



UNIVERSITY OF MINNESOTA

March Commencement, 1966

SATURDAY EVENING, MARCH 19, 8:30 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents ---

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

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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

This Is Your University _____

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and fifteenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded more than 185,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 42,000 students annually on its Minneapolis–St. Paul, Duluth, Morris, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

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

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Build-

ing to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

As it meets the needs of present students, the University must also make plans for those of the future. The 42,178 students who enrolled at the University at the beginning of the 1965-1966 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. In the fall of 1965, for the first time in its history, the University instituted an admissions policy based on controlled growth of total enrollment. This change in admissions requirements held the 1965-1966 enrollment to about 42,000 students. It reflects the University's need for more teachers, more land, and more buildings. And it makes plain the University's determination to maintain the educational quality that has made it one of America's leading educational institutions.

THE 1965 LEGISLATURE granted the University \$81,300,000 for general operations and maintenance during the 1965-1967 biennium. In addition, the University received \$9,083,223 for University Hospitals; \$6,833,887 for special appropriations, including special extension and research activities; \$15,820,656 for new buildings, land, and the rehabilitation of existing buildings; and \$1,240,000 for the University of Minnesota, Morris.

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

The summary financial statement of 1964-1965 showed that the University's current income and expenditures amounted to \$128,980,874.07. Of the total received, \$12,727,274.12 came from student tuition and fees; \$17,855,486.75 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; \$1,496,963.54 from intercollegiate athletics; \$19,470,448.11 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 \$8,260,416.03 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$26,190,690.49 came from the federal government for instruction, research, and agricultural extension. The state provided \$42,979,595.03 or 31.4 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$11,003,913.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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 Minneapolis Campus of the University this evening from 7:45 to 8:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mrs. James Whipkey, Graduate Student, University Carillonneur. Admission to the March Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

PRELUDE CONCERT: From 8:00 to 8:30 p.m. the University Concert Band Ensemble, conducted by Associate Professor of Music and Bandmaster Frank P. A. Bencriscutto, A.Mus.D., will play:

Music for a Festival - - - - - Gordon Jacob
Trittico - - - - - Vaclav Nelhybel

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 8:30 p.m., Professor Roy G. Francis, Ph.D., College of Liberal Arts, Faculty Marshal, will carry the Mace onto the stage, heralding the arrival of the academic procession of candidates for degrees. Marshal Francis, 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 Concert Band Ensemble will play:

Academic Procession - - - - - Clifton Williams

ON THE STAGE: The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are Marshal Francis; Professor Raymond G. Price, Ed.D., College of Education, Marshal; Assistant to the Recorder Charles F. Liesenfelt, M.S., Admissions and Records; Captain Dewey E. Johnson, U.S.A.F., Assistant Professor of Aerospace Studies; Associate Dean Alfred L. Vaughan, Ph.D., University College; Professor Hubert J. Sloan, Ph.D., Institute of Agriculture; Colonel William D. Beard, U.S.A., Professor of Military Science; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Professor Edna L. Fritz, Ed.D., College of Medical Sciences; Assistant Vice President Donald K. Smith, Ph.D., Academic Administration; The Reverend Louis Ulrich, M.A., Campus Pastor of the Lutheran Student Association on the Minneapolis Campus; Dean Horace T. Morse, Ph.D., General College, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President Laurence R. Lunden, LL.D., Business Administration; Dean Edmund G. Williamson, Ph.D., Dean of Students; Acting Dean Francis M. Boddy, Ph.D., Graduate School; Professor Thomas L. Waterbury, J.D., Law School; Dean Robert J. Keller, Ph.D., College of Education; Dean Athelstan Spilhaus, D.Sc., Institute of Technology; Captain James M. Marshall

U.S.N., Professor of Naval Science; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; Professor Edwin L. Haislet, Ed.D., Director of Alumni Relations; Mr. T. Arthur Bumgardner, Teaching Assistant and Graduate Student in Music; Professor Clarence L. Cole, Ph.D., Institute of Agriculture, Marshal; Professor Wayland E. Noland, Ph.D., Institute of Technology, Marshal.

PRESENTATION OF COLORS: As the color guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the Auditorium, the Concert Band Ensemble will play:

Inaugural Fanfare - - - - - Frank Bencriscutto

THE NATIONAL ANTHEM: The entire audience and Mr. Bumgardner, 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: Pastor Ulrich.

SPEAKING FOR THE UNIVERSITY: President Wilson.

COMMENCEMENT ADDRESS: Dean Morse, "The Returns on the Investment."

CONFERRING OF ROTC CERTIFICATES: Dr. Smith will introduce Colonel Beard, Captain Marshall, and Captain Johnson, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by President Wilson.

PRESENTATION OF CANDIDATES: Dr. Smith will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction, Dean Morse for General College; Associate Dean Turnbull for the College of Liberal Arts; Associate Dean Vaughan for University College; Dean Spilhaus for the Institute of Technology; Professor Sloan for the Institute of Agriculture; Dean Keller for the College of Education; Dean Grambsch for the School of Business Administration; Professor Waterbury for the Law School; Professor Fritz for the College of Medical Sciences; Acting Dean Boddy for the Graduate School.

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

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

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: President Wilson 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 Acting Dean Boddy.

HAIL! MINNESOTA: The University's Alma Mater song, sung by the audience and Mr. Bumgardner, soloist.

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

RECESSIONAL: The Concert Band Ensemble will play:

Festive Overture - - - - - Dimitri Shostakovich

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Armor

Curtis E. Judd, Hopkins

Second Lieutenant, Artillery

Kenneth O. Aasen, Minneapolis

Second Lieutenant, Corps of Engineers

David M. Feltl, Minneapolis
David S. Parent, Minneapolis

Raymond W. Thron, West St. Paul

Second Lieutenant, Infantry

James A. Bevan, White Bear Lake

Douglas C. Colliander, St. Louis Park

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

John Winthrop Byam, Jr., Wilbraham, Mass.

Ensign, USNR

William Avery Buol, St. Paul

Ensign, SC, USNR

Dennis Marshall Erdal, Minneapolis

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Ronald E. Olberg, Minneapolis

Joel R. Stockdale, Hopkins

Candidates for Graduation _____

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

GENERAL EXTENSION DIVISION

Business Administration Certificate

Norbert M. Ewald, Hopkins
Robert Levi Flowers, Duluth
Richard Allen Fyten, Minneapolis
John Charles Gibson, Minneapolis

Marlyn Roger Johnson, St. Paul
Joel Arthur Peller, Minneapolis
Curtis Lee Tollefsrud, St. Paul

Engineering Science Certificate

John Louis Scheurich, Excelsior

Roberton Henry Seeman, Minneapolis

GENERAL COLLEGE

Associate in Arts

Charles Clement Achterkirch, Minneapolis
Lynne Eve Andersen, Minneapolis
Dorothy Kay Anderson, Minneapolis
Gary Robert Anderson, Minneapolis
Joan Elizabeth Anderson, Minneapolis
Diane Louise Armstrong, Edina
Barbara Ann Bain, Minneapolis
Frederick Raymond Ballot, Minneapolis
Fred Victor Banholzer, Jr., St. Paul
Jack Lawrence Benson, Minneapolis
Richard Gordon Benson, St. Paul
Michael Alan Bernath, St. Paul
Bruce Arthur Bertzyk, Minneapolis
Robert Lysne Bjoraker, Edina
Gerald Henry Bleedorn, St. Paul
Eugene Henry Bock, Hopkins

Bruce Sheldon Bode, Champlin
James William Bohn, St. Paul
George Frank Bonfe, St. Paul
Dale George Boyer, Crystal
Howard Marshall Bream, St. Paul
James Harrison Bruton, St. Paul
Rosemary Ann Burgess, Minneapolis
George Elton Burke, St. Paul
Maxine Gayle Burry, St. Louis Park
Terrence Michael Burtson, Minneapolis
Brian Robert Butler, Wayzata
Charles Francis Campbell, St. Paul
Donald Richard Carhart, Crystal
Paul Gerald Carlson, Minneapolis
Donald Lavern Cater, Anoka
Penny Lee Christ, Wells
Charlene Vanettia Cleveland, Minneapolis

Peter Parsons Clifford, Wayzata
 Thomas Irwin Cloutier, St. Paul
 Charles Calvin Cook, Aurora, Colo.
 Cecilia Helen Cruse, Eden Prairie
 David Paul Cusick, Savage
 Robert Michael Dahl, Richfield
 David Charles Dillon, Minneapolis
 Charles Brian Dousette, Minneapolis
 Rosemary Dupont, Excelsior
 Kent Michael Economon, Minneapolis
 Jerome Ryden Edling, Minneapolis
 Daniel Arthur Engstrom, Minneapolis
 Stephen Philip Erlander, Minneapolis
 Fred Howard Feldman, Minneapolis
 John Atanacio Felipe, St. Paul
 Joyce Elaine Hundebly Finley, Beardsley
 Wayne Earl Freeberg, Minneapolis
 Michael J. Froehlig, Minneapolis
 Wayne Marvin Fuller, St. Paul
 Gregory Fulton Gallus, Minneapolis
 Michael Leonard Gillham, St. Louis Park
 Michael David Gondek, Minneapolis
 Donald John Grabowski, Minneapolis
 William Frank Gracyasz, Minneapolis
 Joseph S. Greenstein, Minneapolis
 David Jerome Hilmo, Bloomington
 Kenneth James Hogan, Minneapolis
 Sandra Leslie Horwitz, Minneapolis
 Laurence John House, Minneapolis
 Robert Myron Iwaszewycz, Minneapolis
 Ermina Arlette Jewell, Minneapolis
 Donald Russell Johnson, Minneapolis
 Lloyd Rossiter Johnson, Annandale
 David Leroy Karg, Litchfield
 Laverne Gayle Knudson, St. Paul
 Randall Curtis Koyonen, Wayzata
 Eugene Stuart Kunz, Minneapolis
 Paul Robert Lawson, Minneapolis
 Joseph Paul Lebens, St. Paul
 Suzanne Elaine Lemieux, Minneapolis
 James Warren LeVesque, Minneapolis
 Herbert John Lohse, Jr., Minneapolis
 Garrett John Lund, Minneapolis
 Danny Lee Lundberg, Minneapolis
 John Calvin Mason, Minneapolis
 Robert Harold Miller, St. Louis Park
 Cynthia Helena Moehrl, Minneapolis
 James Warren Moore, Edina
 Doraine Elizabeth Morberg, St. Paul
 Daryl Henry Moritko, Minneapolis
 Jaynes Lee Morse, New Brighton
 Robert Leslie Nave, Jefferson City, Mo.
 David Anthony Nelson, Minneapolis
 Terry Milford Nelson, Albert Lea
 Molly Jean Newell, Minneapolis
 Charles Jeremy Newman, Minneapolis
 Joseph John Nicosia, Jr., St. Paul
 David Robert Nolan, Minneapolis
 Lawrence Cameron Norrell, Aurora
 Joseph Earl O'Connell, Jr., St. Paul
 Thomas Laurence Oleksa, Minneapolis
 Robert Bernard Palmer, Jr., St. Paul
 David Gerard Pelletier, St. Paul
 Thomas Joseph Peters, Minneapolis
 Thompson James Pooton, Minneapolis
 Stuart James Popkin, Minneapolis
 Terry R. Ranten, Minneapolis
 Harold Paul Rein, Minneapolis
 Sheilagh T. Reiter, Minneapolis
 Harry Sherman Rhymers, Minneapolis
 William Thomas Scheurer, Minneapolis
 Kenneth Donald Schultze, Edina
 Sieglinde Dorit Annette Seemann, Minneapolis
 Mary Ann Shetka, St. Paul
 Rodger Eugene Slater, St. Paul
 Robert James Sorensen, Minneapolis
 Charles Green Spain, Minneapolis
 George Peter Stahl, St. Paul
 Michael James Sullivan, Hinsdale, Ill.
 John Frederick Swanson, Edina
 Michael William Talus, Aurora
 James Craig Tankenoff, St. Paul
 Kirk Francis Thoren, St. Paul
 Gary Patrick Tiffany, Minneapolis
 Dorothy Marie Trapp, St. Paul
 Joanne Turk, St. Paul
 Nelda Jane Turvold, Northwood, Iowa
 Suzanne Seymour Versen, Minneapolis
 Gregory James Weeks, Minneapolis
 Anita Marie Weismann, Minneapolis

Dexter Lee Wesson, Minneapolis
Ralph Manning Williams, Minneapolis
Roger Phillip Williams, Minneapolis

Sheldon Ira Winnig, Minneapolis
James Thomas Wood, Minneapolis
Robert Joseph Wyatt, Maple Plain
H. Richard Zuckman, St. Louis Park

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Margaret Edith Bean, Green Isle
Benjamin G. Belanger, Minneapolis
Bina Branover Goldman, Bucharest,
Rumania
Carol Elizabeth Ladwig, Minneapolis
Richard Ralph Lawrence, Corfu, New
York

Beverly Jane Lilley, Minneapolis
Joseph Robert Matusovic, Fridley
Jerrold Savitt, St. Paul
Linda Kay Shultz, Eden Prairie
Kathryn Elaine Wilson, St. Paul

Bachelor of Arts

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

Kenneth Omar Aasen, Columbia
Heights
Mary Elizabeth Allard, Edina
David John Anderson, Delano
David William Anderson, Minne-
apolis
Diane Marie Anderson, Bloomington
Gordon Allan Anderson, Hopkins
Patricia Louise Anderson, Grand
Rapids
Petrea Ann Bank, Minneapolis
Lynda Arlene Bass, Fort William,
Ontario, Canada
Gerald Louis Bassett, Minneapolis
Georgene Ann Steele Beales, A.L.A.,
St. Paul
Mary Lynne Beebe, Hibbing
Raphael Joseph Belanger, Jr., Minne-
apolis
Stephen Conley Berg, Minneapolis
Larry Dean Bergren, Hopkins
Barbara Jean Berry, Minneapolis
James Alexander Bevan, White Bear
Lake
Bernard Leon Bodien, A.A., Squaw
Lake
Janet Marie Borning, Echo

Joan Anita Bottomley, Bloomington
Donald H. Boxmeyer, St. Paul
Karen Ann Brooks, Minneapolis
Barbara Elyce Brownlee, Minneapolis
Wesley Earl Brugger, Austin
Helen Marie Brynildson, Minneapolis
Russell Joseph Burns, Minneapolis
Carol Jean Cady, White Bear Lake
Theodore Francis Caron, A.A.,
Rochester
Linda Jean Carr, Excelsior
James Milo Childs, Minneapolis
Carol Ann Clarkson, Minneapolis
Mary Edyth Cobb, New Brighton
Jeffrey Peter Cohn, Minneapolis
Douglas Carl Colliander, St. Louis
Park
Julius E. Crawford, Omaha, Neb.
Henry Cronfel-Kawas, A.A., Hon-
duras
James Marshall Danelz, Faribault
Jon Bruce Darling, White Bear Lake
Thomas Joseph Davern, St. Paul
Hulet Emery Dean, Rochester
Peter J. Deem, Jr., Faribault
Janice Margret Devens, St. James
Delmar Neil Dockter, Minneapolis

Louise Hazel Denny Dolid, Minneapolis
 Skaidrite Dombrovskis, Minneapolis
 Kathleen Elizabeth Donohue, St. Paul
 Judith A. Freeberg Dykes, Minneapolis
 Jay Lynn Eisenberg, St. Louis Park
 Ray Edward Ellis, Deer Lodge, Mont.
 John Howard Emory, White Bear Lake
 Keith William Engdahl, St. Paul
 Curtis Calvin Ewing, Minneapolis
 Janet Lee Fedors, Minneapolis
 Judith Kay Felix, Minneapolis
 Sandra Patricia Shannon Fisher, Minneapolis
 James Edward Fleming, Minneapolis
 Robert Dale Forte, Virginia
 Donald Francis Freier, Red Wing
 Laurie Ann Fruen, St. Louis Park
 William Gustav Gabler, Minneapolis
 Patrick James Galway, Orillia, Ontario, Canada
 Greta Marilee Giving, St. Paul
 Marsha Joyce Glisan, A.L.A., Minneapolis, CUM LAUDE, SOCIOLOGY
 Robert Lonergan Gould, St. Paul
 Harriet Edith Greenberg, Minneapolis
 Arlyn Maureen Gross, St. Louis Park
 Judith Lynn Gustafson, Minneapolis
 Gary Lee Hallman, St. Paul
 Ruth Marie Camilla Halvorson, Chicago, Ill.
 Janeva Dawn Hancock, Dent
 Lynda Lue Hanley, Mason City, Iowa
 Heidi Hauser, St. Paul
 Judith Anne Harley Helgoe, Minneapolis
 Stephen Gayle Henry, Parkers Prairie, CUM LAUDE, CHEMISTRY
 Ronald Herbert Holm, New Ulm
 Dennis Clark Holman, Robbinsdale
 James Michael Horst, South St. Paul
 Donald Ross Husband, A.A., Rochester
 Deanne Lee Hansen Huseby, Kananan
 David Allen Jackson, Amo, Ind.
 Lance Howard James, Minneapolis
 William Donald Jarvi, Eveleth
 James Bertram Jensen, Jr., Rushford
 Diane Mary McKenzie Jewson, Minneapolis
 Joyce Elizabeth Johnson, Minneapolis
 Mary Alice Prugh Johnson, Minneapolis
 Ronald Lee Johnson, Richfield
 Nancy Lee Johnstad, Minneapolis
 Gary Joseph Kallsen, A.A., Worthington
 Karl John Karlson, Rochester
 Helen Kathryn Kasper, A.A., Minneapolis
 Donna Carol Kaufman, Minneapolis
 Stephen Allan Kaufman, Minneapolis
 Patricia Lee Jackson Kelly, Minneapolis
 Richard John Kelly, Minneapolis
 Melba Lillian Whitcomb Kert, Cherokee, Iowa
 Karen Rae Nygren Lanegran, St. Paul
 Lois Annette Langen, Kennedy
 Donald Norman Larson, Denver, Colo.
 Linda Ann Larson, Minnetonka
 Patricia Katherine Larson, St. Paul
 Martha Baker Jean Levine, Minneapolis
 Boyd Eldon Lien, Minneapolis
 Sherrie Louise Lindborg, St. Louis Park, MAGNA CUM LAUDE, PSYCHOLOGY
 Michael Edward Lindholm, Minneapolis
 Philip John Lyden, Minneapolis
 Judy Beth Friedman Mack, Hopkins
 Myra Mackoff, St. Paul, SUMMA CUM LAUDE, PSYCHOLOGY
 Stephen Frederick Martin, Minneapolis
 Bonnie Dianne Marvy, St. Paul, CUM LAUDE, WITHOUT DEPARTMENTAL DESIGNATION
 James Joseph Mateyka, Minneapolis
 Elaine Matthews, Hockessin, Del.
 Terry Curtis Maveus, Minneapolis
 Henry Kenevan McConnon, Minneapolis

Frederic Huntington Miller, Minneapolis
 James Edward Miller, Minneapolis
 Pamela Joy Mills, Minnetonka
 Harold Ivan Modell, St. Paul
 Carol Louise Moe, Morris
 James David Moenke, St. Louis Park
 Clifford James Mottaz, Jr., A.A.,
 Maplewood
 Kevin Oliver Murphy, Minneapolis
 Olga Beatrise Olavs Nagobads, Minneapolis
 Gary David Nelson, Minneapolis
 Donald Bankson Nessa, Evergreen,
 Colo.
 David Edward Netz, Long Lake
 Richard George Novotny, South St.
 Paul
 Susan Joan O'Laughlin, Minneapolis
 Shirley Silvola Olson, Minneapolis
 Ricky Peter Paquette, Duluth
 Norman Francis Paradise, Minneapolis
 Altin Roger Paulson, St. Paul
 Dale Gehard Paulson, Minneapolis
 John Andrew Pearson, Minneapolis
 Marlene W. Pechmann, South St.
 Paul
 John Wayne Perlich, Glencoe
 Gail Eileen Peterson, Cannon Falls
 Lesley Caroline Peterson, St. Paul
 Joseph John Pishler, Minneapolis
 Dennis Charles Plain, A.A., Edina
 Patricia Kay Quam, Minneapolis
 William John Rataczak, Minneapolis
 Michael Thomas Rivers, Minneapolis
 James Lee Roberts, St. Paul
 Carroll Jo Rockman, Minneapolis
 Walter Joseph Roers, Minneapolis
 Elizabeth Louise Rogers, Winona
 Emma Marie Rose, Minneapolis
 Lynne Mary Rubel, Minneapolis

Ellen Sue Rubenstein, St. Paul
 Ruby Agatha Scherer, Long Lake
 James Hubert Schoolmeesters, Clon-
 tarf
 Robert Jacob Seifert, Minneapolis
 Jon Frederic Seirup, Minnetonka
 Michael Richard Slind, Minneapolis
 Maurine Ellen Smiler, Minneapolis
 Mary Susan Smith, Mound, MAGNA
 CUM LAUDE, SPANISH
 Alice E. Ulvin Sonnesyn, Edina
 John Eugene Speier, Minneapolis
 Paul Ernest Stacheli, St. Paul
 Gary Lynn Stenson, Devils Lake,
 N.D.
 John Ball Stever, Minneapolis
 Gerhild G. Eiselt Stiewe, St. Paul,
 MAGNA CUM LAUDE, GERMAN
 Lloyd Kenneth Stinson, Excelsior
 Chesley Gordon Strom, Edina
 Gary Lee Strumpfer, Minneapolis
 Theodore Manley Thiel, Minneapolis
 Roger Christison Towler, A.A., Red-
 wood Falls
 Thomas Henry Tschetter, Jasper
 Fredric Nickolas Tumler, Minneapolis
 Bonnie Lee Victor, Minneapolis, CUM
 LAUDE, SOCIOLOGY
 Paul Arnold Vollom, A.A., Ely
 Clifford Paul Warnert, Minneapolis
 Carol Lynn Jordan Wawersik, St.
 Paul, MAGNA CUM LAUDE, GERMAN
 Laurice Therese Welch, St. Cloud
 Linda Ann Welch, Fort Dodge, Iowa
 John Francis Wetzels, Little Falls
 Thomas James Williams, St. Paul
 John Dale Scott Wilson, Minneapolis
 Kenneth Luther Winden, St. Paul
 Nancy Lynn Wolcott, South St. Paul
 Donald Phillips Yaeger, St. Paul
 Roy Joey Zalesky, Minneapolis
 Sharolynn Kay Ziesmer, Granite Falls

UNIVERSITY COLLEGE

Bachelor of Arts

Augustine Muckley Bucher, A.L.A.,
 St. Paul
 Dean Patrick Hand, Marshall

Gila Markovsky, Tel-Aviv, Israel
 Carole Linda Rauschnot, St. Paul

Bachelor of Science

Dennis Marshall Erdal, Minneapolis
M. William Hart, Jr., Bloomington

Forrest Edmund Johnson, Minneapolis, CUM LAUDE
Edwin Dwight Mackie, St. Paul

INSTITUTE OF TECHNOLOGY

Bachelor of Aeronautical Engineering

Gary Alton Gruber, Cannon Falls

James Douglas Morell, Cambridge

Bachelor of Agricultural Engineering

Willis Ray Almendinger, Minneapolis

Gene Harold Ullstrom, Baudette

Bachelor of Architecture

Allen Paul Born, B.A., Minneapolis
John Milton Lind, B.A., Red Wing

Stone Line, B.A., China

Bachelor of Chemical Engineering

Walter Lee Fong, Port Elizabeth,
Republic of South Africa

Zsolt Romy, Minneapolis

Bachelor of Chemistry

Richard Robert Riter, St. Paul

Bachelor of Civil Engineering

William Avery Buol, St. Paul
David Michael Feltl, Hopkins
Richard W. Hackbarth, Minong, Wis.
Barry Kent Holmstrom, Oklee
Donald Duane May, Minneapolis
Robert John Miller, St. Paul

Robert Stanley Morgan, Minneapolis
Gordon Jacob Smith, Parkers Prairie
Raymond Walter Thron, West St.
Paul
Russell Philip Whitten, St. Paul

Bachelor of Electrical Engineering

David Harold Baker, St. Paul
Peter James Carr, Buhl, WITH DISTINCTION

Peter William Dahl, A.A., Edina
Milon Fred George, Sauk Rapids
John Raymond Hayes, Jr., Minneapolis

Knute Sidney Knudson, Duluth
Jerrold Stephen Mengelkoch, Minneapolis
Eugene James Olinger, Mankato,
WITH DISTINCTION
Terrance Michael Smith, St. Paul

Ronald William Splett, New Richland
Joel Richard Stockdale, Hopkins
James Donald Strohmeier, St. Louis
Park
Ivars Vancers, Duluth

Bachelor of Mechanical Engineering

William Allen Backen, Brainerd
Robert William Benson, Isle
Joseph A. Blesener, Northfield
John Winthrop Byam, Jr., Wilbraham, Mass.
John Thomas Costello, Rochester,
WITH DISTINCTION
William Robert Erickson, St. Paul
William Miles Fredrickson, Duluth
Lee Charles Garber, West St. Paul
Robert Fox Hall, A.A., Brainerd
Raymond Albert Hogenson, Duluth
Howard Michael Ildvad, Minneapolis
David Fredrick Lange, Sleepy Eye
Loren Lee Loberg, Virginia

Howard Arthur Nordeen, Harris,
WITH DISTINCTION
Robert Kenneth Nygaard, Columbia Heights, WITH DISTINCTION
Ronald Erling Olberg, Minneapolis
David Arthur Olson, Albert Lea
Daniel Carl Parten, Long Lake
Jerry Mathew Preshiren, Ely
John Stanley Rotegard, Minneapolis
Wayne Albert Shamla, Silver Lake
Charles Joseph Tambornino, St. Paul
David Larry Wick, Minneapolis
Dale Eugene Williamson, Minneapolis

Bachelor of Metallurgical Engineering

Jon Francis Edd, White Bear Lake

Bachelor of Mineral Engineering

Lynn Everett Kent, Milaca

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

Technical Certificate in Agriculture

Larry Lee Becker, Fairmont
Jean Mark Fiedler, Sauk Centre
Keith Eugene Knight, Adams
Myron Sidney Larson, Rushford
Lawrence Albert McFadden, Webster

Sanford James Seibert, Lewisville
Arlyn Roy Stokesbary, Redwood Falls
Stanley Bruce Whitney, Minnesota
Lake

Bachelor of Science

David Andrew Bangerter, St. Paul, Agriculture	Gordon Jay Kelley, Garden City, Agriculture
Roland James Boll, Lake Lillian, Agriculture	William Carl Ladwig, Henning, Agriculture
David Hosmer Daniels, Annandale, Va., Forestry	Thomas Duane MacPherson, Minne- apolis, Agriculture
Mervin Clifton Eisel, Fort Ripley, Agriculture	Patricia Jean Mund, St. Paul, Home Economics
Thomas Patrick Emerson, Milwaukee, Wis., Forestry	Sharon June Oas, Minneapolis, Home Economics
Paul Harold Hanson, Winger, Forestry	David Stephen Parent, Minneapolis, Forestry
Larry Michael Hetrey, Minneapolis, Forestry	Charles Melvin Selander, St. Paul, Forestry
Donald John Hoffmann, Starbuck, Agriculture	Ronald Carl Stancer, Redwood Falls, Agriculture
Keith Irvin Iverson, Hayward, Agri- culture	Gerald Lynn Tabbut, Pelican Rapids, Agriculture

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

Bachelor of Science

Shirley Kay Barwald, West Concord, Home Economics Education	William Kent Kiehne, Harmony, Agricultural Education
Mary Ann Slordal Dahlberg, Duluth, Home Economics Education	Patricia Anne Murphy, Excelsior, <i>Home Economics Education, WITH DISTINCTION</i>
Jacquelyn Ann Engquist, Cambridge, Home Economics Education	Donald Owen Nelson, Albert Lea, Agricultural Education
Harlen Carl Hokanson, Randall, Agri- cultural Education	May Harris Perkins, Wayzata, Home <i>Economics Education, WITH DIS- TINCTION</i>
Judy Ann Holsten, Columbia Heights, Home Economics Education	Carolyn Marie Rude, Zumbrota, Home Economics Education
Thomas Chalin Hovde, Hanska, Agri- cultural Education	Karen Leone Stillwell, Hopkins, Home Economics Education
Duane Milton Kendrick, Mahtomedi, Agricultural Education	James Allan Vagts, Harmony, Agri- cultural Education
Wayne Curtis Kennen, Rush City, Agricultural Education	

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

Bachelor of Agricultural Business Administration

Charles Ludvig Anderson, Litchfield
Marshall Alan McCall, A.A., St. Paul

Robert Vernon Thamert, Owatonna

COLLEGE OF EDUCATION

Bachelor of Science

Timothy Stanley Alm, Minneapolis
Cleon Wiles Anderson, Richfield
Mary Charlotte Barlow Andresen,
Albert Lea

*Diane Patricia Wilson Arneson, Man-
kato, WITH DISTINCTION*

Ronald George Bennett, Minneapolis
Kay Louise Nopola Blackmore,
Biwabik

Madre Carlye Bohn, Minneapolis
*Lee Joseph Bonicatto, Virginia, WITH
DISTINCTION*

Yvonne Zumbusch Bretoi, B.A., St.
Paul

John Francis Brodrick, St. Paul
Barbara Johnson Brue, St. Paul
Rosemary Florence Buckley, A.L.A.,
Minneapolis

Judith Mary Burger, St. Paul
Charles Wesley Burnside, Minne-
apolis

Robert James Burrichter, Minneapolis
*Jerome Francis Cawley, Waseca, WITH
DISTINCTION*

Nancy Ruth Chakrin, Minneapolis
Elizabeth Shuman Clark, B.A., St.
Paul

Dan Edward Cragg, Crystal
Marilyn Jean Dalsbo, Minneapolis
Susan Jane Deputy, Minneapolis,

WITH HIGH DISTINCTION
Carol Ann Gross Draper, Lima, Ohio,
WITH DISTINCTION

Ingeborg Heinke Droune, Minne-
apolis

*Judith Freeberg Dykes, Minneapolis,
WITH DISTINCTION*

Penny S. Metsala Eckert, Minne-
apolis

Keith William Engdahl, St. Paul
Lyle Martin Faurot, B.A., Minne-
apolis, *WITH DISTINCTION*

Dennis Lee Flom, Kenyon
Nancy Elizabeth Frick, Hopkins
Geraldine Ruth Gagner, New
Brighton

Nanci Ellen Hertz Garon, Minne-
apolis

Karen Elizabeth Greiling, Minne-
apolis

*Jean Ardyce Hagen, Minneapolis,
WITH DISTINCTION*

Judith Ann Hansen, Minneapolis
Bonnie Kay Hanson, Fergus Falls
Sallyann Christine Henriksen, B.A.,
Minneapolis

Virginia Lynn Holritz, Minneapolis
Lary James Houghton, St. Paul
Dawn Simone Hoveland, Winona

Kersey Sarah Jones, Minneapolis
Barbara D. Kauffmann, Minneapolis
Barbara Marie Kordiak, Columbia
Heights

Beverly Jean Kordiak, Columbia
Heights

Sandra Mae Kraskin, Minneapolis,
WITH HIGH DISTINCTION
Orla Christianson Larson, Minne-
apolis, WITH DISTINCTION
Kathleen Karen McGann, Minne-
apolis, WITH DISTINCTION
Judith Ann Nelson, Minneapolis
Mary Lynn Oberg, Minneapolis
Dean Marvin Odegaard, B.A., Min-
neapolis
Joanelle Margaret Anderson
Ogrezovich, A.A., Buhl
Paul Michael Olsen, A.A., Minne-
apolis
Elizabeth Louise O'Shaughnessy,
Marshall
Robert Panchyshyn, Minneapolis
Jacqueline Churchill Park, Spring
Valley
Mary Alice Seward Pfeifer, Richfield
Shirley Anne Porrazzo, Minneapolis,
WITH DISTINCTION
Judith Ann Revord, Minneapolis
Elaine Anne Richard, Minneapolis,
WITH DISTINCTION
Barbara Frances Robertson, Minne-
apolis
Mary Brown Robertson, B.A., Edina
Donna Sonnicksen Rose, R.N., Min-
neapolis, WITH DISTINCTION

Gayle Ann Ruffenach, Minneapolis
Betsy Harding Schwartz, Minneapolis
Betty Elliott Settergren, Minneapolis
Andrea Gay Siegel, St. Paul
Berledda Shaffer Skaar, Pine City
Mary Ellyn Steuernagel, Utica, WITH
DISTINCTION
Gerhild Eiselt Stiewe, St. Paul, WITH
HIGH DISTINCTION
Eleanor Sue Strem, A.A., St. Paul
James Wilbur Sulzbach, Minneapolis
David Arthur Thorn, A.A., Minne-
apolis
Margaret Caroline Tressel, A.A.,
Edina
Lawrence Oscar Vall, Minneapolis
Ellen Irene Fish Vierath, Minne-
apolis
Robert Emmert Wagner, B.A., Min-
neapolis
Fulton James Weckman, Jordan
Shirley Ann Westhead, Minneapolis
David John Wetterling, Fridley
Kathleen Ann Wilfong, Richfield
Steven Harold Wilke, St. Paul
Kaye Elizabeth Williams, Minne-
apolis
Donna Buran Wondra, New Brighton

Master of Education

Marianne Holtz, B.S., Trimont
Ronald Amazon Hurst, B.S., Bloom-
ington

Douglas Paul Wasko, B.S., St. Paul

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Erik Stephen Anderson, Gaylord,
WITH DISTINCTION
Thomas Charlton Arland, St. Paul
William Ralph Ayshford, Robbins-
dale, WITH DISTINCTION
Clark Harold Batho, Plum City, Wis.
Robert Jerry Brabec, Albert Lea, WITH
DISTINCTION

Steven Irving Bressler, Luverne
Brian William Cornelius, Elk River
Stanley Loren Erstad, Lake Wilson
Timothy Orin Forbes, West St. Paul
Edward Howard Foster, North St.
Paul
Larry Dale Gerber, Minneapolis
Darrel Duane Gilson, St. Paul

John James Glass, St. Paul
Fred Edwin Henrichs, Minneapolis
Bruce Fredrick Hepp, B.A., Minneapolis
William Thorvald Holte, Minneapolis
Donald Dixon Jordan, White Bear Lake
Keith John Kalenda, Princeton
Lynn LeRoy Knode, Benson
David Dale Koentopf, Lakeville, WITH
DISTINCTION
Steven Bradley Larson, Red Wing
John Bruce Lind, Minneapolis
Jerry Charles Lothrop, Coleraine
Margaret Elizabeth Lundberg, International Falls
James Paul Morgan, Round Lake
David Jerome Nelson, Underwood
Henry Richard Noble, Osage

Patrick Herbert O'Connor, Waconia
Richard Sigurd Ogren, Minneapolis
Gary H. Petersen, Bloomington
Duane Milton Peterson, Minneapolis
Wayne Owen Podratz, Minneapolis
Richard Joseph Poeschl, St. Paul
Glenn Gerald Rother, Hastings
David Arthur Ryks, Wayzata
Wallace Ronald Saldin, Madison
William Joseph Smetana, Hopkins
Gary Bruce Sorsen, Minneapolis
W. Clyde Stedman, Edina
Donald L. Sturtevant, Savanna, Ill.
Joseph Daniel Sullivan, Minneapolis
David Richard Timmons, New Prague
Keith Jonathan Turnquist, St. Paul
James Allen Walker, St. Paul
John Edward Welna, Minneapolis
James Barry Wennberg, St. Paul

Bachelor of Science in Economics

Galen Dean Bayerkohler, Minneapolis
Charles Joseph Connoy, Minneapolis

Leigh John Johnson, St. Paul
Robert Blair Sandler, Minneapolis

LAW SCHOOL

Bachelor of Laws

Francis Gorham Commers, B.A.,
Minneapolis
Gordon Vern Johnson, Mankato

James Howard Winzenburg, B.A.,
Fairmont

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Marilyn Jean Tommerdahl, Minneapolis

Bachelor of Science

Jeremiah Thompson, Menlo Park, Calif., Medicine

Master of Public Health

Earl Edward Grass, B.S., D.V.M.,
St. Paul

Calvert Therald Larsen, B.S., D.V.M.,
Ephraim, Utah

Donald Wayne Luchsinger, B.S.,
D.V.M., St. Paul

Hugh Evan Metcalf, B.S., D.V.M.,
St. Paul

John Andrew Newman, B.S., D.V.M.,
St. Paul

GRADUATE SCHOOL

Master of Arts

Alice Glattstein Ahart, Tiffin, Ohio

B.A. '54, Marietta College. Field of Concentration: Speech Pathology.

