.S. '51, Massachusetts Institute of Technology. Major: Biometry. Minor: Supporting Program. Thesis: Laboratory Automation for Improved Speed, Quality Control, and Diagnosis. Major Adviser: Prof. E. A. Johnson.

James Harry Olson, St. Paul

B.S. with high distinction '49, M.A. '66, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Performance of Second Grade Children on "Taught" and "Untaught" Words Having Regular and Less Regular Spelling Patterns. Major Adviser: Prof. T. W. Clymer.

Hans George Othmer, Woodland, Mich.

B.S. '65, Michigan State University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Interactions of Reaction and Diffusion in Open Systems. Major Adviser: Prof. L. E. Scriven.

Won Joon Park, Seoul, Korea

B.S.E. '67, Seoul National University; M.A. '66, University of California. Major: Mathematics. Minor: Statistics. Thesis: Multi-parameter Gaussian Processes. Major Adviser: Prof. Gopinath Kallianpur.

Paul David Pearson, Healdsburg, Calif.

B.A. '63, University of California. Major: Education. Minor: Educational Psychology. Thesis: The Effects of Grammatical Complexity on Children's Recall and Comprehension Under Conditions of Semantic Stability. Major Adviser: Prof. J. C. Manning.

William Peters, Steinbach, Manitoba, Canada

B.A. '55, B.Ed. '55, M.Ed. '63, University of Manitoba. Major: Education. Minor: Geography. Thesis: Perceptual Agreement of Social Studies Teachers and Professional Geographers on Aspects of a Cognitive Geographic Paradigm. Major Adviser: Prof. W. E. Gardner.

Carol Wilts Peterson, Burnsville

B.S. with high distinction '63, M.Ed. '64, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Secondary School Counselors' and Nurse Educators' Perceptions of Trends in Nursing Education and Images of Nursing. Major Adviser: Prof. R. E. Eckert.

Dale William Peterson, St. Cloud

B.A. *magna cum laude* '53, Macalester College; M.A. '61, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Diplomatic and Commercial Relations Between the United States and Peru from 1883 to 1918. Major Adviser: Prof. W. D. Beatty.

Dennis Randall Peterson, White Bear Lake

B.Chem. '64, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Structure and Catalytic Mechanism of a Fungal B-1, 3-Glucan Cluchydrolase. Major Adviser: Prof. Samuel Kirkwood.

James Robert Peterson, Chisago City

B.S. '61, California State Polytechnic College; M.S. '63, University of Minnesota. Major: Soil Science. Minor: Supporting Program. Thesis: Soil Properties Which Influence Bioactivity of Organochlorine Insecticide Residues in Soils. Major Adviser: Prof. R. S. Adams, Jr.

Sue Woestehoff Peterson, Minneapolis

B.S. with distinction '64, M.A. '65, University of Minnesota. Major: Education. Minor: English. Thesis: Responses of Children to Literary Characters Who Speak Variant Dialect Forms of American English. Major Adviser: Prof. Norine Odland.

Thomas Walter Petrie, Fond du Lac, Wis.

B.M.E. '64, Marquette University; M.S.Mech. Eng. '67, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Effect of Ionization on Heat Transfer to Wires Immersed in an Arc Plasma. Major Adviser: Prof. Emil Pfender.

Jack Arthur Peverill, Minneapolis

B.A. *cum laude* '55, Amherst College. Major: Psychology. Minor: Child Psychology. Thesis: A Scale for Identification of Learning Disability Using the Personality Inventory for Children. Major Adviser: Prof. R. D. Wirt.

Frank Charles Pratzner, Egg Harbor City, N.J.

B.A. '60, Trenton State College; M.A. '65, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Testing an Empirical Procedure for Identifying Technical Associative Conceptual Structure: Discriminating Between Workmen Within and Between Two Occupations. Major Adviser: Prof. Jerome Moss, Jr.

Robert Dale Pritchard, Lynwood, Calif.

B.A. '66, University of California. Major: Psychology. Minor: Educational Psychology. Thesis: An Experimental Study of the Effects of Perceptions of Equity and Inequity on Worker Performance and Satisfaction. Major Adviser: Prof. J. P. Campbell.

Daisie Missouri Radner, Hellam, Pa.

B.A. *summa cum laude* '65, Gettysburg College. Major: Philosophy. Thesis: Causality: A Study of Seventeenth Century Philosophy. Major Adviser: Prof. D. E. Lewis.

Romeo Salinas Raros, Neuva Vizcaya, Philippines

B.S. in Agr. '60, University of the Philippines; M.S. '66, University of Minnesota. Major: Entomology. Minor: Supporting Program. Thesis: The Influence of Hypothermia on the Population Dynamics of Flour Beetles, Especially *Tribolium Confusum* Duval. Major Adviser: Prof. H. C. Chiang.

John Grant Rhode, Minneapolis

B.S.B. '62, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: The Vocational Interests of Business Administration Professors. Major Adviser: Prof. R. G. Berryman.

Roy Richardson, Minneapolis

B.A. '52, Macalester College; M.A. '53, University of Illinois. Major: Industrial Relations. Minor: Supporting Program. Thesis: An Empirical Study of Fair Pay Perceptions and Time Span of Discretion. Major Adviser: Prof. T. A. Mahoney.

Earl Michael Riegle, Evergreen Park, Ill.

B.A. '65, Knox College. Major: Psychology. Minor: Child Psychology. Thesis: Some Perceptual Characteristics of Phrase Structure Rule Learning. Major Adviser: Prof. J. J. Jenkins.

Thomas Nolan Riley, Louisville, Ky.

B.S. in Pharm. '63, University of Kentucky. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Absolute Stereochemistry and Adrenolytic Activity of (+)- and (-)- Phenoxybenzamine Hydrochloride and Configurational Studies of Analeptic and Analgesic Agents. Major Adviser: Prof. P. S. Portoghesi.

Michael Jerome Rockler, Minneapolis

B.A. *magna cum laude* '61, B.S. '62, M.A. '67, University of Minnesota. Major: Education. Minor: Sociology. Thesis: The Effects of a Junior High School Course in Political Behavior on Political Socialization. Major Adviser: Prof. Edith West.

Jon Erik Rolf, Los Angeles, Calif.

B.A. *cum laude* '65, Amherst College. Major: Psychology. Minor: Supporting Program. Thesis: The Academic and Social Competence of School Children Vulnerable to Behavior Pathology. Major Adviser: Prof. Norman Garnezy.

Richard Rosenberg, State College, Pa.

B.B.A. '60, City College of New York. Major: Economics. Minor: Political Science. Thesis: The Geographic Incidence of the Federal Tax Burden. Major Adviser: Prof. Herbert Mohring.

Neil Paul Rosenthal, St. Paul

B.S. with honor '63, California Institute of Technology; M.D. '68, University of Minnesota. Major: Physiology. Minor: Supporting Program. Thesis: A Linear Systems Analysis of the Myotatic Reflex and Its Component Systems. Major Adviser: Prof. Carlo Terzuolo.

Allan Stuart Rumbelow, Edmonton, Alberta, Canada

B.A. '41, B.Ed. '49, University of Saskatchewan; M.Ed. '58, University of Minnesota. Major: Music. Minor: Sociology. Thesis: Music and Social Groups: An Interactional Approach to the Sociology of Music. Major Adviser: Prof. Johannes Riedel.

Wilfredo Sergio Salhuana, Peru

Ing. Agronomo '51, Escuela Nacional de Agricultura; M.S. '60, North Carolina State College of Agriculture and Engineering. Major: Agronomy. Minor: Biometry. Thesis: Study of the Genetic Relationship and Heterosis on Inter and Intra Crosses of Peruvian Races of Maize (*Zea Mays*). Major Adviser: Prof. R. E. Comstock.