Charles Richard Akin, Minneapolis

B.A. '61, University of Minnesota. Field of Concentration: International Relations.

Duane Albert Anderson, Minneapolis

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

Julie Bailey, Cedar Falls, Iowa

B.A. '41, Cornell College. Field of Concentration: Library Science.

Ernst Gottfried Becker, Rochester

B.A. '64, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Latent Identities and Differential Perception of Organizational Goals.

Louis Henry Becker, Humboldt, Iowa

B.A. '59, Wartburg College. Field of Concentration: Speech and Theatre Arts.

Josephine Porcher Bell, Minneapolis

B.A. '64, University of Minnesota. Field of Concentration: Library Science.

Roland George Bergeson, Minneapolis

B.A. '64, Northwestern College. Field of Concentration: Educational Psychology.

Nick Nathan Boretz, Beverly Hills,
Calif.

B.A. '64, University of California (Los Angeles). Field of Concentration: Speech and Theatre Arts.

John Francis Carlsted, Truman

B.S. '62, University of Minnesota. Field of Concentration: Educational Administration.

Thomas Edmund Carroll, St. Paul

B.A. *magna cum laude* '64, St. John's University. Field of Concentration: Industrial Relations.

Veneta Splawn Clark, Wayzata

B.S. '53, Bob Jones University. Field of Concentration: Curriculum and Instruction.

Marvin Mayer Cohan, St. Paul

B.A. *cum laude* '63, University of Minnesota. Field of Concentration: Industrial Relations.

Christina Louise Copenhaver, St. Paul

B.A. *cum laude* '64, Carleton College. Field of Concentration: Library Science.

Edwin Lane Crosby, Minneapolis

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

Gordon Jerome Dahl, Watertown,
S.D.

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

James Leonard Danielson, Lake Bron-
son

B.A. *cum laude* '60, Concordia College (Moorhead). Field of Concentration: Political Science.

Coralie Elizabeth Dietrich, Minne-
apolis

B.A. *cum laude* '63, Catholic University of America. Field of Concentration: Educational Psychology.

Richard Alan Dubanoski, Manchester, Conn.

B.A. '62, Wesleyan University. Major: Child Psychology. Minor: Educational Psychology. Thesis: Inferring the Phenomenal Locus of the Perceiver From Responses to Tactile Stimulation.

Joseph David Dwyer, Minneapolis

B.A. '64, University of Minnesota. Field of Concentration: Library Science.

William Pearson Edwards, Middlesex, Vt.

B.A. *cum laude* '62, Harvard University. Field of Concentration: American Studies.

Yvonne Lerfald Egertson, Grand Forks, N.D.

B.A. '62, Augsburg College. Field of Concentration: Library Science.

Mohamed Ali A. El-Hodiri, Munsa, Ashmoon, United Arab Republic

B.Com. '58, University of Cairo (Egypt); M.A. '61, University of Minnesota. Major: Mathematics. Minor: Economics. Thesis: A Note on Constrained Extrema.

Jerome Sherman Emerson, St. Paul

B.A. '52, M.Ed. '54, Macalester College. Field of Concentration: Educational Administration.

Stanley Roy Esterly, Luverne

B.A. '52, Macalester College. Field of Concentration: Political Science.

Robert Earl Franz, Jr., St. Paul

B.A. *magna cum laude* '61, St. Olaf College. Major: Sociology. Minor: Psychology. Thesis: Religious Affiliation, Kinship Integration and Family Power.

Joseph Freeman, Roseau

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

Edward Joseph Furlong, St. Paul

B.A. '51, College of St. Thomas. Field of Concentration: History.

Kenneth Frank Galatowitsch, St. Paul

B.A. '59, College of St. Thomas; B.S.El.Ed. '60, Macalester College. Field of Concentration: Curriculum and Instruction.

James T. Gallant, Minneapolis

B.A. with honors '60, Denison University. Field of Concentration: English.

Bruce Lee Gildseth, Minneapolis

B.A. *cum laude* '62, Augsburg College. Field of Concentration: Educational Psychology.

Helen Elizabeth Ann Gildseth, Minneapolis

B.A. *cum laude* '63, Augsburg College. Field of Concentration: Educational Psychology.

Roger Barry Glaim, New Hope

B.S. '56, St. Cloud State College. Field of Concentration: Educational Psychology.

John Newton Griffiths, Minnetonka

B.S. with honors '50, Mankato State College. Field of Concentration: Educational Administration.

Linda Sue Grossman, Minneapolis

B.S. '63, Boston University. Major: Speech Pathology. Minor: Child Psychology. Thesis: The Study of Cross-Section Glottal Area and Vocal Fold Position During the Production of [h] and Whispered [ae] Using High-Speed Cinematography.

Mary Ann Hauck, Minneapolis

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

Harvey Stuart Irlen, Cleveland Heights, Ohio

B.S.Jour. '62, Northwestern University. Field of Concentration: English.

Leland Stuart Jahnke, Gotham City

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

Jack Daly Jarpe, Minneapolis

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

Jacquelyn Ann Johnson, Buxton, N.D.

B.S.Educ. *magna cum laude* '59, University of North Dakota. Field of Concentration: Physical Education.

Martha Ann Johnson, Hopkins

B.A. '60, University of Colorado. Field of Concentration: History.

Sidney Lowell Johnson, St. Paul

B.S. '59, Winona State College. Field of Concentration: History and Philosophy of Education.

Walter Dennis Johnson, Roseville

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

Helen Holt Juliar, St. Paul

B.S.El.Ed. '64, Wisconsin State College (River Falls). Field of Concentration: Educational Psychology.

Dorothy Josephine Kellogg, Minneapolis

B.A. '51, Cornell University. Major: Child Psychology. Minor: Psychology. Thesis: Observing Behavior in Neonates.

Makram Samaan Khalil, Cairo, Egypt

B.A. '53, M.A. '63, Cairo University (Egypt). Field of Concentration: Psychology.

Joseph Aaron Klaitz, Brooklyn, N.Y.

B.A. '64, Columbia University. Major: History. Minor: Political Science. Thesis: The Idea of a Diplomat in the Age of Louis XIV: The Danish Envoy Extraordinary to France, 1688.

Diana Jean Knight, Minneapolis

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

Hartley Ralph Koch, St. Paul

B.A. '55, St. Olaf College. Field of Concentration: Psychology.

Dale Alan Kreitz, Minneapolis

B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Peter Chia-Shan Ku, Taipei, Taiwan, China

B.A. '60, Taiwan Provincial College of Law and Commerce (China). Field of Concentration: Library Science.

Hordur Larusson, Reykjavik, Iceland

B.A. '60, University of Iceland. Field of Concentration: Mathematics.

Margaret Anne Leary, Oberlin, Ohio

B.A. '64, Cornell University. Field of Concentration: Library Science.

Dewain Owen Long, Minneapolis

B.A. '48, North Central College. Major: Library Science. Minor: Education. Thesis: Use of the Freshman Sophomore Library by General College Students.

Carol Staloch Loomis, Wells

B.A. '59, College of St. Catherine. Field of Concentration: Curriculum and Instruction.

Barbara Jean Trosvik Lord, Minneapolis

B.A. '54, Northwestern College. Field of Concentration: Music Education.

Horst Eberhard Ludwig, Berlin, Germany

'64, Free University of Berlin (Germany). Field of Concentration: German.

James Thomas Mac Fadyen, Yonkers, N.Y.

B.A. '56, Bethel College. Field of Concentration: History.

Paul Otto Marschke, St. Paul

B.A. with distinction '59, Concordia Senior College. Major: History. Minor: Political Science. Thesis: Bismarck and the Outbreak of the Kulturkampf.

Judith Virginia McDonald, Duluth

B.A. '63, University of Minnesota. Field of Concentration: Psychology.

Larry William Means, Portland, Ore.

B.S. '63, Portland State College. Field of Concentration: Psychology.

Dorothy Gay Meyer, Minneapolis

B.A. '59, Antioch College. Field of Concentration: Psychology.

Paul Gordon Mohrbacher, St. Paul

B.A. '56, St. Paul Seminary. Field of Concentration: Latin.

Joseph Wood Moyle, Excelsior

B.A. *cum laude* '61, University of Minnesota. Field of Concentration: Area Studies: East and South Asia.

Margaret Jean Nelson, Minneapolis

B.A. with high honors '50, Wheaton College. Field of Concentration: English.

Paul Edward Nelson, Slayton

B.S. with distinction '63, B.A. '63, University of Minnesota. Major: Speech and Theatre Arts. Minor: English. Thesis: The Rhetoric of Judicial Dissent in Selected First Amendment Opinions by Justice Hugo LaFayette Black.

Felix Norbert Neussendorfer, Collegeville

B.A. '49, St. John's University. Field of Concentration: Education.

Corine Marguerite Newton Norberg, Hopkins

B.B.A. '41, B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Anne Elizabeth Northman, Santa Barbara, Calif.

B.A. '63, University of Wisconsin. Field of Concentration: Botany.

Betty Jean Nyhus, Mason City, Iowa

B.A. '56, Luther College. Field of Concentration: Curriculum and Instruction.

Peter Frederick Parshall, Western Springs, Ill.

B.A. '58, Grinnell College. Field of Concentration: Comparative Literature.

Ruth Bard Petkofsky, Malvern, Pa.

B.A. '50, Hunter College. Field of Concentration: Educational Psychology.

Helen Moore Quenemoen, Ann Arbor, Mich.

B.A. *magna cum laude* '64, Carleton College. Field of Concentration: Library Science.

Richard David Quinn, Belmont, Mass.

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

Elizabeth Ann Rider, Gainesville, Fla.

B.A. '63, University of Richmond. Field of Concentration: English.

Donald Rosenberg, Brooklyn, N.Y.

B.B.S. '62, City College of New York. Field of Concentration: Industrial Relations.

Magdalen Susan Rude, Minneapolis

B.S. '57, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Glee Ann Rundgren, Barnum

B.A. '64, University of Minnesota. Field of Concentration: Library Science.

Sister Madeleine Savard, Montreal, Quebec, Canada

Diploma with *grande distinction* '61, University of Montreal. Field of Concentration: Curriculum and Instruction.

Janet Silverness Snedrud, Minneapolis

B.S. with distinction '64, University of Minnesota. Field of Concentration: Library Science.

Dean LaVon Swanson, Stanchfield

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

Donald Ell Sward, Northfield

B.A. '50, College of St. Thomas. Field of Concentration: Library Science.

Mancee Thamaragsa, Mdoornthani, Thailand

B.Ed. '60, Bangsaeen College of Education (Thailand). Field of Concentration: Education.

Merle Hall Vokaty, Edina

B.S. with honor '42, Mankato State College. Major: Physical Education. Minor: Educational Psychology. Thesis: Developing a Check List of Health Problems for the Junior High Schools of Minneapolis.

Catherine Nai-jean Wang, Taiwan, China

B.A. '60, National Taiwan University (China). Field of Concentration: Library Science.

Donald Charles Williams, Minneapolis

B.S.Ed. '56, Northern State College. Field of Concentration: Educational Administration.

Emma Mariano Javier Zshornack, Quezon City, Philippines

B.S. '53, University of Santo Tomas (Philippines). Field of Concentration: Statistics.

Master of Arts in Public Administration

Richard John Dethmers, St. Paul

B.A. *cum laude* '57, Macalester College. Major: Public Administration. Thesis: New Concepts and Methods of Accountability in Public Welfare.

Kie Pyung Oh, Seoul, Korea

LL.B. '57, Seoul National University (Korea). Field of Concentration: Public Administration.

Joseph LeRoy Fox, Crystal

B.S. '57, University of Minnesota. Major: Public Administration. Thesis: A Study of Factors Associated with Attitudes and Opinions of County Extension Agents Toward the 4-H Club Program.

Master of Business Administration

Arend John Sandbulte, Sioux Center,
Iowa

B.S.E.E. '59, Iowa State University. Field of Concentration: Business Administration.

Master of Forestry

Milo James Larson, St. Peter

B.S. '64, University of Minnesota. Field of Concentration: Forestry.

Master of Science

Robert Arthur Arnold, Minneapolis

B.A. '60, Jamestown College. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Rearrangement of Phenylpropionyl Derivatives of Indole Dimers.

Alden Edward Domning, Lino Lakes

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

Andrew Dewey Bailey, Jr., Minneapolis

B.S.B. with distinction '64, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: The Planning Horizon and a Discounted Cash Flow Approach to Accounting Reports.

Neil Andrew Eklund, Minneapolis

B.S. *cum laude* '63, Hamline University. Major: Mathematics. Minor: Physics. Thesis: The Reproducing Kernel Function and the Canonical Conformal Representation; Hilbert Space.

Samuel Irving Berman, Minneapolis

B.A. *magna cum laude* '60, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Mechanism of Dephosphorylation of Creatine Phosphate by Rabbit Skeletal Muscle Preparations.

Nabil Sobhi Elias, Alexandria, Egypt

B.Com. '60, Alexandria University (Egypt). Field of Concentration: Business Administration.

Shaker Sorial Boutros, Cairo, Egypt

B.Com. '42, M.Com. '53, University of Cairo (Egypt). Field of Concentration: Business Administration.

John Christopher English, Norwich,
England

B.Sc.(Agric.) with honors '62, Wye College (England). Field of Concentration: Agricultural Economics.

Richard Edwin Erickson, Duluth

B.A. *cum laude* '60, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Effect of Su-4885 (2-Methyl-1,2-Bis-(3-Pyridyl)-1-Propanone) on Steroid 18-Hydroxylation *In Vitro*.

Garry William Frits, Minneapolis

B.S. '64, University of Minnesota. Field of Concentration: Forestry.

Gregory Rither Germaine, Minneapolis

B.A. '63, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: The Binding of Homologous Polymerized P³²-DNA by *Streptomyces Griseus*.

Rosario Maria Chua Go, Quezon City, Philippines

B.S.Ch.E. *summ cum laude* '63, University of Santo Tomas (Philippines). Field of Concentration: Physical Chemistry.

Jean Goeppinger, Boone, Iowa

B.S. '64, St. Olaf College. Field of Concentration: Public Health.

John Robathan Harries, Adelaide, Australia

B.Sc. '63, University of Adelaide (Australia). Major: Physics. Minor: Mathematics. Thesis: Proton Scattering Using a 9000u Lithium Silicon Detector.

Alfred Ray Harris, St. Paul

B.S. '54, Brigham Young University. Major: Soil Science. Minor: Agricultural Plant Physiology. Thesis: Solar Radiation Reception and Distribution and Its Correlation with Sunshine.

Gerald R. Haywood, Fowler, Kan.

B.A. '62, Kansas State Teachers College. Major: Microbiology. Minor: Biochemistry. Thesis: Passive Transfer of Endotoxin Pyrogenic Activity by Sensitized Cells.

Jean Ann Hyslop, St. Paul

B.S. with distinction '60, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Comparative Immunochemical Studies on the Purified Endotoxins of *Chromobacterium Violaceum* and *Escherichia Coli*.

Sherwood Burtrum Idso, Thief River Falls

B.Phys. with distinction '64, University of Minnesota. Major: Soil Science. Minor: Physics. Thesis: The Energy Environment of Plants and Its Effect Upon Plant Productivity.

Delores Esther Johnson, Milaca

B.S. with distinction '60, University of Minnesota. Field of Concentration: Public Health.

Louis Charles Landman, Jr., Winona

B.A. '62, St. John's University. Major: Microbiology. Minor: Public Health. Thesis: Effect of Hydrogen Peroxide Treatment of Milk on Acid Production of Lactic Starter Cultures.

Kenneth Thomas Leath, Providence, R.I.

B.S.Agric. '59, University of Rhode Island. Major: Plant Pathology. Minor: Entomology. Thesis: Histological Study of the Resistance of *Zea Mays* to *Puccinia Graminis*.

Robert Alan Lichty, Rothschild, Wis.

B.S. '64, Macalester College. Field of Concentration: Business Administration.

Fathi Abdel-Aziz Mansour, Alexandria, Egypt, United Arab Republic

B.Com. '60, Alexandria University (Egypt). Field of Concentration: Business Administration.

Arthur Storer McFee, Minneapolis

B.A. *cum laude* '53, M.D. '57, Harvard University. Major: Biochemistry. Minor: Pathology. Thesis: The Uptake and Distribution of P³² in the Mucosa of the Normal Rat Stomach as a Function of Time.

Jane Camp Moore, Ft. Worth, Tex.

B.A. '63, Drake University. Field of Concentration: Mathematics.

Kuchibotla Suryanarayana Murthy, Tenali, India

B.Pharm. '61, M.Pharm. '62, Andhra University (India). Major: Pharmaceutical Technology. Minor: Physical Chemistry. Thesis: Hydrolytic Susceptibility of the Ester Linkage Within the Micellar Phase of Association Colloids.

Jonathan Fairfield Ormes, Colorado Springs, Colo.

B.S. '61, Stanford University. Major: Physics. Minor: Mathematics. Thesis: A Scintillator Combination Cherenkov-Scintillator Cosmic Ray Counter Telescope.

John Walter Peterson, Gaylord

B.S. with distinction '57, University of Minnesota. Field of Concentration: Soil Science.

Richard Power, Dublin, Ireland

B.Agric.Sc. '57, National University of Ireland. Field of Concentration: Agricultural Economics.

Fritz-Arno Purrmann, Hannover, Germany

B.S. with distinction '63, University of Minnesota. Field of Concentration: Agricultural Economics.

Sister M. Laetare Reagan, Newport, R.I.

B.S. '64, Salve Regina College. Field of Concentration: Public Health.

Charles Francis Schachtele, Jr., Minneapolis

B.S. '63, Macalester College. Major: Microbiology. Minor: Biochemistry. Thesis: Canavanine Death: Studies on the Mode of Action of L-Canavanine as a Growth Inhibitor in *Escherichia Coli*.

John William Schiefelbein, Minneapolis

B.S. with distinction '58, University of Minnesota. Major: Entomology. Minor: Biometrics. Thesis: Populations of Predatory Insects and Their Effects on Pest Insects in Corn and Oats.

Edwin Charles Seim, Excelsior

B.S. in Agric. '54, University of Missouri. Major: Soil Science. Minor: Botany. Thesis: Soil, Crop, and Atmospheric Studies on Sulfur in Hubbard County, Minnesota.

Michael Joseph Shea, Eau Claire, Wis.

B.M.E. '61, Marquette University. Field of Concentration: Physics.

Howard Jack Singer, West Orange, N.J.

B.A. '62, Oberlin College. Major: Microbiology. Minor: Biochemistry. Thesis: Studies on the Autolytic Enzyme Systems of *Bacillus Cereus* Strain T.

Ramon Solis Vega, Chihuahua, Mexico

Diploma '60, National School of Agriculture (Mexico). Field of Concentration: Forestry.

Donald Henry Soukup, Owatonna

B.S.B. '62, University of Minnesota. Field of Concentration: Business Administration.

Elsa Anita Stary, Red Wing

B.S. '64, St. Olaf College. Field of Concentration: Public Health.

M. Christine Swenson, St. Paul

B.S. *magna cum laude* '63, Gustavus Adolphus College. Field of Concentration: Psychiatric Nursing.

Oscar Marcelo Tangco, Manila, Philippines

M.D. '56, University of the Philippines. Major: Anatomy. Minor: Zoology. Thesis: Autoradiographic Study of DNA Synthesis of Rat Islet Cells Under Normal and Alloxan Diabetic Conditions.

Darwin Harold Throne, Glenwood

B.S. with distinction '63, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: A Study of Deuterons and Tritons at Balloon Altitudes and an Upper Limit for the Primary Flux.

Karl Fredrick Veith, Minneapolis

B.S. '61, University of Minnesota. Major: Geophysics. Minor: Electrical Engineering. Thesis: A Geophysical Study of a Portion of the Mid-continent Gravity High.

Yul Yost, Minneapolis

B.S.Ch. '63, University of Kansas. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Synthesis and Reactions of 6-Bromoskatole.

William Irving Young, Philadelphia, Pa.

B.S. '61, Pennsylvania State University. Major: Genetics. Minor: Biochemistry. Thesis: The Influence of Genotype on Strontium-89 Accumulation in Barley Seedlings.

Master of Science in Aeronautical Engineering

Shlomo Carmi, Kiriath-Motzkin, Israel

B.S.(Eng.) with distinction '62, University of the Witwatersrand (South Africa). Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Non-Linear Convective Instability in Spherical Shells.

Master of Science in Agricultural Engineering

George Henry Carlson, Cambridge

B.Ag.E. '61, University of Minnesota. Field of Concentration: Agricultural Engineering.

Master of Science in Civil Engineering

Jagdish Chander Arora, New Delhi,
India

B.Tech.(Hons.) '64, Indian Institute of Technology (India). Field of Concentration: Civil Engineering.

Wallace George Brohaugh, St. Paul

B.S. '64, University of Minnesota. Field of Concentration: Civil Engineering.

Yu-fu Chou, Chang-Hua, Taiwan,
China

B.Sc. '60, Taiwan Provincial Cheng Kung University (China). Field of Concentration: Civil Engineering.

Joel Charles Goldman, New York,
N.Y.

B.C.E. '63, University of Minnesota. Field of Concentration: Civil Engineering.

Daniel Alden Hartmann, Washburn,
N.D.

B.S. '52, North Dakota State University. Field of Concentration: Civil Engineering.

Arthur Fytton Pabst, Douglaston,
N.Y.

B.S. '63, Rutgers University. Major: Civil Engineering. Minor: Agricultural Engineering. Thesis: Hydrograph Linearity in an Elementary Channel.

P. R. Perumalswami, Parambakkattur,
India

B.E.(Hons.) '63, University of Madras (India). Field of Concentration: Civil Engineering.

Donald Glen Ramsey, Dominion
City, Manitoba, Canada

B.Sc.E.(Civil) '62, University of Manitoba. Field of Concentration: Civil Engineering.

Surendrakumar Suthar, Vallabh Vidyanagar, India

B.E.(Civil) '63, Sardar Vallabhbhai Vidyapeeth (India). Field of Concentration: Civil Engineering.

Master of Science in Dermatology

Frances Augustine Horner, Regina,
Saskatchewan, Canada

B.A. '56, M.D. '60, University of Saskatchewan. Major: Dermatology. Minor: Basic Dermatologic Science. Thesis: Histamine Release by Dermal Perfusion.

Master of Science in Electrical Engineering

Ralph Albert Anavy, Beirut, Lebanon

B.E.(Elect.) '62, American University of Beirut (Lebanon). Field of Concentration: Electrical Engineering.

Peter George Brabeck, St. Paul

B.S. with distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of the Complex Magnetoconductive Effect in N-Type Germanium at 10.5 GC/S.

Leroy Owen Braun, Minneapolis

B.S. with distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Properties of Solid State Lasers with Resonant Mirrors.

Earl Albert Cunningham, New Brighton

B.S. with high distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Cardiac Monitor.

Robert Leon Erickson, Hibbing

B.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Some Space Charge Controlled Electrical Characteristics of Cadmium Fluoride.

Norman Alfred Foss, Minneapolis

B.S. with distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Anisotropy of the Ion-Electron Emission From Titanium Single Crystals Under Bombardment by Singly Ionized Helium Ions.

Douglas Lee Franzen, Minneapolis

B.S. with high distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Studies of the Quasi-CW Argon Ion Laser.

Gary Harold Glover, Minneapolis

B.S. with distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Contact Effects in Guided Wave Measurements of Complex Conductivity of Semiconductors.

Gerald Wayne Norley, Duluth

B.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of the Strain-Resistance Coefficient of Sputtered Films.

Rolf Clemens Peterson, Edina

B.S. with high distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Slow Electron Diffraction Study of Graphite.

Ronald Lee Soderstrom, Lauderdale

B.S. with high distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Complex Conductivity of P-Type Germanium at 70 GC/SEC.

Ralph James Talbott, Elmhurst, Ill.

B.S.S.E. '61, Northwestern University. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of the Transition State in Regenerative Transistor Circuits.

David Allan Witsoe, Minneapolis

B.S. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Average Lung Resistivity at 100 KCPS.

Master of Science in Industrial Engineering

Mahendra Sarojkumar Bakshi, Bhavnagar, India

B.S.M.E. '62, University of Oklahoma. Field of Concentration: Industrial Engineering.

Alden Earl Hardwick, Delano

B.S.M.E. '62, University of Minnesota. Field of Concentration: Industrial Engineering.

Master of Science in Mechanical Engineering

Allan Mayer Garon, Duluth

B.S. with high distinction '63, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Experiments on Low-Density Flow Through Rectangular Ducts.

Daniel David Langren, St. Paul

B.S. '63, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Flow Separation and Redevelopment Downstream of an End-Cap Orifice in a Tube.

John Raymond Lloyd, Richfield

B.S. with high distinction '64, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Local Turbulent Heat Transfer in the Separated Region Upstream of an Orifice.

Thomas Russell Laitala, Richfield

B.M.E. with distinction '62, University of Minnesota. Field of Concentration: Mechanical Engineering.

William Gerald Wyatt, Ft. Worth,
Tex.

B.S.M.E. '63, Arlington State College. Field
of Concentration: Mechanical Engineering.

Master of Science in Medicine

E. Rolland Dickson, Rochester
B.A. '55, Ohio Wesleyan University; M.D.
'59, Ohio State University. Major: Medicine.
Minor: Pathology. Thesis: The Human Hepatic Cell: A Quantitative Analysis of Its Fine Structure.

Andrew James Lewis, San Diego,
Calif.

B.S. '54, Santa Clara University; M.D. '58,
Creighton University. Major: Medicine. Minor:
Pathology. Thesis: Myocardial Rupture
Following Myocardial Infarction.

Heinz Wahner, Cali, Colombia, South
America

M.D. '56, University of Hamburg (Germany).
Major: Medicine. Minor: Physiology. Thesis:
Metabolism of ^{131}I -L-Thyroxine in the Isolated
Perfused Rat Liver: Effects of the Antithyroxine
Compounds, n-Butyl-3:5-Diiodo-4-Hydroxybenzoate
and 4-Hydroxy-(3', 5'-Diiodo-4-Oxybenzoyl) Phenylalanine.

Master of Science in Metallurgical Engineering

Umeshwar Dutt Mishra, Varanasi,
India

B.Sc. '62, Banaras Hindu University (India).
Major: Metallurgical Engineering. Minor:
Physical Chemistry. Thesis: Electrical Conduction
in the Potassium Silicate Glasses.

Master of Science in Mineral Engineering

Bezalel Haimson, Minneapolis

B.S.En. '62, University of the Witwatersrand
(South Africa). Major: Mineral Engineering.
Minor: Mechanics and Materials. Thesis: High
Velocity, Low Velocity and Static Bit Penetration
Characteristics in Tennessee Marble.

Master of Science in Neurology

Charles Francis Bolton, Milestone,
Saskatchewan, Canada

M.D., C.M. '56, Queen's University. Major:
Neurology. Minor: Basic Neurological Sciences.
Thesis: A Quantitative Study of Meissner's
Corpuscles in Man.

Hsien-Hwa Hsieh, Fukien, China

B.Med. '56, National Taiwan University
(China). Major: Neurology. Minor: Basic
Neurological Sciences. Thesis: Comparative
Study of Cerebral and Visceral Degenerative
Vascular Disease.

Master of Science in Ophthalmology

Stanley John Simons, Jr., Pendleton,
Ore.

B.S. '57, University of Portland; M.D. '61,
University of Minnesota. Major: Ophthalmol-
ogy. Minor: Biophysics. Thesis: Pupillary Re-
sponse to Momentary Light Stimulation to
Eyes Unequally Light-Adapted.

Master of Science in Orthopedic Surgery

Lawrence Eligio Cerino, Philadelphia,
Pa.

B.S. '57, Franklin and Marshall College; M.D.
'61, Temple University. Major: Orthopedic
Surgery. Minor: Pathology. Thesis: The Effects
of High Intensity Focused Ultrasound Upon
an Experimental Bone Tumor.

Robert Phillip Nirschl, McLean, Va.

M.D. '58, Marquette University. Major: Ortho-
pedic Surgery. Minor: Pathology. Thesis: The
Action of Plasmin on the Canine Interverte-
bral Disc Space.

Master of Science in Radiology

Vernon Albert Vix, Minot, N.D.

M.D. '49, University of Pennsylvania. Field
of Concentration: Radiology.

Master of Surgery

John Joseph Franckowiak, Albany,
N.Y.

B.S. *magna cum laude* '50, Siena College;
M.D. '55, Georgetown University. Major: Sur-
gery. Minor: Pathology. Thesis: The Etiology
of Pilonidal Sinus.

Gerhard Otto Richter, Rochester

M.D. '54, University of Muenster (Germany).
Major: Surgery. Minor: Pathology. Thesis:
Diffuse Infiltrating Scirrhous Carcinoma of
the Breast with Special Consideration of the
Single Filing Phenomenon.

Master of Social Work

Naseera Afzal, Lahore, Pakistan

B.S. '54, M.A. '59, University of the Panjab
(Pakistan). Field of Concentration: Social
Work.

Certificate of Specialist in Education

Gary Robert Livermore, Minneapolis

B.A. '62, M.A. '65, University of Minnesota;
M.A.T. '64, College of St. Thomas. Field of
Concentration: Special Education.

Gordon Joshua Oberg, Aitkin

B.A. '50, Augsburg College; M.A. '58, Uni-
versity of Minnesota. Field of Concentration:
Secondary School Administration.

Doctor of Philosophy

Kathleen Grace Amershek, Johnstown, Pa.

B.S. '51, Indiana State Teachers College; M.Ed. '57, Pennsylvania State University. Major: Education. Minor: Educational Psychology. Thesis: The Structure of Verbal Behavior of Student Teachers and Children During the First Student Teaching Quarter. Major Advisers: Profs. R. E. Eckert and G. M. A. Mork.

John Raymond Baker, Laramie, Wyo.

B.S. '52, B.A. '56, M.S. '56, University of Wyoming. Major: Zoology. Minor: Botany. Thesis: Some Histochemical Studies of the Early Chick Blastoderm. Major Adviser: Prof. N. T. Spratt, Jr.

Marco Giuseppe Bicchieri, Minneapolis

B.A. '61, M.A. '64, University of Minnesota. Major: Anthropology. Minor: Supporting Program. Thesis: A Study of the Ecology of Food Gathering Peoples: A Cross-Cultural Analysis of the Relationship of Environment Technology and Bio-Cultural Viability. Major Adviser: Prof. E. A. Hoebel.

Albert Woodson Black III, University City, Mo.

B.S.M.E. '57, Washington University; M.S.E. '59, Princeton University. Major: Mechanical Engineering. Minor: Mechanics and Materials. Thesis: The Effect of Circumferentially-Varying Boundary Conditions on Turbulent Heat Transfer in a Tube. Major Adviser: Prof. E. M. Sparrow.

Paul Loizeaux Canner, St. Paul

B.A. *summa cum laude* '60, M.S. '62, University of Minnesota. Major: Biostatistics. Minor: Genetics. Thesis: Some Minimax and Bayes Procedures for Selecting One of Two Medical Treatments. Major Adviser: Dr. B. W. Brown, Jr.

Yick-Kwong Chan, Hong Kong, China

B.S. in Agric. '55, Taiwan Provincial College of Agriculture (China); M.S. '60, University of Minnesota. Major: Biostatistics. Minor: Statistics. Thesis: A Competing Risks Model; Normal Death, Cancer Development and Cancer Death. Major Adviser: Dr. E. A. Johnson.

Bohdan Bert Chubey, Morden, Manitoba, Canada

B.S.Agric. '57, University of Manitoba; M.S. '59, Pennsylvania State University. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: Oxidative Browning of Carrots *Daucus Carota*. Major Adviser: Prof. R. E. Nylund.

Charles Lynn Coultas, St. Paul

B.S.(Agric.) with high honors '49, University of Illinois; M.S. '51, Iowa State University. Major: Horticulture. Minor: Soil Science. Thesis: The Influence of Fertilizers on the Nutrition and Performance of Certain Container-Grown Evergreens. Major Adviser: Prof. R. E. Widmer.

John Edgar Cross, Llanelly, Wales

B.Sc. '56, University of Wales; M.S. '59, University of Minnesota. Major: Plant Pathology. Minor: Genetics. Thesis: Variability in Pathogenicity in the Bacterial Blight Pathogen of Soybeans. Major Adviser: Prof. C. J. Eide.

Earl Ray Curry, Galesburg, Ill.

B.S. '60, Iowa State University; M.A. '62, University of Minnesota. Major: History. Minor: Political Science. Thesis: The United States and the Dominican Republic, 1924-1933: Dilemma in the Caribbean. Major Adviser: Prof. W. D. Beatty.

Mohamed Ali A. El-Hodiri, Munsa, Ashmoon, United Arab Republic

B.Com. '58, University of Cairo (Egypt); M.A. '61, University of Minnesota. Major: Economics. Minor: Statistics. Thesis: Optimality Criteria of Economic Growth as Examples of Optimal Resource Allocation Over Time. Major Adviser: Prof. Leonid Hurwicz.

Claire A. Teitelbaum Falk, Bronx, N.Y.

B.A. '62, Barnard College; M.A. '64, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Object and Pattern Discrimination Learning by Young Children as a Function of Availability of Cues. Major Adviser: Prof. H. W. Stevenson.

Gautier Tien-Ni Fang, Nanking,
China

B.S.(Eng.) '55, National Taiwan University (China); M.S.E.E. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: On the Wave Motion and Stability of Magnetoplasmas Having Imperfect Boundaries. Major Adviser: Prof. R. F. Lambert.

Douglas Allen Fenderson, Minneapolis

B.S. '56, M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of the Vocational Rehabilitation Potential of Applicants for Social Security Disability Benefits, Whose Claims Have Been Denied. Major Adviser: Prof. W. H. Edson.

Harlan Roderick Finney, Newark,
Ohio

B.Sc. in Agric. '52, M.Sc. '59, Ohio State University. Major: Soil Science. Minor: Forestry. Thesis: Some Characteristics of Four Raised Bogs in Northern Minnesota; Stratigraphic Relationships and Mineralogical Properties of the Inorganic Fraction. Major Adviser: Prof. R. S. Farnham.

George Robert Fisher, Eagle Bend

B.S. '51, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: Investigations on Bovine Semen Extenders and Their Application. Major Adviser: Prof. E. F. Graham.

Denis Patrick Fitzgerald, Ottawa,
Ontario, Canada

B.A.(Honors) '58, University of Bristol (England); M.A. '59, University of Nebraska. Major: Geography. Minor: Sociology. Thesis: Pioneer Settlement in Northern Saskatchewan. Major Adviser: Prof. E. C. Mather.

Paul Farrell Gnirk, Burke, S.D.

M.S.M.E. '59, South Dakota School of Mines and Technology. Major: Mineral Engineering. Minors: Mathematics and Mechanical Engineering. Thesis: An Investigation of Some Aspects of Contained Explosion Phenomena in Rock. Major Adviser: Prof. Charles Fairhurst.

Alan M. Goldberg, Flushing, N.Y.

B.S.Pharm. '61, Long Island University. Major: Pharmacology. Minor: Physiology. Thesis: A Study of the Negative Inotropic Action of Ephedrine. Major Adviser: Dr. F. E. Shideman.

Patricia Marie Gough, Eagle River,
Wis.

B.S. '58, University of Wisconsin; M.S. '61, University of Minnesota. Major: Biochemistry. Minor: Microbiology. Thesis: Further Studies of a Mercaptoethanol-Sensitive *Brucella* Agglutinin in Bovine Milk. Major Adviser: Prof. Robert Jenness.

David Lennox Grey, Evanston, Ill.

B.A. '57, University of Michigan; M.A. '60, Stanford University. Major: Journalism. Minor: Political Science. Thesis: Public Communication of U.S. Appellate Court Decisions. Major Adviser: Prof. J. E. Gerald.

Herbert John Hatcher, Minneapolis

B.A. '53, M.S. '64, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: On the Utilization of Amino Acids by *Aspergillus Flavus* for Nitrification. Major Adviser: Dr. E. L. Schmidt.

Sister Mary Margaret Irene Healy,
Chicago, Ill.

B.A. '47, M.A. '53, De Paul University. Major: Education. Minor: Educational Psychology. Thesis: Assessment of Academic Aptitude, Personality Characteristics, and Religious Orientation of Catholic Sister-Teacher-Trainees. Major Adviser: Prof. R. E. Eckert.

Alan Edgar Hedin, St. Paul

B.S. with high distinction '58, M.S. '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Determination of the Neutral Composition, Density, and Temperature of the Upper Atmosphere From 120 to 200 Kilometers with Rocket-Borne Mass Spectrometers. Major Adviser: Prof. A. O. C. Nier.

Dolph Hess, Minneapolis

B.S.S.S. '50, City College of New York; M.S. W. '55, University of North Carolina. Major: Social Work. Minor: Sociology. Thesis: Prediction of Success in Casework Practice From Performance in the Graduate Program. Major Adviser: Prof. L. Scott.

Stanley James Hille, Spicer

B.B.A. with distinction '59, M.B.A. '62, University of Minnesota. Major: Business Administration. Minor: Geography. Thesis: Marketing Research in U.S. Class I Railroads With Special Emphasis on Western Transcontinental Railroads. Major Adviser: Prof. N. Glaskowsky.

Marilyn Marie Hinson, River Falls, Wis.

B.S. in Sec. Ed. with honors '54, Western New Mexico University; M.S. in P.Ed. '55, Indiana University. Major: Education. Minor: Educational Psychology. Thesis: An Electromyographic Study of the Push-up for Women. Major Adviser: Prof. M. Wilson.

David John Hofmann, Albany

B.Phys. with distinction '61, M.S. '63, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Measurement of the Spectrums of Low Energy Primary Cosmic Ray Hydrogen and Helium Nuclei at Solar Minimum. Major Adviser: Prof. J. R. Winckler.

Gerhard Joseph Joseph, Frankfurt, Germany

B.A. with high honors '53, M.A. '55, University of Connecticut. Major: English. Minor: History. Thesis: Tennysonian Love: A Strange Diagonal. Major Adviser: Prof. G. R. Stange.

Olgerts Longins Karklins, Silver Spring, Md.

B.S. '57, Columbia University; M.S. '61, University of Minnesota. Major: Geology. Minors: Biology and Geophysics. Thesis: Cryptostome Bryozoa From Middle Ordovician Decorah Shale of Minnesota. Major Adviser: Prof. F. M. Swain.

Matti Enn Kaups, St. Paul

B.A. '59, University of California (Los Angeles); M.S. '60, University of Wisconsin. Major: Geography. Minor: Anthropology. Thesis: "Suuri Laansi"—or the Finnish Discovery of America. Major Adviser: Prof. E. C. Mather.

Michael William Keran, Minneapolis

B.B.A. '55, M.A. '58, University of Minnesota. Major: Economics. Minor: History. Thesis: Monetary Policy and the Business Cycle in Post-War Japan. Major Adviser: Prof. J. H. Kareken.

George Eugene Kleeman III, Oakland, Calif.

B.S.Ch.E. '62, Gonzaga University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Critical Heat Flux in Two Phase Flow. Major Adviser: Prof. H. S. Isbin.

Yoon Tai Kuark, Seoul, Korea

B.B.A. '59, M.A. '60, University of Minnesota. Major: Economics. Minors: Political Science and Statistics. Thesis: A Comparative Study of Economic Development in North and South Korea During the Post-Korean War Period. Major Advisers: Profs. M. S. Bronfenbrenner and Edward Coen.

Anant Sadashiv Kulkarni, Nipani, India

G.F.A.M. '58, Podar College. Major: Pharmacology. Minor: Physiology. Thesis: Effect of Reserpine on Brain Catecholamines in the Infant and Adult Rat: Its Relationship to Operant Behavior. Major Adviser: Dr. F. Shideman.

Harold John Kurtz, Rosemount

B.S. '54, South Dakota State College; D.V.M. '58, University of Minnesota. Major: Veterinary Pathology. Minor: Microbiology. Thesis: A Study of Factors Influencing Aortic Dissecting Aneurysms. Major Adviser: Prof. J. H. Sautter.

Anton Edward LaBonte, Minneapolis

B.S. with high distinction '57, M.S.E.E. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Theory of Bloch-Type Domain Walls in Ferromagnetic Thin Films. Major Adviser: Prof. W. F. Brown.

Adeeb Bassili Makar, Alexandria, Egypt, United Arab Republic

B.Pharm. '58, Alexandria University. Major: Pharmacology. Minor: Biochemistry. Thesis: Methanol Metabolism in the Monkey. Major Adviser: Dr. G. Mantering.

Abdel-Moneim Mohamed Makky, Cairo, Egypt, United Arab Republic

B.Sc. '52, M.Sc. '57, University of Cairo (Egypt); M.S. '61, University of Minnesota. Major: Entomology. Minor: Organic Chemistry. Thesis: Radioactive Nicotine Biosynthesis, Toxicity, and Metabolism. Major Adviser: Prof. E. Leete.

Jitendar Singh Mann, Verka, Punjab, India

B.A. '54, M.A. '56, Panjab University (India); M.S. '63, University of Minnesota. Major: Agricultural Economics. Minor: Statistics. Thesis: The Contribution of United States Public Law 480 to Indian Economic Development. Major Adviser: Prof. W. C. Cochrane.

Murli Manohar, Jodhpur, India

B.V.Sc. and A.H. '59, University of Rajasthan (India); M.S. '64, M.P.H. '65, University of Minnesota. Major: Veterinary Bacteriology. Minor: Pathology. Thesis: Characterization of Purified Staphylococcal Alpha Toxin. Major Advisers: Profs. B. S. Pomeroy and R. K. Lindorfer.

Edwin Mark Masters, Swamp Scott, Mass.

B.A. *cum laude* '52, Harvard University; M.A. '54, Indiana University. Major: Anatomy. Minor: Microbiology. Thesis: Reactions of the Brain to Autogenous Lymphoid Grafts. Major Adviser: Dr. R. A. Good.

Quince Donavon McClard, La Mesa, Calif.

B.A. '49, M.A. '61, San Diego State College. Major: Educational Psychology. Minor: Education. Thesis: The Effects of Social Reinforcement on Deaf Children's Performance in Auto-instructional Learning. Major Adviser: Prof. B. Karlsen.

George Stephen Monk, Seattle, Wash.

B.A. '59, Harvard University. Major: Mathematics. Minor: Statistics. Thesis: The Representation of Primary Lattices. Major Adviser: Prof. B. Jonsson.

Charles Louis Murphy, Pittsburgh, Pa.

B.S. '62, Michigan State University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Thermodynamics of Low Tension and Highly Curved Interfaces. Major Adviser: Prof. L. E. Scriven.

Sister John Brendan Murrill, Kansas City, Mo.

B.S. *magna cum laude* '50, Fontbonne College. Major: Organic Chemistry. Minor: Biochemistry. Thesis: The Biosynthesis of Morphine and Chelidonium. Major Adviser: Prof. Edward Leete.

Donald Frederick Nelson, Minneapolis

B.A. *magna cum laude* '53, M.A. '63, University of Minnesota. Major: German. Minor: Linguistics and Comparative Philology and Philosophy. Thesis: Stylistic Unity and Change in Thomas Mann's "Felix Krull"; a Study of Style as the Reflection of Perception and Attitude." Major Adviser: Prof. H. Ramras.

Chee Ping Ng, North Bay, Ontario, Canada

B.Sc. '59, University of Ottawa; M.Sc. '61, University of Toronto. Major: Microbiology. Minor: Biochemistry. Thesis: Comparative Studies on Streptolysin O and Streptococcal Pyrogenic Toxin. Major Adviser: Dr. D. W. Watson.

Paul Vanard Peterson, Omaha, Neb.

B.A. '48, University of Colorado; M.A. '54, University of Minnesota. Major: Journalism. Minor: History. Thesis: The *Omaha Daily World* and *World-Herald* 1885-1964. Major Adviser: Prof. E. Emery.

Ayyanna Ramineni, Ashland, Wis.

B.Sc. '50, Andhra Christian College; M.Sc. '53, Banaras Hindu University (India); M.A. '57, University of Minnesota. Major: Economics. Minor: Statistics. Thesis: A Comparative Analysis of the Kaldor Indian Tax Reforms and the Shoup Mission Japanese Tax Reforms. Major Adviser: Prof. O. H. Brownlee.

Terence John Reed, Minneapolis

B.A. '57, M.A. '59, Rice University. Major: Mathematics. Minor: Physics. Thesis: On the Boundary Correspondence of Quasiconformal Mappings. Major Adviser: Prof. E. Reich.

Robert Michael Ryley, New York, N.Y.

B.A. '52, Colby College; M.A. '58, University of Massachusetts. Major: English. Minor: Art. Thesis: William Warburton as Critic and Editor of Pope. Major Adviser: Prof. S. H. Monk.

Gordon Joel Schochet, Baltimore, Md.

B.A. '58, M.A. '61, Johns Hopkins University. Major: Political Science. Minor: History. Thesis: The Patriarchal Content of Stuart Political Thought: The Relation Between the Family and Political Obligation in Seventeenth Century England. Major Adviser: Prof. B. E. Lippincott.

John Hamilton Sellstedt, St. James

B.Ch. with distinction '62, University of Minnesota. Major: Organic Chemistry. Minor: Biochemistry. Thesis: Phenanthridinones From Pyrolysis of Maleyltrindoles: A Novel Intramolecular Diels-Alder Reaction. Major Adviser: Prof. W. Noland.

Margaret Catherine Silberberg, St. Paul

B.S. '51, College of St. Scholastica; M.A. '59, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: The Effect of Formal Reading Readiness Training in Kindergarten on Development of Readiness Skills and Growth in Reading. Major Adviser: Prof. G. L. Bond.

Rama Kant Srivastava, Allahabad, India

B.Sc.Agr.E. '53, University of Allahabad (India); M.S. '61, University of Massachusetts. Major: Agricultural Engineering. Minor: Mathematics. Thesis: The Influence of the Physical Properties of the Alfalfa Hay Bale on Its Internal Air Flow Characteristics. Major Adviser: Prof. Andrew Hustrulid.

William Francis Stoll, Lamoni, Iowa

B.S. '55, M.S. '57, Iowa State University. Major: Dairy Industries. Minor: Biochemistry. Thesis: Syneresis of Rennet-Formed Milk Gels. Major Adviser: Prof. H. A. Morris.

Charles Albert Stolte, New Brighton

B.S. with distinction '55, M.S.E.E. '58, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Photoelectric and Thermionic Properties of BaO. Major Adviser: Prof. D. E. Anderson.

Kenneth Eric Torrance, Minneapolis

B.S. with high distinction '61, M.S.M.E. '64, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Off-Specular Peaks and Angular Distribution of Reflected Thermal Radiation. Major Adviser: Prof. E. M. Sparrow.

Theodore John Vander Noot, Bronx, N.Y.

B.A. '52, Duke University; M.A. '54, University of Minnesota. Major: Economics. Thesis: The Simulation and Extrapolation of Population Change: A Case Study, the Population of the Upper Midwest. Major Adviser: Prof. R. G. Francis.

Michael Anthony Zoglio, Parsippany, N.J.

B.S. '58, University of Rhode Island. Major: Pharmaceutical Chemistry. Minor: Physical Chemistry. Thesis: Certain Esters of 1,2,3-Methyl-2-Hydroxy-quinolizidines as Potential Local Anesthetic Agents. Major Adviser: Prof. T. O. Soine.

Doctor of Philosophy in Radiology

Sadek Kamil Hilal, Fort Lee, N.J.

M.B.B.,Ch. '54, Cairo University (Egypt). Major: Radiology. Minor: Pathology. Thesis: Determination of the Blood Flow by a Radiographic Technique. Major Adviser: Dr. H. O. Peterson.

Doctor of Philosophy in Surgery

Ahmad Aref Nakib, Beirut, Lebanon

B.A. '43, M.D. '48, American University of Beirut (Lebanon). Major: Surgery. Minor: Pathology. Thesis: Critical Assessment of Different Priming Solutions for Oxygenators by Renal Blood Flow Study and Metabolism: "Under Complete Cardiopulmonary." Major Adviser: Dr. C. W. Lillehei.

Academic Costume

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

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

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

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

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

(In the order of march)

General College.....	crimson and white
College of Liberal Arts	white
University College	old gold and white

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

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

President's Reception _____

MARCH 1966

- 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. Wilson, Dean and Mrs. Morse, and Mr. Robert Weinhagen, President, Coffman Union Board of Governors.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, Gamma Sigma Sigma—Social Service Sorority, the Union Board of Governors, the Naval ROTC, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

June Commencement, 1966

SATURDAY EVENING, JUNE 11, 7:30 P.M.

MEMORIAL STADIUM

The Board of Regents

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

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhurst, Olivia

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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 fifteenth 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 186,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 42,000 students annually on its Minneapolis-St. Paul, Duluth, Morris, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

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

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Build-

ing to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

As it meets the needs of present students, the University must also make plans for those of the future. The 42,178 students who enrolled at the University at the beginning of the 1965-1966 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. In the fall of 1965, for the first time in its history, the University instituted an admissions policy based on controlled growth of total enrollment. This change in admissions requirements held the 1965-1966 enrollment to about 42,000 students. It reflects the University's need for more teachers, more land, and more buildings. And it makes plain the University's determination to maintain the educational quality that has made it one of America's leading educational institutions.

THE 1965 LEGISLATURE granted the University \$81,300,000 for general operations and maintenance during the 1965-1967 biennium. In addition, the University received \$9,083,223 for University Hospitals; \$6,833,887 for special appropriations, including special extension and research activities; \$15,820,656 for new buildings, land, and the rehabilitation of existing buildings; and \$1,240,000 for the University of Minnesota, Morris.

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

The summary financial statement of 1964-1965 showed that the University's current income and expenditures amounted to \$128,980,874.07. Of the total received, \$12,727,274.12 came from student tuition and fees; \$17,855,486.75 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; \$1,496,963.54 from intercollegiate athletics; \$19,470,448.11 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 \$8,260,416.03 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$26,190,690.49 came from the federal government for instruction, research, and agricultural extension. The state provided \$42,979,595.03 or 31.4 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$11,003,913.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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 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 Mrs. James Whipkey, Graduate Student, 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 Associate Professor Frank P. A. Bencriscutto, A.Mus.D., Bandmaster, will play:

<i>Fairest of the Fair</i>	- - - - -	John Philip Sousa
<i>Sound of Music</i>	- - - - -	Richard Rodgers
<i>Theme from Prince Igor</i>	- - - - -	Alexander Borodin
<i>American Salute</i>	- - - - -	arr. Morton Gould

PLACEMENT OF FLAGS: During the Prelude Concert, students carrying the flags of eighty-two countries will enter the Stadium through the processional entrance. The International Student Council has arranged for foreign students to carry the flags of their respective nations. These flags, which will be placed on either side of the platform, 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 which will be placed this evening represent the following countries:

Afghanistan	Belgium	Cameroon
Argentina	Bolivia	Canada
Australia	Brazil	Central African Republic
Austria	Burma	Ceylon

* In the event of heavy rain, Commencement Exercises will be held in Northrop Auditorium. However, only the members of the graduating class will be in the Auditorium. Relatives and friends of graduates are invited to listen to the broadcast of the ceremonies anywhere in Coffman Memorial Union or in any of the following Auditoriums: the Museum of Natural History, the Mayo Memorial, Murphy Hall, Scott Hall, and Nicholson Hall. In addition, the ceremonies will be broadcast over KUOM beginning at 7:30 p.m. and may be listened to from any radio that is available.

Chile	Jamaica	Portugal
Colombia	Japan	Republic of China
Costa Rica	Jordan	Republic of the Congo
Cyprus	Kenya	Saudi Arabia
Denmark	Korea	Singapore
Dominican Republic	Kuwait	South Africa
Ecuador	Lebanon	Spain
Ethiopia	Liberia	Sudan
Finland	Libya	Sweden
France	Malaysia	Switzerland
Germany	Mexico	Tanzania
Ghana	Morocco	Thailand
Greece	Nepal	Trinidad and Tobago
Haiti	Netherlands	Turkey
Honduras	New Zealand	Uganda
Hungary	Nicaragua	United Arab Republic
Iceland	Nigeria	United Kingdom
India	Norway	Union of Soviet Socialist Republics
Indonesia	Pakistan	Upper Volta
Iran	Panama	Venezuela
Iraq	Paraguay	Yugoslavia
Ireland	Peru	Zambia
Israel	Philippines	
Italy	Poland	

PROCESSION: At 7:30 p.m. the Mace Bearer, Professor G. Gordon Kingsley, Ed.D., General College, will climb the stairs of the platform, thus heralding the beginning of the academic procession. The procession includes candidates for degrees, marching by colleges, the faculty, distinguished guests, and the Regents. The line of march for degree candidates is as follows: Department of Military Science; Department of Naval Science; Department of Aerospace Studies; General Extension Division; General College; College of Liberal Arts; University College; Institute of Technology; College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; College of Education; School of Business Administration; College of Pharmacy; Law School; College of Veterinary Medicine; School of Dentistry; College of Medical Sciences; and the Graduate School. Faculty Marshals are Professor Kingsley; Professor Robert L. Jones, Ph.D., College of Liberal Arts; Professor Truman R. Nodland, Ph.D., Institute of Agriculture; Professor Raymond G. Price, Ed.D., College of Education. During the procession the Bands will play:

March and Procession of Bacchus - - - - - Leo Delibes

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

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 Douglas S. Pitts, B.A., Chaplain to Episcopal Students and Staff Members on the St. Paul Campus.

SPEAKING FOR THE UNIVERSITY OF MINNESOTA: President O. Meredith Wilson, Ph.D.

CONFERRING OF ROTC CERTIFICATES: Vice President William G. Shepherd, Ph.D., Academic Administration, will introduce Colonel William D. Beard, USA, Professor of Military Science; Captain James M. Marshall, USN, Professor of Naval Science; Captain John J. Denice, USAF, Assistant Professor of Aerospace Studies, who will present to President Wilson the candidates for commissions in their respective branches of the Armed Services. The certificates of ROTC completion will be authorized by President Wilson.

CONFERRING OF DEGREES: Vice President Shepherd will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction, Dean Willard L. Thompson, Ph.D., General Extension Division; Acting Dean Alfred L. Vaughan, Ph.D., General College; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Professor Maynard E. Pitsig, LL.B., University College; Dean Athelstan Spilhaus, D.Sc., 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; Acting Dean Francis M. Boddy, Ph.D., Graduate School.

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

PRESENTATION OF DIPLOMAS: With Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development, 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 Professor Robert C. Slater, B.S., General Extension Division; Associate Professor Frank T. Benson, Ph.D., General College; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; Associate Professor J. Merle Harris, M.A., University College; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Associate Professor John A. Goodding, Ph.D., Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., College of Education; Associate Dean George Seltzer, Ph.D., School of Business Administration; Associate Dean Charles V. Netz, 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; Professor Harold C. Wittich, D.D.S., School of Dentistry; Associate Dean H. Mead Cavert, M.D., College of Medical Sciences; Associate Dean Warren E. Ibele, Ph.D., Graduate School.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: President Wilson 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 Acting Dean Boddy.

CONFERRING OF HONORARY DEGREES: Dean Ziebarth will present the Most Reverend James P. Shannon, Auxiliary Bishop of St. Paul, and a University Graduate, to President Wilson for the University's honorary degree, Doctor of Humane Letters.

JAMES PATRICK SHANNON

BORN and reared in the State of Minnesota, where he has achieved distinction as a clergyman and as an educator; Bachelor of Arts, *summa cum laude*, in classical languages and history, of the College of St. Thomas; Master of Arts, in English, of the University of Minnesota; Doctor of Philosophy, in American Studies, of Yale University, where he won the George Washington Eggleston Prize for the best dissertation in American history; ordained a priest of the Catholic Church in 1946, then created a domestic prelate with the title of Right Reverend Monsignor in 1959, and finally consecrated a bishop in 1965, and serving now as an Auxiliary Bishop of the Archdiocese of St. Paul; appointed as the youthful and dynamic President of the College of St. Thomas in 1956, and now just resigned to become pastor of Saint Helena's parish, Minneapolis; a brilliant historian who is highly regarded by his fellow scholars; deeply and effectively committed to raising the standard of undergraduate education both in his

own college and throughout the country; a guardian of academic institutions and of their dedication to freedom; an active participant in the present-day struggles for human welfare and social progress and a courageous leader in the movement for civil and human rights for all men—

BECAUSE you have been an eminent leader of private education in Minnesota and in the country at large, and yet always maintained a relationship of friendship, of cooperation, and of mutual respect with public education; because you have dedicated yourself to the advancement of knowledge, both as a gifted scholar and as an imaginative administrator; because your devotion to the rights and the dignity of all men has been expressed in moving and effective ways; and because you have made, and continue to make, a distinguished record in the fields of scholarship, academic administration, public service, and religion, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, James Patrick Shannon, the degree of Doctor of Humane Letters, *honoris causa*.

Dean Spilhaus will present Mr. Frederick Russell Kappel, Chairman of the Board of American Telephone and Telegraph Company, and a University Graduate, to President Wilson for the University's honorary degree, Doctor of Engineering.

FREDERICK RUSSELL KAPPEL

BORN and educated in Minnesota; Bachelor of Science in Electrical Engineering of the University of Minnesota in 1924; a self-made man who earned his education by holding various jobs; the ninth President, and now the Chairman of the Board, of the American Telephone and Telegraph Company, the world's largest corporation; an outstanding administrator who has led in the tremendous expansion of his company, and in its development of technological innovations of great importance to the social and economic life of the Nation, and to its preparedness for defense; a concerned and responsible citizen who has served as Chairman of the Business Council of the United States; a forthright advocate of cooperation between industry and government to meet the needs of a democracy in the kind of world in which we find ourselves; adviser and policy maker for educational institutions and for charitable and professional organizations existing for the common good; a manager of change "with forethought and care" that inspires us all with "the spirit of service"—

BECAUSE you have played an important role in the communication services that are shrinking the world and developing a new and hopeful era in human relationships; because you have seen the potential for creative and responsible collaboration between industry and government; because your conviction is unwavering that free enterprise can and must serve both private and public ends; and because you have consistently demonstrated your faith in the power of higher education and in the need for a close relationship between business and education, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Frederick Russell Kappel, the degree of Doctor of Engineering, *honoris causa*.

Dean Lockhart will present the Honorable Hubert Horatio Humphrey, Vice President of the United States, and a University Graduate, to President Wilson for the University's honorary degree, Doctor of Laws.

HUBERT HORATIO HUMPHREY

BORN in the neighboring State of South Dakota; Bachelor of Arts, magna cum laude, in political science, of the University of Minnesota; ever moving to higher goals, even during the difficult years of the Great Depression; still proud of an early career as a pharmacist while striving for higher education; Master of Arts degree of Louisiana State University; a teacher of political science at Macalester College and at the University of Minnesota; a youthful Mayor of Minneapolis who relentlessly pursued civic reform and an end to discrimination; a unyielding advocate of equal opportunity for all Americans; a notable leader of our country in the critical field of foreign policy, seeking peace, understanding, and well-being for the peoples of the world; a distinguished Senator from Minnesota; and now the thirty-eighth Vice President of the United States, thus holding the highest elective office ever attained by a graduate of this University or a resident of this State—

BECAUSE you have lifted a forceful and eloquent voice in the cause of justice and of peace; because, as Vice President of the United States of America, you have given the same dedicated leadership to the entire world, as in the Viet Nam crisis, that you gave, as a United States Senator, to our State and Nation; because you have been devoted to the University of Minnesota and have unceasingly valued and championed education; because your brilliant achievements have brought distinction to this University, this State, and this Nation, the Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, Hubert Horatio Humphrey, the degree of Doctor of Laws, *honoris causa*.

PRESENTATION OF REGENTS' PROFESSORSHIPS: At today's Commencement Exercises, the University of Minnesota, for the first time, will bestow its highest faculty recognition, the new title of Regents' Professor, upon five University Professors. They were selected for their academic distinction on the basis of the scope and quality of their scholarly or artistic contributions, the quality of their teaching, and their contributions to the public good. They will each receive a certificate of merit and a silver medallion imprinted with the Regents' Seal and the phrase "IN RECOGNITION OF ACADEMIC DISTINCTION." The medallion is attached to a maroon and gold ribbon and can be worn with academic costume.

In addition, the University of Minnesota Foundation will present as a gift the sum of \$5,000.00 to each one of those designated to be Regents' Professors.

These faculty members will retain the title of Regents' Professor as long as they remain at the University of Minnesota. (The names of these new Regents' Professors will be announced at this Commencement when the presentations are made. Single sheets which will be distributed with the Commencement programs will give details.)

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

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

AULD LANG SYNE: The Frances Miller Brown Memorial Bells.

(There will be no Recessional)

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Adjutant General Corps

Ronald A. Lifson, Minneapolis

Gerald M. Taffel, St. Paul

Second Lieutenant, Army Intelligence

Glen K. Beck, Anoka

Second Lieutenant, Artillery

Thomas I. Myers, St. Paul

Paul L. Nightingale, St. Paul

Robert W. Reutiman, Jr., Excelsior

Philip A. Sawyer, Stillwater

Robert J. Tieso, St. Paul

Second Lieutenant, Chemical Corps

Beric Christianson, St. Paul

Second Lieutenant, Corps of Engineers

Bobby H. Cox, Speedway, Ind.

Second Lieutenant, Medical Service Corps

Dennis J. Bible, Pine City

Robert K. Shoffner, St. Paul

Second Lieutenant, Ordnance Corps

Paul T. Edstrom, White Bear Lake

Frank C. Lunquist, Minneapolis

Second Lieutenant, Quartermaster Corps

Darrell E. Thurnbeck, Forest Lake

Second Lieutenant, Transportation Corps

Gerald S. Duffy, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

James E. Ellison, Waubun
William N. Fadden, St. Paul
Michael F. Jordan, Virginia Beach,
Va.
Stephen C. Merriman, Minneapolis

Gregory M. Michelson, South St.
Paul
Douglas J. Tersteeg, Olivia
Douglas G. Widener, Jamestown,
N.D.

Ensign, USNR

Raymond J. Hoberg, Wolf Point,
Mont.

Martin J. Keller, Minneapolis
Walton G. Warner, Minneapolis

Ensign, SC, USN

Kurt W. Libby, Minneapolis

LaVern K. Senn, La Crosse, Wis.

Ensign, SC, USNR

James T. Nystrom, Minneapolis
Lowell C. Peterson, Lindstrom

Thomas R. Stuart, Minneapolis

Second Lieutenant, USMC

Leroy V. Anderson, Minneapolis

Erich E. Gabrys, Dearborn Heights,
Mich.

Second Lieutenant, USMCR

Robert L. Frantz, Minneapolis

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Robert C. Amundson, Minneapolis
Robert A. Asproth, Cloquet
Charles J. Glatzmaier, Columbia
Heights
Albert J. Kranz, Minneapolis
George S. Loftus, Minneapolis

William F. Menold, Jr., St. Paul
Michael A. Miller, St. Paul
James E. Puffer, White Bear Lake
Roger A. Swanson, Hallock
Richard S. Van Eps, Minneapolis
Wynne P. Williams, Minneapolis

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Administration Certificate

Ronald I. Morley, St. Paul
Cedric Lyle Scofield, Minneapolis

Walter Leo Stein, Duluth

Electrical Engineering Technician Certificate

Elmer Everett Koehler, Minnetonka

Engineering Science Certificate

Marvin David Jones, Minneapolis

Fellow in Management of Administrative Services Certificate

Jack Leslie Bernier, South St. Paul

Associate in Mortuary Science

William Michael Argo, Cleves, Ohio
Franke Joseph Bastyr, Jordan
Steven Thomas Baumgarten, Hartley,
Iowa
Douglas Henry Brown, Dunn Center,
N.D.
Daniel Kent Danielson, Ellsworth,
Iowa
Warren Bruce Donaldson III, Tifton,
Ga.
Jerry George Edman, Cloquet
Roald Einar Eidsness, Jr., Sioux Falls,
S.D.
Ronald Julius Fenske, Arlington
Michael Jay Freese, St. Joseph, Ill.

Charles Thomas Gass, B.A., Omaha,
Neb.
Charles Alfred Godbout, St. Paul
Roben Lee Guerry, Minneapolis
Gregory Stephen Gust, Bloomington
Charles Lee Gustafson, Atlantic, Iowa
Nicholas Eugene Hatten, Stacyville,
Iowa
Paul Michael Hegstrom, Montevideo
Richard Emil Hosking, Tampa, Fla.
Bruce Jerome Hotchkiss, Tracy, Calif.
Peter Michael Jaroscak, Minneapolis
Brian David Junker, Stillwater
Thomas Earl Karlovetz, Fremont,
Ohio

David Arthur Kuehnert, Pana, Ill.
 Terry Lynn Labatte, Lake Park
 Kenneth Karl Lederer, Weyauwega,
 Wis.
 David Alan Lee, Minneapolis
 Kenneth Dale Leighow, Webster,
 Wis.
 Thomas Richard Mengis, St. Paul
 Robert Wilson Merritt, Medota, Ill.
 Bernard Dwight Mizell, Fort Lauderdale,
 Fla.
 Francis Anthony Modelski, Chicago,
 Ill.
 Dennis Richard Munderloh, Thurston,
 Neb.
 James Claude Murphy, Jr., Scottsdale,
 Pa.

Douglas Allen Nelson, Brooten
 Bruce William Olson, Rockford, Ill.
 John Stephen Pruzin, Gary, Ind.
 Edward Conrad Rainville, A.A., Minneapolis
 Lawrence Charles Reaman, B.A., Sac
 City, Iowa
 Raymond Gerald Reinke, Park Rapids
 Peter James Rieff, Moose Lake
 Warren Burdette Roland, Atlantic,
 Iowa
 Donald Dexter Stattine, Minneapolis
 Michael Jon St. Aubin, Minneapolis
 Donald William Tompkins, Byron
 John Ward Worlein, Austin

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Associate in Arts

Ronald Laurance Ahl, Bloomington
 Jackie Lynn Anderson, Minneapolis
 Stanley Edward Anderson, Anamosa,
 Iowa
 Patricia Lee Axelson, Minneapolis
 Barbara Ann Bacon, Allendale, N.J.
 Cynthia Ann Benton, St. Paul
 Heidi Karyn Bergman, Minneapolis
 Joyce Carol Bergren, Minneapolis
 James Arthur Bergstrom, Minneapolis
 Timothy Joseph Berntson, St. Paul
 Rudolph Joel Blakeman, Hudson,
 Wis.
 Wayne Daniel Boike, Minneapolis
 Roger Allen Bowman, Richfield
 Judy Lee Brettingen, Brook Park
 Dianne Lynn Brodsky, St. Paul
 Teri Jo Brown, Minneapolis
 William Jean Bruneau, Minneapolis
 Jon Stephen Burud, Minneapolis
 Jean Marie Caldwell, St. Paul
 Gerald Lee Canfield, Minneapolis
 Willard Dwight Capistrant, St. Paul
 Donald Joseph Carolla, Coon Rapids
 Thomas Duane Case, Minneapolis
 Nancy Jean Celt, Minneapolis
 Gary Robert Chestek, Minneapolis
 Gary Ray Clark, St. Paul

Susan Cecile Clemensen, Minneapolis
 Carol Jean Colby, Minneapolis
 Arthur Cecil Cragg, St. Paul
 George Emerson Crawford, Minneapolis
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 Thomas Alan Crew, Minneapolis
 Helen Lynne Crocker, St. Louis Park
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 Charles Arthur Debee, New Brighton
 James Peter Diehl, Minneapolis
 Alexander Theodore Dyka, St. Paul
 Judith Marie Eason, Minneapolis
 Judith Meryl Eaton, St. Paul
 Michael Alston Edmunds, Minneapolis
 Ronald Owen Eikens, St. Paul
 Richard Earl Eliason, Edina
 William Richard Elke, Minneapolis
 Roger Lee Elmquist, Chisago City
 Richard Allen Engstrom, Minneapolis
 Clayton Roy Erdal, Minneapolis
 Galen Bruce Erickson, Minneapolis
 Jerald Bruce Erickson, Columbia
 Heights
 Neil Allan Erickson, Minneapolis
 Danice Jean Farrell, Minneapolis

Michael Noel Felix, Shakopee
 Cheryl Suzanne Fisher, Minneapolis
 William George Fitzgerald, Minneapolis
 Susan Mae Flannery, Norwood
 James William Froehlig, Minneapolis
 Norman Clayton Gage, St. Paul
 Jeanne Carol Gallop, Duluth
 Boyd Grayson Garner, St. Paul
 James Donald Garrison, St. Paul
 John Linn Gawronski, Columbia Heights
 Daniel Wallace Gendreau, Edina
 Karolyn Louise Engen Gilbertson, Minneapolis
 Jana Sue Goodman, Minneapolis
 Robert Darrell Gosh, St. Louis Park
 Dianne Elizabeth Gray, Wayzata
 Lynne Marie Gray, Robbinsdale
 Virginia Louise Groseth, Minneapolis
 Lowell Burton Grossman, Minneapolis
 Jana Lynn Gustafson, Minneapolis
 Renee Arvida Gustafson, Forest Lake
 John Cameron Hambrick, Jr., White Bear Lake
 Dennis William Hansen, Roseville
 Brian John Hanson, Minneapolis
 James Everett Hanson, Minneapolis
 Daniel Warren Hartman, Minneapolis
 John Matthew Hawk, Minneapolis
 Adell Muriel Hollman, Fridley
 William Edward Hotzfield, Edina
 Jackie Ray Houge, St. Paul
 Barbara Jean Hughes, Minneapolis
 James A. Imsdahl, St. Paul
 Lawrence Kenneth Jackson, St. Paul
 Pamela Elaine Jackson, St. Paul
 Thomas James Jennings, St. Paul
 Kathleen Marie Jennrich, Minneapolis
 Richard Prahm Jensen, Benson
 Harry Ronald Johnson, Minneapolis
 Paula Suzanne Johnson, Minneapolis
 Nicholas Francis Kalinoski, Minneapolis
 JoAnne Florence Keller, St. Paul
 Vernon Robert Kelley, Rosemount
 Linda Marie Kindhart, Minneapolis
 Margaret Mary Kippels, Moorhead
 Karl Scott Klabunde, Savage
 Thomas James Klees, St. Paul
 Penny Joyce Kleyman, St. Paul
 Mark John Klinge, St. Paul
 Georgia Ann Kloster, Golden Valley
 Melvyn Knowlton, St. Paul
 Sharon Joy Kohler, Minneapolis
 George Albert Koolmo, Richfield
 Michael Raymond Kramer, St. Paul
 George Edward Kroeck, Wayzata
 Florence Karoline Lapinski, Minneapolis
 Aaron David Larson, Minneapolis
 Stephen John Larson, Minneapolis
 Rochelle Harriet Lebewitz, St. Louis Park
 Gary Gene LeDoux, Minneapolis
 Robert Wayne Lindgren, Crystal
 Thomas Dean Lofboom, Harris
 Louis Carl Longhenry, Hopkins
 Sharon Lee Lortis, Richfield
 Manon Ann Ludescher, Minneapolis
 Elizabeth Louise Ludka, White Bear Lake
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 Bernard Howard Luken, West St. Paul
 Michael David Lysing, St. Louis Park
 Steven Joseph Majeski, St. Paul
 Stuart Henry Markham, Bloomington
 Thomas Frank Marynak, Minneapolis
 Donna Jane Maria Matson, Duluth
 Nancy Jane Mayerson, Milwaukee, Wis.
 Mary Ann McAloney, Minneapolis
 William Terrance McDonald, Mound
 John Joseph McGovern, Minneapolis
 Thomas F. Miles, Minneapolis
 Herbert Bernette Miller III, Hopkins
 DeWayne Robert Morrell, Columbia Heights
 Anton George Mueller, Jr., St. Paul
 Darlene Helen Munic, Duluth
 Lawrence James Nevin, St. Paul
 Robert Henry Nichols, Minneapolis
 Bengt Eric Nilsson, Minneapolis
 Wayne L. Nispel, St. Louis Park
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 Douglas Arlo Oyen, Appleton
 Thomas Dale Paukert, St. Paul
 Richard Stanley Pavlock, Minneapolis
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Cynthia Jean Pelton, Minneapolis
 Gary Steven Pelton, White Bear Lake
 Andrew James Peterson, Minneapolis
 Grant Donald Peterson, Bloomington
 Roger Randolph Peterson, St. Louis
 Park
 Lucille Ann Petrasek, St. Paul
 Reginald George Pitts, St. Paul
 Duane Lawrence Pocta, Pine City
 Janice Margaret Poetsch, Minneapolis
 Judith Ann Pogue, St. Paul
 Joseph Michael Prenovost, Minne-
 apolis
 William John Reid, Minneapolis
 Jeanne Frances Richter, Minneapolis
 John Michael Rick, St. Louis Park
 Bruce Maynard Ritchie, St. Louis Park
 Patricia Anne Rodman, St. Paul
 Donna Joyce Rognlie, Minneapolis
 John Dale Rolstad, Bloomington
 James Kenneth Rorwick, Minneapolis
 Terry W. Satek, Minneapolis
 Thomas Raymond Sawyer, Minne-
 apolis
 Alan Richard Schachtele, Minneapolis
 Rebecca Ruth Schempp, Crystal
 Donald William Schlueter, St. Paul
 Roy Wesley Schmidt, Bloomington
 Charlotte Louise Schulties, Minne-
 apolis
 Dennis Duane Selander, Minneapolis
 Myrna Marcella Simon, St. Paul
 Sharyn Norene Singer, Duluth
 Peter Christian Skou, Minneapolis
 Wayne Alan Smith, Minneapolis
 Lee Verne Snetting, Minneapolis
 Margaret Ann Sonntag, White Bear
 Lake
 Richard Joseph Stadler, St. Paul
 Donald James Stafford, Minneapolis