Mahmoud Sayrafiezadeh, Tabriz, Iran

B.A. '57, Colgate University; M.A. '63, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Compactness Properties of Families of Convex Sets. Major Adviser: Prof. Heinrich Guggenheimer.

Mabel Esther Schleif, Buffalo

B.S. with distinction '50, M.S. '61, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Experimental Study Investigating the Relationships Among Preferred Modality, Instructional Method, and Written Vocabulary Acquisition of Naive Readers. Major Adviser: Prof. J. C. Manning.

Carolyn Gitzen Schluck, Tallahassee, Fla.

B.A. *magna cum laude* '55, Franklin College; M.S. '59, Butler University. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Predicting Teaching Style Using the MMPI. Major Adviser: Prof. R. E. Wilk.

Gerald Joseph Schluck, Minneapolis

B.S. '59, University of Minnesota. Major: Educational Psychology. Minor: Mathematics. Thesis: Multivariate Sequential Analysis for Education. Major Adviser: Prof. R. O. Collier, Jr.

H. Giles Schmid, Winona

B.S.S. '54, St. Mary's College; M.B.A. '60, De Paul University. Major: Business Administration. Minors: Education and Economics. Thesis: An Experiment on the Reliability and Validity of the Performance Measure, Profits, in Two Management Games. Major Adviser: Prof. T. R. Hoffmann.

Roger Howard Schnaitter, Minneapolis

B.A. *cum laude* '64, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Perceptual Contrast in Operant Behavior. Major Adviser: Prof. Kenneth MacCorquodale.

Jack Allan Schwandt, Enderlin, N.D.
B.A. '52, Concordia College; M.A. '59, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: Two Approaches to Politics: The Relationship of the Traditional and the Contemporary Study of Politics. Major Adviser: Prof. M. Q. Sibley.

Alvin Lynn Scoresby, Iona, Idaho
B.S. '65, M.A. '66, Brigham Young University. Major: Educational Psychology. Minor: Psychology. Thesis: An Experimental Comparison of Confirmed and Disconfirmed Anticipations for Reinforcement in Group Counseling. Major Adviser: Prof. C. A. Parker.

William Martin Scovell, Kingston, Pa.
B.S. in Chem. '65, Lebanon Valley College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Synthesis and Structural Characterization of Selected Dialkylgold (III) Compounds. Major Adviser: Prof. R. S. Tobias.

Raghu Nandan Sharma, New Delhi, India

B.S. with honors '57, University of Delhi; M.E. '61, Indian Institute of Science; M.S. '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Fluctuation Studies in Mercury Cadmium Telluride. Major Adviser: Prof. K. M. van Vliet.

William Bruce Shepherd, Minneapolis
B.Eng.Phys. '62, Cornell University; M.S. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Observation of Surface State Emission in the Energy Distribution of Electrons Field Emitted from Ge (100). Major Adviser: Prof. W. T. Peria.

K. P. Vasantha Shetty, Udipi, Mysore, India

B.S. '61, M.S. '63, Karnatak University. Major: Horticulture. Minor: Plant Physiology. Thesis: Effects of Succinic Acid 2,2 Dimethyl Hydrazide on Vine and Tuber Growth in Two Potato Varieties (*Solanum tuberosum* L.). Major Adviser: Prof. R. E. Nyland.

Alan McKean Shorb, Baltimore, Md.
B.A. '60, Swarthmore College; M.A. '65, Cornell University. Major: Mathematics. Minor: Philosophy. Thesis: Contributions to Boolean-Valued Model Theory. Major Adviser: Prof. Erwin Engeler.

John Edward Sitter, Cumberland, Md.
B.A. *magna cum laude* '66, Harvard College. Major: English. Minor: Supporting Program. Thesis: The Poetry of Pope's *Dunciad*. Major Adviser: Prof. S. H. Monk.

Olin Dail Smith, Tonkawa, Okla.
B.S. '54, M.S. '61, Oklahoma State University. Major: Agronomy. Minor: Supporting Program. Thesis: Intergenotypic Competition Among Five Varieties of Spring Oats (*Avena Sativa* L.). Major Adviser: Prof. R. A. Kleese.

Stephen Edward Smits, West De Pere, Wis.

B.S. *cum laude* '65, St. Norberts College. Major: Pharmacology. Minor: Biochemistry. Thesis: Some of the Similarities and Differences in the Analgesic Receptors for Several Narcotic and Narcotic Antagonist-Analgesics in Mice. Major Adviser: Prof. A. E. Take-mori.

Rangarajan Srinivasagopalan, Madras, India

B.S. '57, University of Madras; D.M.I.T. '60, Madras Institute of Technology; M.S.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Synthesis of Network Functions From Their Power Series Expansion. Major Adviser: Prof. B. A. Shenoi.

Wayne Luvern Stockland, Cosmos
B.S. '64, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Availability of Amino Acids From Meat and Bone Scraps as Measured by Concentrations of Free Amino Acids in Plasma From Growing Rats and Swine. Major Adviser: Prof. R. J. Meade.

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B.A. '65, University of Michigan; M.A. '67, University of Minnesota. Major: Psychology. Minor: Industrial Relations. Thesis: The Effects of Mode of Organization, Type of Feedback, and Source of Evaluation on the Performance and Satisfaction of Creative Task Groups. Major Adviser: Prof. J. P. Campbell.

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B.S. '54, University of Michigan; M.S. '66, University of Minnesota. Major: Agronomy. Minor: Plant Physiology. Thesis: Factors Affecting the Herbicidal Activity of Atrazine Applied as a Foliar Spray with Oil and Other Adjuvants. Major Adviser: Prof. Richard Behrens.

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B.S. '62, University of Maryland. Major: Psychology. Minor: Supporting Program. Thesis: The Systematic Use of Positive Reinforcement in the Treatment of Functionally Mentally Ill Adult Outpatients. Major Adviser: Prof. D. T. Lykken.

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B.S. '65, M.S. '66, University of Minnesota. Major: Environmental Health. Minor: Biometry. Thesis: Relationship of Current From Charged Atmospheric Aerosols to Atmospheric Mass Concentration. Major Adviser: Prof. H. J. Paulus.

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B.S.Mech.Eng. '57, Kansas State University; M.S. '62, Rensselaer Polytechnic Institute. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Turbulent Heat Transfer in Tubes Having Two-Dimensional Roughness, Including the Effect of Prandtl Number. Major Adviser: Prof. E. R. G. Eckert.

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B.S. '53, M.S. '61, Iowa State University. Major: Political Science. Minors: Agricultural Economics and Economics. Thesis: Determinants of County Government Expenditure Levels in Minnesota. Major Adviser: Prof. G. A. Warp.

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B.A. '63, Stanford University; M.S. '66, Baylor University. Major: Genetics. Minor: Biochemistry. Thesis: Cell Wall Synthesizing Enzymes in a Mutant of *Neurospora Crassa* Lacking Cell Walls. Major Adviser: Prof. V. W. Woodward.

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B.A. '62, M.A. '63, Andrews University. Major: Mathematics. Minor: Philosophy. Thesis: Vector Fields and Differentials on Analytic Spaces. Major Adviser: Prof. Alfred Aepli.

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B.S. '62, Nanyang University. Major: Organic Chemistry. Minor: Chemistry. Thesis: Steric and Electronic Effects of the Solvolysis of Monochloro- and 1,1-Dichlorocyclopropanes. Major Adviser: Prof. W. E. Parham.