Marilyn Mae Stonestrom, Minneapolis
 Susan Margaret Strandquist, St. Paul
 Lerae Denise Strehlow, St. Louis Park
 Dennis Robert Strom, Richfield
 Walter Wolfgang Bijan Stueck, Excel-
 sior
 Larry Lawrence Sundquist, Minne-
 apolis
 Lynn Harold Swanson, Minneapolis
 Marcia Lee Tenney, St. Paul
 Norma Jean Terwilliger, Minnetonka
 Robert Wallace Thomas, White Bear
 Lake
 Gene Lynn Thompson, Park Rapids
 James Richard Thomson, Mound
 Gary Lynn Thornburg, Minneapolis
 Joyce Elizabeth Thyberg, Minneapolis
 Sharon Tkach, Minneapolis
 Vincent Favian Tookenay, Schreiber,
 Ontario, Canada
 Monte Ruben Torkelson, Excelsior
 Stephen Paul Uppman, Minneapolis
 Roger Kenneth Vincent, Minneapolis
 Leon A. Vogt, St. Paul
 Mark Lowell Vollmers, Red Wing
 Jerome Micheal Waddick, Minne-
 apolis
 Marijo Waldera, St. Paul
 Dale Joseph Walters, Richfield
 Susan Marguerite Way, Minnetonka
 George Daniel Webber, New Brighton
 William Thomas Wengler, St. Paul
 Carol Marie Wetley, Minneapolis
 Joan Mary Whalton, St. Louis Park
 David Jack White, Minneapolis
 Eugene Arthur Wray, Minneapolis
 Caleb Wright, Minneapolis
 Rita Mary Wronski, Minneapolis
 Clarence Young, Kansas City, Kan.
 Mary Jane Zimmer, St. Paul

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Karen Frances Bjorklund, St. Paul
 Barbara Jean Bland, St. Paul
 Robert Gaylord Callaway, Willmar
 Jeanine Karen Carlson, Minneapolis

Jerry Dwayne Christenson, Minne-
 apolis
 David Lee Doffing, St. Paul
 James Langley Dunlap, Minneapolis

Newton Bailey Frost, St. Paul
 Donald Earnest Grambsch, Minneapolis
 Beverly Jean Gilbert Hartwell, Minneapolis
 Lorene Paula Falz Kewley, St. Paul
 Carol Lynn Shacter Meshbesh, Minneapolis
 Susan Irene Palen, Edina
 Elizabeth Harriette Palmer, St. Paul

Donald David Peterson, Ogilvie
 Alden James Purvey, Orono
 Joanne Ardyce Rappaport, Minneapolis
 Curtis Clarence Schmidt, Wayzata
 Virgil John Scutter, St. Cloud
 Bruce John Shourt, Minneapolis
 Jane Elizabeth Stockton, Wayzata
 Mary Margaret Weitz, Minneapolis
 Donald Ariel Wernecke, Minneapolis

Bachelor of Arts

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

Susan Victoria Ackland, Minneapolis
 Patricia Delene Acton, Windom,
 SUMMA CUM LAUDE, *Anthropology*
 John Hamilton Adam, Chicago, Ill.
 Grace Marie Adams, St. Paul
 Stephen Jon Adams, Minneapolis,
 SUMMA CUM LAUDE, *English*
 Ann Margaret Adle, Lafayette, Calif.
 Marlys Corrine Ahlbrecht, Hector
 Morris Charles Ainsworth, Richfield
 Thomas John Albrecht, Minneapolis
 William Herbert Aldridge, St. Paul
 Gary Edward Alinder, Cleveland
 Deanne Ardell Allen, Minneapolis
 Theodore Darrell Allen, Park Rapids
 Phillip Fredric Allivato, Minneapolis
 Dianne Lynn Alstad, Minneapolis,
 SUMMA CUM LAUDE, *French*
 Robert Chilton Amundson, A.L.A.,
 Minneapolis, MAGNA CUM LAUDE,
 German
 John Philip Amunson, Mondovi, Wis.
 Donna G. Lynch Anbuhl, Calumet
 Carol Sue Anderson, Maple Plain
 Carole Elaine Anderson, St. Louis
 Park
 Jerald Bruce Anderson, Crookston
 John Raymond Anderson, Minneapolis
 Kathryn Elsa Anderson, Mahtomedi
 LeRoy Virgil Anderson, Minneapolis
 Nancy Jane Anderson, St. Louis Park
 Roberta Lynn Anderson, Hopkins
 Sharon Grace Anderson, Mabel
 Truman Edgar Anderson, Jr., Wayzata

Susan Frances Angove, St. Louis Park,
 MAGNA CUM LAUDE, *Psychology*
 Judith Catherine Arend, St. Paul
 John R. Arlandson, Minneapolis
 Gary Peter Arndt, A.L.A., Pine Island
 Glen Henry Arnold, Minneapolis
 Ann Fern Arnstein, Skokie, Ill.
 Leslie Anne Lasch Arthur, Minneapolis
 Robert Arnold Asproth, Cloquet
 Ralph Walter Bachman, Jr., Minneapolis,
 SUMMA CUM LAUDE, *Political
 Science*
 Bonnie Louise Badenoch, Bozeman,
 Mont.
 William Charles Bailey, St. Paul
 Ann Yates MacLennan Bailly, Minneapolis
 Walter Marion Baker, Jr., Minneapolis
 John Richard Baldwin, St. Paul
 Robert Louis Balster, St. Louis Park
 Geraldine Balter, Golden Valley
 Emil Gottlob Balz, Circle Pines
 MaryAnn Banas, Minneapolis
 Nicholas Konstantinos Barbatsis, Minneapolis
 John Thomas Barber, Minneapolis
 Colleen Mary Barnett, Minneapolis
 Thomas Chisholm Bartsh, Minneapolis
 William Edward Bastien, Minneapolis
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 Paul Eugene Bauer, A.A., Hill City
 John Peter Baumhofer, St. Paul

Dennis George Bealka, Chaska
 Robert E. Bealka, Chaska
 Dianne Agnes Beaudoin, South St. Paul, CUM LAUDE, English
 Patricia Ann Beaulieu, Willmar
 Charles Henry Beck, Minneapolis
 Judith Claire Beck, St. Paul
 Donna Rae Fredrickson Bedin, Robbinsdale, CUM LAUDE, Sociology
 Maynard Paul Bell, Jr., Farmington
 Patrick Cashman Bennett, Edina
 Gerald Hugh Berg, Minneapolis
 Lois Ellen Swanson Berge, St. Paul
 Dale Steven Bergland, Le Roy
 Janice Mary Bergman, Minneapolis
 John Bergman, St. Paul, CUM LAUDE, without departmental designation
 Kathryn Norma Bernick, Minneapolis
 Judith Marie Berryman, Minneapolis
 Alan Garrett Beske, Minnesota Lake
 Marsha Anne Best, Richfield
 Arnold Joseph Bester, Minneapolis
 Dennis John Bible, Pine City
 Victoria Windsor Biggs, Edina
 Thomas Jeffery Billison, Bloomington
 Douglas Arthur Birk, Pine River
 Berniel Beth Bjorklund, Minneapolis, SUMMA CUM LAUDE, German
 James Warner Bjorkman, Roseau, SUMMA CUM LAUDE, Political Science
 Martha M. Buesing Bjorkquist, St. Paul, MAGNA CUM LAUDE, without departmental designation
 Gary Richard Blackmore, Biwabik
 Roger Nathaniel Blais, St. Louis Park
 Steven Gabriel Blons, St. Paul
 Michael Louis Bochert, Minneapolis
 William Edward Boerke, Richfield
 Caroline Maria Boettcher, Crystal
 James Craig Boone, St. Louis Park
 Jerome Marshall Booth, Minneapolis
 Terry Lee Booth, Osseo
 Martin Everett Boraas, Hallock
 Barbara Jane Boudewyns, St. Paul
 Marilyn Susan Bourgin, Virginia
 Elizabeth Joan Bowie, St. Paul, CUM LAUDE, Zoology
 Patricia Eleanor Boyle, St. Paul
 Louis Gary Brabec, Albert Lea
 Levi Leonard Brady, Minneapolis
 Melanie Diann Brager, Northwood, N.D., SUMMA CUM LAUDE, Psychology
 Bonnie Jean Brandt, Cannon Falls
 Robert Allyn Brandt, Minneapolis
 Judy Marie Gillette Bratt, Minneapolis, CUM LAUDE, Chemistry
 Richard James Bratter, St. Paul
 Linda Louise Brekke, Byron
 Gerald Paul Bridge, Minneapolis
 Susan Elizabeth Briese, Faribault
 Ronald John Bright, St. Paul
 Marilyn Rose Briggs, St. Paul
 Charles Barry Britt, Cincinnati, Ohio
 Richard Hubert Britt, Fergus Falls, SUMMA CUM LAUDE, Interdepartmental
 James Merrill Bromley, Minneapolis
 David Joseph Broude, Minneapolis
 Richard Edward Brown, Minneapolis
 Sandra Florence Brown, Nashwauk
 Edward Lyman Bruce II, Seattle, Wash.
 Ronald Earl Budd, St. Louis Park
 Lenore Yvonne Wohlferd Burgard, Minneapolis, SUMMA CUM LAUDE, Journalism
 Neil Matthias Buschmann, Minneapolis
 Karen Butler, Hector
 Patrick Joseph Buttell, A.A., Richfield
 Joyce Eileen Byan, Glendale, Mo.
 Thomas Stephen Byron, Minneapolis
 Margot Ann Demarais Calarco, Lakeland, SUMMA CUM LAUDE, Classics
 Colleen Laura Campbell, Glen Ellyn, Ill.
 Lloyd Enoch Campbell, Gloucester, Mass.
 M. Donald Campbell, Richfield
 Carlynn Louise Canny, Anoka
 Aldean Clifton Carlson, Minneapolis
 Craig Eldon Carlson, Minneapolis
 Deborah Lynn Carlson, Argyle
 Jerome Michael Casey, St. Paul, MAGNA CUM LAUDE, Mathematics
 Karen Lee Cashman, Minneapolis
 Dale Albert Casper, Minneapolis
 Michael Charles Chamberlain, Minneapolis
 June B. Checklund, Minneapolis

- Kuai Chang Cheng, Taipei, Taiwan, China
- Bonnie Jean Christopherson, Maple Plain
- Sally Karen Christopherson, Elk Mound, Wis.
- Gary Warren Clark, Richfield
- Gary Gayln Cleveland, Minneapolis
- Daniel Robert Coddon, St. Paul
- Ronald Lee Coffin, Arlington, Ind.
- Howard Samuel Cohen, St. Louis Park, SUMMA CUM LAUDE, *Philosophy*
- Ronald Lee Cohen, St. Paul, SUMMA CUM LAUDE, *Sociology*
- William Barry Colby, Rochester, SUMMA CUM LAUDE, *French*
- Catherine Lee Coleman, Minneapolis
- Alan Eden Comer, Excelsior
- Thomas Warner Conklin, Helena, Mont.
- James Lewis Connor, Cedarburg, Wis., SUMMA CUM LAUDE, *Psychology*
- Milton Almen Conrath, St. Paul
- Nole Ross Cook, Minneapolis
- Strathmore Richard Bruce Cooke, A.A., Minneapolis
- Barbara Ellen Cooley, G.D.H., Waukesha, Wis.
- Dennis Michael Coyne, Minneapolis
- Kenneth Bruce Cram, Minneapolis
- James Herbert Crivits, A.A., Minneapolis
- Judy M. Crofoot, Savage
- Nancy Ann Nolte Cudahy, Algona, Iowa
- Raul Antonio Cuestas, David, Republic of Panama
- William Francis Cullen, St. Louis Park
- Margaret E. Hendrickson Cundy, Henderson
- Randolph Goodwin Currier, Honolulu, Hawaii, CUM LAUDE, *Architecture*
- Kay Francine Cutkomp, St. Paul
- Keith Thomas Dahlen, A.L.A., Minneapolis
- James Raymond Dale, St. Paul
- Marsha Louise Dale, Hastings
- Paul Aloysius Danahy, Jr., Minneapolis
- Douglas James Daniels, Fridley
- Wayne Alvar Danielson, Minneapolis
- Marvin Julian Dauer, Austin
- Bradley Darius Davis, Minneapolis
- Anne Lucille Esterline DeMuth, St. Paul
- Philip James Dennis, Minnetonka Beach
- Kathleen Ann Dickey, Minneapolis, MAGNA CUM LAUDE, *Economics*
- Charles Francis Diessner, Minneapolis
- Gerald Peter Digre, St. Paul, MAGNA CUM LAUDE, *Sociology*
- Steven Peter Dingfelder, Minneapolis
- Joseph Thomas Dixon, Jr., Minneapolis
- Sue Harriet Dixon, Excelsior
- Richard Phillip Dolan, Minneapolis
- Joseph Karl Dolejsi, Hopkins
- Thomas Joseph Dooner, Jr., West Chester, Pa.
- Dennis Donley Doorneweerd, Annandale, CUM LAUDE without departmental designation
- David Paul Doreau, Minneapolis, SUMMA CUM LAUDE, *Psychology*
- David Albert Drawbert, Hopkins
- David Karl Dubke, North Mankato
- Charlene Dudovitz, St. Paul, CUM LAUDE, without departmental designation
- Gerald Stafford Duffy, Minneapolis
- David Lester Eastburn, Rochester
- Joseph Thornton Eastman, Minneapolis
- Dana Kay Eckerstrom, St. Louis Park
- Janice Merry Eckhardt, Minneapolis
- Michelle Ann Egan, South St. Paul
- Gerald Ross Egge, Willmar
- Kaye James Ehlen, Minneapolis
- Edith Elaine Elfstrum, Vesta
- James Thomas Elfstrum, Minneapolis
- Edward David Elgethun, Mound
- Thomas Paul Ellerman, Minneapolis
- Richard Clement Elling, Norwood, MAGNA CUM LAUDE, *Political Science*
- Malcolm Albert Ellison, Minneapolis
- David Allan Elrod, Minneapolis

Avis Darlene Elstad, Lanesboro
 James Daniel Elza, Jr., St. Paul
 Arnold Ray Enslin, Frazee
 Constance Yvonne Erickson, Brooklyn
 Park
 James Henry Erickson, St. Paul
 Karen Ann Erickson, Detroit Lakes
 Marilyn Jean Erickson, St. Paul
 Richard Robert Erickson, Minne-
 apolis, *SUMMA CUM LAUDE*, without
 departmental designation; *MAGNA*
CUM LAUDE, *Mathematics*
 Robert Frederick Ericson, St. Paul,
CUM LAUDE, *History*
 Stephen John Esser, Brainerd
 Matthew Eubanks, St. Louis, Mo.
 Barbara Katharine Evans, Aurora
 William James Everett, Rochester
 James Weir Ewing, Thief River Falls
 Patrick Kirwin Fahey, St. Paul
 Leslie Emil Fallstrom, Buhl
 Lynne Catharine Farmer, Portage,
 Wis.
 Cheryl Helene Fedorowski, St. Paul
 Roger Lee Fehlberg, Minneapolis
 Carol Ann Johnson Felegy, Minne-
 apolis
 John Marvin Feneis, A.L.A., Waite
 Park
 Gayle Ann Ferm, Minneapolis
 Lilli Fil, South St. Paul
 Gregory Philip Filas, St. Paul
 Douglas George Finch, Minneapolis
 Patrick Andrew Finney, Lake City
 Margaret Mary Fitzgerald, Edina
 Peter Michael Fitzgerald, Minneapolis
 Mary Catherine Fjeldstad, Minne-
 apolis
 Thomas Raymond Flagg, Minneapolis,
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 Thomas Clifford Fleckten, Fridley
 Karen Ann Flodeen, Minneapolis
 Karen Jean Forslin, Minneapolis
 Barbara Lynn Fortmeier, St. Paul
 Robert Eberhardt Fortmeier, St. Paul,
CUM LAUDE, without departmental
 designation
 Rand Bryan Foster, Minneapolis,
MAGNA CUM LAUDE, *Anthropology*
 David Gene Fox, Stevens Point, Wis.
 Daryl Wallace Franklin, Austin
 Robert Louis Frantz, Minneapolis
 Georgann Janet Frautschi, St. Paul
 Katheryn Warner Jackson Fredericks,
 Arlington Heights, Ill.
 Sharon Jenine Frederiksen, *Internation-
 al Falls*, *MAGNA CUM LAUDE*,
Psychology
 Gregory Kenneth Frick, Robbinsdale
 Walter Wesley Fricke, Jr., St. Paul
 Frederick George Frogner, Harmony
 Norman Michael Gabrick, Minne-
 apolis
 James Arnold Gallagher, Sioux Falls,
 S.D.
 Margaret Alleen Gambill, Rochester
 James Neill Gamble, Hallock
 Margaret Alice Marie Gandrud, Litch-
 field
 Elsie Ann Garner, St. Paul
 Robert Joel Garrison, Edina
 Gerald Burl Gavenda, Minneapolis
 Kenneth Raymond Gehner, Maynard,
CUM LAUDE, *Mathematics*
 Julianne Alice Geiger, Minneapolis
 John Howard Geiser, Bluffton
 Neal Martin Gendler, Albert Lea
 Gerald Edward Gengler, A.A., Plain-
 view
 Cheryl Lynne Hubbard Georgalis,
 Bayport
 Nicholas Georgalis, Cleveland, Ohio
 Richard Lee George, Minneapolis
 Patricia Ann Geraghty, St. Paul
 Norma Jeanne Justice Gile, Minne-
 apolis
 Anne Louise Gillespie, Minneapolis
 David John Girk, Mahtomedi
 Daniel Adam Gislason, New Ulm
 Archie John Givens, Jr., Minneapolis
 Harold Jacob Glicken, Minneapolis
 Ruth Marie Goehle, St. Paul, *CUM*
LAUDE, without departmental desig-
 nation
 Michael George Goergen, Winona
 Richard Erwin Goese, Faribault
 Luella Margaret Goeser, Braham
 Michael Louis Goetz, Ennis, Mont.,
CUM LAUDE, without departmental
 designation
 Rita Ann Golden, Minneapolis

- Carole Ann Goldstein, Minneapolis,
MAGNA CUM LAUDE, without departmental designation
- Michael Ian Good, New Ulm, SUMMA CUM LAUDE, Chemistry; MAGNA CUM LAUDE, Mathematics
- Kathleen Marie Goossens, St. Paul
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- Jeremy Nachman Gottstein, Minneapolis
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- Marshall John Grancy, Minneapolis
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- Sylvia Grater, St. Paul
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- Richard David Greengard, St. Paul
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- Marilyn Lee Griffiths, Hopkins
- Gordon Moore Griller, Minneapolis
- Corinne Vivian Grim, Minneapolis
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- Jon Norris Groth, Minneapolis
- Anita Ladine Gunderson, Spring Valley
- Jerry Allen Gunderson, Edina
- Gunnar Bjorn Gunnarsson, Reykjavik, Iceland
- Linda K. Watland Gustafson, Excelsior
- Gary Charles Gustavson, Olivia
- Irene Ellen Hadley, Minneapolis
- Thomas Wright Hadley, Bagley
- Andrew William Haines III, New Orleans, La.
- Karen Emily Hakel, St. Paul, CUM LAUDE, Sociology
- MaryAnn Hall, Minneapolis
- Thomas Roger Hallin, Hopkins, MAGNA CUM LAUDE, without departmental designation
- Colleen Ann Hallstrom, Fairmont
- Jeffrey Brian Halter, St. Louis Park, MAGNA CUM LAUDE, without departmental designation
- Dale Curtis Halverson, Minneapolis
- Dale Edward Hammerschmidt, Minneapolis, SUMMA CUM LAUDE, Zoology
- Dennis Dean Hammond, Rochester
- Joyce Marie Hamren, Owatonna
- James Hugh Hannigan, Minneapolis
- George Keith Hansen, St. Louis Park
- Keith Elliot Hanson, St. Paul
- Mahlon Floyd Hanson, Center City, CUM LAUDE, Psychology
- Susan Jane Hanson, Cloquet
- Judith Nettie Hardmeyer, Mott, N.D.
- Alan Robert Hargens, Falcon Heights, SUMMA CUM LAUDE, Chemistry
- Babetta Mae Hart, St. Paul
- Nancy Lou Hartman, St. Paul
- James Francis Hartmann, Glen Ellyn, Ill.
- James Charles Harvey, Minneapolis
- Donna Mae Hasleiet, Peterson, MAGNA CUM LAUDE, Journalism
- Jane Hewett Hastings, Minneapolis
- Thomas Wells Hatch, Duluth
- Teresa Ann Haubenhofner, St. Paul
- Kathleen Marie Haugen, Minneapolis
- Clo Mary Hayes, Eden Prairie
- David McConway Hazen, Minneapolis, MAGNA CUM LAUDE, without departmental designation
- Judith Margaret Hedman, St. Paul
- Elizabeth Lenore Heeter, Minneapolis
- Diane Kay Hehner, Forest Lake
- Kris Fox Heinemann, Belmont, Mass.
- Mary Ellen Helfinstine, Bagley
- Lonnie Gene Helgemo, Tracy
- Richard Edwin Henderson, Grand Rapids
- Patricia Ann Henkel, Fridley
- William Floyd Henry, St. Paul
- Patrick Francis Hergott, Le Sueur
- Lee Leon Herold, A.A., Rochester
- John Douglas Heruth, Minneapolis
- Barbara Ann Hill, Minneapolis
- Susan Ensign Hill, Minneapolis, MAGNA CUM LAUDE, French

William Edward Hill, Ft. Salonga,
 N.Y.
 Charles Garth Hines, Kankakee, Ill.
 Barbara Ann Hinz, Willmar
 Bernard Joseph Hnasko, A.A., Minne-
 apolis
 Cheryl Jean Hoaglund, St. Paul
 Raymond John Hoberg, Wolf Point,
 Mont.
 Lloyd Edward Hockel, Hopkins
 Thomas Bond Hoddinott, Minne-
 apolis
 Alicia Ann Guhin Hoeven, Minne-
 apolis, MAGNA CUM LAUDE, English
 David Raymond Hoffman, Hutchin-
 son
 Michael John Hogan, Kerrick
 Marjorie Ann Hoines, Minneapolis,
 MAGNA CUM LAUDE, Biostatistics
 Bonnie LaVonne Hokanson, Warroad
 Karen Jean Hokenson, Minneapolis
 Beverly Carol Holtze, Minnetonka
 Jane Ann Koukal Hook, Chicago, Ill.
 Lawrence Robert Horn, Brooklyn,
 N.Y.
 Diana Town Schlichting Horrigan,
 Minneapolis
 Nancy Norris Hotchkiss, Tracy, Calif.
 Jeffery Arthur Houston, A.A., Austin
 Gary Robert Hovinen, Hopkins, CUM
 LAUDE, Geography
 Mary Eileen Hubbard, Minneapolis
 James Joseph Huble, Minneapolis
 Constance Adrienne Hudler, Cloquet
 Charles Terry Hughes, St. Louis Park
 Gordon Joseph Hughes, Jr., St.
 Charles
 Mary Elisabeth Hughes, St. Paul
 Michael Reed Hughes, Grand Bay,
 Ala.
 Sherry Lynne Hughes, Bloomington
 Michael Edward Hulett, Moorhead
 Katherine Jean Huntington, Brooklyn,
 N.Y.
 Larke Lyman Huntley, Jr., Grand
 Rapids
 John Joseph Hurley, St. Paul
 John Steven Irons, Minneapolis
 Patrick William Irvine, Detroit Lakes
 Michael Clarence Irwin, Glenwood
 Roger Ross Israel, St. Louis Park

Julie Ann Carolyn Jarvinen, Zum-
 brota, MAGNA CUM LAUDE, Zoology
 Mary Elizabeth Jasmin, Edina
 Detrick Louise Jelacie, Brainerd
 Kathryn Rae Johannsen, Pipestone
 Claudia Lynn Johnson, Minneapolis
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 Dorothy Marjorie Johnson, A.A., St.
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Carl Francis Darling, La Crescent,
WITH DISTINCTION
John Thomas Davenport, Fergus Falls
Wayne William Dey, Vergas
James Lowell Freeman, St. Paul
Larry William Gubbe, Bigfork, WITH
DISTINCTION
Gary Loren Hayden, Red Wing
James Douglas Hendley, Mankato
George Henry Hill, Jr., Virginia
Carl John Hoffstedt, Randall
Hugh Lloyd James, St. Paul
J. Thomas Mantel, Minneapolis
Ernest LeRoy Meyer, St. Bonifacius
James Ivan Meyer, South St. Paul

Charles Reinhold Mikkelson, Minne-
apolis
David Lloyd Moore, Minneapolis
Larry Allen Muller, Mankato
Richard Harold Nachbar, Jordan
Richard Bert Nierling, Jamestown,
N.D., WITH DISTINCTION
Ronald Lee Owens, Lake Crystal
Robert Arthur Paschke, Faribault,
WITH DISTINCTION
Thomas Edward Raster, White Bear
Lake, WITH HIGH DISTINCTION
Dennis John Redpath, St. Louis Park
Raymond Michael Robinson, Minne-
apolis
David Harry Rudberg, Minneapolis,
WITH DISTINCTION
Leon E. Voronyak, Minneapolis
Robert Barry Whiteaker, Hopkins,
WITH DISTINCTION
Richard Edward Wiehle, Minneapolis

Bachelor of Electrical Engineering

Frank James Adams, Bird Island, WITH
DISTINCTION
Amyl H. Ahola, Ely
Sally Mae Ahola, Coleraine, WITH
HIGH DISTINCTION
David John Anderson, Sandstone,
WITH DISTINCTION
Phillip William Arneson, Minneapolis
Douglas Rolfe Askegard, Comstock
Frederick Albert Aupperle, Morris,
WITH HIGH DISTINCTION
Ralph Edison Barr, Jr., St. Paul
Glenn Keith Beck, Minneapolis, WITH
DISTINCTION
Roger Alfred Belisle, A.A., Coon
Rapids, WITH DISTINCTION
Lowell Allan Benson, Alexandria
Rolf Sverre Bergman, Two Harbors,
WITH DISTINCTION
Lowell Arno Boehland, Bertha, WITH
DISTINCTION
Gerald Kenneth Bohn, B.S., Alex-
andria
Oliver Dale Bohning, Minneapolis

Thomas Frank Bovitz, Hibbing
Randall Steven Brown, Hayward,
WITH DISTINCTION
Charles Gordon Brusven, Barnesville
Stephen Paul Callaghan, Minneapolis
Robert Winton Carlson, Bloomington
Lance Arling Christie, Duluth, WITH
HIGH DISTINCTION
John Mark Donahoe, B.S., Fridley
Michael William Dooley, Austin
Egons Karl Dunens, Minneapolis,
WITH HIGH DISTINCTION
Dell Ames Durbahn, B.A.E., St. Paul
Paul Timothy Edstrom, Minneapolis
Donald Wayne Enerson, Minneapolis
Allan Douglas Erickson, St. Paul,
WITH DISTINCTION
Richard Edward Ericson, St. Paul,
WITH HIGH DISTINCTION
William Nelson Fadden, St. Paul
Paul Timothy Faust, Edina
Gary Lee Fletcher, Silver Bay
Robert Evan Friday, Rush City
Roger Neil Garnett, Eau Claire, Wis.

Charles Edwin Golla, Keewatin
 John William Grape, St. Paul
 Aavo Hain Gustavson, B.S., Fort Lee,
 N.J., WITH DISTINCTION
 Stephen Arnold Haglund, St. Louis
 Park
 William David Hansen, Columbia
 Heights
 Arnold M. Hanson, Minneapolis
 Edward Leslie Hemenway, Duluth
 David Albert Hendrickson, Babbitt,
 WITH DISTINCTION
 Harry Anthony Hennen, Jr., Morris,
 WITH HIGH DISTINCTION
 John Steven Herron, Blooming Prairie,
 WITH DISTINCTION
 Douglas James Hoffmann, St. Paul,
 WITH DISTINCTION
 Auldon Eugene Johnson, Hallock
 Bradley Kenneth Johnson, St. Paul,
 WITH DISTINCTION
 Bruce Arnold Johnson, Siren, Wis.
 Bruce Maurice Johnson, Minneapolis
 David Harold Johnson, New Richland
 David Lee Johnson, Minneapolis,
 WITH HIGH DISTINCTION
 Richard Howard Johnson, Minne-
 apolis, WITH DISTINCTION
 Roderick Ronald Julkowski, Minne-
 apolis
 Paul Richard Juntilla, Minneapolis
 Gary Mark Kaner, Duluth
 Robert Louis Kaner, Cloquet, WITH
 HIGH DISTINCTION
 Gary Grant Kivela, Jacobson
 Albert James Kranz, Richfield, WITH
 DISTINCTION
 John Edward Kuslich, St. Paul
 Thomas Bernard Landowski, Duluth
 Kendall Allen Langeberg, Austin
 James Deferold Lano, Minneapolis,
 WITH DISTINCTION
 David Arthur Lavrinets, St. Paul,
 WITH DISTINCTION
 Roger Allen Lubke, Staples, WITH
 DISTINCTION
 Glenn Norman Lucas, St. Paul
 David Lee Machart, Pine City, WITH
 HIGH DISTINCTION
 Israel Magrisso, Minneapolis
 Edward E. W. Martinson, Minne-
 apolis, WITH DISTINCTION
 Earl Willard McDonald, Minneapolis
 Thomas Howard Miller, Mound,
 WITH DISTINCTION
 Jerome Joseph Mistek, Ely
 Bengt Eric Nilsson, Minneapolis,
 WITH DISTINCTION
 Robert Allen Nordstrom, Minne-
 apolis, WITH HIGH DISTINCTION
 James Edward Nosan, Buhl
 George Anthony Pagnucco, St. Paul
 Bruce Lynn Palmer, Albert Lea
 William Gregory Patrek, Minneapolis
 Donald Bruce Patterson, New Ulm,
 WITH DISTINCTION
 Bruce Donald Pedalty, St. Paul
 Norris Millen Peterson, Roseau
 Robert Thomas Peterson, Rochester
 Dennis Roger Prokop, St. Louis Park
 James Ellison Puffer, White Bear
 Lake
 James Jerome Putzke, Paynesville
 George Anthony Rodgers, B.M.E.,
 Minneapolis
 William Ellis Roney, Minneapolis
 Francis Dale Rowe, Ashby
 Janet A. L. Rudolph, Otisco, WITH
 DISTINCTION
 William John Sabin, Virginia
 William Bert Sausen, Bloomington
 Wayne Keith Savick, Minneapolis
 Steven Alois Schmitt, Forcst Lake,
 WITH DISTINCTION
 Phillip Arthur Schultz, Holloway
 Edward Schumacher, Delano
 Cyril Edward Sheehy, St. Paul
 Lee Dwight Sheldon, Park Rapids
 Paul Bruce Shortley, Mound
 James Mitchell Sikorski, Minneapolis
 Leroy Bernard Simonson, Squaw Lake
 Robert Francis Soltau, Turtle Lake,
 Wis.
 Gordon Frederick Staeger, Plainview
 David Bruce Stewart, Anoka
 Charles Loren Strand, Marine on St.
 Croix
 Ramer Weld Streed, Robbinsdale
 Wendell LeRoy Strike, Isanti
 Ronald Henry Stude, Brewster

David Matthew Szurek, New Brighton
Laurel Eldo Tangren, B.S., St. Paul
Douglas John Tersteeg, Olivia
David Marcus Thymian, Correll, WITH
DISTINCTION
James Franklin Torgerson, Fosston
John Harold Traver, Easton
Charles Allen Tyson, Alexandria
Donald Fredrick Ugglo, Minneapolis

Dean Lester Van De Walker, St. Paul
William Fred Voigt, Albert Lea
Byron Leigh Wass, Litchfield
Robert William Werner, Windom
David Rodney Wiley, Osseo
Mervale Ward Wolverton, Mankato
Donald Anthony Zimmer, Jr., Cedar
Richard Allen Zoya, St. Paul

Bachelor of Geological Engineering

Christopher Elmer Shaffer, Pine City

Bachelor of Mathematics

Robert James Ahlstrom, Minneapolis,
WITH DISTINCTION
Timothy Jon Beach, Minneapolis
Francis Edward Benson, Little Falls
James Douglas Brightbill, Braham
Martin Steven Coppe, St. Paul
James Ellsworth Ellison, Benson
Daniel LeRoy Endres, Rochester
John Norris Fitch, Morningside, WITH
HIGH DISTINCTION
Milton Albert Grimm, Chaska, WITH
DISTINCTION
Reginald Charles Haines, Minne-
apolis, WITH HIGH DISTINCTION
Richard William Koenig, Minneapolis

Alan V. Loken, Battle Lake
Ronald Dean Priebe, Slayton, WITH
HIGH DISTINCTION
John Michael Rockstroh, West St.
Paul, WITH HIGH DISTINCTION
Joseph Robert Schumi, St. Paul, WITH
DISTINCTION
Emil George Trott, Jr., Iowa City,
Iowa, WITH DISTINCTION
Kenneth Michael Vannelli, St. Paul,
WITH HIGH DISTINCTION
Robert Lee Wheeler, Minneapolis,
WITH HIGH DISTINCTION
Jean Elizabeth Wojciak, Minneapolis

Bachelor of Mechanical Engineering

Richard Charles Andre, Minneapolis
Bernard Francis Bickman, Minne-
apolis, WITH DISTINCTION
Cyrus Kuntz Boynton, Jr., Bloom-
ington
Fredrick Carl Buchholz, Rochester
James Ervin Clark, St. Paul
Robert DeWitt Conner, St. Louis
Park
Gayle LaRue Draxten, Duluth
Ricardo Concha Eastman, Cali,
Colombia, South America
Carl Arnold Edstrom, Jr., White Bear
Lake
Bruce Roger Geske, St. Paul

Donald Wayne Hewitt, Mankato
Ronald Leon Hoseth, Rochester
Thomas Donald Jerney, Minneapolis
Gary Richard Johnson, Minneapolis
Gary Leroy Kearns, A.A., Austin
Larry Alan Kirchner, Minneapolis
William Joseph Krisko, Eden Prairie
James Harlan Krueger, Owatonna
Ronald LeRoy Kurth, Elmore
Alvin Oscar Larson, Minneapolis
Edward Philip Lietzow, Thief River
Falls
Karl Frank A. Lindquist, Little Falls
James Russell Luckow, Fairmont
Frank Charles Lunquist, Minneapolis

Jon Henry Mayer, St. Paul
Frederick Jay Merry, New Brighton.
 WITH DISTINCTION
 Edward Oscar Oberg, Biwabik
 Richard Allen Palmer, Blackduck
Duane Allen Perrin, Albert Lea, WITH
 DISTINCTION
 Howard William Pipkorn, Falcon
 Heights
 Philip Shillock Prinzing, Rushford
 Terryl Kent Qualey, Morris
John Edward Raetz, Richfield, WITH
 DISTINCTION
 Thomas Jay Ressler, Minneapolis

Michael Jon Rodeghier, Robbinsdale
 David Ralph Rossum, Pelican Rapids
 James Louis Rutzick, St. Paul
 Ray Arthur Schleicher, McIntosh
 Arnold Cushing Sheldon II, St. Paul
 James Edward Skavnak, Minneapolis
 Richard Leinan Seelye, Hopkins
 Joseph Anthony Swenson, Scandia
 Frederick Thomas Varani, Grand
 Rapids
 Kent Dell Wall, Clifton, N.J.
 Nicholas George Wander, Mankato
 Bruce William Wehrle, West St. Paul

Bachelor of Metallurgical Engineering

Stephen Joseph Andrick, Virginia
 Donald Kenneth Browne, Minneapolis
 Edward Michael Kalar, Minneapolis

Bachelor of Mineral Engineering

William Amara Freeman, Roberts-
 port, Liberia
 Alan Eugene Leske, Hopkins

Bachelor of Physics

Robert Charles Carlson, North St.
 Paul
 Paul Howard Courneya, Detroit Lakes
John William Graham, Jr., St. Paul.
 WITH DISTINCTION
 Douglas Arthur Gustafson, St. Paul
 Richard Eugene Hanson, Columbia
 Heights
Richard Francis Hassing, St. Paul,
 WITH HIGH DISTINCTION
 Maynard David High, Mankato
Walter Charles Hollenberg, Winni-
peg, Manitoba, Canada, WITH DIS-
 TINATION
 Philip Arthur Houle, Jr., Brainerd
 James Roger Huckle, Minneapolis
 Philip Oscar Isaacson, Minneapolis
 Calvin Keller Kendall, St. Louis Park
Jeffrey Carl Lindquist, Wayzata, WITH
 DISTINCTION
Robert Kenneth Snyder, Minneapolis,
 WITH DISTINCTION
Robert Bruce Zubeck, Minneapolis,
 WITH HIGH DISTINCTION

Bachelor of Science

Wulf Massell, Bad Toltz, Germany
 James Ronald Riehle, Grand Rapids
James Philip Young, Virginia, WITH
 DISTINCTION

Bachelor of Science in Geology

Clifford Bruce Hanson, St. Paul

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

Technical Certificate in Agriculture

Glenn Bernard Miller, Morristown

Bachelor of Science

John David Amundson, South St. Paul, Forestry	Gary Marcel Douglas, Stephen, Agriculture
Allen John Anderson, West Concord, Agriculture	Keith Clifford Drill, Richfield, Forestry
Jane Georgia Orchid Anderson, Belview, Home Economics	Sheridan Iberg Dronen, Finley, N.D., Forestry
Jonathan Dale Anderson, Spring Grove, Agriculture	Mary Louise Dundas, Hopkins, Home Economics
Donald John Antonson, Lewiston, Forestry	Gayle Ann Easton, St. Paul, Home Economics, WITH HIGH DISTINCTION
Janet Elenor Benoit, St. Cloud, Home Economics	John Clement Eriksson, Minneapolis, Agriculture
Glenn Evans Bergland, Roseau, Forestry	Larry Wesley Fox, Red Wing, Agriculture
David Edward Blackford, Anoka, Forestry	Paul Tillman Fuchs, Fairmont, Forestry, WITH HIGH DISTINCTION
Joseph Allegre Brady, North St. Paul, Forestry	Thomas John Full, Taunton, Agriculture
James Ernest Bryan, Richfield, Agriculture, WITH HIGH DISTINCTION	Robert Donald Gaeth, Hoyt Lakes, Forestry
Judith Ann Carr, St. Paul, Home Economics	Joyce Karen Garbe, St. Paul, Home Economics
Noel Edner Christenson, St. Paul, Agriculture	Dennis Eugene Hacker, Canby, Agriculture
Chad Monroe Converse, Outing, Forestry	Karl Lynn Hansen, Round Lake,, Agriculture
Kay Laureen Dahlquist, Hutchinson, Home Economics	Marvin Byron Hanson, Hallock, Agriculture, WITH DISTINCTION
Bernard Gordon Danielson, Stillwater, Agriculture	Evette Elma Harris, St. Paul, Home Economics
Barbara Louise Dawson, Minnetonka, Home Economics	David Harold Hassinger, Franklin, Agriculture, WITH DISTINCTION
Anne Mary Dean, Edina, Home Economics	Robert Martin Hegg, Alexandria, Forestry, WITH HIGH DISTINCTION
Patricia Emily Dittberner, White Bear Lake, Home Economics	Richard Allen Hesse, Bloomington, Forestry
Susan Faye Donsker, Minneapolis, Home Economics	Jean Ann Holmlund, Minneapolis, Home Economics
Roger E. Doom, Canby, Agriculture	Thomas William Holten, Montevideo, Forestry

- William Allen Huemoeller, Northrop,
Agriculture
- Maynard Paul Hughes, Rothsay, Agri-
culture
- Diane Marie Husc, Circle Pines,
Home Economics, WITH DISTINC-
TION
- Larry George Jaffrey, Rush City,
Agriculture
- David Piper Jeronimus, Duluth,
Forestry
- Delbert Russell Johnson, Minneapolis,
Forestry
- MaryLee Teresa Johnson, Minne-
apolis, Home Economics
- Theodore Allan Johnson, Stillwater,
Forestry
- David Joos, Jr., Hancock, Agriculture
- David John Jude, Maple Lake, Agri-
culture, WITH DISTINCTION
- Lawrence Herbert Kasten, St. Paul,
Agriculture
- Larry Joseph Kresl, St. Paul, Agricul-
ture
- Michael Craig Kupka, Minneapolis,
Forestry
- Bonita Anne Linge, Minneapolis,
Home Economics
- Ralph Henry Lott III, Richfield, Agri-
culture
- Ann Catherine Lyman, Excelsior,
Home Economics
- Kathryn Louise Magdanz, Minne-
apolis, Home Economics
- Ardell Ellsworth Magnusson, Roseau,
Agriculture
- Glyndwr Thomas Mainwaring, St.
Paul, Forestry
- Vincent Lester Mann, West Chicago,
Ill., Forestry
- Mildred Ann March, Bloomington,
Home Economics
- Floyd Donald Marti, Sleepy Eye, Agri-
culture
- Sandra Helen Mattson, Minneapolis,
Home Economics
- Bonnie Jean McCammon, Canby,
Home Economics
- Mary Ann McConnell, St. Paul Park,
Home Economics
- Carl James McIlquham, Chippewa
Falls, Wis., Forestry, WITH DISTINC-
TION
- Ila Marie Megaw, Delavan, Home
Economics
- CarolLynn Diane Meyer, Winona,
Home Economics
- David LeRoy Miller, Minneapolis,
Forestry
- Charles Barry Morse, St. Paul,
Forestry
- Patricia Jean Mund, St. Paul, Home
Economics
- Thomas Berge Namtvedt, Minne-
apolis, Agriculture
- Janice Lynn Nelson, Shakopee, Home
Economics
- Julie Kisti Nelson, Minneapolis,
Home Economics
- Kathleen Anne Nichols, St. Paul,
Home Economics
- Nancy Carol Nietz, Rochester, Home
Economics
- Michael Kenneth Noel, Hopkins,
Forestry
- Paul Albert Noreen, Pine City,
Forestry, WITH HIGH DISTINCTION
- Wallace Joseph Nozal, Virginia, Agri-
culture
- Elizabeth Helen O'Brien, Minne-
apolis, Home Economics, WITH
DISTINCTION
- Larry LuVerne Olson, Cannon Falls,
Agriculture
- Peter Tosan Onesirosan, Sapele,
Nigeria, Agriculture, WITH HIGH
DISTINCTION
- Birgit Meta Onnen, Minneapolis,
Home Economics
- Donald Curtis Oster, Dassel, Agri-
culture
- Robert George Otto, Rochester, Agri-
culture
- Harold Waldemar Paulson, Albert
Lea, Agriculture
- Daniel Effer Peitso, Minneapolis,
Forestry
- A. James Phillips, Amboy, Forestry
- Verna Mae Rahm, Ormsby, Home
Economics

Richard Lawrence Raich, Meadowlands, Agriculture
 Janice Kay Rarick, Minneapolis, Home Economics, WITH DISTINCTION
 John Patrick Regnier, Marshall, Agriculture
 Karen Anita Shortley, Mound, Home Economics
 Sandra Joanne Ober Siewert, Barnum, Home Economics, WITH DISTINCTION
 Robert Wayne Small, A.A., St. Charles, Agriculture
 Karin Carlson Snyder, Minneapolis, Home Economics
 Larry K. Stevens, Edgerton, Agriculture
 Marcia Kay Stevens, Minneapolis, Home Economics, WITH DISTINCTION
 Paul Dean Stolen, Fosston, Agriculture
 Dennis William Strom, A.A., Willmar, Agriculture
 Susan Kay Stutzman, Richfield, Home Economics
 Marjorie Rachel Swanson, Hibbing, Home Economics

Roger Alan Swanson, Hallock, Forestry
 Ronald Wayne Thompson, Blooming Prairie, Agriculture
 Steven Garret Thorne, Minneapolis, Forestry, WITH HIGH DISTINCTION
 Darrell Edwin Thurnbeck, Forest Lake, Agriculture
 John Charles Troolin, Cambridge, Forestry
 Kalevi Matti Turkia, Ristiina, Finland, Forestry, WITH DISTINCTION
 Robert Michael Vagts, Harmony, Agriculture
 Marlin Gene Van Der Veen, Glenwood, Agriculture
 Richard Orville Wallestad, Amboy, Agriculture
 Joseph James Webster, Mazeppa, Agriculture
 Lawrence Elmer Westerberg, Cambridge, Forestry
 Fred Lynn Wintermantel, Minnetonka, Forestry
 Mary Beth Wood, Minneapolis, Home Economics

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

Bachelor of Science

Wayne James Ahlbrecht, Buffalo Lake, Agricultural Education
 Denise Carol Anderson, St. Paul, Home Economics Education
 LeRoy Karl Battcher, Gaylord, Agricultural Education
 David Carl Christofferson, A.A., Owatonna, Agricultural Education
 Catherine Leaf Cornett, Denver, Colo., Home Economics Education
 Vernell Jay Draheim, Bricelyn, Agricultural Education

Lorelei Dorothy Folkerts, Annandale, Home Economics Education
 Nancy Lea Glas, Hutchinson, Home Economics Education
 Patricia Ann Hall, Edina, Home Economics Education, WITH DISTINCTION
 Douglas Louis Hanson, A.A., Willmar, Agricultural Education
 Harlin Lee Hecht, A.A., Pequot Lakes, Agricultural Education

- Doris Jean Herbst, Glencoe, Home Economics Education, WITH DISTINCTION*
- Betty Jean Heublein, Lewiston, Home Economics Education
- Kathleen Mary Hjelle, Argyle, Home Economics Education
- Carol Louise Hoff, Dalton, Home Economics Education
- Laurel Ruth Johnson, Balaton, Home Economics Education
- Connie Joyce Knutson, Zumbrota, Home Economics Education
- Ronald G. Kubista, A.A., Blooming Prairie, Agricultural Education
- Larry Lyle Larsen, Kasson, Agricultural Education
- Gail Marie McCall, Auoka, Home Economics Education, WITH HIGH DISTINCTION*
- Lee Gordon Mendenhall, Garden City, Agricultural Education
- Mavis Elaine Mohn, Hopkins, Home Economics Education
- Nancy Marie Nodland, Goodhue, Home Economics Education
- Chrystine Roberta Nordstrom, Co-kato, Home Economics Education
- Gary Lee Olson, Storden, Agricultural Education
- Lois Mac Louise Olson, Hutchinson, Home Economics Education
- Lynne Diane Olson, Baudette, Home Economics Education
- Mary Diane Jacob Orke, Lake City, Home Economics Education
- Kay Elizabeth Peterson, Cloquet, Home Economics Education, WITH DISTINCTION*
- Sandra Wendy Polterock, St. Louis Park, Home Economics Education
- Karen Elouise Pottsmith, Minneapolis, Home Economics Education
- Victor Arnold Richardson, A.A., Spring Valley, Agricultural Education, WITH DISTINCTION*
- Claudia Mae Roberts, Circle Pines, Home Economics Education
- Linda Gene Seashore, Edina, Home Economics Education, WITH DISTINCTION*
- Patricia Kay Sherwin, Northfield, Home Economics Education
- Donald Valjean Shippy, Canby, Agricultural Education
- Larry James Smith, Pierz, Agricultural Education
- Sarah Catherine Souther, St. Paul, St. Paul, Home Economics Education, WITH HIGH DISTINCTION*
- Mary Katherine Teply, Glencoe, Home Economics Education
- Sandra Ellen Thompson, Puposky, Home Economics Education, WITH DISTINCTION*
- Wayne Erwin Torgerson, Belgrade, Agricultural Education
- Gary Allen Vanderwerf, Sleepy Eye, Agricultural Education
- Karen Ann Wagtskjold, Cloquet, Home Economics Education
- Erlin James Weness, Adams, Agricultural Education, WITH DISTINCTION*
- Dennis Richard Wilczek, Perham, Agricultural Education
- Diane Margaret Wrolson, Farwell, 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

Robert Neil Alexander, Minnetonka
Dale Elmer Anderson, Dunnell
Richard Dean Bjerkaas, Eagle Bend,
WITH DISTINCTION
Richard Allen Buegler, Kasson
Ronald Anthony Bushlack, New Rich-
land
Dale Arnold Daak, Stewart
Wayne Clifford Erickson, Plummer

John Isaac Evavold, Ashby
Stanley C. Gerhart, Adams
George Noel Pederson, Jr., St. Paul
David Ralph Rieke, Kiester
Merlyn Joel Shelstad, Doran
Edward George Taylor, Lanesboro,
WITH DISTINCTION
Bernard Henry Van Zomeren, Chokio
John Wilmer Woestehoff, Le Sueur

COLLEGE OF EDUCATION

Bachelor of Science

Bruce Andrew Abrahamson, Minne-
apolis
Karen Jo Ackert, St. Paul
Nancy Lee Adams, Austin, WITH DIS-
TINCTION
Marilee Elizabeth Alexander, Edina,
WITH HIGH DISTINCTION
Mary Ellen Altobell, St. Paul
Barbara Elaine Anderson, Minne-
apolis, WITH DISTINCTION
Clark Peter Anderson, Minneapolis
Gerald Charles Anderson, Minneapolis
Jacqueline Kay Anderson, Minneapolis
Joyce Marie Anderson, Minneapolis
Linda Rae Anderson, Minneapolis
Luther Leroy Anderson, B.A., Minne-
apolis
Marjorie Helen Anderson, St. Paul,
WITH DISTINCTION
Mary Jean Anderson, St. Paul
Virginia Kathryn Anderson, New
Brighton, WITH DISTINCTION
Gail Kathleen Andre, St. Paul
Martha Elizabeth Andresen, Minne-
apolis, WITH HIGH DISTINCTION

Heidi Sue Applebaum, St. Louis Park,
WITH HIGH DISTINCTION
Gail Sylvia Armstrong, Minneapolis
Dennis Robert Arthur, Robbinsdale
David William Atkinson, Upsala
Charlotte McKenzie Axiotis, Minne-
apolis
Allen Hyatt Bachelder, B.A., Minne-
apolis
Marcia Kay Bannister, Robbinsdale,
WITH DISTINCTION
Joel Arthur Barker, Rochester,
WITH DISTINCTION
Patricia Adele Barnes, Anoka
Barbara Jean Barrett, St. Paul
Darryl Dean Barrett, Bethel, WITH
DISTINCTION
Judy Claire Bartz, Lockhart
Donna Jeanne Bauer, St. Paul
James William Beatty, St. Paul
Rebecca Wentworth Bedell, Minne-
apolis, WITH HIGH DISTINCTION
Patricia Marie Behr, St. Paul
Audrey Nelson Berg, Houston, WITH
DISTINCTION

Barbara Ellen Berg, West St. Paul,
 WITH DISTINCTION
Janet Cheryl Berglund, Scandia
Lawrence Raymond Bergman, Minne-
apolis
Patricia Lorraine Bergstrand, Wayzata
Kaye Essig Bergstrom, Minneapolis,
 WITH DISTINCTION
Hayden William Beyer, Minneapolis
Timothy Michael Bird, St. Louis Park
Berenice Dorothy Bleedorn, Richfield,
 WITH DISTINCTION
Gary Bennett Bloedel, St. Paul
Steven Gabriel Blons, St. Paul
Michael Matthew Blowers, Crosslake
Donald James Bockler, B.A., South St.
Paul
Robert Clay Bogart, Lakeville
Mary Marguerite Bohmer, B.A., St.
Cloud
Madre Carlye Bohn, Minneapolis
Richard Newman Bolstad, Wayzata,
 WITH DISTINCTION
Kathryn LaVonne Borgschatz, A.A.,
Zumbrota
Marilyn Anne Botko, Minneapolis
Gary Lyle Bowman, Minneapolis
Anne Marie Boyum, St. Paul
Robert Arthur Braun, B.A., St. Paul
Patricia Sandquist Broen, St. Paul,
 WITH DISTINCTION
David Alan Brooks, St. Paul
Janet Marie Brostrom, Minneapolis
Lucia Twite Brown, Minneapolis
Betty Charlotte Brum, Minneapolis
Leone Seaton Brunson, A.A., Minne-
apolis, WITH DISTINCTION
Elizabeth Larson Brunsvold, B.A.,
Minneapolis
Janet Marie Bucholtz, Albert Lea,
 WITH DISTINCTION
Marilyn Lenore Buckrey, St. Paul
Ann Sorenson Budd, Minneapolis,
 WITH DISTINCTION
Penne Varney Bumgarner, Austin
Robert Edwin Buresh, Minneapolis,
 WITH DISTINCTION
Douglas Harold Butler, Minneapolis
Kenneth Stewart Campbell, A.A., St.
Paul

Lois Ann Carlson, Minneapolis, WITH
 DISTINCTION
Michael Hilding Carlson, Minneapolis
LeRoy Lyle Cartwright, Coon Rapids
Joanne Maxine Case, South St. Paul
Judith Ann Cerwick, A.A., Minne-
apolis
Kenneth Ray Chamberlain, Hastings
Joan Marie Champion Chapman, Min-
neapolis, WITH DISTINCTION
Sally Bartlett Chase, B.A., Minne-
apolis
Elizabeth Dianne Christensen, Shafer
Corinne Clausen, Minneapolis
Ronald Lee Coffin, Arlington, Ind.
Dianne Gail Cogswell, Minneapolis
Mary Frances Connors, Minneapolis
Thomas Arthur Counters, Albert Lea
Patricia Irene Crandall, Monticello
Willis Hawley Cropsey III, St. Paul
Darlene Rose Cross, Rochester
Lawrence Raymond Cutlan, B.A.,
Excelsior
James Rodney Daggett, Windom
Karna Mary Dahleen, St. Peter
Wayne Alvar Danielson, Minneapolis
John James Danko, Minneapolis
Sandra Lea Davis, Minneapolis
Charles Wesley Dayton, Montevideo
Fred Arthur DeGregoire, A.A., Min-
neapolis
Anne Esterline DeMuth, St. Paul,
 WITH DISTINCTION
Monika Dettmers, B.A., New
Brighton
Susan Margaret Devoy, Minneapolis
Patricia Dianne Digatono, Minne-
apolis
Annette Gail Dockter, Minneapolis
Suzanne Baldwin Donahue, Sylvania,
Ohio
Nannette Cheryl Donnell, Edina
Phyllis Ann Dorfman, Fargo, N.D.
John Edward Doyle, Winona
Annella Monica Duerr, Rogers
Mary Judith Dyrland, Minneapolis,
 WITH HIGH DISTINCTION
James Christian Ekern, B.A., Minne-
apolis
Curtis Wayne Engstrom, Minneapolis

Barbara Elaine Erickson, A.A., Minneapolis
 Dianne Kay Erickson, Lanesboro
 Mary Maki Esterberg, B.Chem., Ely
 Jeannette Louise Etter, Richfield
 Mary Hargadine Faltesek, St. Paul,
 WITH HIGH DISTINCTION
 Sonja Marie Felland, Harmony, WITH
 DISTINCTION
 Robert Theodore Ferry, Edmonton,
 Alberta, Canada
 Lilli Fil, South St. Paul, WITH DISTINC-
 TION
 John Francis Fisher, B.A., Minne-
 apolis
 Beverly Louise Fleckten, Minneapolis,
 WITH HIGH DISTINCTION
 Bethel Christie Flikke, Minneapolis
 Alice Dean Floan, St. Paul
 Karen Ann Flodeen, Minneapolis,
 WITH DISTINCTION
 Hugh Raymond Florman, St. Paul
 Laani May Fong, B.A., Minneapolis
 Kristin Elizabeth Formo, Edina, WITH
 DISTINCTION
 Jean Corine Foster, Minneapolis,
 WITH HIGH DISTINCTION
 Donald Rex Fox, St. Paul, WITH DIS-
 TINATION
 Richard Herman Fredericks, White
 Bear Lake
 Paul Ingve Freeman, Minneapolis
 Harvey Richard French, St. Paul
 Margaret Nell Fry, Lincoln, Neb.,
 WITH DISTINCTION
 Mary Katherine Fuller, St. Paul
 Patrick Anthony Furlong, Hibbing
 Linda Ruth Gandrud, Owatonna
 Charlotte Pauline Garon, Duluth
 Patricia Anne Garrison, Edina
 Vija Aina Geddings, Minneapolis
 Bonnie June Edna Gelle, Osseo
 Ronald Edward Gellerman, Minne-
 apolis
 Nicole Elizabeth Gentine, Rush City
 Sharon Ann Gerecke, Edina
 Susan Benton Gill, Mahtomedi
 Mary Louise Gilland, Sleepy Eye
 Judith Brown Gilster, Minneapolis,
 WITH DISTINCTION
 Effie Louise Gryting Gimmetad, Bel-
 view
 Wendy Marie Gislason, St. Paul
 Kurt Louis Glaeseman, Parkers Prairie,
 WITH HIGH DISTINCTION
 Anne Looney Graham, Minnetonka
 Nancy Mitchell Green, Roseville
 Thomas Howard Greeney, A.A.,
 Waseca
 Michele Claire Gregory, St. Paul
 Deborah Jean Griswold, Hopkins,
 WITH DISTINCTION
 Andrea Nina Gromak, Minneapolis
 Diane Marie Grose, St. Louis Park,
 WITH HIGH DISTINCTION
 Lorne Albert Grosso, Sault Ste Marie,
 Ontario, Canada
 MaryLee Gail Gudmundson, Richfield
 Sharon Lee Guhlke, Sleepy Eye
 Karen Kay Gullickson, Owatonna
 Karen Marleen Gullickson, Tracy,
 WITH HIGH DISTINCTION
 Joan Marie Gunderson, Olivia
 Jane Marie Guse, Janesville, WITH DIS-
 TINATION
 Susanne Marie Hadley, Minneapolis
 Georgia Lynn Haggemiller, St. Paul,
 WITH DISTINCTION
 Joan Phylis Haleen, Minnetonka
 Eileen Kay Hall, St. Louis Park
 Thomas Frank Hall, A.A., Minne-
 apolis
 Kathleen Ruth Hallberg, Forest Lake
 Judith Anne Halper, B.A. cum laude,
 St. Paul
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 Thomas Francis Kurtin, Cudahy, Wis.
 James Franklin Larson, Benson, WITH
 DISTINCTION
 Henry Edward Lawston, Canton
 Gary Robert Leff, Hector, WITH HIGH
 DISTINCTION
 Morris Allen Link, B.A., Glen Haven,
 Wis.
 Bruce Herbert Liveringhouse, Crystal
 Marvin Ray Maas, Jamestown, N.D.,
 WITH DISTINCTION
 Patrick Joseph McKeever, Oak Island
 John Joseph Melancon, St. Paul
 Christ V. R. Mueller, Marshfield,
 Wis.
 Gene William Nagel, Belle Plaine
 Dale Thomas Neirby, Moorhead
 Dennis Leland Nelson, Blue Earth
 Charles David Newton, Robbinsdale
 Edward Osterman, A.A., Brooklyn,
 N.Y.
 A. Andrew Overby, Wolverton, WITH
 DISTINCTION
 John Fredric Petersen, Minneapolis
 Charles Melvin Pieper, Henning
 Kent Martin Rosenblum, St. Paul
 William Alexander Rotenberger,
 Lisbon, N.D., WITH DISTINCTION
 Thomas Arthur Rutz, Brussels, Wis.,
 WITH HIGH DISTINCTION
 George Joseph Schamber, Milwaukee,
 Wis., WITH DISTINCTION
 Jerald David Sprau, Elkton
 James Ray Tripp, Sparta, Wis.
 Adrian Fred Van Dellen, Bloomington,
 WITH DISTINCTION
 DeWayne Harold Walker, Minne-
 apolis
 Richard Herbert Watkins, St. Paul
 James Lewis Wilkus, B.A., West St.
 Paul
 Bradford Cassius Yoho, St. Paul
 Glen LeRoy Zebarth, Brandon, WITH
 DISTINCTION

Doctor of Veterinary Medicine

Alvin Dean Aberman, Minneapolis
 Jerome Carl Ahrendt, B.S. with dis-
 tinction, Maple Plain
 Alfred William Anderson, B.S., Park-
 ers Prairie
 Raymond Oscar Benson, B.S., St.
 Paul
 Bertram Rangvold Berg, B.S., Mad-
 dock, N.D.
 Paul Lewis Berge, B.S., Valders, Wis.
 Roger William Boser, B.S., Pierz
 Gerald Francis Brancich, B.S., Nash-
 wauk
 Byron L. Buchli, B.S., Arcadia, Wis.
 Gerard Albin Dahl, B.S., Lake Lillian
 Robert Andrew Dietl, B.S., Minne-
 apolis
 Ronald Frank Dubbe, B.S., Jordan
 Larry Edwin Eilts, B.S., Spencer, S.D.
 Duane A. Erickson, B.S., Dalbo
 Richard Eugene Faivre, B.S., Lake
 Geneva, Wis.
 Ellen Louise Ferdon, B.S., Buffalo
 Laszlo Agoston Frics, B.S., Emery,
 S.D.

John Gustav Fritsche, B.S., Milwaukee, Wis.
 Edward Donald Halls, B.S., Sedan
 David Gerald Klomp, B.S., Harmony
 Ronald John Kolata, B.S., Watertown, Wis.
 David Norval Lamphere, B.S., Arkansas, Wis.
 Thomas Alton Lang, B.S., Glenville
 Alice Luella Lareen, B.S., Cumberland, Wis.
 John Robert Luther, B.S., Brewster
 Roger Roy Madison, B.S., Luverne
 Earl Hunt McCauley, B.S., St. Paul
 Alan David Mendenhall, B.S., Garden City
 William Gerald Olson, B.S., Wheeler, Wis.
 Thomas Joseph Poindexter, B.S., Ree Heights, S.D.

John Frank Quast, B.S., Winsted
 Mark Allen Schimelpfenig, B.S., St. Paul
 Kenneth Allen Schulte, B.S., St. Paul
 Charles Albert Stancer, B.S., Randolph, Wis.
 James Arthur Swenberg, B.S. with high distinction, Detroit Lakes
 George Marion Szczech, B.S., Stanley, Wis.
 George Arthur Twitero, B.S., Sisseton, S.D.
 James Edwin Warling, B.S., St. James
 Gail Donavon Williams, B.S., Huron, S.D.
 Keith Vlad Wold, B.S., Mabel
 Gustave Charles Wruck, B.S. with distinction, Pierz

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Jean Ann Bressler, Menomonie, Wis.
 Gennifer Gene Brown, International Falls
 Julie Rae Busing, Danville, Ill.
 Judith Marion Cundiff, Minneapolis
 Mary Margaret Daniels, Crystal
 Susan Kay Dceg, Albert Lea
 Jean Elizabeth DeVries, Robbinsdale
 Ilee Mary Engelhardt, Chaska
 RoxAnne Gail Erickson, Roseau
 Ellen Louise George, Eau Claire, Wis.
 Patricia Louise Harris, Minneapolis
 Rita Juanita Ibsen, Faribault
 Judith Rose Iverson, St. Paul
 Karen Louise Johnson, Minneapolis
 Barbara Lynn Johnson Kalenda, New Brighton
 Susanne Marie Kelsey, Minneapolis
 Marjorie Jane Kircher, Olivia
 Sandra Cay Lampman, Speedway, Ind.
 Judith Lee Larson, Hibbing

Patricia Jean McCall, Mora
 Diane Delores Melde, Scottsdale, Ariz.
 Judith Kay Melius, Minneapolis
 Brenda Janet Moore, Coon Rapids
 Vicki Lee Olsen, Edina
 Karen Mae Peterson, Askov
 Lynne Louise Peterson, St. Louis Park
 Marie Louise Polivka, Minneapolis
 Jean Lynn Renli, Canton, S.D.
 Sandra Kaye Richardson, Parker, S.D.
 Judith Lynne Richie, Richfield
 Mary Kaye Sartell, Wadena
 Sandra Margaret Schalz, St. Paul
 Carol Lynn Schatzberg, St. Paul
 Margaret Ann Villwock, Blaine
 Lee Ann Vizzier, Minneapolis
 Carol Dianne Waataja, Minneapolis
 Cathleen Rose Wagner, Stillwater
 Theresa Tourville Wilson, St. Paul

Bachelor of Science

- Richard W. Adamson, Brooklyn Center
 Thomas Warren Anderson, Duluth
 David John Blaska, Anoka
 John Harvey Brekke, Minneapolis
 Douglas Rade Daehlin, Great Falls, Mont., WITH DISTINCTION
 Paul Robert Dumke, Wheat Ridge, Colo., WITH DISTINCTION
 Michael Richard Enich, Hibbing
 Richard Louis Ferguson, Milaca
 Dean Albert Flugstad, Westby, Wis.
 Michael Kenneth Frisch, Virginia
 Thomas Francis Fritz, Detroit Lakes
 Stanley Lawrence Furber, Jr., Minneapolis
 Patrick Allen Gaspard, Richfield
 Barry Richard Godes, Minneapolis
 Robert Henry Grossman, St. Paul, WITH HIGH DISTINCTION
 George Albert Hankerson, Thief River Falls
 Michael Clark Hedrick, South St. Paul
 John Haakon Hinding, St. Paul
 Randahl Burgess Hoghaug, Detroit Lakes
 Vincent Monroe Hollaren, Worthington
 Robert Allan Honkola, Brocket, N.D.
 Barry Conrad Hoyland, Ridgeland, Wis.
 James Howard Johnson, Red Wing
 James Robert Klaassen, Westbrook
 Robert Lester Kline, B.A., Minneapolis, WITH DISTINCTION
 Thomas Erwin Kraft, Minneapolis
 John Herman Kropp, Jr., St. Cloud
 Robert Andrew Lindemoen, Minneapolis
 Lennard Richard Lindquist, Minneapolis
 Gary Douglas Lunstad, St. Paul, WITH DISTINCTION
 Ronald Wayne Marcus, B.A., Prinsburg, WITH DISTINCTION
 George Tamotsu Masumoto, Honolulu, Hawaii, WITH HIGH DISTINCTION
 Steven Thomas Matthews, Minneapolis
 Douglas Ray Maxson, St. Peter
 James Stanley McDonald, East Grand Forks
 Noel James Messelt, St. Paul
 Peter Louis Michelich, Keewatin
 David Edwin Milbrath, Duluth
 Horace George Miller II, St. Paul, WITH DISTINCTION
 Richard LeRoy Miller, Glenwood
 Thomas Arvid Molin, Montevideo, WITH DISTINCTION
 Michael John Montgomery, Minneapolis
 Charles Roger Nolop, B.A., Ortonville
 Richard Russell Nyman, Duluth
 Dwight A. Oates, Chisholm, WITH DISTINCTION
 Robert James Olson, Litchfield
 Sherwood Robert Pomeroy, St. Paul, WITH DISTINCTION
 George Louis Posavad, Jr., St. Paul
 Richard James Provinzino, Melrose
 Gene Carlton Rindelaub, St. Paul
 Gary Marshall Rohrer, Winona
 Larry Myles Saliterman, B.A., Minneapolis
 Robert Charles Schwegler, B.A., Alexandria
 Russell Roman Sieben, Melrose
 Robert Barrett Simeral, Denver, Colo., WITH DISTINCTION
 James Edward Spitzmueller, St. Paul, WITH DISTINCTION
 Francis Charles Steyaert, Nassau
 Richard Jon Sundberg, St. Cloud, WITH DISTINCTION
 James Timothy Swanson, Willmar, WITH DISTINCTION
 Robert Duane Thompson, South St. Paul
 Marvin Lewis Ugland, Grand Forks, N.D.
 John Allen Volkerding, Ada
 John David Wainio, Duluth
 Douglas Glen Walesheck, St. Paul
 Lloyd Anthony Wallin, St. Paul

Greg Thomas Walling, South Haven,
WITH DISTINCTION
Kenneth James Weidman, A.A.,
Rochester
Drew Douglas Whiteside, Duluth
James Bruce Whiting, Minneapolis
Richard Arthur Wiberg, White Bear
Lake

George Halvor Winn, B.A., Blooming
Prairie
Charles Alexander Wohlwend, B.A.,
Moorhead
Alan Lee Zabka, Barron, Wis.