Donald George Zahn, West St. Paul

B.B.A. '48, M.A.P.A. '56, Spec. Cert. '66, University of Minnesota. Major: Educational Administration. Minor: Education. Thesis: The Nature of Workload Processed at Formal Meetings of Minnesota School Boards and Its Relationship with Selected School Board Characteristics. Major Adviser: Prof. V. D. Mueller.

Doctor of Philosophy in Medicine (Internal)

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F.S.C. '53, Emerson College; M.B.B.S. '58, Nishtar Medical College. Major: Medicine (Internal). Minor: Microbiology. Thesis: Immunochemical Studies of the Anti-D and Anti-Kell Antibodies; with Some Observations on the Role of Sialic Acid in Hemagglutination. Major Adviser: Dr. H. H. Zinneman.

Doctor of Philosophy in Surgery

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B.A. '58, B.S. '59, University of North Dakota; M.D. '61, University of Pennsylvania. Major: Surgery. Minor: Pathology. Thesis: Autonomic Nervous System Influence on Pancreatic Secretion, Ductal Pressure, and Blood Flow. Major Adviser: Dr. A. S. Leonard.

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B.A. '56, B.S. '60, St. Cloud State College. Field of Concentration: Distributive Education. Major Adviser: Prof. W. G. Meyer.

Daniel Walter Cryer, Dayton, Ohio

B.A. '65, College of Wooster. Major: History. Minor: Sociology. Thesis: Mary White Ovington and Oswald Garrison Villard: The Political Thought and Racial Attitudes of Two Founders of the NAACP, a Study in Contrasts. Major Adviser: Prof. A. H. Spear.

Raymond Joseph Cummings, Hugo

B.A. *magna cum laude* '67, College of St. Thomas. Major: Sociology. Minor: Educational Psychology. Thesis: A Test for Unidimensionality in Conjugal Power Measures. Major Adviser: Prof. Joan Aldous.

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B.S. in Biochem. *magna cum laude* '67, University of Santo Tomas. Major: Biochemistry. Minor: Microbiology. Thesis: Studies on the RNA of *Rhodopseudomonas Spheroides*. Major Adviser: Prof. E. D. Gray.

Fong-Ming Do, China

B.S. in Agr. '63, National Taiwan University. Major: Entomology. Minor: Biochemistry. Thesis: Some Aspects of Kinetic Relationships of the Enzyme ATPase in Relation to DDT and Dicolof. Major Adviser: Prof. L. K. Cutkomp.

Charles Edward Drake, Minneapolis

B.S. in Pharm. '55, University of Minnesota. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

Roger Frank Elo, Chisholm

B.A. magna cum laude '67, University of Minnesota. Field of Concentration: Computer and Information Science. Major Adviser: Prof. W. D. Munro.

Winifred Ann Ettesvold, Grand Rapids, Mich.

B.A. '67, Calvin College. Field of Concentration: Mathematics. Major Adviser: Prof. A. A. Sagle.

Bobbie Ann Fredsall, Minneapolis

B.A. '67, Macalester College. Major: Mathematics. Thesis: Group Algebras, Radicals, and Semi-simplicity. Major Adviser: Prof. S. K. Grosser.

Sundaram Govindarajan, New Delhi, India

B.S. '64, University of Delhi; B.S. (Tech.) '66, University of Bombay. Major: Food Science and Industries. Minor: Biochemistry. Thesis: A Study of Development and Identification of Pink Colouration Compounds in Cheddar Cheese. Major Adviser: Prof. H. A. Morris.

Vinod Prasad Gupta, Dehri on Sone, India

B.Tech. with honors '68, Indian Institute of Technology. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. J. P. Moran.

Arthur Wayne Hafner, Fort Wayne, Ind.

B.S. in Math. '65, Purdue University. Field of Concentration: Mathematics. Major Adviser: Prof. Walter Littman.

Jean Ann Hanson, Minneapolis

B.S.N. with distinction '65, University of Minnesota. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

David Wells Harvey, Minneapolis

B.B.A. '66, University of Wisconsin. Field of Concentration: Business Administration. Major Adviser: Prof. G. B. Davis.

Horace Eli Hemenway, Red Wing

B.S. '59, Mankato State College. Major: Anatomy. Minor: Zoology. Thesis: A Comparison of Genetic and Environmentally Induced Vertebral Abnormalities in the Mouse. Major Adviser: Prof. Morris Smithberg.

Daphne Wahl Hill, New Orleans, La.

B.S. '66, Newcomb College of Tulane University. Major: Genetics. Minors: Biometry and Biochemistry. Thesis: An Analysis of Electrophoretic Variants of Leucine Aminopeptidase and Aldehyde Oxidase in *Tribolium Castaneum*. Major Adviser: Prof. F. D. Enfield.

Fu-mei Hsu, Chia-Yi, Taiwan

B.S. '66, National Taiwan University. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Regioselectivity of Electrophilic Attack of Norbornene Systems. Major Adviser: Prof. Ronald Caple.

Bab Rong Huang, Taiwan

B.S. in Pharm. '66, National Taiwan University. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

Chyi-Sheng Hwang, Taipei, Taiwan

B.S. '65, Taiwan Provincial Chung-Hsing University. Major: Soil Science. Minor: Civil Engineering. Thesis: Wet Strength of Pulverized Soil Aggregates. Major Adviser: Prof. G. R. Blake.

Henry Gilbert Ingersoll, Jr., Minneapolis

B.A. '67, Dartmouth College. Major: Physical Chemistry. Minors: Chemical Engineering and Physics. Thesis: Stiffness of Helical Polypeptides in Mixed Solvent Systems. Major Adviser: Prof. W. G. Miller.

Miriam Katz Jacobsohn, Hadera, Israel

B.S. '67, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. G. B. Ownbey.

Kenneth Martin Johnson, Peacedale, R.I.

B.S. '62, University of Rhode Island. Major: Zoology. Minor: Statistics. Thesis: A Description of an Angled Population of Yellow Perch (*Perca flavescens*) of Gull Lake, Michigan. Major Adviser: Prof. C. W. Huver.

Tetsuo Kakehi, Kyoto, Japan

B.S.E. '58, Nagoya University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Ring Expansion Reactions of Diisatogens. Major Adviser: Prof. W. E. Noland.

Li-lan Kao, Taipei, Taiwan

B.S.N. '56, National Defense Medical Center. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

Garth Lloyd Kauffman, Marion, S.D.

B.S. '66, South Dakota State College of Agriculture and Mechanic Arts. Major: Nutrition. Minor: Biochemistry. Thesis: Ruminant Organic Acid Production and Development in the Veal Calf. Major Advisers: Profs. R. J. Simy and D. E. Otterby.

Dennis Paul Landucci, St. Paul

B.Chem. '66, University of Minnesota. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: A Study of the Bromination of Methylindoles and a Related Oxidation Product From 2,3-Dimethylindole. Major Adviser: Prof. W. E. Noland.

Janice Marie Ley, Rochester

B.S. '64, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Estimation of α -Lactalbumin Content in Whey Proteins by the Lactose Synthetase Reaction. Major Adviser: Prof. Robert Jenness.

William George Lindner, Edina

B.A. '63, B.Chem. '66, B.S. '67, University of Minnesota. Field of Concentration: Biology. Major Adviser: Prof. H. C. Chiang.

Marianne K. Litzinger, Baltimore, Md.

B.Chem. with distinction '67, University of Minnesota. Field of Concentration: Physical Chemistry. Major Adviser: Prof. A. J. Moscovitz.

Thomas Eugene Lucas, Edgerton

D.V.M. '58, University of Minnesota. Major: Veterinary Microbiology. Minor: Animal Science. Thesis: The Antibiotic Treatment of Turkey Hatching Eggs Pre-infected with Salmonellae. Major Adviser: Prof. B. S. Pomeroy.

Lorraine R. Matusak, Chicago, Ill.

B.A. '66, College of St. Benedict. Field of Concentration: Entomology. Major Adviser: Prof. M. A. Brooks.

John Arthur Menge, Minneapolis

B.S. with distinction '67, University of Minnesota. Major: Plant Pathology. Minor: Microbiology. Thesis: The Ecology and Survival of *Cylindrocladium floridanum* in the Soil. Major Adviser: Prof. D. W. French.

Kenneth Milton Menz, Sydney, Australia

B.S. '66, University of Sydney. Major: Agronomy. Minor: Plant Physiology. Thesis: A System for Screening Seedlings for Photosynthetic Efficiency. Major Adviser: Prof. D. N. Moss.

James Lee Miller, Little Rock, Ark.

B.S. '63, Little Rock University. Major: Anatomy. Minor: Biochemistry. Thesis: Quantitation by Microspectroscopy of Nucleic Acids in Deiteris Nucleus of Normal, Rotated and Dramamine Treated Rats. Major Adviser: Prof. A. M. Carpenter.

Koy Eldridge Miskin, Idaho Falls, Idaho

B.S. '67, Utah State University. Major: Plant Breeding. Minor: Botany. Thesis: Stomatal Density and Distribution in Barley. Major Adviser: Prof. D. C. Rasmusson.

Eric Carnes Mussen, Natick, Mass.

B.S. '66, University of Massachusetts. Major: Entomology. Minor: Plant Pathology. Thesis: Some Laboratory Observations on the Development and Behavior of *Glischrochilus quadrisignatus* (Nitidulidae). Major Adviser: Prof. H. E. Chiang.

Norman Martin Nelson, Milaca

B.A. '67, St. Cloud State College. Field of Concentration: Mathematics. Major Adviser: Prof. Daniel Pedoe.

Judith Ann O'Neil, Kenosha, Wis.

B.A. '66, University of Wisconsin. Major: Microbiology. Minor: Biochemistry. Thesis: Morphological Study of *Nitrosomonas europaea* at Various States of Growth. Major Adviser: Prof. E. L. Schmidt.

William Albert Patterson III, White Bear Lake

B.S. '67, University of Maine. Field of Concentration: Forestry. Major Adviser: Prof. H. L. Hansen.

Philip Edward Pooley, Greene, Iowa

B.S. '67, Iowa State University. Field of Concentration: Physics. Major Adviser: Prof. C. F. Giese.

Frances Clare Power, Faribault
B.S. '60, College of St. Catherine. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. N. I. Harris.

John Stuart Rayside, Montreal,
Quebec, Canada

B.S. '67, Carleton University. Major: Physics. Minor: Mathematics. Thesis: A Search for Partial Coherence in Spontaneous Raman Scattering. Major Adviser: Prof. R. A. Phillips.

Joel Lawrence Renner, St. James
B.A. '65, Carleton College. Major: Geology. Minor: Physical Chemistry. Thesis: The Petrology of the Contact Rocks of the Duluth Complex Dunka River Area, Minnesota. Major Adviser: Prof. P. W. Weiblen.

Lawrence Alfred Rivers, Minneapolis
B.S. with high distinction '64, University of Minnesota. Field of Concentration: Computer and Information Science. Major Adviser: Prof. W. D. Munro.

Ana Victoria Schaffer, San Salvador,
El Salvador
M.D. '64, La Universidad de El Salvador. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Steroidogenesis in the Adrenal Glands of Magnesium Deficient Rats. Major Adviser: Prof. Frank Ungar.

Donald Alan Schellpfeffer, Horicon,
Wis.
B.S. '67, University of Wisconsin. Major: Animal Science. Minor: Veterinary Anatomy. Thesis: The Antigenic Composition of Porcine Semen and Its Alteration by Removal of Accessory Sex Glands. Major Adviser: Prof. A. G. Hunter.

Daniel Lee Schmeltz, Bremen, Ind.
B.S.A. with distinction '67, Purdue University. Field of Concentration: Food Science and Industries. Major Adviser: Prof. J. J. Jezeski.

Mohammed Hassan Siddiqui, Hydera-
bad, India
B.V.S. and A.H. '59, Osmania University. Major: Veterinary Bacteriology. Minor: Poultry Science. Thesis: Pathogenicity of *Escherichia coli* Serotypes Along and Serotype O1a: H7 in Combination with *Mycoplasma Meleagridis* in Day Old Turkeys. Major Adviser: Prof. B. S. Pomeroy.

Bruce Henry Sielaff, Jr., Minneapolis
B.A. '66, University of Minnesota. Major: Microbiology. Minor: Genetics. Thesis: Experimental Leptospirosis in Hamsters. Major Adviser: Prof. R. C. Johnson.

Delores Marie Spears, Baton Rouge,
La.
B.S. '65, Southern University. Field of Concentration: Home Economics. Major Adviser: Prof. Gertrude Esteros.

Elizabeth Anne Stiene, Guatemala
City, Guatemala
B.S. '61, Seattle University. Major: Anatomy. Minor: Biochemistry. Thesis: Electrophoretic Studies of Leukocytz Alkaline Phosphatase. Major Adviser: Prof. R. D. Sundberg.

Teh-su Tao, China
B.S. in Agr. '67, National Taiwan University. Major: Nutrition. Minor: Biochemistry. Thesis: Tryptophan Metabolism in the Isolated Perfused Rat Liver. Major Adviser: Prof. P. B. Swan.

Paul Edward Tavernier, Minneapolis
B.A. '65, North Park College and Theological Seminary. Major: Biochemistry. Minor: Microbiology. Thesis: The Effect of Divalent Cations on the Specificity of Streptococcal Nucleases B and D. Major Adviser: Prof. E. D. Gray.

Master of Science in Aerospace Engineering

Karl-Friedrich Theodor Doherr, Bremen, Germany
Dipl. '65, University of Braunschweig. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. H. G. Heinrich.

Ronald Allan Magnuson, Austin
B.Aero.Eng. with distinction '68, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: Effect of a Porous Bounding Wall on Turbulent Duct Flow. Major Adviser: Prof. G. S. Beavers.

Master of Science in Agricultural Engineering

Dean Samuel Walker, Big Lake

B.Agr.Eng. '68, University of Minnesota. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Soybean Threshing by the Relative Motion of Parallel Belts. Major Adviser: Prof. C. E. Schertz.

Master of Science in Anesthesiology

Bernard Martin Altenburg, Fargo,
N.D.

B.S. '61, North Dakota State University; B.S. in Medicine '63, University of North Dakota; M.D. '65, Marquette University. Major: Anesthesiology. Minor: Physiology. Thesis: The Effect of Thiopental Sodium on Cerebral Oxygen Consumption. Major Adviser: Dr. R. A. Theye.

Master of Science in Chemical Engineering

Gerard Henri Canuel, Versailles,
France

Dipl. '68, Ecole Centrale. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Study of a Non-Adiabatic Tubular Reactor. Major Adviser: Prof. N. R. Amundson.

Ronald John Gumbaz, New York,
N.Y.

B.S. *magna cum laude* '68, Polytechnic Institute of Brooklyn. Major: Chemical Engineering. Minors: Statistics and Mathematics. Thesis: Microbial Physiologic States in Single and Multi-Stage Propagators. Major Adviser: Prof. H. M. Tsuchiya.

Jerry Max Rovner, Manchester, N.H.

B.S.Chem.Eng. '68, Massachusetts Institute of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Structure of Simple Liquids. Major Adviser: Prof. H. T. Davis.