Doctor of Dental Surgery

Richard W. Adamsen, Brooklyn Cen-
ter
Thomas Earl Alderson, B.S., Grand
Forks, N.D.
Thomas Warren Anderson, Duluth
Lee Allen Armstrong, B.S., Benson
Robert Armond Arnold, B.S., Hazel,
S.D.
Roger Eugene Austin, A.A., B.S.,
Merrifield
Edward Michael Beckman, B.S., Jor-
dan
Glenn Frank Benson, B.S., Worthing-
ton
Richard Reid Bevis, B.S., Minneapolis
James William Brunner, B.S.Pharm.,
Excelsior
Stephen Herbert Christensen, B.S.,
St. Paul
Kemper Morris Cowgill, B.A., B.S.,
Minneapolis
John Henry Demarais, B.S., Coleraine
Robert Chapin Dolven, B.S., Willmar
Louis John Eich, B.S., Little Falls
James Matthew Ekse, B.S., Russell
Robert Eugene Elkjer, A.A., B.S.,
Willmar
Gary Raymond Ellingson, B.S., North-
field
Darwin Walter Engen, B.S., Crook-
ston
Michael Richard Enich, Hibbing
Jerome Austin Erickson, B.S., Minne-
apolis
Alfred Marshall Fenstad, B.S., Grand
Marais
John William Fischer, B.S., Minne-
sota Lake
Dean Albert Flugstad, Westby, Wis.
Thomas Francis Fritz, Detroit Lakes

Robert Lee Gahnz, B.S., Hastings
Irvin Morris Galstad, B.S., LaCrosse,
Wis.
Lawrence Elmer Gjerstad, B.S., Eagle
Bend
Stanley Alan Golden, B.S., Duluth
Peter Alexander Haarala, B.S., Vir-
ginia
Dale Amory Hansen, B.S., Killdeer,
N.D.
Thomas Guthrie Hanson, B.A., B.S.,
Fridley
Michael John Harrison, B.S., Minne-
apolis
Michael Clark Hedrick, South St. Paul
John Edward Heldridge, B.S., St. Paul
Roger Alan Hesby, B.A., Fergus Falls
Vincent Monroe Hollaren, Worthing-
ton
Robert Allan Honkola, Brocket, N.D.
Larry James Hovey, B.A., B.S., Wolf
Point, Mont.
Barry Conrad Hoyland, Ridgeland,
Wis.
John Richard Isaacson, B.S., St. Paul
David Merton Johnson, B.S., Eau
Claire, Wis.
Douglas Arthur Jolstad, B.S., Franklin
Bruce James Jordahl, B.S., Olivia
Richard James Kaisersatt, B.S., St.
Peter
David George Keup, B.S., Mohall,
N.D.
Loren William Kihlstrom, B.S., Grand
Forks, N.D.
Millard Julian Kimery, B.S., Neoga,
Ill.
Barry Jay Kinneberg, B.A., St. Paul
Robert Lester Kline, B.A., Minne-
apolis

Thomas Erwin Kraft, Minneapolis
 Conrad William Leifur, B.S., Bismarck, N.D.
 Rodney Allen Lenz, B.S., Olivia
 William Frank Liljemark, B.S., Minneapolis
 Robert Andrew Lindemoen, Minneapolis
 Richard James Litman, B.S., Duluth
 Dale Henry Louis, B.S., Paynesville
 Gary Douglas Lunstad, St. Paul
 Paul Reuben Lysne, B.A., Minneapolis
 Ronald Wayne Marcus, B.A., Prinsburg
 George Tamotsu Masumoto, Honolulu, Hawaii
 Steven Thomas Matthews, Minneapolis
 James Stanley McDonald, East Grand Forks
 Peter Louis Michelich, Keewatin
 Richard LeRoy Miller, Glenwood
 Robert Charles Mossefin, B.S., Argyle
 Charles Roger Nolop, B.A., Ortonville
 Dwight A. Oates, Chisholm
 Stephen Arnold Olson, B.S., Hallock
 John Richard Omacht, B.S. Pharm., Osakis
 David Andrew Pajala, A.A., B.S., Brainerd
 Thomas Joseph Pekarna, B.S., Jordan
 George P. Peloquin, Duluth
 George Louis Posavad, Jr., B.S., St. Paul
 Gene Carlton Rindelaub, St. Paul
 Gary Marshall Rohrer, Winona
 Maurice Robert Rollins, B.S., Mitchell, S.D.
 Norbert Donald Schmitt, Jr., A.A., B.S., Austin
 Daniel Stuart Schoeneman, B.A., B.S., Owatonna
 Lester Edwin Schuft, B.S., Brownton
 Robert Charles Schwegler, B.A., Alexandria
 Ronald William Tabaika, B.S., Minneapolis
 John Wayne Thibodo, B.S., Stephen
 Richard Glenn Tollefsbol, B.S., Minneapolis
 Floyd Daniel Trautmann, A.A., B.S., Hastings
 John Allen Volkerding, Ada
 Richard Perry Walters, B.S., La Crosse, Wis.
 Kenneth James Weidman, A.A., Rochester
 Drew Douglas Whiteside, Duluth
 James Bruce Whiting, Minneapolis
 Richard Arthur Wiberg, White Bear Lake
 George Halvor Winn, B.A., Blooming Prairie
 Charles Alexander Wohlwend, B.A., Moorhead
 Alan Lee Zabka, Barron, Wis.
 William Robert Zimbinski, B.S., Minneapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Sally Arlene Anderson, St. Paul, WITH HIGH DISTINCTION
 Becky Lloy Born, Minneapolis
 Judith Mae Churchill, Spring Valley
 Diane Jeannine Clifton, St. Paul, WITH DISTINCTION
 Lyn Mary Damron, Minneapolis
 Joyce Elaine Eggert, St. Paul
 Elaine Charlotte Ehrich, Blue Earth
 Evelyn Imogene Erickson, Minneapolis
 Patricia Clara Erkel, Minneapolis
 Mary Josephine Flynn, Murdock, WITH DISTINCTION
 Ann Morrison Geniser, St. Paul
 Sharon Lee Robinson Hambley, B.A., Minneapolis
 Carol Jean Hanson, Ortonville

Eleanor Ruth Hewitt, Tracy
 Karen Yvonne Hinze, St. Paul
*Shirley Mae Hohn, Mora, WITH
 DISTINCTION*
 Sandra Lee Holmen, Morris
 Carol Joyce Honeywell, St. Paul
 Ann Davidson Hueller, St. Paul
 Nancy Claire James, Minneapolis
 Ann Christine Jensen, Wayzata
 Carol Lorine Johnson, Deerwood
 Linda Louise Johnson, St. Paul
 Rita M. Johnson, St. Paul
 Sharron Lee Johnson, St. Paul
 Hannah Elizabeth Keyser, Minne-
 apolis
 Janis Louise Kitchell, Ada
 Trudy Faye Klatt, Stillwater
 Diane Lynn Knops, South St. Paul
 Donna Marie Lozinski, Ely
 Janet Mary McMartin, Litchfield
*Rosalyn Marie Mercy, San Fernando,
 Calif., WITH DISTINCTION*
 Marcia Kay Miller, Montevideo
 Elizabeth Anne Nordstrom, Coleraine
*Sharon Marie Ostby, McIntosh,
 WITH HIGH DISTINCTION*
*Karen Elaine Osterman, Minneapolis,
 WITH DISTINCTION*
 Merrilee Overmoen, Wadena
*Miriam Elaine Pederson, McIntosh,
 WITH DISTINCTION*

Marsha Joan Peterson, St. Cloud
 Ann Lee Pickens, Minneapolis
 Rita Mary Ronayne, Minneapolis
 Christine Sanford Rybak, Coon
 Rapids
*Joan Kay Schilling, St. Paul, WITH
 DISTINCTION*
 Lynne May Schmitz, St. Cloud
 Cheryl Raye Seczko, East Grand Forks
*Kathleen Anne Sievert, New Ulm,
 WITH DISTINCTION*
*MaryEllen Simons, Minneapolis,
 WITH DISTINCTION*
 Sonja Vivian Sinn, Trimont
 Jean Ann Sitzman, Buckman
 Sharon M. Trautman Sorenson, Burke,
 S.D.
*Elizabeth Ann Strutzel, Ely, WITH
 HIGH DISTINCTION*
*Francine Anne Tallio, Bessemer,
 Mich., WITH DISTINCTION*
 Carolyn Mary Tonsfeldt, Pipestone
*Audrey Jane Wadd, Janesville, WITH
 DISTINCTION*
 LuAnn Wahl, Minneapolis
 Margaret Mary Elizabeth Warren,
 Minnetonka
*Mary Ellen Wessman, Mankato,
 WITH DISTINCTION*
*Ann Virginia Westphal, St. Paul,
 WITH DISTINCTION*

Bachelor of Science

Aleksandra Sybilla Alderman, Minne-
 apolis, Medicine
 Karen Lynne Anderson, St. Paul,
 Physical Therapy
 Karyn Marie Anderson, Virginia,
 Physical Therapy
*Lynette Sherry Anderson, Drayton,
 N.D., Medical Technology, WITH
 DISTINCTION**
 Michael Thomas Anderson, Le Sueur,
 Medicine
 Howard Justin Ansel, B.A., St. Louis
 Park, Medicine

Barbara Ruth Arnold, Pengilly,
 Medicine
 Neil Ira Arnold, B.A., St. Paul,
 Medicine
 Paul Douglas Bandt, B.S., Minne-
 apolis, Medicine
 John Dennis Barker, Jr., Duluth,
 Medicine
 Nancy Burt Beecher, Fargo, N.D.,
 Medicine
*Virginia Katherine Berg, Taylors Falls,
 Physical Therapy, WITH DISTINC-
 TION*

* These degrees are conferred subject to the completion of practical work prior to August 19, 1966.

- Karyl Lee Beste, St. Paul, Medical Technology*
- Kathleen Jo Bianchi, Mountain Iron, Medical Technology*
- John Richard Bonde, St. Paul, Medicine
- Carol Irene Brower, St. Louis Park, Medical Technology*
- Martha Evelyn Brown, Albert Lea, Occupational Therapy, WITH DISTINCTION
- Robert Morris Bunes, Minneapolis, Medicine
- James Michael Burke, Minneapolis, Medicine
- Thomas Patterson Cairns, Bemidji, Medicine
- Donald Melvin Carlson, Grand Rapids, Physical Therapy
- Kenneth Robert Carter, Ada, Medicine
- David George Connor, B.A., Minneapolis, Medicine
- John William Copenhaver, Jr., B.A., St. Paul, Medicine
- Catherine Ann Crowley, St. Paul, Occupational Therapy
- Nancy Joyce Dauwalter, Carver, Occupational Therapy
- Joan Audray Davis, St. Paul, Medical Technology*
- Joel Towne Deweese, B.A., Bemidji, Medicine
- Dale Thomas Dobrin, Minneapolis, Medicine
- Betty Jane Dworschak, Arcadia, Wis., Medical Technology*
- Georgette Knea Ehnstrom, St. Paul, Medical Technology*
- Jeanne Waters Elizer, St. Paul, Occupational Therapy, WITH DISTINCTION
- Carlton Russell Erickson, B.A., Willmar, Medicine
- Diane Sylvia Femrite, Glenwood, Physical Therapy
- Michael Cyril Flanagan, Golden Valley, Medicine
- Fred Wayne Gaskin, Eyota, Medicine
- Mary Caroline Gaspard, Minneapolis, Medical Technology*
- Robert Michael Gasway, B.A., Minneapolis, Medicine
- Mary Esther Gilmer, Bemidji, Medical Technology*
- Patricia Eileen Goodrich, Minneapolis, Medical Technology, WITH DISTINCTION*
- Roger Ray Grimm, Eau Claire, Wis., Medicine
- Judith Morrissette Grout, Mahtomedi, Medical Technology*
- Hugo Ferdinand Gustafson, B.A., Duluth, Medicine
- James William Haight, B.A., South St. Paul, Medicine
- Margaret Louise Hansen, Tofte, Occupational Therapy
- Michael Albert Harris, Minneapolis, Medicine
- James Evan Heeter, Minneapolis, Medicine
- Patricia Sue Hemmelgarn, Perham, Physical Therapy
- Patricia Dell Henning, Minneapolis, Physical Therapy, WITH DISTINCTION
- Sarah Helen Hill, Glendive, Mont., Physical Therapy
- Joann Louise Hintikka, Bertha, Occupational Therapy, WITH HIGH DISTINCTION
- Patricia Kay Hoevet, Chadron, Neb., Physical Therapy
- Darel John Hulsing, Minneapolis, Medicine
- Alice Jeanne Hulten, Proctor, Medical Technology*
- Marilyn Dee Jacobson, Minneapolis, Medical Technology*
- George Phillip Janicke, Grand Rapids, Medicine

*These degrees are conferred subject to the completion of practical work prior to August 19, 1966.

- Kathleen Marie Janikula, Minneapolis, Physical Therapy
- Carol Lynne Johnson, St. Paul, Physical Therapy
- Keith Wilfred Johnson, St. Paul, Medicine
- Susan Ann Johnson, Duluth, Medical Technology*
- Elizabeth Madeline Kanny, St. Paul, Occupational Therapy, WITH DISTINCTION
- Joseph Michael Keenan, St. Paul, Medicine
- John Crowley Keohane, Jr., Minneapolis, Medicine
- Kathleen Zak Kiesler, Little Falls, Medicine
- Charles Lee Langeberg, B.A., Austin, Medicine
- Nels Kurt Langsten, B.A., St. Paul, Medicine
- Richard Edward Latchaw, Edina, Medicine
- James Herman Laursen, Lakefield, Physical Therapy, WITH DISTINCTION
- Ronald E. Leppanen, Kelly Lake, Physical Therapy, WITH HIGH DISTINCTION
- June Ellen Lommen, Coon Rapids, Physical Therapy, WITH DISTINCTION
- Richard Elwood Lund, B.A., Dawson, Medicine
- Mark Wallace Mahowald, Minneapolis, Medicine
- Charles Paul Martin, Minneapolis, Medicine
- Roger Alan Mattison, Minneapolis, Medicine
- Sharon Lorrayne McGinty, Richfield, Occupational Therapy, WITH DISTINCTION
- James Douglas McLeod, Minneapolis, Medicine
- Thomas Hugh McPartlin, B.A., St. Paul, Medicine
- Peter Arthur Menge, St. Paul, Medicine
- Sallie Lynn Milbrath, Austin, Occupational Therapy
- John Roger Mochler, B.A., Vermillion, S.D., Medicine
- Carol Ann Moore, Winona, Physical Therapy
- Gary Harris Myers, B.A., Minneapolis, Medicine
- Janet Mary Nelson, A.A., Duluth, Occupational Therapy
- Margaret Viola Nelson, B.A., Elbow Lake, Medicine
- Patricia Ann Nelson, St. Paul, Occupational Therapy, WITH DISTINCTION
- David Eric Nevalainen, Hibbing, Medical Technology, WITH DISTINCTION*
- William Harold Noran, Edina, Medicine
- JoAnne Faye Nordine, Lancaster, Medical Technology*
- Nancy Muriel Olin, Minneapolis, Occupational Therapy, WITH DISTINCTION
- Beverly Rae Olson, Minneapolis, Occupational Therapy
- Linda Pickens Paduano, Minneapolis, Occupational Therapy
- James D. Parkin, Kasson, Medical Technology*
- Paul Richard Pedersen, B.A., Wayzata, Medicine
- Walter Jay Peet, B.A., Wolverton, Medicine
- Janet Delores Peller, St. Paul, Medical Technology*
- Joan Marie Pennig, Minneapolis, Medical Technology*
- Elizabeth Hall Perry, St. Paul, Medical Technology*
- Marcia Ann Peterson, Willmar, Occupational Therapy, WITH DISTINCTION

* These degrees are conferred subject to the completion of practical work prior to August 19, 1966.

- Ruth Sigrid Peterson, Deerwood,
Medical Technology*
- Marilyn Kay Potter, Anoka, Physical
Therapy, WITH DISTINCTION
- Marianne Lindquist Prekker, Minne-
apolis, Occupational Therapy, WITH
DISTINCTION
- Joan Price Purrington, Windom,
Physical Therapy
- Lynn Rae Quam, Minneapolis,
Medical Technology*
- Anthony Louis Rayer, B.A., A.A.,
Ely, Medicine
- Robert Raymond Reick, Minneapolis,
Medicine
- Charles L. E. Remington, Jr., Billings,
Mont., Medicine
- Clareen Ellen Risbrudt, Dalton,
Physical Therapy, WITH DISTINC-
TION
- Caylan Lee Rockswold, B.A.,
Madison, Medicine
- Jean Antoinette Rog, A.L.A., Minne-
apolis, Physical Therapy, WITH DIS-
TINCTION
- Judy Ann Rosier, Crosby, Medical
Technology*
- Patricia Ann Rotter, Montgomery,
Medical Technology*
- John Francis Schwabach, Windom,
Medicine
- Elberta Louise Seavey, Crosby,
Medical Technology*
- John Arthur Seibel, Minneapolis,
Medicine
- Kristin Mary Sether, Albert Lea,
Occupational Therapy, WITH DIS-
TINCTION
- Mary Sherwood Sielaff, Minneapolis,
Medical Technology*
- Shirley Marie Skanse, Minneapolis,
Physical Therapy
- Ronald David Soltis, Fargo, N.D.,
Medicine
- David Luverne Sorley, Minneapolis,
Medicine
- Terry Allen Sorom, B.A., Lanesboro,
Medicine
- William Leonard Streitz, Waseca,
Medicine
- Arnulf Lohren Svendsen, B.A., Min-
neapolis, Medicine
- Jon Melvin Talsness, International
Falls, Medicine
- Barbara Jean Taylor, St. Paul, Physi-
cal Therapy, WITH DISTINCTION
- Kay Susan Townsend, Minneapolis,
Medical Technology*
- James Arno Tremann, B.A., Excelsior,
Medicine
- Kristine Elsa Troedsson, St. Paul,
Occupational Therapy
- Kathrin Alice Truax, St. Paul, Physical
Therapy
- William Martin Uggen, B.A., Wells,
Medicine
- Karin Barbara Ulrich, Coon Rapids,
Medical Technology*
- David Lloyd Wallace, B.A., Minne-
apolis, Medicine
- Justin Leo Wass, A.A., Bigelow,
Medicine
- Michael David Weiner, St. Paul,
Medicine
- Paul Rodney Wernick, B.A., St. Louis
Park, Medicine
- Kathleen Mueller Whitcomb, St.
Paul, Occupational Therapy
- Thomas Clement White, B.A., Min-
neapolis, Medicine
- Dexter D. Whittemore, Jr., B.A.,
Bemidji, Medicine
- James John Wiberg, White Bear Lake,
Medicine
- Richard Godfrey Wicklund, B.A.,
Minneapolis, Medicine
- Karyn Beth Williams, Edina, Physi-
cal Therapy, WITH DISTINCTION
- Carol Diane Woodke, Duluth,
Medical Technology*
- Karen Teresa Zimmerman, North St.
Paul, Physical Therapy, WITH DIS-
TINCTION

* These degrees are conferred subject to the completion of practical work prior to August 19, 1966.

Master of Hospital Administration

- Manuel Alejandro Bobenrieth, B.S.,
M.D., M.P.H., Santiago, Chile
Howard Marion Chase, B.S., Portland,
Ore.
John Charles Custer, B.A., San Jose,
Calif.
Kurt John Darr, Jr., B.A., LL.B.,
Wahpeton, N.D.
Robert Michael Falck, B.S., Salt Lake
City, Utah
Thomas James Gannon, B.B.A.,
Topeka, Kan.
Murray Norman Halkett, B.B.A.,
Victoria, British Columbia, Canada
James Douglas Hart, B.S., Boise,
Idaho
William Grant Heggie, Jr., B.A.,
Indian Orchard, Mass.
Charles Alan Heinemann, B.A., Min-
neapolis
Friedrich William Hellmer, B.S.,
Rochester, N.Y.
Sister Mary Eleanora Holdgrafer,
B.S.N., M.S., Williams, Iowa
Kenneth William Hollenbaugh, B.S.,
Gary, Ind.
Glenn Gerald Horejsi, B.B.A.,
Webster
William Kreykes, B.S.B., St. Paul
John Wallace Marnell, B.S.Econ.,
Englewood, N.J.
Frank James May, Jr., B.S., Chetek,
Wis.
Daniel Joseph Meddleton, B.S.,
Johnson City, N.Y.
Michael Ralph Miller, B.A., Hastings,
Neb.
Carl Ridges Okelberry, B.S., Salt
Lake City, Utah
Merlin Iver Olson, B.A., Minneapolis
David Wayne Patton, B.S., St. Cloud
Wallace Dennis Dean Pederson, B.A.,
Minneapolis
David DeWitt PeKarna, B.A., Austin
Robert Read Petit, B.S., Eugene, Ore.
Charles Wayne Rice, B.S., Tulsa,
Okla.
Jessie Ford Scarbrough, B.B.A.,
Whistler, Ala.
Jon Charles Soderholm, B.S.Econ.,
Minneapolis
David Stephen Spencer, B.S.Econ.,
Champaign, Ill.
William P. Spolyar, B.S.B., Indian-
apolis, Ind.
Sister Mary Susan Thomas, B.S.,
Chicago, Ill.
Hans Frederick Tronnes, Jr., B.A.,
Duluth

Master of Public Health

- Joe Elmer Allen, B.S., Jefferson City,
Mo.
William Anderson Betts, B.S.,
Meridian, Miss.
Badaruzzaman Chowdhury, B.S.,
Dacca, East Pakistan
Abdolhamid Emami, M.D., Tehran,
Iran
Jeannette Brakhane Endres, B.S.,
Alhambra, Ill.
John Warren Feuk, B.A., Minneapolis
Stephen Joseph Fuzy, B.A., D.D.S.,
Winnipeg, Manitoba, Canada
John Edward Goodrich, B.S., D.D.S.,
Fort Dodge, Iowa
Rufino Cuizon Gutierrez, M.D.,
Philippines
Duane Robert Hass, B.S., Drake, N.D.
John Philip Hatch, B.S., Sioux Falls,
S.D.
Kathryn Marie Hedges, B.S., Minne-
apolis
Harold Edgar Hodges, B.Ch.E.,
Frankfort, Ky.
Robert Milton Hutchison, B.A.,
Minneapolis
Albert F. Iglar, B.S., Oakdale, Pa.
Lorne Vernon Jonat, B.A., M.D.,
Dauphin, Manitoba, Canada

A. K. M. Kafiluddin, B.S., Dacca,
East Pakistan
Christos Dimitrios Karamustakis,
M.D., Volos, Greece
Francis Gene Mattern, B.S., Aberdeen,
S.D.
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David Lawrence Sjoquist, Minneapolis

B.A. '64, College of St. Thomas. Field of Concentration: Economics. Major Adviser: Prof. H. M. Smith.

Nick A. Srdar, Duluth

B.S. '56, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. O. E. Domian.

Sara Ellen Stambaugh, Lancaster, Pa.

B.A. *cum laude* '59, Beaver College. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

Betty Kay Stein, Hopkins

B.A. '58, St. Olaf College. Field of Concentration: Physical Education. Major Adviser: Prof. H. M. Slocum.

June Beverly Stein, Minneapolis

B.B.A. '48, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Relation of Two Personality Traits to Some Measures of Socio Economic Level and Student Plans After High School. Major Adviser: Prof. J. E. Stecklein.

Charles Venable Stone, Roanoke, Va.

B.A. '63, Wake Forest College. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

Penelope Ann Stout, St. Paul

B.A. '62, Middlebury College. Field of Concentration: History. Major Adviser: Prof. H. C. Deutsch.

Robert Walter Strand, Osseo

B.S. with honors '63, St. Cloud State College. Field of Concentration: Educational Administration. Major Adviser: Prof. J. R. Curtin.

Sandra Leland Swenberg, Minneapolis

B.S. cum laude '64, Macalester College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. Robert Dykstra.

Sister Ann Pierre Thomey, Duluth

B.A. '54, College of St. Scholastica. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. F. Gum.

Roy Harris Thompson, Grove City

B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

Truman W. Tillerias, Blooming
Prairie

B.S. '49, North Dakota State University. Field of Concentration: Agricultural Education. Major Adviser: Prof. R. P. Marvin

Genevieve Mae Tvrdik, Alexandria

B.A. '55, Grinnell College. Field of Concentration: Zoology. Major Adviser: Prof. D. W. Warner.

Nancy Jean Walsh, St. Paul

B.S. '52, M.A. '56, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.

Robert Bruce Watson, Allen Park,
Mich.

B.A. with high distinction '64, Wayne State University. Major: Speech and Theatre Arts. Minor: Political Science. Thesis: Communist Rhetorical Strategy and the Presidential Campaign of 1936. Major Adviser: Prof. R. L. Scott.

Patricia Berg Weidner, Minneapolis

B.S. with high distinction '49, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. G. L. Bond.

Dorothy Funk Werblo, Crown Point,
Ind.

B.S. '47, Indiana State College. Field of Concentration: Educational Psychology. Major Adviser: Prof. E. P. Torrance.

Patricia Eleanor Whalen, Minneapolis

B.B.A. with distinction '58, University of Minnesota. Field of Concentration: Psychology. Major Adviser: Prof. L. H. Lofquist.

Raymond Marlin White, Hibbing

B.S. '58, University of Minnesota. Field of Concentration: Agricultural Education. Major Adviser: Prof. R. P. Marvin.

Philip Howard Wichern, Jr., Aurora,
Colo.

B.A. '63, University of Colorado. Major: Political Science. Minor: Sociology. Thesis: The Concept of Leadership in Selected Writings on Democracy. Major Adviser: Prof. M. Q. Sibley.

JoAnne Mildred Wilson, Duluth

B.S. cum laude '58, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. F. Gum.

Mary Ellen Young, Minneapolis

B.A. '58, Gustavus Adolphus College. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

Eugene Cecil Zwick, Moose Lake

B.A. '50, Macalester College. Field of Concentration: Education. Major Adviser: Prof. V. R. Plumb.

Master of Arts in Public Administration

Benjamin Owira Amoth, Siaya, Kenya
B.S. '64, Wisconsin State College (Oshkosh).
Field of Concentration: Public Administration.
Major Adviser: Prof. G. A. Warp.

Robert Eugene Ansel, Minneapolis
B.A. '56, University of Minnesota. Field of
Concentration: Public Administration. Major
Adviser: Prof. G. A. Warp.

Bruce Ross Peterson, Salt Lake City,
Utah

B.S. '58, Brigham Young University. Major:
Public Administration. Thesis: Wisconsin's
First Budget—Its Contributions to Budgetary
Concepts. Major Adviser: Prof. G. A. Warp.

Madan Saluja, New Delhi, India
B.A. '60, LL.B. '62, Delhi University (India);
B.A. '64, Macalester College. Field of Con-
centration: Public Administration. Major Ad-
viser: Prof. G. A. Warp.

Robert Eddy Siegmund, Los Angeles,
Calif.

B.A. '56, Principia College. Major: Public
Administration. Thesis: Recruitment and the
Public Service. Major Adviser: Prof. G. A.
Warp.

Master of Business Administration

John Edward Cronin, Jr., Arden Hills
B.A. '50, St. John's University (Minnesota).
Field of Concentration: Business Administra-
tion. Major Adviser: Prof. A. K. Wickesberg.

Richard Marvin DuBois, Minneapolis
B.I.E. '57, General Motors Institute. Field of
Concentration: Business Administration. Ma-
jor Adviser: Prof. A. K. Wickesberg.

Robert Eugene Keppel, Minneapolis
B.Aero.E. with distinction '50, M.S.Aero.E.
'56, University of Minnesota. Field of Con-
centration: Business Administration. Ma-
jor Adviser: Prof. J. R. Nelson.

Russell Harold Peterson, Minneapolis
B.B.A. '53, University of Minnesota. Field of
Concentration: Business Administration. Ma-
jor Adviser: Prof. A. K. Wickesberg.

Donald Keith Proctor, St. Paul
B.E.E. '51, University of Minnesota. Field of
Concentration: Business Administration. Major
Adviser: Prof. G. L. Wood.

Raymond Joseph Sindermann, Minne-
apolis
B.S.E.E. '60, Milwaukee School of Engineer-
ing. Field of Concentration: Business Ad-
ministration. Major Adviser: Prof. A. K.
Wickesberg.

Robert Richard Sumbs, Sauk Rapids
B.A. '61, St. Cloud State College. Field of
Concentration: Business Administration. Ma-
jor Adviser: Prof. A. K. Wickesberg.

Master of Fine Arts

Robert Gerhard Johnson, Minneapolis
B.A. '64, University of Minnesota. Field of
Concentration: Art. Major Adviser: Prof.
W. W. Quirt.

Ellen Klein, New York, N.Y.
B.S. '64, University of Wisconsin. Field of
Concentration: Art. Major Adviser: Prof.
M. H. Myers.

Eduard Alden Mikkelsen, Osseo
B.A. '57, Colorado State University; M.A. '60,
Montana State College. Field of Concen-
tration: Art. Major Adviser: Prof. Warren
MacKenzie.

Master of Forestry

Paul Vernon Ellefson, St. Paul
B.S. '61, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. R. A. Skok.

David Ervin Nelson, Trimont
B.S. with distinction '64, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. F. D. Irving.

Charles Harold Wick, Golden Valley
B.S. '64, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. F. D. Irving.

Master of Science

David Randolph Adams, Arlington, S.D.
B.S. '63, South Dakota State University. Major: Mathematics. Minor: Astronomy. Thesis: The Bergman Reproducing Kernel Function in Certain Function Spaces. Major Adviser: Prof. N. G. Meyers.

Randall Ernest Bach, LeSueur
B.E.E. with distinction '64, University of Minnesota. Field of Concentration: Physics. Major Adviser: Prof. E. L. Hill.

James Bernard Baeker, St. Paul
B.S. with distinction '64, University of Minnesota. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. Robert Plunkett.

Laren Dee Stacy Barker, Mora
B.S. with distinction '64, University of Minnesota. Field of Concentration: Dairy Husbandry. Major Adviser: Prof. C. L. Cole.

Betty Jacobson Barrett, Minneapolis
B.S. in Nsg. cum laude '62, Hamline University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Krishan Kumar Batra, Punjab, India
B.S. '55, M.S. '57, Punjab University (India). Major: Genetics. Minor: Biochemistry. Thesis: Cytogenetic Behavior of a Duplication-Deficiency Phenotype From Crosses Between Stocks of Interchanges Involving the Same Chromosomes in Maize. Major Adviser: Prof. C. R. Burnham.

Kathleen Anne Baumgartner, Albany
B.S. '59, College of St. Catherine. Field of Concentration: Home Economics. Major Adviser: Prof. I. T. Noble.

Ruth Wilder Bell, Minneapolis
B.S. with distinction '64, University of Rochester. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Erik Bjelke, Oslo, Norway
M.D. '58, University of Oslo (Norway); M.P.H. '64, University of Minnesota. Field of Concentration: Biostatistics. Major Adviser: Dr. J. E. Bearman.

William Louis Bloom, Minneapolis
B.A. '65, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. G. B. Ownbey.

David Edgar Broden, Murdock
B.A. '63, St. Olaf College. Field of Concentration: Physics. Major Adviser: Prof. W. H. Johnson, Jr.

Potter Chien-Tien Chang, Taipei, Republic of China
B.S. '58, National Taiwan University (China). Field of Concentration: Biostatistics. Major Adviser: Dr. J. R. Boen.

Lance Brian Crombie, St. Paul
B.S. '61, St. John's University (Minnesota). Major: Microbiology. Minor: Biochemistry. Thesis: Quantitative Studies on Spheroplast Formation by the Antibody Complement System and Lysozyme on Gram-Negative Bacteria. Major Adviser: Dr. L. H. Muschel.

Waldo G. Espinoza, Concepcion, Chile
Ingeniero Agronomo '63, University of Concepcion (Chile). Major: Soil Science. Minor: Agricultural Plant Physiology. Thesis: The Interaction of Atrazine with the Herbicides CDAA, Linuron, Amiben or Trifluralin and Phosphorous on the Growth of Soybeans. Major Adviser: Prof. R. S. Adams.

Geoffrey Ferster, Minneapolis

B.A. '62, University of Minnesota. Major: Agricultural Economics. Minor: History. Thesis: A Study of Changing Land Tenure and Leasing Arrangements in Southeastern Minnesota. Major Adviser: Prof. P. M. Raup.

Peter Hechtman, Fort Lee, N.J.

B.Sc. '63, McGill University. Major: Biochemistry. Minor: Microbiology. Thesis: Separation and Partial Identification of Some Acidic and Neutral Metabolites of *Penicillium Charlesii* G. Smith. Major Adviser: Prof. J. E. Gander.

Philip William Hedrick, St. Paul

B.A. '64, Hanover College. Field of Concentration: Genetics. Major Adviser: Prof. W. E. Rempel.

Patricia Anne Howell, Whitchurch, England

B.Sc. (Hons) '63, University of St. Andrews (Scotland). Field of Concentration: Zoology. Major Adviser: Prof. N. S. Kerr.

Marshall Clyde Hudson, Minneapolis

B.S. '63, Drexel Institute of Technology. Major: Physics. Minor: Mathematics. Thesis: Mass Spectrometric Determination of the Stable Isotopic Masses of Fe⁵⁶ and Fe⁵⁷ and Their Mass Difference. Major Adviser: Prof. W. H. Johnson, Jr.

Dean Leroy Isaacson, Milaca

B.A. *cum laude* '63, Macalester College. Field of Concentration: Mathematics. Major Adviser: Prof. N. G. Meyers.

Jerry Michael Johnson, St. Paul

B.A. '65, University of Minnesota. Field of Concentration: Environmental Health. Major Adviser: Prof. T. A. Olson.

James Michael Kasal, Stewart

B.A. '64, College of St. Thomas. Field of Concentration: Agricultural Economics. Major Adviser: Prof. W. K. Bryant.

Sylvia Pfeffer Kerr, Minneapolis

B.A. '63, Carleton College. Field of Concentration: Zoology. Major Adviser: Prof. N. T. Spratt, Jr.

Tae Choon Kim, Seoul, Korea

B.A. '55, Seoul University (Korea); M.A. '59, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. John Neter.

Albert William Kuhfeld, White Bear Lake

B.S.Phys. '63, Massachusetts Institute of Technology. Major: Physics. Minor: Mathematics. Thesis: A Low-Field Radio Frequency Transition for a Source of Polarized Protons. Major Adviser: Prof. C. H. Poppe.

Leonard Franklin Lampert, St. Paul

B.Ch.E. '59, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Characterization Studies on the Macroglobulin Which Occurs as an Abnormal Serum Constituent in Waldenstrom's Macroglobulinemia. Major Adviser: Prof. D. R. Briggs.

Larry Todd Lee, Cottonwood

B.S. '64, University of Minnesota. Field of Concentration: Mechanics and Materials. Major Adviser: Prof. W. H. Warner.

Michael Leonard Levitan, Brooklyn, N.Y.

B.S. '62, Rensselaer Polytechnic Institute. Field of Concentration: Mathematics. Major Adviser: Prof. B. W. Lindgren.

Peter Buller Little, Ingersoll, Ontario, Canada

D.V.M. '62, Ontario Veterinary College. Major: Veterinary Medicine. Minor: Pathology. Thesis: An Epidemiologic, Clinical and Pathologic Study of Polioencephalomalacia in Calves. Major Adviser: Prof. D. K. Sorensen.

Carlos Lopez, Minneapolis

B.A. '65, University of Minnesota. Field of Concentration: Environmental Health. Major Adviser: Prof. T. A. Olson.

Marvin Carl Meier, Ogema, Wis.

B.S. with distinction '64, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. D. B. Thorud.

Edwin Charles Meslow, Waukegan, Ill.

B.S. with distinction '59, University of Minnesota. Major: Fisheries and Wildlife. Minor: Botany. Thesis: The Drumming Log and Drumming Log Activity of Male Ruffed Grouse. Major Adviser: Prof. W. H. Marshall.

Bonnie Conrad Nelson, Matthews,
Mo.

B.S. in Home Ec. '63, University of Missouri.
Major: Home Economics. Minor: Biometrics.
Thesis: Discoloration of White Tricot Slips
Laundered in Hard or Softened Water at Specified
Wear Intervals. Major Adviser: Prof.
Suzanne Davison.

Darby Miles Nelson, International
Falls

B.S. with distinction '64, B.A. '64, University
of Minnesota. Field of Concentration: Zoology.
Major Adviser: Prof. J. C. Underhill.

Joseph Neubauer, New Brighton

B.S.A. '47, University of Francisco (Austria).
Major: Genetics. Minor: Botany. Thesis: The
Effect of Colchicine at Various pH Levels on
Trifolium Pratense L. Major Adviser: Prof.
H. L. Thomas.

William George Parkos, Faribault

B.S. '61, Mankato State College. Field of
Concentration: Environmental Health. Major
Adviser: Prof. T. A. Olson.

Andris Peterson, Milwaukee, Wis.

B.S. '63, University of Wisconsin. Field of
Concentration: Environmental Health. Major
Adviser: Prof. Harry Foreman.

Roger Oliver Pilon, Duluth

B.A. cum laude '63, University of Minnesota.
Major: Physics. Minor: Mathematics. Thesis:
A Daly Scintillation Detector for a Mass
Spectrometer. Major Adviser: Prof. W. H.
Johnson, Jr.

Maturu Krishna Pramoda, Viziana-
gram, India

B.Pharm. '60, M.Pharm. '61, Andhra Uni-
versity (India). Major: Pharmaceutical Tech-
nology. Minor: Physical Chemistry. Thesis:
Segregation Phenomena in Systems of Parti-
culate Solids. Major Adviser: Prof. E. G.
Rippie.

Thomas Richard Ryan, St. Paul

B.S. '64, University of Minnesota. Major:
Forestry. Minor: Statistics. Thesis: Shear
Stresses Resulting From Swelling in Laminated
Assemblies. Major Adviser: Prof. J. G. Hay-
green.

Ervin George Schuster, St. Paul

B.S. '64, University of Minnesota. Field of
Concentration: Forestry. Major Adviser: Prof.
R. A. Skok.

Vern David Schwantes, New Ulm

B.A. '62, Dartmouth College. Major: Business
Administration. Minor: Economics. Thesis:
Changes in Auditing and Internal Control In-
duced by Electronic Data Processing. Major
Adviser: Prof. R. G. Berryman.

Jaime Alfredo Smith, Cordoba,
Argentina

B.A. cum laude '54, University of Minnesota.
Major: Astronomy. Minor: Statistics. Thesis:
A Search for Quasars Among Faint Blue Stars.
Major Adviser: Prof. W. J. Luyten.

Dale Owen Solum, Spring Grove

B.S.Econ. with distinction '62, University of
Minnesota. Major: Agricultural Economics.
Minor: Business Administration. Thesis: A
Study of Minnesota Farm Land Ownership.
Major Adviser: Prof. P. M. Raup.

Gilbert Franklin Stallknecht, Baudette

B.S. '62, University of Minnesota. Major:
Plant Pathology. Minor: Biochemistry. Thesis:
A Comparison of Fungicidal Activity of Tri-
phenyl Tin Hydroxide, Dithane M-45, and
Tri-Basic Copper Sulfate Against *Cercospora*
Beticola in Laboratory and Greenhouse Tests.
Major Adviser: Prof. M. F. Kernkamp.

Oliver Eric Strand, Lewiston

B.S. '54, University of Michigan. Major:
Agronomy. Minor: Soil Science. Thesis: The
Effect of Certain Adjuvants on the Phytotoxi-
city of Atrazine. Major Adviser: Prof. Richard
Behrens.

Ronald Roy Swenson, Winthrop

B.S. with distinction '64, University of Min-
nesota. Field of Concentration: Mechanics
and Materials. Major Adviser: Prof. W. H.
Warner.

Lyle John Thompson, New Carlisle,
Ind.

B.S.A. '64, Purdue University. Major: Dairy
Husbandry. Minor: Biochemistry. Thesis: The
Physico-Chemical Composition of Porcine
Seminal Plasma. Major Adviser: Prof. E. F.
Graham.

Paul Allison VanDerWerf, Sandstone

B.A. '63, University of Minnesota. Major: Bio-
chemistry. Minor: Physical Chemistry. Thesis:
Cleavage of S-(1,2-Dichlorovinyl)-L-Cysteine
by an Enzyme From *Escherichia Coli* B. Major
Adviser: Prof. M. O. Schultze.

Nallicheri Tyagaraja Viswanathan,
Visakhapatnam, India

B.Tech. '62, M.Tech. '64, Indian Institute of Technology (India). Field of Concentration: Mechanics and Materials. Major Adviser: Prof. Robert Plunkett.

Thomas Michael Weismann, St.
Cloud

B.S. with honors '63, St. Cloud State College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Nicotinamide Adenine Dinucleotide Linked Glucose Dehydrogenase From *Bacillus Cereus*. Major Adviser: Prof. Samuel Kirkwood.

David Calvin Weisser, New York,
N.Y.