Master of Science in Civil Engineering

Pierre Willy Jose Mignot, Verviers,
Belgium

Ing. '68, Universite de Liege. Major: Civil Engineering. Minor: Mathematics. Thesis: Laminar Boundary Layer Between Two Parallel Streams. Major Adviser: Prof. C. S. Song.

Master of Science in Dentistry

Jack Lewis Clark, Warren, Ohio

B.S. '62, D.D.S. '64, Western Reserve University. Major: Dentistry. Minor: Pathology. Thesis: Clinical and Radiographic Findings of the Roentgenographically Abnormal Temporomandibular Joint: A Study of 630 Mayo Clinic Patients. Major Adviser: Dr. J. A. Gibilisco.

Ronald Paul Desjardins, Rochester

D.M.D. *cum laude* '62, Tufts University. Major: Dentistry. Minors: Pathology and Anatomy. Thesis: Comparison of Nerve Endings in Normal Gingival Tissues with Those in Mucosa Covering Edentulous Alveolar Ridges. Major Adviser: Dr. R. K. Winkelmann.

Bernard P. Levy, New Orleans, La.

D.D.S. '62, Loyola University. Major: Dentistry. Minors: Pathology and Microbiology. Thesis: The Role of the Coagulase-Negative Staphylococcus in Periapical Dental Infections and Its Possible Relationship to Systemic Disease. Major Adviser: Dr. J. A. Gibilisco.

Kenneth James Richter, St. Paul

D.D.S. '60, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: Canine Mandibular Collateral Circulation. Major Adviser: Dr. N. O. Holte.

Master of Science in Electrical Engineering

Dale Frederick Berndt, Minneapolis

B.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: RF Sputtered Cobalt Hard Magnetic Film. Major Adviser: Prof. D. E. Speliotis.

David Peter Erdmann, Hopkins

B.S.E.E. '60, Valparaiso University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. E. Holte.

Frank John Ferrin, Wayzata

B.S.E.E. '62, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. E. Holte.

William Marvin Goddard, Brilliant, Ohio

B.S.E.E. with honors '62, University of Cincinnati. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Radar Local Vertical Reference System with Optimal Filtering. Major Adviser: Prof. K. S. P. Kumar.

Gary Lloyd Hokenson, St. Paul

B.E.E. '64, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Kenneth John Jenson, Crystal

B.S.E.E. '62, University of Wisconsin. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. E. Holte.

Thomas Richard Johansen, New Brighton

B.A. '65, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. W. T. Peria.

Ming-Luh Kao, Taipei, Taiwan

B.S.E. '66, National Taiwan University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Hong Shick Min, Pusan, Korea

B.S.E. '66, Seoul National University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. C. M. van Vliet.

Shing-I Ou, Tsoying, Taiwan

B.S.E. '66, National Taiwan University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Ronald Dean Rasmussen, Exira, Iowa

B.S.M.E. '60, Iowa State College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. D. E. Speliotis.

Reuben Wendell Snyder, Jr., Minneapolis

B.S.E.E. '66, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: Magnetostatically Coupled Ferromagnetic Films. Major Adviser: Prof. W. F. Brown, Jr.

Peter Stephen Stone, Golden Valley

B.E.E. with high distinction '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Computer Solution of the Semiconductor Transport Equations. Major Adviser: Prof. Allen Nussbaum.

Gil Michael Weiser, Tel-Aviv, Israel

B.S.E.E. '66, Israel Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Algebra Algorithms in Ternary Number Systems. Major Adviser: Prof. R. P. Halverson.

Sen-Chi Yang, Kaohsiung, Taiwan

B.S. '66, Taiwan Cheng Kung University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Master of Science in Industrial Engineering

Sharadchandra Narbheshanker Bhatt,
Baroda, India

B.Mech.Eng. '62, M.S. University of Baroda. Major: Industrial Engineering. Minor: Metallurgical Engineering. Thesis: Ferrite Volume Fraction: A New Criterion for Partial Austenitization of Ductile Iron Castings. Major Adviser: Prof. Fulton Holtby.

Master of Science in Mechanical Engineering

Ronald John Adrian, Anoka

B.M.E. '67, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Measurement of Fluid Shear Stresses Using a Laser-Doppler Technique. Major Adviser: Prof. R. J. Goldstein.

Frederic Francis Ahlgren, Mora

B.M.E. with high distinction '68, University of Minnesota. Major: Mechanical Engineering. Minor: Electrical Engineering. Thesis: The Effect of Pressure on the Freezing of Erythrocytes. Major Adviser: Prof. P. L. Blackshear.

Tetsuro Aiba, Tokyo, Japan

B.S.Mech.Eng. '63, M.S.Mech.Eng. '65, Nihon University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Measurements of Turbulence in Gases Flowing from a Gas Turbine Combustor. Major Adviser: Prof. R. J. Goldstein.

Mohammad Yousef Jabbari, Kazvin,
Iran

B.S. '64, Tehran Institute of Technology. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Film Cooling Effectiveness with Normal Injection of Air, Helium, and Freon 12 into a Mach 3 Flow of Air. Major Adviser: Prof. R. J. Goldstein.

Richard Nelson Koopman, Brentwood, Mo.

B.S.M.E. '68, Washington University. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Solution of Nonlinear Heat Conduction Problems by Orthonormalization. Major Adviser: Prof. E. M. Sparrow.

John Winston Matthews, St. Paul

B.M.E. '65, University of Delaware. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Influence of Inorganic Impurity, Specimen Size, and Heating Rate on the Thermal Decomposition of Macroscopic Cellulosic Fuel Cylinders. Major Adviser: Prof. P. L. Blackshear.

Thomas Nolan Meyer, Brookville,
Ohio

B.S. '66, University of Cincinnati. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Electrostatic Probe Studies of a Low Pressure Arcjet. Major Adviser: Prof. Emil Pfender.

Dean Royal Rask, Graceville

B.M.E. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of an Annular Turbulent Vortex Flow. Major Adviser: Prof. C. J. Scott.

Lyle Elmore Ziemann, Fairmont

B.S.M.E. '65, Iowa State University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. J. L. Threlkeld.

Edward Silvio Zorzi, Springfield, Mass.

B.S.M.E. *magna cum laude* '67, Western New England College. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Master of Science in Medicine (Internal)

Edward Carl Rosenow III, Rochester

M.D. '59, Ohio State University. Major: Medicine (Internal). Minor: Pathology. Thesis: Renal Histopathologic Processes in Hypertensive Patients with Stenosing Lesions of the Renal Arteries: Electron and Light Microscopy. Major Adviser: Dr. J. C. Hunt.

Master of Science in Metallurgical Engineering

Chien-Erh Chou, Taipei, Taiwan

B.S. '64, Taiwan Cheng Kung University. Field of Concentration: Metallurgical Engineering. Major Adviser: Prof. M. E. Nicholson.

Anne Joshi, Vijayawada, India

B.S. '62, Andhra University; M.S.Met.Eng. '66, Banaras Hindu University. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Effects of Local Order on Magnetization, Spin-Disorder Resistivity and Electronic Specific Heat on a Pd-14/2% Fe Alloy. Major Adviser: Prof. J. M. Sivertsen.

Jose Manuel Pastrana, Caracas, Venezuela

Ing. de Minas '65, Universidad de Oriente. Field of Concentration: Metallurgical Engineering. Major Adviser: Prof. S. R. B. Cooke.

Yuan-Sheng Tyan, Taiwan

B.S.E. '66, National Taiwan University. Major: Metallurgical Engineering. Minor: Physics. Thesis: Low Temperature Specific Heat Study of the Electronic Structure of Transition Metal Borides. Major Adviser: Prof. L. E. Toth.

Master of Science in Orthopedic Surgery

Hamlet Albert Peterson, Rochester

B.A. '54, Luther College; M.D. '58, University of Iowa. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Morphology, Distribution, and Density of Encapsulated Nerve Endings in the Hip Joint Capsule of the Cat as Determined by the Cholinesterase Staining Technique. Major Adviser: Dr. M. B. Coventry.

Master of Science in Pathology

John Andrew Minielly, Rochester

M.D. '62, University of Western Ontario. Major: Pathology. Minor: Microbiology. Thesis: Immuno-Fluorescence of Pneumocystis Carinii Organisms. Major Adviser: Dr. A. L. Brown.

Master of Science in Physical Medicine and Rehabilitation

Mary Moss Price, Minneapolis

B.A. '39, Hiram College; M.D. '42, Indiana University. Major: Physical Medicine and Rehabilitation. Minor: Anatomy. Thesis: A Study of Change of Renal Function in Adult Patients Following Injury to the Spinal Cord, with Investigation of Some of the Factors Which May Contribute to Deterioration of Function. Major Adviser: Dr. F. J. Kottke.

Master of Science in Physical Therapy

Judith Rae Johnson Damerow, Elk River

B.S. in Phys. Ther. with distinction '64, University of Minnesota. Major: Physical Therapy. Minor: Educational Psychology. Thesis: Vertical Head Posture of Normal and Cerebral Palsied Children. Major Adviser: Dr. H. V. Skowlund.

Glenn Nelson Scudder, St. Paul

B.S. in Phys. Ther. '62, University of Minnesota. Major: Physical Therapy. Minor: Anatomy. Thesis: A Study of Torque Produced at Controlled Speeds of Voluntary Motion. Major Adviser: Dr. F. J. Kottke.

Master of Science in Radiology

John Charles Holder, Minneapolis

B.A. '64, Earlham College; M.D. '64, University of Tennessee. Major: Radiology. Minor: Biophysics. Thesis: The Effects of Actinomycin-D and Radiation on Liver RNA Synthesis. Major Adviser: Dr. F. T. Maruyama.

James Myron Thomson, Jr., Austin

B.A. '58, B.S. '61, M.D. '61, University of Minnesota. Major: Radiology. Minor: Biophysics. Thesis: The Effect of Radiation and/or Cytosine Arabinoside on the Intracranial Zimmerman Ependymoblastoma. Major Adviser: Dr. E. W. Hahn.

Eugene John Valentini, Pittsburgh, Pa.

B.E. '59, Yale University; M.D. '63, Washington University. Major: Radiology. Minor: Biophysics. Thesis: Maternal Dysfunction as a Contributing Factor to Radiation Induced Embryonic Mortality During the Preimplantation Stage. Major Adviser: Dr. E. W. Hahn.

Master of Science in Surgery

Jonathan Anthony van Heerden,
Rochester

B.M.B. '61, University of Cape Town. Major: Surgery. Minor: Pathology. Thesis: Primary Mediastinal Lymphomas. Major Adviser: Dr. E. G. Harrison, Jr.

GENERAL EXTENSION DIVISION

Business Administration Certificate

John Michael Heron, St. Paul

Electrical Engineering Technician Certificate

Alan Lee Berger, St. Paul

Richard Holden Jackson, St. Paul

Michael John Miller, Sunnyvale,
Calif.

GENERAL COLLEGE

Associate in Arts

Ronald Ernest Allison, Richfield
Stephen Nicholas Andert, North St.
Paul

Leigh Robert Angle, Minneapolis
Allan Edwin Anttila, Minneapolis
Karen Elaine Azuz, Duluth
Richard Harold Bakke, Minneapolis
Joel Patrick Beggs, Minneapolis
Ossie Thomas Belton, Minneapolis
Louis Mason Benepe, Stillwater
Harold H. Berzins, Minnetonka
Allan Bert Bohannon, Edina
Blaine Carver Bolden, Minneapolis
Virginia Mary Bolkcom, Minneapolis
Cheryl Rae Bomberg, St. Paul
Jeffrey Alan Bowers, St. Louis Park
John Henry Brion, St. Paul
Donald Dean Cadry, St. Paul
Ann Therese Chevalier, Duluth
Sharon R. Clark, Minneapolis
Dianne LaVerne Clover, Bloomington
Maryan Cohen, St. Paul
Marcy P. Cohn, St. Paul
Colburne Shalaine Cook, Minneapolis
Linda Lee Corbett, Minneapolis
Ronnelle Cousin, Minneapolis
Thomas Alan Cronk, Minneapolis
Sissel Marianne Dahl, Minneapolis
Owen Charles Davis, Wayzata

Vera Denysiuk, St. Paul
Duane John Dietrich, Minneapolis
Jane Elizabeth Donovan, Minneapolis
DuWayne Robert Dorfner, Crystal
Elaine Douris, Minneapolis
Charles Emil Dunahey, Minneapolis
Janet Mary Ehlenz, Minneapolis
Jacklyn Sue Elsen, Minneapolis
Robert Verner Erickson, Minneapolis
Erik Gordon Erikstrup, Jr., St. Paul
Charles Anthony Faraci, Maplewood
Frima Finkelstein, St. Louis Park
Shirley Mae Freeburg, Minneapolis
Donna Marion Frelix, St. Paul
Susan Kay Fridell, Cannon Falls
David Marc Friedman, Minneapolis
Judith Rae Gallop, Duluth
Peter B. Gardner, Edina
MaryGaye George, Minneapolis
Mary Elizabeth Goehringer, Minne-
apolis
Andrew Lee Golden, Red Wing
John Burnham Grider, Richfield
William George Haas, Jr., Richfield
Janice Ann Hagman, Minneapolis
Bradley K. Hansen, Bloomington
Lone Hansen, Copenhagen, Denmark
Gregory Allen Hanson, Alexandria
Steven Peter Hanson, Minneapolis

Marc Harris, Minneapolis
 Steven Michael Hefty, Edina
 Randall Edward Harris, Minneapolis
 Thomas Joseph Heider, Minneapolis
 Steven Robert Heitman, St. Paul
 Vincent Hill, Minneapolis
 John Edwin Honigschmidt, Crystal
 Donald Joseph Hortsch, Burnsville
 David Earle Hubbard, Edina
 Gerald Thomas Hudok, Minneapolis
 Joanne Louise Jackson, Minneapolis
 Robert Clark Jackson, St. Paul
 Frank James Jandric, St. Paul
 Thomas Neil Johnson, New Brighton
 Mary Jo Rita Kacheroski, Minneapolis
 Sara Renee Kauffman, St. Louis Park
 Sandra Beth Klebanoff, St. Paul
 Daniel Paul Kleinfehn, Richfield
 Richard Frank Klick, Minneapolis
 Thomas Fritz Knoop, St. Paul
 Roger John Koll, Minneapolis
 Kathleen Ann Kopka, Minneapolis
 James Allen Kosfeld, Minneapolis
 Caryn Ruth Labernik, Excelsior
 Jeffrey Ray Laing, Edina
 Linda L. Landwehr, St. Cloud
 Ann Tracy Laughlin, Minneapolis
 Thomas Joseph Leacock, St. Paul
 Sigrid Lott, Richfield
 John Steele Lovett II, Excelsior
 Stephen Jay Lucas, Jr., Fridley
 Linda Lou Lutz, Zimmerman
 Michael Philip Mader, Mound
 Shelley Candace Malkin, Iron River,
 Mich.
 Stephen Robert Manser, Minneapolis
 Joann Linda Marofsky, St. Paul
 Vicki Ann Marshall, St. Paul
 Dale Frederick McAvoy, Minneapolis
 Michael Charles McCabe, St. Paul
 Mary Ellen McGough, St. Paul
 James Patrick McGowan, Bloomington
 Kathleen Anne Mealey, Minneapolis
 James Phillip Meissner, St. Paul
 Cheryl Ann Middlecamp, South St.
 Paul
 Dale Alden Miller, Minneapolis
 Maureen M. Moore, St. Paul
 Joseph Severe Morancey, White Bear
 Lake
 Richard Hugh Mulhollam, White
 Bear Lake
 Wayne Melloy Myhre, St. Paul
 Daniel Phillip Nelson, St. Paul Park
 Theodore Bruce Nelson, St. Paul
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 Phyllis Miyeko Ono, Minneapolis
 Laurian Gwenn Ormburg, Minne-
 apolis
 James Barton O'Shea, Minneapolis
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 William Thomas Palmer, Minneapolis
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 Paul
 Michael Joseph Popek, West St. Paul
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 Park
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 Diane Louise Ranta, Minneapolis
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 Russell Lee Sandstrom, St. Paul
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 Raymond Russell Stimart, Minne-
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Myron Henry Creager, St. Paul