B.S. '63, City College of New York. Major: Physics. Minor: Mathematics. Thesis: Elastic Scattering of Lithium by C^{32} From 1.4 to 3.6 Mev. Major Adviser: Prof. R. K. Hobbie.

Alan Bruce Whitman, Kankakee, Ill.
B.S. with high honors '63, University of Illinois. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Green's Functions in the Non-Stationary, Thermoelastic Theory of Thin Shells. Major Adviser: Prof. C. N. De Silva.

George Alexander Whitmore,
Neepeewa, Manitoba, Canada

B.Sc. '64, University of Manitoba. Major: Business Administration. Minor: Mathematics. Thesis: A Capital Budgeting Model for the Firm. Major Adviser: Prof. R. E. Willis.

James Edward Williamson, Minne-
apolis

B.A. '59, Northland College. Field of Concentration: Business Administration. Major Adviser: Prof. R. G. Berryman.

Master of Science in Aeronautical Engineering

Paul Alan Anderson, International
Falls

B.S. with distinction '64, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanics and Materials. Thesis: A Study of the Effects of Hypersonic Lift to Drag Ratios on the Longitudinal Range of Re-Entry Lifting Vehicles. Major Adviser: Prof. Eugene Stolarik.

Richard John Buretta, Minneota

B.S. with distinction '63, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: A Preliminary Experimental Investigation of the Attenuation of Plane Shock Waves Reflected From a Porous Wall Model. Major Adviser: Prof. G. S. Beavers.

Billy George Williams, St. Paul

B.S. with distinction '64, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of the Fluid Forces Developed on a Rotating Cylinder Near a Porous Ground. Major Adviser: Prof. D. D. Joseph.

Master of Science in Agricultural Engineering

Patrick Francis Flynn, LaGrange Park,
Ill.

B.S. with distinction '59, University of Minnesota. Major: Agricultural Engineering. Minor: Mathematics. Thesis: An Analysis of the Tillage Forces Acting Upon a Rotary Hoe. Major Adviser: Prof. John Strait.

Charles Arnold Onstad, Spring Grove

B.Ag.E. '64, University of Minnesota. Major: Agricultural Engineering. Minor: Geology. Thesis: A Method for Determining the Distribution of the Topographic Effect in Soil Erosion. Major Adviser: Prof. C. L. Larson.

Richard William Thimijan, Lake City
B.S. '64, University of Minnesota. Major:
Agricultural Engineering. Minor: Mathematics.
Thesis: The Behavioral Response of Baby
Chicks to Thermal Environments on the
Fringe of Their Comfort Zone. Major Adviser:
Prof. A. M. Flikke.

Master of Science in Chemical Engineering

Tomio Umeda, Tokyo, Japan
B.E. '58, Tokyo Institute of Technology (Ja-
pan). Major: Chemical Engineering. Minor:
Mathematics. Thesis: The Optimal Design of
an Absorber-Stripper System. Major Adviser:
Prof. Rutherford Aris.

Master of Science in Civil Engineering

Saiyed Meraj Ahmed, Karachi,
Pakistan
B.S. '62, B.E.(Civil) '63, University of
Karachi (Pakistan). Field of Concentration:
Civil Engineering. Major Adviser: Prof. Paul
Andersen.

William Clifford Arons, Jr., Richfield
B.S. with distinction '64, University of Min-
nesota. Field of Concentration: Civil Engineer-
ing. Major Adviser: Prof. W. T. Graves.

Lane Harland Bacon, Minneapolis
B.C.E. '64, University of Minnesota. Field of
Concentration: Civil Engineering. Major Ad-
viser: Prof. M. S. Kersten.

An Hsiung Chang, Tainan, Taiwan,
Republic of China
B.Sc. '62, Taiwan Provincial Cheng Kung
University (China). Field of Concentration:
Civil Engineering. Major Adviser: Prof. Paul
Andersen.

Thomas Lee Cheng, Taipei, Taiwan,
China
B.S. '62, Chung Yuan Christian College of
Science and Engineering (China). Field of
Concentration: Civil Engineering. Major Ad-
viser: Prof. Paul Andersen.

Abul Hasnat, Dacca, Pakistan
B.S. with distinction '56, Bihar University
(India); B.Sc.(Civil) '60, University of Dacca
(Pakistan). Field of Concentration: Civil En-
gineering. Major Adviser: Prof. Paul Andersen.

Gordon Roger Johnson, Minneapolis
B.S. '64, University of Minnesota. Field of
Concentration: Civil Engineering. Major Ad-
viser: Prof. Paul Andersen.

Shakir Husain Khan, Karachi, Pakistan
B.E.(Civil) '63, University of Karachi (Pakis-
tan). Field of Concentration: Civil Engineer-
ing. Major Adviser: Prof. Paul Andersen.

Cesar Gerardo Sanchez, Huancayo,
Peru
Diploma '61, National University of Engineer-
ing. Field of Concentration: Civil Engineering.
Major Adviser: Prof. Paul Andersen.

Master of Science in Dermatology

Saemundur Kjartansson, Reykjavik,
Iceland

M.D. '56, University of Iceland. Major: Dermatology. Minor: Microbiology. Thesis: The Effect of Oral Tetracycline Treatment on the Bacterial Flora of the Skin in Acne Vulgaris. Major Adviser: Dr. F. W. Lynch.

Master of Science in Electrical Engineering

Ge Deng, Taiwan, China

B.Sc. '63, Taiwan Provincial Cheng Kung University (China). Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halvorson.

Donald Lloyd Gustafson, Eau Claire,
Wis.

B.S. with distinction '60, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. W. T. Peria.

Girts Usins Jatnieks, Minneapolis

B.S. with high distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Space-Charge-Limited Diodes. Major Adviser: Prof. E. R. Chenette.

Shing Kau, Kaohsiung, Taiwan, China

B.Sc. '63, Taiwan Provincial Cheng Kung University (China). Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. P. Kumar.

Philippe Jean Michel Rey, Versailles,
France

Diploma '64, University of Paris (France). Field of Concentration: Electrical Engineering. Major Adviser: Prof. A. B. Laponsky.

Frederick Lee Smith, Minneapolis

B.E.E. with high honor '57, Auburn University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Sung-Chu Wang, Formosa, China

B.S. '63, National Taiwan University (China). Major: Electrical Engineering. Minor: Mathematics. Thesis: A Comparative Study of Binary Division Algorithms. Major Adviser: Prof. R. P. Halvorson.

Joel Allan Zellmer, St. Paul

B.S. with distinction '64, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. T. Anderson.

Master of Science in Industrial Engineering

Samuel Arthur Kumar, Dharwar, India

B.E. '60, College of Engineering (India). Field of Concentration: Industrial Engineering. Major Adviser: Prof. Fulton Holtby.

Larry William Wangberg, Wayzata

B.S. '64, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

Master of Science in Mechanical Engineering

Win Aung, Rangoon, Burma

B.Sc.(Eng.) '62, University of Rangoon (Burma). Major: Mechanical Engineering. Minor: Mathematics. Thesis: Heat Transfer by Free Convection from a Horizontal Wire to Carbon Dioxide in the Critical Region. Major Adviser: Prof. R. J. Goldstein.

Richard John Forstrom, Minneapolis

B.S. with high distinction '63, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Experiments on the Buoyant Plume Above a Heated Horizontal Wire. Major Adviser: Prof. E. M. Sparrow.

John Warren Harrison, Jr., Excelsior
B.S.E. '46, University of Michigan. Field of
Concentration: Mechanical Engineering. Major
Adviser: Prof. R. C. Jordan.

Robert Andrew Tomisak, Minneapolis
B.S. with distinction '64, University of Min-
nesota. Field of Concentration: Mechanical
Engineering. Major Adviser: Prof. R. C.
Jordan.

Master of Science in Medicine

David Lawrence Ahmann, St. Cloud
M.D. '58, Marquette University. Major: Medi-
cine. Minor: Pathology. Thesis: Thermal Alter-
ation of ⁵¹Cr-Labeled Human Erythrocytes.
Major Adviser: Dr. D. C. Campbell.

Thomas Richard Blair, Lawrence,
Kan.

B.A. '56, M.D. '60, University of Kansas. Ma-
jor: Medicine. Minor: Hematology. Thesis:
Atypical Leukemia. Major Adviser: Dr. E. D.
Bayrd.

James Byars Carter, San Angelo, Tex.

B.A. '56, M.D. '59, University of Texas. Ma-
jor: Medicine. Minor: Physiology. Thesis:
The Influence of Prolonged Administration of
Acetylsalicylic Acid on the Electrolyte and
Acid-Base Balance in Man. Major Adviser:
Dr. E. T. Carter.

Thomas Temple Schattenberg,
Rochester

B.A. '51, Texas Western College; M.D. '56,
University of Texas. Major: Medicine. Minor:
Pathology. Thesis: A Correlative Electrocar-
diographic Study of Adults Who Have Had
Surgical Repair of Aortic Valve Stenosis. Ma-
jor Adviser: Dr. T. W. Parkin.

Arthur Lawrence Weaver, Lincoln,
Neb.

B.S. with distinction '58, University of Ne-
braska; M.D. '62, Northwestern University.
Major: Medicine. Minor: Pathology. Thesis:
The Lung in Scleroderma: A Clinical-Patho-
logical Study. Major Adviser: Dr. W. E. Well-
man.

Master of Science in Mineral Engineering

Fawzy Hassani Heikal, Cairo,
United Arab Republic

B.M.E. '60, Cairo University (Egypt). Field
of Concentration: Mineral Engineering. Ma-
jor Adviser: Prof. E. P. Pfeider.

Jared Charles Scofield, Duluth

B.M.E. with distinction '64, University of
Minnesota. Field of Concentration: Mineral
Engineering. Major Adviser: Prof. E. P.
Pfeider.

Master of Science in Neurology

Allan John David Dale, Winnipeg,
Manitoba, Canada

M.D. '59, University of Manitoba. Major:
Neurology. Minor: Basic Neurologic Sciences.
Thesis: Experimental Chloroquine Retino-
pathy. Major Adviser: Dr. J. P. Whisnant.

Master of Science in Ophthalmology

Albert Cheskes, Toronto, Ontario,
Canada

M.D. '61, University of Toronto. Major:
Ophthalmology. Minor: Pathology. Thesis: In
Vivo Freezing of the Cornea: An Experi-
mental Study. Major Adviser: Dr. J. W.
Henderson.

Richard Michael Teller, Los Angeles,
Calif.

M.D. '62, University of Southern California.
Major: Ophthalmology. Minor: Biophysics.
Thesis: Experimental Retinal Vascular Lesions
Produced by the Laser. Major Adviser: Dr.
R. W. Hollenhorst.

Master of Science in Orthopedic Surgery

Marten Geitz, Marshfield, Wis.

M.D. '56, Rijks University (Holland). Major: Orthopedic Surgery. Minor: Pathology. Thesis: Embryonal Rhabdomyosarcoma of the Limbs and Limb-Girdles. Major Adviser: Dr. J. M. Janes.

William Ferguson West, Oakland, Calif.

B.A. '54, M.D. '58, Stanford University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Chronic Osteomyelitis: A Long Term Follow Up Involving Several Methods of Treatment. Major Adviser: Dr. P. J. Kelly.

Master of Science in Otolaryngology

Donald Paul Vrabc, Smock, Pa.

B.S. '54, M.D. '59, University of Pittsburgh. Major: Otolaryngology. Minor: Microbiology. Thesis: Investigation of Penicillin and Streptomycin Concentrations in the Perilymph of the Cat Following Parenteral Administration. Major Adviser: Dr. K. M. Simonton.

Master of Science in Psychiatry

Ivan Fras, Rochester

M.D. '61, Zagreb University (Yugoslavia). Major: Psychiatry. Minor: Basic Neurologic Sciences. Thesis: Mental Symptoms in Carcinoma of the Pancreas. Major Adviser: Dr. E. M. Litin.

Master of Social Work

Paul David Banchy, Eau Claire, Wis.

B.A. '57, St. John's University (Minnesota). Field of Concentration: Social Work. Major Adviser: Prof. M. K. Newhouse.

Catherine Marie Boyd, Northfield

B.A. '42, Carleton College. Field of Concentration: Social Work. Major Adviser: Prof. H. C. Yesner.

Neil Richard Brenden, Minneapolis

B.A. '62, St. Olaf College. Field of Concentration: Social Work. Major Adviser: Prof. D. A. Whitmore.

Richard Carl Broeker, Minneapolis

B.A. *cum laude* '64, Lawrence University. Field of Concentration: Social Work. Major Adviser: Prof. A. W. Oren.

Wilma Brandenburgh Brown, Lexington, Ky.

B.A. '64, University of Kentucky. Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

Rena Jewell Bumgardner, Athens, Tex.

B.S. with honors '62, Texas Woman's University. Field of Concentration: Social Work. Major Adviser: Prof. L. N. Scott.

Marcia Linnea Conrad, Minneapolis

B.A. *magna cum laude* '64, Gustavus Adolphus College. Field of Concentration: Social Work. Major Adviser: Prof. L. F. Merl.

Leon Frederick Cook, Redlake

B.S. '63, St. John's University (Minnesota). Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

Mayashree Devec, Gauhati, India

B.A. (Hons) '61, University of Gauhati; Diploma '64, Tata Institute of Social Sciences (India). Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

William Wayne Fox, St. Paul

B.A. '53, Taylor University. Field of Concentration: Social Work. Major Adviser: Prof. A. W. Oren.

Carol Gross Garrison, Minneapolis

B.A. '58, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. H. C. Yesner.

Hilde Eve Gasiorowicz, Minneapolis

B.A. with honors '52, University of California (Los Angeles). Field of Concentration: Social Work. Major Adviser: Prof. M. K. Newhouse.

Verner Lloyd Gilbert, Minneapolis

B.A. '56, Augsburg College. Field of Concentration: Social Work. Major Adviser: Prof. E. W. Francel.

Gregory Warren Gillett, Coon Rapids

B.A. '62, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. D. A. Whitmore.

Aleyda Margarita Gomez, Panama,
Republic of Panama

Licentiate of Social Service '63, University of Panama. Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

Kathleen Wheeler Hagbom, Canton,
Ill.

B.S. in Educ. '45, Illinois State University. Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

Grant W. Hallberg, Minneapolis

B.A. '51, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. E. W. Francel.

James Harry Hayes, Red Wing

B.A. '62, Hamline University. Field of Concentration: Social Work. Major Adviser: Prof. A. W. Oren.

Murvil Richard Hurd, Dows, Iowa

B.A. '64, Upper Iowa University. Field of Concentration: Social Work. Major Adviser: Prof. E. W. Francel.

Roger F. Jordan, Idaho Falls, Idaho

B.S. '61, Brigham Young University. Field of Concentration: Social Work. Major Adviser: Prof. A. W. Oren.

Thomas G. J. Lavelle, Minneapolis

B.A. cum laude '61, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. A. W. Oren.

Rosemary Miller Martin, Minneapolis

B.A. with honors '61, Drake University. Field of Concentration: Social Work. Major Adviser: Prof. E. W. Francel.

Barbara Hursh Nicholson, Minneapolis

B.A. magna cum laude '61, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. L. N. Scott.

Edward Reese Paulson, Rhinelander,
Wis.

B.S. '59, Northern Michigan University. Field of Concentration: Social Work. Major Adviser: Prof. M. K. Newhouse.

Patricia Grannis Pelto, St. Paul

B.A. '50, University of New Mexico. Field of Concentration: Social Work. Major Adviser: Prof. H. C. Yesner.

Dale Miller Peterson, Moose Lake

B.A. '64, Gustavus Adolphus College. Field of Concentration: Social Work. Major Adviser: Prof. E. W. Francel.

John Harry Peterson, Duluth

B.A. '64, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. Dolph Hess.

Eugene John Poppler, St. Paul

B.A. '60, College of St. Thomas. Field of Concentration: Social Work. Major Adviser: Prof. L. F. Merl.

Elizabeth Josephine Potter, Minneapolis

B.A. cum laude '56, Macalester College. Field of Concentration: Social Work. Major Adviser: Prof. H. E. Saloshin.

James Vincent Soldin, Milaca

B.A. '50, Calvin College. Field of Concentration: Social Work. Major Adviser: Prof. E. W. Francel.

Gary McKelvey Soule, Minneapolis
B.A. '64, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

Frank James Spoden, St. Paul
B.A. '64, College of St. Thomas. Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

John William Steen, St. Peter
B.A. '57, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. E. W. Francl.

James Benjamin Stuebner, Rock Rapids, Iowa
B.A. '64, Wartburg College. Field of Concentration: Social Work. Major Adviser: Prof. M. K. Newhouse.

Richard Carl Swenson, Minneapolis
B.A. '64, Gustavus Adolphus College. Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

Helen Ann Torgelson, Fergus Falls
B.A. '55, Concordia College (Moorhead). Field of Concentration: Social Work. Major Adviser: Prof. H. E. Saloshin.

Kenneth Dalane Torno, St. Paul
B.A. '64, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. Dolph Hess.

Gregg Jerome Wahlstrom, Minneapolis
B.A. '64, Gustavus Adolphus College. Field of Concentration: Social Work. Major Adviser: Prof. Dolph Hess.

Lewis Arlan Weiner, Little Falls
B.A. *cum laude* '52, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. L. F. Merl.

Beverly Marie Welsh, Minneapolis
B.A. '64, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. L. F. Merl.

Lois Jean Yennie, Pine Island
B.A. '64, San Jose State College. Field of Concentration: Social Work. Major Adviser: Prof. H. C. Yesner.

Mary Lou Zimmerman, Minneapolis
B.A. *cum laude* '64, Gustavus Adolphus College. Field of Concentration: Social Work. Major Adviser: Prof. H. C. Yesner.

Certificate of Specialist in Education

Clem Z. Coverston, Fridley
B.S. '51, St. Cloud State College; M.S. '61, Mankato State College. Field of Concentration: Counseling. Major Adviser: Prof. D. H. Blocher.

John Frederick Cumming, Bloomington
B.S. '50, Hamline University; M.A. '58, University of Minnesota. Field of Concentration: Counseling. Major Adviser: Prof. J. D. Duker.

Doctor of Philosophy

Thomas Max Achenbach, Wethersfield, Conn.
B.A. *summa cum laude* '62, Yale University. Major: Psychology. Minor: Child Psychology. Thesis: Cue-Learning and Problem-Learning Strategies in Children. Major Adviser: Prof. H. W. Stevenson.

Glen Darrel Adams, Winnipeg, Manitoba, Canada
B.S. '59, M.S. '62, University of Alberta. Major: Fisheries and Wildlife. Minor: Forestry. Thesis: Populations and Spatial Distribution of Pocket Gophers (*Geomys B. Bursarius*). Major Adviser: Prof. J. R. Beer.

David Moore Balzer, Mountain Lake
B.A. '51, Antioch College; M.A. '58, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Influence of Selected Personal and Situational Characteristics on Shifts in Preferences for Teacher Education. Major Advisers: Profs. J. R. Curtin and C. J. Hoyt.

Nicholas Presley Barker, Lookout Mountain, Tenn.
B.A. '59, Princeton University; M.A. '61, University of Minnesota. Major: English. Minor: Latin. Thesis: John Aubrey's *Brief Lives*: A Strange Rare Way of Conserving a Corps. Major Adviser: Prof. G. W. O'Brien.

John Alton Barsness, Bozeman, Mont.
B.A. '50, William Jewell College; M.A. '51, Montana State University. Major: American Studies. Thesis: The Breaking of the Myth: A Study of Cultural Implications in the Development of the Western Novel in the Twentieth Century. Major Adviser: Prof. D. W. Noble.

Richard Norman Benson, Sioux City, Iowa

B.A. '58, Augustana College. Major: Geology. Minors: Mineral Engineering and Zoology. Thesis: Recent Radiolaria from the Gulf of California. Major Adviser: Prof. F. M. Swain.

Rodney L. Bleifuss, Minneapolis

B.Geol.E. '51, M.S. '53, University of Minnesota. Major: Geology. Minor: Metallurgical Engineering. Thesis: The Origin of the Iron Ores of Southeastern Minnesota. Major Adviser: Prof. P. K. Sims.

George William Brumbaugh, Richland, Mich.

B.A. '50, Morningside College; M.M. '51, Michigan State University. Major: Music. Minor: Art. Thesis: Presto, Adagio and Fugue. Major Adviser: Prof. Paul Fetler.

Richard William Carlson, Robbinsdale

B.S. with distinction '59, M.S. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Theoretical Studies of Plasma Boundary Space Charge Sheaths. Major Advisers: Profs. L. M. Chanin and H. J. Oskam.

Nung Won Choi, Seoul, Korea

M.D. '58, Seoul National University (Korea); M.P.H. '61, University of Minnesota. Major: Epidemiology. Minor: Microbiology. Thesis: Some Aspects of the Epidemiology of Central Nervous System Neoplasms and Their Relationships to Toxoplasma Infection. Major Adviser: Dr. L. M. Schuman.

James Earnest Criswell, Lexington, Ky.

B.S. in Agric. '47, M.S. in Agric. '48, University of Kentucky. Major: Agricultural Economics. Minor: Economics. Thesis: Insurance Strategies of West Kentucky Farmers. Major Adviser: Prof. H. R. Jensen.

Alfred Dietz, St. Paul

B.S. in Ed. '61, University of Kansas; M.S. '64, University of Minnesota. Major: Entomology. Minor: Biochemistry. Thesis: The Influence of Environmental and Nutritional Factors on Growth and Caste Determination of Female Honey Bees. Major Adviser: Prof. M. H. Haydak.

Lester Gerald Duenk, Cedar Grove, Wis.

B.A. '52, M.A. '54, Colorado State College; M.S. '62, Northern Illinois University. Major: Education. Minor: Curriculum and Instruction. Thesis: A Study of the Concurrent Validity of the Minnesota Tests of Creative Thinking, Abbr. Form VII, for Eighth Grade Industrial Arts Students. Major Adviser: Prof. Jerome Moss, Jr.

Carl Otto Enderstein, Northfield

B.A. '60, Marquette University; M.A. '62, University of Minnesota. Major: German. Minors: Linguistics and Comparative Philology. Thesis: Sozialkritik in Werken deutscher Nachkriegsautoren. Major Adviser: Prof. F. D. Hirschbach.

Fred Raymond Erisman, Longview, Tex.

B.A. '58, Rice University; M.A. '60, Duke University. Major: American Studies. Thesis: There Was A Child Who Went Forth: A Study of St. Nicholas Magazine and Selected Children's Authors, 1890-1915. Major Adviser: Prof. M. Q. Sibley.

Irwin Feller, State College, Pa.

B.B.A. magna cum laude '59, City College of New York. Major: Economics. Minor: History. Thesis: Regional Variations in the Diffusion of Innovations: The Case of the Draper Loom. Major Adviser: Prof. Jacob Schmookler.

Delmar Roy Finco, Roundup, Mont.

B.S. with distinction '57, D.V.M. '59, University of Minnesota. Major: Veterinary Medicine. Minor: Biochemistry. Thesis: Studies of Canine Leptospirosis and *Leptospira Canicola*. Major Adviser: Prof. D. G. Low.

Garland Wayne Fothergill, Stevens Point, Wis.

B.A. with honors '36, University of Texas; M.S. '48, University of Wisconsin. Major: Political Science. Minor: Sociology. Thesis: Stalinist Communism and Fascism: A Study in the Ambivalences of New Republic Liberalism. Major Adviser: Prof. M. Q. Sibley.

Charles Eugene Freidline, Fayette,
Mo.

B.A. '60, Westmont College; M.S. '63, University of Minnesota. Major: Inorganic Chemistry. Minor: Chemistry. Thesis: The Hydrolysis, Structure, and Bonding of the Aquo-Dimethyllead(IV) Cation. Major Adviser: Prof. R. S. Tobias.

Luis Cesar Lopez Frias, Concepcion
Del Oro, Mexico

Ing. Agronomo '60, University of Coahuila (Mexico); M.S. '62, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Factors Affecting Invasion of Grains and Seeds by *Aspergillus Flavus*, and Effects of the Fungus on Germination of the Seeds. Major Adviser: Prof. C. M. Christensen.

Robert Arthur Gerber, Donnelly

B.S. with distinction '60, M.S.E.E. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Afterglow Studies in Gaseous Plasmas. Major Adviser: Prof. H. J. Oskam.

Hanumanthappa Sanjeevappa
Hanumanthappa, Bangalore,
Mysore, India

B.Sc. (Agric.) '59, University of Mysore (India); M.S. '62, University of Tennessee. Major: Education. Minor: Educational Administration. Thesis: A Basis for Developing Programs of Adult Farmer Education in India. Major Adviser: Prof. M. J. Peterson.

Alan Edgar Hedin, St. Paul

B.S. with high distinction '58, M.S. '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Determination of the Neutral Composition, Density, and Temperature of the Upper Atmosphere From 120 to 200 Kilometers with Rocket-Borne Mass Spectrometers. Major Adviser: Prof. A. O. C. Nier.

Loren Anton Helberg, Newton, Iowa

B.A. '39, Cornell College; M.A. '49, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: A Method of Analyzing the Budgetary Process Based on a Study of a Small State Agency. Major Adviser: Prof. G. A. Warp.

Donald Jay Hempel, Duluth

B.A. *cum laude* '59, M.B.A. '63, University of Minnesota. Major: Business Administration. Minors: Psychology and Journalism. Thesis: An Experimental Study of the Effects of Information on Consumer Product Evaluations. Major Adviser: Prof. R. J. Holloway.

Marc Horisberger, Neuchâtel,
Switzerland

Diploma '62, University of Neuchatel (Switzerland). Major: Biochemistry. Minor: Organic Chemistry. Thesis: Part I. Synthesis of Glycosyl-Glyceritols. Part II. Study of Pseudonigeran. Major Adviser: Prof. Samuel Kirkwood.

Gerald Douglas Hursh, Lansing,
Mich.

B.A. *cum laude* '59, University of Minnesota. Major: Journalism. Minor: Sociology. Thesis: A Study of the Communication Behavior of Members of Voluntary Associations. Major Adviser: Prof. R. E. Carter.

Arthur Rinaldo Johnson, Minneapolis

D.D.S. '56, University of Minnesota. Major: Biochemistry. Minor: Dentistry. Thesis: The Relationship of Calcium and Strontium in the Mineralized Tissues of the Rat: Replacement and Exchange of These Elements *In Vivo* and *In Vitro*. Major Adviser: Dr. W. D. Armstrong.

Joe Johnson, Jr., Chicago, Ill.

B.S. '58, Tennessee State University; M.S. '63, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Purification and Specificity of an Endo-B-D-(1 \rightarrow 3)-Glucanase From *Rhizopus Arrhizus*. Major Adviser: Prof. Samuel Kirkwood.

Sally Elizabeth Jorgensen, Minneapolis

B.A. '59, Wellesley College. Major: Biochemistry. Minor: Microbiology. Thesis: Separation and Characterization of a New Deoxyribonuclease of *Escherichia Coli*. Major Adviser: Dr. J. F. Koerner.

Koteswara Rao Kadiyala, Mustabada,
India

B.Sc.(Hon.) '57, Andhra University; M.Stat. '62, Indian Statistical Institute (India). Major: Economics. Minor: Mathematics. Thesis: Regression Analysis With Autocorrelated Disturbances. Major Adviser: Prof. J. S. Chipman.

Tai Shick Kang, Seoul, Korea

B.A. '57, Seoul National University (Korea); M.B.A. '62, University of Minnesota. Major: Sociology. Minor: Business Administration. Thesis: Identity and Assimilation: The Study of a Foreign Student Colony. Major Adviser: Prof. D. A. Martindale.

Orval Guy Kerchner, LaMoille, Ill.

B.S. with honors '54, M.S. '58, University of Illinois. Major: Agricultural Economics. Minor: Economics. Thesis: Economic Comparisons of Flexible and Specialized Plants in the Minnesota Dairy Manufacturing Industry. Major Adviser: Prof. E. F. Koller.

Robert Everett Klein, San Diego, Calif.

B.A. '56, San Diego State College; M.A. '63, Cornell University. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Study of Perception Under Conditions of Conflicting Sensory Cues. Major Adviser: Prof. H. W. Stevenson.

LaVerne Mathew Krista, Eden, S.D.

B.S. '58, M.S. '60, South Dakota State College. Major: Poultry Science. Minor: Veterinary Physiology and Pharmacology. Thesis: The Influence of Diet, Hormonal Administration, and Correlation of Indirect Blood Pressure to the Incidence of Dissecting Aneurysm in the Turkey. Major Adviser: Prof. P. E. Waibel.

Satindar Kumar, New Delhi, India

B.A. '52, M.A. '56, Punjab University (India). Major: Statistics. Minor: Mathematics. Thesis: A Generalization of the Group Testing Problem. Major Adviser: Prof. Milton Sobel.

William Webster Lammers, Minneapolis

B.A. *magna cum laude* '59, M.A. '60, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Politics of Economic Decline in Northeastern Minnesota. Major Adviser: Prof. F. J. Sorauf, Jr.

Dale Lowell Lange, Granite Falls

B.S. with distinction '58, M.A. '63, University of Minnesota. Major: Education. Minor: French. Thesis: An Evaluation of Pre-Reading Instruction in Beginning French in Secondary Schools. Major Adviser: Prof. E. M. Birkmaier.

Earl Edward Lewis, River Falls, Wis.

B.S. with honors '52, Wisconsin State College (La Crosse); M.A. '54, State University of Iowa. Major: American Studies. Thesis: The Theology and Politics of Jonathan Mayhew. Major Adviser: Prof. P. L. Murphy.

Clark Holcomb Livingston, Fort Collins, Colo.

B.S. '51, M.S. '53, Colorado State University. Major: Plant Pathology. Minor: Botany. Thesis: Phenolic Compounds of Potato Tubers in Relation to Predisposition to Bacterial Soft Rot. Major Adviser: Prof. C. J. Eide.

Roger Erle Machmeier, Minneapolis

B.Ag.E. with distinction '52, M.S.Ag.E. '61, University of Minnesota. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: The Effect of Runoff Supply Rate and Duration on Runoff Time Parameters and Peak Outflow Rates. Major Adviser: Prof. Andrew Hustrulid.

Desu Manavala Mahamunulu, Ongole, India

B.A. '50, Andhra University; M.A. '53, University of Madras (India). Major: Statistics. Minor: Mathematics. Thesis: On a Generalized Goal in Fixed-Sample Ranking and Selection Problems. Major Adviser: Prof. Milton Sobel.

William Michael Marchand, St. Paul

B.S. '54, Bemidji State College; M.A. '60, University of Minnesota. Major: Speech and Theater Arts. Minor: English. Thesis: The Changing Role of the Medical Doctor in Selected Plays in American Drama. Major Adviser: Prof. A. H. Ballet.

Melvyn Leonard Meer, New York, N.Y.

B.A. '60, Brooklyn College. Major: Economics. Minor: Supporting Program. Thesis: Securities, Intermediaries and Consumer Theory. Major Adviser: Prof. O. H. Brownlee.

Eugene Reuben Melander, Minneapolis

B.B.A. with distinction '53, M.A. '60, University of Minnesota. Major: Economics. Minor: Statistics. Thesis: Longer-Term Household Saving: Some Models and Their Empirical Evaluation. Major Adviser: Prof. E. S. Maynes.

Robert Lewis Melka, Minneapolis

B.S.F.S. *cum laude* '55, M.A. '58, Georgetown University. Major: History. Minor: Political Science. Thesis: The Axis and the Arab Middle East: 1930-1945. Major Adviser: Prof. H. C. Deutsch.

Garth Edward Miller, West Concord
B.S. with high distinction '60, M.S. '63, University of Minnesota. Major: Dairy Husbandry. Minor: Veterinary Physiology and Pharmacology. Thesis: Factors Affecting the Passage of Weak Organic Acids and Bases Into Bovine Milk. Major Adviser: Prof. C. L. Cole.

Jerry Keith Miller, Valley City, N.D.
B.Ch. '57, University of Minnesota; M.A. '63, University of Missouri. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: The Mechanism of Formation and Growth of Silver Bromide Particles. Major Adviser: Prof. E. J. Meehan.

Ernesto Enrique Moreno, Minneapolis
Dr. in Ped. '45, University of Havana; M.A. '64, University of Minnesota. Major: Spanish. Minors: History and Geography. Thesis: Influencia de los Sainetes de don Ramon de la Cruz en las Primeras Obras de Benito Perez Galdos. Major Adviser: Prof. W. T. Pattison.

Frank Edward Mullin, Minneapolis
B.S. with honors '62, California Institute of Technology. Major: Mathematics. Minor: Physics. Thesis: On the Regular Perturbation of the Subdominant Solution to Second Order Linear Ordinary Differential Equations with Polynomial Coefficients. Major Adviser: Prof. Yatsutaka Sibuya.

Clifford Leon Nelson, Mount Vernon, Wash.

B.S. '57, M.S. '62, Washington State University. Major: Education. Minor: Journalism. Thesis: Source and Extent of Economic Commitment to Public Vocational Education in Minnesota and Their Effect on the Nature of Training Opportunities. Major Adviser: Prof. M. J. Peterson.

Lowell Ellis Olson, St. Paul
B.S. '45, University of Illinois; M.A. '48, University of Chicago; M.S. '55, University of Minnesota. Major: Education. Minor: Library Science. Thesis: Teachers', Principals', and Librarians' Perceptions of the School Librarian's Role. Major Advisers: Profs. D. K. Berninghausen and R. E. Eckert.

Richard Clair O'Rourke, Minneapolis
B.S. '53, College of St. Thomas; M.S. '58, University of Minnesota. Major: Education. Minor: Botany. Thesis: Structure of Knowledge in Hypothesis-Formation. Major Adviser: Prof. R. H. Beck.

William George Pariseau, Kittitas, Wash.

B.S. in Min.E. '60, University of Washington. Major: Mineral Engineering. Minor: Mathematics. Thesis: The Gravity Induced Movement of Materials in Ore Passes Analyzed as a Problem in Coulomb Plasticity. Major Adviser: Prof. E. P. Pfeider.

Edgar Allen Persons, Clarissa
B.S. with distinction '63, M.A. '65, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Farmer and His Educational Investment: What Are the Relationships of This Investment to Farm Success? Major Adviser: Prof. G. I. Swanson.

Janis Priedkalns, Melbourne, Australia
B.Vet.Sc. '59, University of Sydney (Australia). Major: Veterinary Anatomy. Minor: Microbiology. Thesis: Morphological Studies of the Wall of the Bovine Ovarian Follicle and Developing Corpus Luteum. Major Adviser: Prof. A. F. Weber.

Glenn Myron Reynolds, Alexandria
B.Phys. '61, M.S. '63, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: (P,T) and (P,D) Reactions in Light Nuclei. Major Adviser: Prof. N. M. Hintz.

Alfred Larson Roe, Montevideo
B.A. magna cum laude '57, St. Olaf College; M.A. '61, University of Minnesota. Major: History. Minor: Economics. Thesis: Banking and Politics in the New Era. Major Adviser: Prof. R. C. Lochr.

Raymond Edward Rose, Canton, Ohio
B.S.Aero.E. '51, University of Kansas; M.S.Aero.E. '56, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Experimental Investigations of Instability of Supersonic Flow About Cup-Shaped Bodies. Major Advisers: Profs. H. G. Heinrich and W. C. Meecham.

James Nelson Rosse, Minneapolis
B.S. in Econ. with high distinction '61, M.A. '63, University of Minnesota. Major: Economics. Minor: Mathematics. Thesis: Daily Newspapers, Monopolistic Competition and Economics of Scale. Major Adviser: Prof. H. D. Mohring.

Donald Fieseler Scannell, Brookings, S.D.
B.A. '48, M.A. '51, State University of Iowa. Major: Journalism. Minor: Education. Thesis: Mass Media Use, Information, and Opinions Concerning Higher Education. Major Adviser: Prof. R. E. Carter, Jr.

Roger Neil Schindler, Lincoln, Neb.

B.S.Ch.E. '61, M.S. '62, University of Nebraska. Major: Chemical Engineering. Minor: Mathematics. Thesis: Questing Control of Continuous Flow Stirred Tank Reactors. Major Adviser: Prof. Rutherford Aris.

Richard Harold Schultz, St. Paul

B.S. '59, D.V.M. '61, University of Minnesota. Major: Veterinary Obstetrics and Gynecology. Minor: Biochemistry. Thesis: Some Chemical Studies of Uterine Fluids and Blood Serum in Normal Cows. Major Adviser: Prof. Raimunds Zemjanis.

Roy William Seibel, Sioux Falls, S.D.