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Melvin Nicholas Gores, Rosemount
Vonne Kay Helmer, Billings, Mont.
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Bachelor of Arts

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James Edward Anderson, Le Sueur
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Robert Eugene Cook, Sr., Richfield

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Dale Allen Richard Tranter, Minneapolis, WITH DISTINCTION

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Janet M. Weaton Johnson, St. Louis
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Marvin Gene Nevonon, New York
Mills, CUM LAUDE, Biology

James Joseph Pojar, Little Canada,
MAGNA CUM LAUDE, Botany

James Sidney Wilson, Minneapolis

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Chile
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Charles William Erickson, Minne-
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Bachelor of Geo-Engineering

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 Jerome Francis Kalinowski, Lake
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Larry Everett Petefish, Dodge Center
Stuart Selby Peterson, St. Paul
Lyle Merlin Rustad, Rushford

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COLLEGE OF EDUCATION

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DISTINCTION

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Mary Lee Bloomquist, Minneapolis

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Paul

Luann Carol Bolton, A.A., Rochester

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Karen Mavonne Brenner, Wayzata

Sandra Mae Bruce, Minneapolis
Meroslava Ivanova Bryn, A.A., Min-
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Marcia Ann Bucka, Minneapolis

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 Jean Rosalie Klatt Paron, St. Paul
 Ann Michele Pattee, Minneapolis
 Helen Polezayenko, Minneapolis
 Eldon A. Quast, Minneapolis
 Carolyn Ruth Raubert, Bloomington
 Kathryn Rickord, Minneapolis
 Juanita Anne Ring, Minnetonka,
 WITH DISTINCTION

Cheryl Rae Robbins, White Bear Lake
 Marilyn Panning Roegge, B.S., Hamburg
 Russel Michael Rood, Minneapolis
 Kathy Lynn Oukrop Root, Golden Valley
 Joan Willenburg Rourke, West St. Paul
 Donald William Rubertus, B.A., St. Paul, WITH DISTINCTION
 Beryl Lee Rullman, St. Paul
 Sandra Kaye Chase Rupp, B.A., Minneapolis
 David Oscar Sabby, Minneapolis
 Karen Ann Schaller, Bloomington
 Corrine Boda Schommer, St. Paul
 Constance Downs Scott, Minneapolis
 Bonnie Lynne Segal, Minneapolis, WITH DISTINCTION
 Suzanne Marie Silberg, Minneapolis
 Leo Van Simonson, Jr., Minneapolis
 Karen Joy Sinotte, Brooklyn Center
 Mary Margaret Skar, St. Paul
 Eugene Joseph Smart, Brainerd
 Margaret Isabel Snyder, Minneapolis
 Nancy Kay Spannaus, Excelsior, WITH DISTINCTION
 Barbara Jean Spindler, Burnsville
 Merry Kay Steffensen, Billings, Mont., WITH DISTINCTION
 Patricia Ann Stein, Winona

Jo Ann Stevens, Bemidji
 Ellen Sue Mogol Stillman, St. Paul
 Linda Marie Storch, A.A., Minneapolis
 Marcia Jane Strong, Minneapolis
 Charles Edward Svihel, Hopkins
 Lawrence John Tempel, St. Paul, WITH HIGH DISTINCTION
 Dean Ernest Timian, St. Louis Park
 Laurie Ann Tone, International Falls
 Margaret Karen Trahms, Janesville, WITH DISTINCTION
 Steven Arnold Twite, Dawson, WITH DISTINCTION
 Gloria McAuliffe Varner, A.L.A., Minneapolis
 Rosemary La Hay Vetsch, Minneapolis, WITH DISTINCTION
 Diane Marie VonEnde, Osseo
 Carol Ann Vuchetich, Minneapolis
 Sandra Lee Schrooten Wahlquist, Circle Pines
 Richard Arthur Watson, Minneapolis
 Steven Richard Watson, Fort Snelling
 Patsy Lee Waugh, Braham
 Richard Paul Weber, Mankato
 Kathleen Peterson White, Minneapolis
 Judith Ann Wilmot, Thief River Falls
 Patricia Kay Zdon, Minneapolis

Master of Education

Patricia Hibbs Jones, B.S., Minneapolis
 Douglas Vern Larson, B.S., Minneapolis
 Ronald Laurence Lehman, B.S., A.A., Crystal

Dorothy Eileen McIntyre, B.A., Hawkeye, Iowa
 John Francis Stenglein, B.A., St. Paul
 Donald Wesley Thom, B.A., Minneapolis

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Jens Trygve Anker, Minneapolis

Bachelor of Science in Business

- James Archie Albertson, Richfield
Philip Howard Anderson, North St. Paul
Gerald Charles Augst, St. Paul
Daniel John Austin, Excelsior
Dennis Scott Ballou, Minneapolis
Roland George Barrett, St. Paul, WITH HIGH DISTINCTION
Roger Sumner Bergstrand, Minneapolis
Robert David Bersie, Maple Plain
Bruce Lee Bevacqua, Minneapolis
Daniel Charles Boyle, Minneapolis
Thomas Reid Bracher, St. Louis Park
Margery Lynn Brant, Minneapolis, WITH DISTINCTION
Richard Gene Brown, Wadena
Edward Gregory Bruksch, Glenview, Ill.
Robert J. Buckman, St. Paul
Timothy Jon Burggren, St. Paul
George William Burke, Jr., Edina
Jay Robert Carlson, Coon Rapids
Peter Wayne Carlson, Evanston, Ill.
Thomas Howard Carlson, St. Louis Park
Michael Eugene Chapman, A.A., Rochester
Paul Gordon Christensen, Stanchfield
James D. Cook, Minneapolis
Richard Frederick Corson, B.Ch.E., Minneapolis
Thomas Howard Costello, Minneapolis
Terry Emerson Cranston, Minneapolis
Michael Henry Cunniff, Minneapolis, WITH DISTINCTION
William Arthur Curtis, B.A., St. Paul
Lawrence George Dalsin, Minneapolis
Roger Edward DeSmith, Glenwood City, Wis., WITH DISTINCTION
George Wallace Eddy, Wayzata
Mark Richard Ellis, Minneapolis
Michael Jon Emmons, Minneapolis
Allen Gilbert Engle, Minneapolis
Donald Alan Espersen, Minneapolis
Burton James Ewing, Minneapolis, WITH DISTINCTION
Lyle John Franklin, Rosemount
Donald Thomas Fredericks, Minneapolis
Robert Lawrence Goodsell, Minneapolis
Lee David Goranson, North Branch
Thomas Alan Gustafson, Minneapolis
John Thomas Hagen, Robbinsdale
Gary Calvin Hansen, Minneapolis
Larry Richard Hanson, Rochester
Edward Terry Haubrich, Minneapolis
Steven Oliver Haugland, Browns Valley
Gary Allen Havemeier, Hutchinson
James Richard Hawkins, Waseca
William John Herlofsky, Minneapolis
Douglas Milton Hornsten, Minneapolis
David L. Howard, North St. Paul
Terrance Albert Ingle, Minneapolis
William Joseph Jaworski, South St. Paul
Thomas Alexander Jensen, Minneapolis
Daniel Edward Jessen, St. Paul
Steven Bruce Johnson, Minneapolis
Vernon Wesley Johnson, Minneapolis
Glen Alan Juntti, Minneapolis
Susan Rae Kaess, Spring Valley
John Paul Kallestad, Wayzata
Bradley Andrew Kindem, Edina
Nicholas Leo LaFontaine, Minneapolis
Roger Jeffrey Landy, Minneapolis
Nels Eric Larson, Minneapolis
James Elmer Lindquist, Minneapolis
John James Linnihan, Minneapolis
Robert Stanley Lundquist, St. Paul
Stephen Michael McLennan, Minneapolis
Charles John Meister, Jr., Minneapolis
Jack William Metcalf, Minneapolis
Jeffrey Allen Mikkelson, Bloomington
John Paul Miller, St. Paul
Dennis Allen Mitchell, New Brighton
Steven Joseph Mueller, St. Paul
John Victor Nelson, Minneapolis
David Mims Nisbet, Minneapolis

Michael Fredrick Oesterreich, Minneapolis
Lyle Ernest Olson, Minneapolis
Ralph Leon Patrick, White Pine, Mich.
Chet Alan Ringerud, Edina
James Darold Rother, Hastings
Loren Crit Smith, Minneapolis
Jeffrey Frank Stuermer, Burnsville
Lloyd Alan Thiesfeld, Glencoe

Stanley Martin Thompson, Jr., St. Louis Park
John Andre Ungerman, Eden Prairie
Bruce Jay Wallace, St. Louis Park
Wallace Ernest Woehrle, St. Paul
Warren Douglas Wollenberg, A.A., Austin
Neal Hamilton Wood II, St. Paul
Roger Wesley Woodruff, Burnsville
Robert Phillip Young, St. Paul
David John Zak, Forest Lake

Bachelor of Science in Economics

Charles Joseph Lindell, South St. Paul

LAW SCHOOL

Juris Doctor

Ronald Earl Budd, B.A., St. Louis Park
Larry George Christenson, B.S., Golden Valley
Charles Francis Diessner, B.A., St. Louis Park, CUM LAUDE
Myron Sheldon Greenberg, B.A., Minneapolis
Robert Thomas Holley, B.A., Richfield

Michael Henry Jeronimus, B.A., Duluth
Howard Lewis Kaplan, B.S.B., New Hope, CUM LAUDE
Daniel E. Lanoue, B.A., Marshall
James Annenberg Levee, B.A., M.A., New York, N.Y.
Leslie Howard Novak, B.S.B., St. Paul, CUM LAUDE
David Gordon Roston, B.A., St. Louis Park

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Ruby Nansen Boatman, Fridley

Bachelor of Science

Pamela Solberg Bauman, Fosston
David John Culyat, Joliet, Ill.
Dean D. Dickinson, B.S., LaCrosse, Wis., WITH DISTINCTION

Mary Agnes Engman, Virginia, WITH HIGH DISTINCTION*
Richard Erwin Goese, B.A., Faribault

* These degrees are conferred subject to the completion of practical work prior to March 21, 1970.

William Theodore Grafe, A.A., Alameda, Calif.

Jay Robert Hall, Emmetsburg, Iowa

Paul Allen Hauge, A.M.S., Stillwater

Karl Ruben Krohn, A.M.S., B.S.,
Wauwatosa, Wis., WITH HIGH DIS-

TINCTION

James Lee McCready, Hastings, WITH
DISTINCTION

Charlott M. Peterson, Brooklyn Cen-
ter*

Gordon Allan Peterson, A.A., Amery,
Wis.

Faye Sylvia Rood, Minneapolis,

WITH DISTINCTION

Susan Jeane Rosenwald, Minneapolis*

Meredith Ann Schurr, Minneapolis*

Marlene Kay Shears, A.L.A., Rich-
field*

Yomi Nakano Ward, St. Paul*

Terrell Draper Watson, Perry, Ga.

Norma Dianne Weisert, Effie, WITH
DISTINCTION*

Christine Juell Windedahl, Round
Lake*

Sandra I. Zeleschnak, Forest Lake*

Doctor of Medicine

Sandra Turchick Zieve, B.S., Minneapolis

* These degrees are conferred subject to the completion of practical work prior to March 21, 1970.

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Corps of Engineers

David Walter Krech, Inver Grove Heights

Dennis Mercer Peterson, Minneapolis

Second Lieutenant, Infantry

David Mims Nisbet, Minneapolis

David Lyle Young, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USNR

Jack Elias Jagoda, St. Paul

Thomas James Marcy, Richfield

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

David A. Bolstad, Lake Elmo
Jack W. Metcalf, Minneapolis
Jeffrey F. Stuermer, Burnsville

David L. Wolf, New Prague
William L. Zins, Redwood Falls

Academic Costume

Academic costume — cap, gown, and sometimes hood — may be worn by anyone with a college degree, or by a candidate whose degree is soon to be awarded. Characteristics of costumes show their wearers' highest degrees and, often, the fields of major interest and the institutions by which the degrees are granted.

All bachelors' and masters' gowns are black and untrimmed. The bachelor's gown has a long pointed sleeve, the master's a closed sleeve with an arm slit. Doctors' gowns in the United States are usually black, with velvet front facings and sleeve crossbars (some universities, especially those abroad, prescribe colorful crimson, bright red, or other colors, set off by black or colored facings.)

At commencements degree candidates wear the gowns for the degrees they are about to receive. Hoods are worn only by those who already possess degrees. Anyone who has a University of Minnesota degree may wear the Minnesota hood — black with a maroon chevron on gold. The length and shape of a hood identify the most advanced degree its wearer has earned; and the hood's velvet edging shows the degree's field: dark blue for Philosophy, light blue for Education, green for Medicine, lilac for Dentistry, orange for Engineering, russet for Forestry, drab for Business, olive green for Pharmacy, purple for Law, gray for Veterinary Medicine, golden yellow for Science, white for Arts and Letters.

Caps — usually tasseled mortarboards — show by tassel color the nature of degrees awarded at University of Minnesota commencements. Doctors' tassels may be black or gold; masters' are black. Bachelor's degree candidates at Minnesota, however, indicate their fields of study by their tassel colors (they are given here in the order they appear in the procession):

Graduate School	black
General College	crimson and white
College of Liberal Arts	white
University College	old gold and white
College of Biological Sciences	golden yellow
Institute of Technology	orange
College of Agriculture, Forestry, and Home Economics	maize
College of Education	light blue
School of Business Administration	drab
College of Pharmacy	olive
Law School	purple
College of Medical Sciences	green

Gold shoulder fourrageres are worn by candidates who are honor students.

After receiving his degree, a holder may wear the academic costume on any appropriate occasion. But he always wears the black tassel, and omits the shoulder insignia. Appropriate academic costumes can be obtained anywhere that academic ceremonies are conducted.

President's Reception

DECEMBER, 1969

- 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.
- Those in the receiving line will be President and Mrs. Moos, Mr. Donovan, Professor and Mrs. Calvin, and Vice President and Mrs. Shepherd.
- Assisting in the Reception are students and staff members, including those from the Gamma Sigma Sigma Sorority, the ROTC, and the Department of University Relations.