B.A. '43, Tabor College; M.A. with honors '47, Baylor University. Major: Speech and Theater Arts. Minor: Sociology. Thesis: A Descriptive Study of the Physician's Use of Verbal Stimuli in Eliciting a Quantitative Response From the Patient in the Initial Medical Diagnostic Interview. Major Adviser: Prof. E. G. Bormann.

Sherwood Snyder III, Benton Harbor, Mich.

B.A. '57, Western Michigan University; M.S. '59, University of Oregon. Major: Speech and Theater Arts. Minor: Art. Thesis: The Toby Shows. Major Adviser: Prof. K. L. Graham.

Douglas Goldsbury Sprague, Hopkins

B.A. '55, Carleton College; M.A. '59, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: An Investigation of Reminiscence as a Measure of the Educational Motivation of High School Students. Major Adviser: Prof. W. E. Dugan.

James Benjamin Starr, St. Paul

B.S.M.E. '52, University of Southwestern Louisiana; M.S. '56, Louisiana State University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of a Cylindrical Turbulent Wall Jet. Major Adviser: Prof. E. M. Sparrow.

Lela June Stoner, Topeka, Kan.

B.Ed. cum laude '56, Washburn University; M.A. '58, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Cardiovascular Efficiency of Minnesota Women Aged 45-60 Engaged in a Moderate Exercise Program. Major Adviser: Prof. M. U. Wilson.

Jerry Lee Strohm, West Union, Ill.

B.S.Ag. '59, University of Illinois. Major: Genetics. Minor: Botany. Thesis: The Inheritance of Height, Maturity, Seed Weight, and Yield and Their Associations in Four Soybean Crosses. Major Adviser: Prof. J. W. Lambert.

John Francis Sullivan, Helena, Mont.

B.A. cum laude '55, Carroll College. Major: Physical Chemistry. Minor: Analytical Chemistry. Thesis: Studies on Cytochrome c. Major Adviser: Prof. R. W. Lumry.

Endre Mihaly Tarjan, New York, N.Y.

Diploma, '56, Eötvös Lóránd University (Hungary). Major: Biochemistry. Minor: Zoology. Thesis: Regulation of Oxygen Utilization in Isolated Mitochondria. Major Adviser: Prof. R. W. VonKorff.

Robert James Theissen, St. Paul

B.Ch. with distinction '62, University of Minnesota. Major: Organic Chemistry. Minors: Physical and Inorganic Chemistry. Thesis: Some Rearrangements of Bicyclic Organomagnesium Compounds. Major Adviser: Prof E. A. Hill.

Roberta Barbara Trieschmann, Wauwatosa, Wis.

B.S. '61, University of Wisconsin. Major: Psychology. Minor: Psychiatry. Thesis: The Relationship of Undifferentiated Handedness and Perceptual Development in Children With Reading Problems. Major Adviser: Prof. P. F. Briggs.

Elaine F. Utte, Williams, Iowa

B.A. '51, Marycrest College; M.A. '55, The Catholic University of America. Major: Education. Minor: Business Administration. Thesis: An Evaluation of the Difficulty Level of Shorthand Dictation Materials. Major Adviser: Prof. R. G. Price.

Neal Edward Vivian, Knoxville, Tenn.

B.S. '51, M.A. '52, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Economic Understanding of Distributive Education Students. Major Adviser: Prof. R. G. Price.

Thomas Harold Walz, St. Paul

B.A. *magna cum laude* '54, St. John's University (Minnesota); M.S.W. '58, St. Louis University. Major: Social Work. Minor: Public Health. Thesis: Adaptation of the North American Model of Social Work Education to Honduras—A Study of Attitude Change in Honduran Social Workers Resulting From Their Professional Education. Major Adviser: Prof. E. W. Francel.

Kei Sin Wei, Liaoning, Manchuria,
China

B.S. '59, Oklahoma State University; M.S. '61, University of Missouri. Major: Physical Chemistry. Minor: Chemical Engineering. Thesis: Reversible Photochemical Dimerization and Isomerization of Aromatic Hydrocarbons. Major Adviser: Prof. R. S. Livingston.

Kathryn Louise West, Oklahoma
City, Okla.

B.A. *summa cum laude* '46, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: MMPI and Demographic Correlates of Ulcerative Colitis. Major Adviser: Prof. S. R. Hathaway.

Jean Wilhelm, Rowayton, Conn.

B.A. '48, Smith College; M.A. '52, West Virginia University. Major: Speech and Theater Arts. Minors: English and Scandinavian. Thesis: The Dual Plane of Content as Dramaturgic Technique. Major Adviser: Prof. A. H. Ballet.

George Gordon Woodworth, Minneapolis

B.A. '62, Carleton College. Major: Statistics. Minor: Mathematics. Thesis: On the Asymptotic Theory of Tests of Independence Based on Bivariate Layer Ranks. Major Adviser: Prof. Milton Sobel.

Shang Jeong Yao, Canton, Republic
of China

Diploma '55, Taipei Institute of Technology (China); M.A. '61, University of Oregon. Major: Physical Chemistry. Minors: Mathematics and Physics. Thesis: A Study of the Infrared Absorption Band Intensities. Major Adviser: Prof. John Overend.

Thomas Alan Yungbluth, Warren, Ill.

B.S. with high honors '56, University of Illinois. Major: Genetics. Minor: Botany. Thesis: A Study of the Possible Role of Recombination Within the Self-Incompatibility Locus Resulting in Pseudo-Self-Compatibility in *Trifolium repens* L. Major Adviser: Prof. H. L. Thomas.

Doctor of Philosophy in Medicine

Clarence Powhatan Alfrey, Jr.,
Houston, Tex.

M.D. with honors '55, Baylor University. Major: Medicine. Minor: Hematology. Thesis: A Systematic Study of Autoradiographic Techniques of ³H-Thymidine Labeling of Human Bone Marrow Cells; Application to Evaluation of DNA Synthesis in Hemopoietic Disorders. Major Adviser: Dr. W. N. Tauxe.

Doctor of Philosophy in Neurology

Milton Alter, Buffalo, N.Y.

B.A. *magna cum laude* '51, M.D. '55, University of Buffalo. Major: Neurology. Minor: Genetics. Thesis: Dermatoglyphics in Mental Retardation. Major Adviser: Dr. A. B. Baker.

Doctor of Philosophy in Otolaryngology

Douglas Thane Romney Cody,
Rochester

M.D. '57, Dalhousie University. Major: Otolaryngology. Minor: Physiology. Thesis: The Liberation and Destruction of Histamine in Relation to Anaphylaxis in Rats. Major Adviser: Dr. C. F. Code.

Doctor of Philosophy in Surgery

John Elmer Woods, Rochester

B.A. '49, M.D. '55, Western Reserve University. Major: Surgery. Minor: Pathology. Thesis: Studies on Coagulation Changes During and After Extracorporeal Circulation—With Special Reference to the Effects of Heparin and Protamine. Major Adviser: Dr. J. W. Kirklin.

Doctor of Philosophy in Urology

Ali Aiman Hakim, Minneapolis

M.D. '51, Alexandria University. Major: Urology. Minor: Physiology. Thesis: Superiority of Bladders Reconstructed From Intestine Covered With Vesical Epithelium Over Those With Intestinal Epithelium. Major Adviser: Dr. C. D. Creevy.

Summary of Degrees Conferred by the University During the Academic Year 1965-66

Conferred July, August and December 1965; March 1966	3699
Conferred June 1966 (subject to completion of requirements)	4334
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Total degrees conferred 1965-66	8033*

* Includes 695 conferred at Duluth, 89 at Morris.

Academic Costume

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

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

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

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

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

(In the order of march)

General Extension Division	orange and drab
General College	crimson and white
College of Liberal Arts	white

University College	old gold and white
Institute of Technology	orange
College of Agriculture, Forestry, and Home Economics	maize
College of Education	light blue
School of Business Administration	drab
College of Pharmacy	olive
Law School	purple
College of Veterinary Medicine	gray
School of Dentistry	lilac
College of Medical Sciences	green
Graduate School	black

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



UNIVERSITY OF MINNESOTA

July Commencement, 1966

FRIDAY AFTERNOON, JULY 15, 4:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

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

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and fifteenth 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 190,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 42,000 students annually on its Minneapolis-St. Paul, Duluth, Morris, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

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

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Build-

ing to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

As it meets the needs of present students, the University must also make plans for those of the future. The 42,178 students who enrolled at the University at the beginning of the 1965-66 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. In the fall of 1965, for the first time in its history, the University instituted an admissions policy based on controlled growth of total enrollment. This change in admissions requirements held the 1965-1966 enrollment to about 42,000 students. It reflects the University's need for more teachers, more land, and more buildings. And it makes plain the University's determination to maintain the educational quality that has made it one of America's leading educational institutions.

THE 1965 LEGISLATURE granted the University \$81,300,000 for general operations and maintenance during the 1965-1967 biennium. In addition, the University received \$9,083,223 for University Hospitals; \$6,833,887 for special appropriations, including special extension and research activities; \$15,820,656 for new buildings, land, and the rehabilitation of existing buildings; and \$1,240,000 for the University of Minnesota, Morris.

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

The summary financial statement of 1964-1965 showed that the University's current income and expenditures amounted to \$128,980,874.07. Of the total received, \$12,727,274.12 came from student tuition and fees; \$17,855,486.75 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; \$1,496,963.54 from intercollegiate athletics; \$19,470,448.11 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 \$8,260,416.03 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$26,190,690.49 came from the federal government for instruction, research, and agricultural extension. The state provided \$42,979,595.03 or 31.4 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$11,003,913.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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 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 Mrs. James Whipkey, Graduate Student, University Carillonneur. Admission to the July Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

ORGAN PRELUDE: From 3:30 to 4:00 p.m., Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 4:00 p.m., Professor John A. Buttrick, 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 Buttrick 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 on the table to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

Festival March - - - - - Handel

ON THE STAGE: The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are Marshal Buttrick; Professor Ambert B. Hall, D.D.S., School of Dentistry, Marshal; Assistant to the Recorder Charles F. Liesenfelt, M.S., Admissions and Records; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Major Linton C. Beasley, U.S.A., Assistant Professor of Military Science; Dean Robert E. Summers, M.E., Admissions and Records; Acting Dean Frank Verbrugge, Ph.D., Institute of Technology; Associate Dean Nicholas A. Glaskowsky, Ph.D., School of Business Administration; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; Associate Dean H. Mead Cavert, M.D., College of Medical Sciences; Dean Willard L. Thompson, Ph.D., Summer Session; Vice President Laurence R. Lunden, LL.D., Business Administration; Sir Eric Ashby, D.Sc., Master of Clare College, University of Cambridge, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President William G. Shepherd, Ph.D., Academic Administration; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; The Reverend Roy C. Lepak, M.A., Newman Center Chaplain and Adviser to Catholic students and staff members on the St. Paul Campus; Dean Bryce Crawford, Jr., Ph.D., Graduate School; Assistant Dean Mellor R. Holland, D.D.S., School of Dentistry; Dean Robert J. Keller, Ph.D., College of Education; Acting Dean Alfred L. Vaughan, Ph.D., University College; Captain John J. Denice, U.S.A.F., Assistant Professor of Aerospace Studies; Associate Professor Frank T. Benson,

Ph.D., General College; Professor Roxana R. Ford, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Professor Edwin L. Haislet, Ed.D., Director of Alumni Relations; Professor William F. Hueg, Ph.D., Institute of Agriculture, Marshal; Associate Professor Forrest J. Harris, M.A., General College, Marshal.

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

THE NATIONAL ANTHEM: The entire audience and Professor Schuessler, 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: Father Lepak.

SPEAKING FOR THE UNIVERSITY: President Wilson.

COMMENCEMENT ADDRESS: Sir Eric, "The Perils of Graduation."

CONFERRING OF ROTC CERTIFICATES: Vice President Shepherd will introduce Major Beasley and Captain Denice who will present to President Wilson the candidates for commissions in their respective branches of the Armed Services. The certificates of ROTC completion will be authorized by President Wilson.

PRESENTATION OF CANDIDATES: Vice President Shepherd will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction, Professor Benson for the General College; Associate Dean Turnbull for the College of Liberal Arts; Acting Dean Vaughan for the University College; Acting Dean Verbrugge for the Institute of Technology; Professor Ford for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Glaskowsky for the School of Business Administration; Dean Keller for the College of Education; Assistant Dean Holland for the School of Dentistry; Associate Dean Cavert for the College of Medical Sciences; Dean Crawford for the Graduate School.

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

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

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: President Wilson 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, soloist.

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

POSTLUDE: Professor Fleischer, organist.

Trumpet Voluntary - - - - - Purcell

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, Medical Service Corps

Joseph M. Kaufert, St. Paul

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Thomas C. Fleckten, Minneapolis
Daniel R. Peterson, Hopkins

Dennis W. Schulstad, Minneapolis
Richard S. Van Eps, Minneapolis

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

Judith Alfonso, St. Paul	Eddie Maynard Midthun, Minneapolis
Dwight Joseph Brown, Minneapolis	James Warren Morford, Edina
Arloyne Marie Carl, Pine City	Mary Jo Prokosch, St. Paul
Janet Cecko, Minneapolis	Shirley Sara Schulz, St. Paul
Philip William Daniel, Minneapolis	Neil Richard Spieker, Hopkins
Joseph James Dzubak, Minneapolis	Howard Edward Teague, Minneapolis
Dalc Herbert Erickson, Minneapolis	Paula Johann Warnken, Minneapolis
Charles Geoffrey Haberle, Edina	Donald Charles Werdick, Bloomington
Roger Allen Heckmann, St. Paul	Richard Wilfred White, Hutchinson
Alvin Charles Ingalls, Cambridge	Gerald Timothy Williams, Minneapolis
Rodney Arnold Johnson, Minneapolis	John Alexander Wojciak, Fridley
Harold Vern Larson, Minneapolis	
James Roland Lindstrom, Richfield	

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Odette Jeanne Bruneau, Minneapolis	Michele Ann Murnane, Bloomington
Barbara Ann Haas, Richfield	Judith Joy Rivkin, St. Paul

Bachelor of Arts

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

Richard Bruce Allyn, Minneapolis	Richard Glenn Bremer, North Loup, Neb., SUMMA CUM LAUDE, History
Brian Edward Anderson, Minneapolis	Richard Warren Butler, Minneapolis
Christine Elizabeth Bengtson, Minneapolis	Dan Carl Carlson, Edina
John Carlton Berg, Minneapolis	Karen Lee Carlson, Lake Lillian
Geraldine Marie Booren, Hibbing	Pauline Ann Carlson, Minneapolis
Jerry Arthur Boschee, Golden Valley	Blair Charnley, Minneapolis

Jeffrey John Cheyne, South St. Paul
 Mary Marcrum Christiansen, Minneapolis
 Leslie Ann Dock, Duluth
 Robert Russell Dougherty, Owatonna
 Roger Morris Dullum, Minneapolis
 Richard Barry Edberg, Minneapolis
 Dianne Paulette Siverhus Enga, Hendricks
 John Frederick Englund, Edina
 John Eldon Erickson, Minneapolis
 Dennis Howard Frisell, Minneapolis
 James Gorden Fritzell, Minneapolis, CUM LAUDE, Journalism
 Roger Owen Garis, Minneapolis
 Sylvia Diane Gerard, Minneapolis
 Kari Ann Sandven Gifford, Minneapolis
 Kent Phillip Gormley, Prior Lake
 John George Grabowski, Minneapolis
 Jerome Maynard Grein, Windom
 Warren Arthur Hanson, Benson
 Mary Cecilia Heinz, St. Paul
 William Anton Heiting, Winona
 Genevieve Catherine Holtz, Morning-side
 Ann Kathryn Hruska, Fremont, Neb.
 Carole Ann Johnson, St. Paul
 Donna Joan Johnson, Minneapolis
 Theodore Arnold Johnson, Jr., St. Paul
 Joseph Mossman Kaufert, St. Paul, CUM LAUDE, Political Science
 Susan Rae Kennedy, Duluth
 Wilma Kathleen Kennedy, Antigo, Wis., CUM LAUDE, American Studies
 Henry Michael Keys, St. Paul, CUM LAUDE, without departmental designation
 Sharon Lee Chodos Klein, Minneapolis, SUMMA CUM LAUDE, Sociology
 Hans Harald Knoop, St. Paul
 Paul Conrad Knox, Rhinelander, Wis.
 James Henry Kollen, Minneapolis
 Kenneth Lee Koster, Edgerton
 Barbara Margaret Olson Kvernes, St. Paul
 Carl Renart Larson, Ely
 Donald Ralph Larson, Bloomington
 Jean Margit Lembke, St. Paul
 Joseph Paul Leverone, Minneapolis
 Robert Ordemann LiaBraaten, Minneapolis
 Dean Michael Lopata, Minneapolis
 Lance Leslie Martinson, Minneapolis
 Sheila Elizabeth McGowan, St. Paul
 Diane Kathleen Michels, Minneapolis
 Inese Neiburgs, Minneapolis
 Elaine Margaret Neils, St. Paul, SUMMA CUM LAUDE, Geography
 Carol Johnson Nelson, St. Paul
 Peter Franklin Niemczyk, St. Paul
 Richard Michael Nolan, Brainerd
 Thomas Rodney Ogren, Edina
 Steven Arnold Olson, Minneapolis
 Barbara Ann Dougherty Orndorf, St. Paul
 Donald Elmer Pankonin, Jeffers
 Joy Lee Paulson, St. Paul
 Larry Edwin Peterson, Pine City
 Steven Laurie Peterson, Minneapolis
 John Douglas Quinn, St. Louis Park
 Barbara Ann Rising Roalson, Minneapolis
 James Michael Rosenbaum, St. Paul
 Bette Lou Runck, Fairfax
 Sharon Carlene Odmark Rusten, Wayzata
 Jill Elizabeth Schlukebier, West St. Paul
 Dennis Wayne Schulstad, A.L.A., Minneapolis
 Laurie Ann Schultz, B.S., St. Paul, SUMMA CUM LAUDE, Speech
 Paul Kent Seekon, Minneapolis
 Mary Pamela Shaw, Minneapolis
 Marianne Francis Minka Shura, Atlanta, Ga.
 Peter Wasserman Sipkins, St. Louis Park
 Susan Hellerud Standen, Milltown, Wis.
 Charles Byron Stemple, St. Paul
 Ryan Everett Stenzel, Alexandria
 Susan Jean Singer Stephan, Minneapolis
 Bernadine Louise Stevenson, St. Paul
 Samuel Bernard Stinson, St. Paul
 James Ralph Stirratt, Minneapolis

Diana Barbara Poch Suslak, New York
City, N.Y.
Frank Louis Tekautz, Jr., A.A.,
Chisholm
Robert Warren Tomlinson, Jr.,
Excelsior
Steven Wayne Townsend, A.L.A.,
Minneapolis
Thomas Albert Trojack, St. Paul
Robert Lind Utne, Jr., St. Paul
Anthony Gustave Vincent, Ottawa,
Ontario, Canada

Darrell Eugene Weber, South St. Paul
Gail Blumberg Weinberg, Milwaukee,
Wis.
James Daniel Weyland, A.A., Minne-
apolis
Raymond Leo Wiesner, St. Paul
Robert Dale Wodke, West St. Paul
Catherine Marie Wojcik, Wayzata
Agnes Lelia Daly Wolf, A.L.A., Min-
neapolis
Steven Leigh Wright, Hopkins
Gary Lynn Zehnder, Faribault

UNIVERSITY COLLEGE

Bachelor of Arts

Patricia Ann Field, Edina

Jennifer Jane Tate, St. Paul

INSTITUTE OF TECHNOLOGY

Certificate in Science

Warren Jack Luckow, Fairmont

Bachelor of Aeronautical Engineering

Donovan Willis Bulen, Benson
David Charles Defferding, Black
Creek, Wis.

Kenneth Raymond James, Chisholm
*Terence Henry Kriha, St. Paul, WITH
DISTINCTION*

Bachelor of Architecture

Gerald Earl Allan, Minneapolis

Bachelor of Chemical Engineering

Thomas Keith Thompson, Minot,
N.D.

David Dean Wommack, Virginia

Bachelor of Chemistry

Adrian Jay DeBoom, Avoca
Morris Mauritis, St. Paul

*Karen Springer McMartin, Madelia,
WITH HIGH DISTINCTION*
Donald Robert Peckels, Virginia

Bachelor of Civil Engineering

Carl Joseph Jullie, Robbinsdale

James Charles Ronning, Boyd

Bachelor of Electrical Engineering

Laurence Phillip LePage, St. Paul
Charles Arden Van Horssen, Edina

Dennis Gordon Wold, International
Falls

Bachelor of Mechanical Engineering

*Carl Chris Anderson, Duluth, WITH
DISTINCTION*
Charles Leon Dalseide, Fergus Falls
*Michael Edward Keyes, Richfield,
WITH DISTINCTION*
Bruce Douglas Peters, Red Wing
Gerald Roger Pierson, Richfield

*Dean Royal Rask, Graceville, WITH
HIGH DISTINCTION*
Mohammad Hossein Sadeghi, Tehran,
Iran
Wayne Gust Savola, Duluth
*Jeffrey Donald Swanson, Falcon
Heights, WITH DISTINCTION*

Bachelor of Physics

Kent Mitchell Smith, Minneapolis

Bachelor of Science in Geology

Gordon Leonard Nelson, Minneapolis

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

Bachelor of Science

Janet Louise Brandt, Roseau, Home
Economics
Steven Peter Christianson, Hendricks,
Forestry
Elizabeth Dake Church, St. Paul,
Agriculture
Norman Ronald Flagstad, Roseau,
Agriculture
Janice Eileen Fraser, Minneapolis,
Home Economics
Sally Jacquelyn Gilb, Walnut Grove,
Home Economics
Dennis Owen Hanson, St. Paul,
Agriculture

*John Richard Jungck, White Bear
Lake, Agriculture, WITH HIGH
DISTINCTION*
Elaine Carol Karstad, Nicollet, Home
Economics
Lois Ann Nelson, Randolph, Home
Economics
Roberta Marie Hanning Sandberg,
Hopkins, Home Economics
Dale A. Sauer, Minneapolis, Agricul-
ture
Ann E. Harrison Schaller, Edina,
Home Economics
Paul Bryan Stegmeir, Mahtomedi,
Forestry

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Gerald Andrew Arens, Loretto
John Wesley Carlson, Edina
Serene Mary Clark, Wayzata

William Joseph Donahue, Minne-
apolis
James Andrew Groos, Albert Lea

Robert Milton Haraldson, Jasper
 James Oliver Harvieux, Minneapolis
 Dale Charles Haskin, Minneapolis
Stephen Douglas Higgins, Albert Lea,
 WITH DISTINCTION
 Richard James Hinds, Minneapolis
 Arthur Louis Johnsen, Wayzata
 William Phillip Kolb, Rochester
 Thomas Ferdinand Lanford, Jr.,
 Minneapolis
 Paul Jeffrey Lillemo, Watertown
 James Edwin Moore, Minneapolis
 William Franklin Munson, Jr., Min-
 neapolis

Robert Wayne Peterson, Hutchinson
 Thomas Louis Ployhart, A.A., Austin
 Daniel Burdette Roberts, Chisholm
 Bruce Robin Russell, Redwood Falls
 Dennis Allen Schultek, West St. Paul
 Steven Jeffrey Seiler, Duluth
 Jerome Stanley Sienko, Minneapolis
 Richard Emil Starck, Minneapolis
 David Michael Stearns, Minneapolis
 John Stanley Tomasko, Minneapolis
*Leo Lawrence Williams, New Rich-
 mond, Wis.,* WITH DISTINCTION

Bachelor of Science in Economics

Brian Patrick Bennett, Edina
 Charles Lloyd Hawes, Minneapolis
 Dean Allen Jacobsen, Hutchinson

George Herbert Kielkopf, St. Paul
 William Bruce Schaller, Richfield

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

Bachelor of Agricultural Business Administration

Kieth Julian Eilertson, Kiester

John Harland Sathre, St. Paul

COLLEGE OF EDUCATION

Bachelor of Science

Barbara Jean Anderson, Minneapolis
 Maurice Harold Anderson, Aitkin
Helen Therese Berg, Minneapolis,
 WITH DISTINCTION
 Bruce Gregory Berthe, St. Louis Park
Sharon Kay Bulin, Albuquerque,
 N.M., WITH DISTINCTION
Michael Loren Cooley, Minneapolis,
 WITH DISTINCTION
 William James Cutts, Albert Lea
 James Alden Dahl, B.A., Edina
 Charles Wesley Dayton, Montevideo
 Anne R. Doak Desmond, Minneapolis
Evelyn Ellingson Fahsl, St. Paul,
 WITH DISTINCTION

Arleen Agnes Fast, Windom, WITH
 DISTINCTION
 Loma Siders Fischer, Bloomington
 Ingrid Wichmann Gehlhoff, Minne-
 apolis
 Nancy Lee Geiger, Minneapolis
 Louise Esther Glaser, A.A., B.A.,
 Montrose, Pa.
 Ione Beverly Haller, Minneapolis
 Richard Albert Hammond, Anoka
 Alice Jane Wick Herrington, New
 Brighton
 Wayne James Hess, Milaca
 William James Hocking, South St.
 Paul

William Haughey James, Anoka
 Rosemary Kathryn Jewell, Minneapolis
 JoAnne Dorothea Johnson, Minneapolis
 Theodore Arnold Johnson, Jr., St. Paul
 Lola Alvord Kanneman, Minneapolis
 Virginia Kay King, Bloomington
 Marlys Ann Kramer, Hector
 Fred Lavern Kunze, Montevideo
 Karen Ruth Hautala Lake, Brainerd,
 WITH DISTINCTION
 Judith Carol Lange, Robbinsdale
 Susan Kay Larson, St. Paul, WITH
 DISTINCTION
 Susan Blytt Lindholm, Minneapolis
 Norene Katherine Lindsay, Forest
 Park, Ill.
 William Gust Lindstrom, Orleans
 Kathryn Ann Malmgren, St. Paul,
 WITH DISTINCTION
 Barry Keith Mathias, White Bear Lake
 Marie Barnitz Matison, A.A., Austin
 John Andrew McEachron, B.A.,
 Minneapolis
 Mary Ellen Monson, Minneapolis
 Myrna Elaine Nelson, B.A., Marshall-
 town, Iowa
 Catherine Delores Newburg, Minne-
 apolis
 Marguerite Ann Nolan, B.A., Minne-
 apolis
 Melvin LeRoy Northway, Minne-
 apolis
 Frederick Clarence Olson, B.A.,
 International Falls
 Carolyn Louise Pearson, Minneapolis
 Pierre Elmo Pearson, Anoka

Gerald William Peikert, Rockford
 Steven Barry Permoth, A.L.A., St.
 Paul, WITH HIGH DISTINCTION
 Roxy James Pestello, Minneapolis
 Richard Alan Peterson, Bloomington
 JoAnn Gossler Pierson, Minneapolis
 Stephanie June Crow Podulke, Minne-
 apolis
 Merle John Louie Priebe, New
 Brighton
 Thomas Urban Ricker, South St. Paul
 Evon Lillian Rossow, Minneapolis,
 WITH DISTINCTION
 Sibylla Marie Rouleau, St. Paul
 Steven Jon Schad, Minneapolis
 Pamela Schmidt, Minneapolis
 Lillian Ruth Schubert, Stillwater,
 WITH HIGH DISTINCTION
 Faye Albrecht Selck, Hutchinson,
 WITH HIGH DISTINCTION
 Florence Kathryn Aarhus Shroyer,
 Minnetonka
 Joyce Laumbach Siedare, Minneapolis
 Sharon Lenore Stark, Mound
 Maxine Statland, St. Paul
 Maryadele Daisy Strand, Anoka
 Linda Drogue Strothman, St. Louis
 Park, WITH DISTINCTION
 Georgan Elaine Hellman Swartz,
 Minneapolis
 Sally Anne Thomas, Wells
 Jennifer Land Weinberg, A.A., Min-
 neapolis
 Thomas Henry Wentz, St. Paul, WITH
 DISTINCTION
 Merle Lynn White, A.A., St. Louis
 Park
 Corinne Natalie Levy Wolfson, A.A.,
 St. Paul

Master of Education

Joseph F. Casale, Jr., B.S., Turtle
 Creek, Pa.
 Ronald George Hakanson, B.S., South
 St. Paul
 Dennis Ross Kunkel, B.S., Olton,
 Tex.
 Karen Springer McMartin, Madelia

Grace Kornmann Terry, B.S.,
 Bloomington
 Peter Alvin Van Bockel, B.S.,
 Fairmont
 James Herbert Vandergeest, B.S.,
 Jamestown, N.D.

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

Bachelor of Science

Barbara Jean Baldwin, Minneapolis,
Home Economics Education
Joyce Palmquist Halverson, St. Paul,
Home Economics Education

Jay Lynn Jensen, A.A., Oakland,
Agricultural Education

SCHOOL OF DENTISTRY

Bachelor of Science

Robert John Spencer, Brooklyn Center

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

*Laura Lee L. Budde, St. Paul, Medical Technology, WITH DISTINCTION**

GRADUATE SCHOOL

Master of Architecture

Robert Wright Brantingham,
Winona, Ohio

B.Arch. '63, Ohio State University. Field of
Concentration: Architecture. Major Adviser:
Prof. W. K. Vivrett.

Master of Arts

Ronald Francis Ablor, St. Paul
B.A. '63, University of Minnesota. Field of
Concentration: Geography. Major Adviser:
Prof. F. E. Lukerman.

Nancy Ellen Almquist, Chicago, Ill.
B.S. with high distinction '61, University of
Minnesota. Field of Concentration: Library
Science. Major Adviser: Prof. Frederick Weze-
man.

* These degrees are conferred subject to the completion of practical work prior to December 17, 1966.

Bertin Walter Anderson, Luverne

B.S. '62, Mankato State College. Major: Zoology. Minor: Botany. Thesis: A Morphological Analysis of a Large Sample of Lesser Scaup (*Aythya affinis*) and Ring-Necks (*Aythya Colaris*). Major Adviser: Prof. D. W. Warner.

Willard Fee Bailey, Jr., St. Paul

B.A. *cum laude* '63, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: The Mental Health Attitudes of Youth. Major Adviser: Prof. A. M. Rose.

Nicholas Otto Bartsch, Minneapolis

B.A. '64, University of Minnesota. Field of Concentration: International Relations. Major Adviser: Prof. H. C. Deutsch.

David Gary Bergquist, Minneapolis

B.S. with distinction '62, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. D. A. Johnson.

Ragnhild Aukland Bjelke, Oslo,
Norway

B.A. '65, University of Minnesota. Field of Concentration: Art. Major Adviser: Prof. Melvin Waldfogel.

Merlyn Phillip Blonde, Shawano, Wis.

B.S. '58, Wisconsin State University (Platteville). Field of Concentration: Agricultural Education. Major Adviser: Prof. M. J. Peterson.

John Thomas Booker, Downingtown,
Pa.

B.A. '64, Dartmouth College. Field of Concentration: French. Major Adviser: Prof. A. A. Renaud.

Monica Murphy Bossenmaier, Iron
River, Mich.

B.S. with distinction '51, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. E. Eckert.

Isabel Mildred Breslin, New Town,
N.D.

B.S. '57, Minot State Teachers College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. N. Odland.

Barbara Carol Bruce, St. Paul

B.S. with distinction '64, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. F. H. Wood.

Gary Ross Callister, Windom

B.B.A. '56, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. W. G. Meyer.

James Yi-Hung Chan, Miaoli, Taiwan

B.Ed. '61, Taiwan Normal University (China); M.Ed. '63, National Chengchi University (China). Field of Concentration: Educational Psychology. Major Adviser: Prof. D. G. MacEachern.

Horace Reed Chope, Wayzata

B.A. '54, The Principia College of Liberal Arts. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Ann Miriam Close, St. Paul

B.A. *magna cum laude* '62, University of Minnesota. Field of Concentration: German. Major Adviser: Prof. G. H. Weiss.

Richard George Cottrell, Coon Rapids

B.B.A. '55, B.S. '63, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. W. G. Meyer.

Loren William Crabtree, Ellendale,
N.D.

B.A. *summa cum laude* '61, University of Minnesota. Major: Area Studies. Thesis: Chinese Guilds and Trade Unionism: A Case Study in the Impact of the West Upon a Traditional Society. Major Adviser: Prof. Romeyn Taylor.

Bonaventure Maria Crowley, Louisville, Ky.

M.A. '47, St. Bonaventure University. Field of Concentration: Art. Major Adviser: Prof. D. R. Torbert.

Robert Otto Dahl, Minneapolis

B.A. '62, University of Minnesota. Field of Concentration: Spanish. Major Adviser: Prof. R. O. Floripe.

Johannes Upton Dahle, Minneapolis

B.S. with distinction '56, University of Minnesota. Field of Concentration: Music Education. Major Adviser: Prof. A. F. Caswell.

Sister St. Joan Delmore, St. Paul

B.A. '43, B.A. '51, College of St. Catherine. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

Carl Julian Ekberg, St. Paul

B.A. '64, University of Minnesota. Field of Concentration: History. Major Adviser: Prof. J. B. Wolf.

David Myrland Flugstad, Bloomington

B.S. '54, University of Minnesota. Field of Concentration: Industrial Education. Major Adviser: Prof. W. A. Kavanaugh.

Edith Fritscher Fraser, Minneapolis

B.S. '49, Winona State Teachers College. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.

Kent Morris Froseth, East Grand Forks

B.A. '58, Concordia College. Field of Concentration: Music. Major Adviser: Prof. Paul Fetler.

Ralph Michael Fuhrmann, Chanhassen

B.A. '59, College of St. Thomas. Field of Concentration: Library Science. Major Adviser: Prof. D. K. Berninghausen.

Avis Marie Gabrielson, Lindstrom

B.S. '58, University of Minnesota. Field of Concentration: Home Economics Education. Major Adviser: Prof. R. R. Ford.

Ronald William Garrett, Floodwood

B.S. '61, University of Minnesota. Field of Concentration: Geography. Major Adviser: Prof. W. J. Barrett.

David Sanderson George, Minneapolis

B.A. '64, University of Minnesota. Field of Concentration: Spanish. Major Adviser: Prof. R. O. Floripe.

Ernest Clark Giesecke, Columbia Heights

B.A. '49, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. R. E. Wilk.

Philip Lyman Gustafson, Minneapolis

B.S. '59, University of Minnesota. Field of Concentration: Physical Education. Major Adviser: Prof. R. E. McAdam.

Alice Verlander Hall, Richmond, Va.

B.A. '62, Westhampton College. Field of Concentration: Economics. Major Adviser: Prof. J. H. Kareken.

Darlene Esther Hamilton, White Bear Lake

B.A. '65, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. Frederick Wezeman.

Alfred Arthur Hanner, St. Paul

B.S. '49, St. Cloud State Teachers College. Field of Concentration: Educational Administration. Major Adviser: Prof. S. H. Popper.

Betty L. Heidelberg, Minneapolis

B.A. *magna cum laude* '64, University of Minnesota. Field of Concentration: French. Major Adviser: Prof. A. A. Renaud.

Neil Anthony Hoffmann, New York, N.Y.

B.S. '64, Emerson College. Field of Concentration: Speech Pathology and Audiology. Major Adviser: Prof. E. H. Henrikson.

Marilyn L. Holtze, Minnetonka

B.A. '65, University of Minnesota. Major: International Relations. Thesis: The Chilean Point of View Regarding the Latin American Free Trade Association. Major Adviser: Prof. W. D. Beatty.

Mary Benton Hummel, Blacksburg, Va.

B.A. '63, Westhampton College. Field of Concentration: Classical Civilization. Major Adviser: Prof. R. A. Swanson.

Kristen Ellen Iversen, Fort Worth, Tex.

B.A. '63, University of Minnesota. Field of Concentration: Zoology. Major Adviser: Prof. D. J. Merrell.

David Wentworth Johnson, Minneapolis

B.A. '64, St. Cloud State College. Field of Concentration: History. Major Adviser: Prof. T. G. Stavrou.

Karen Lamb Johnson, Minnetonka

B.S.El.Ed. '57, Macalester College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. G. L. Bond.

Lee Richard Johnson, St. Paul

B.A. '64, University of Minnesota. Field of Concentration: History. Major Adviser: Prof. D. W. Noble.

Bernard Louis Karon, St. Paul

B.A. '64, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. W. C. Simonton.

Shirley Frances Krogmeier, Amherst, Colo.

B.A. '54, University of Colorado. Field of Concentration: German. Major Adviser: Prof. Herman Ramras.

Janice Marie Ladendorf, Minneapolis

B.A. *magna cum laude* '63, University of Minnesota. Major: Library Science. Minor: Political Science. Thesis: The Indian Mutiny, 1857-58, An Annotated Bibliography of European Language Materials. Major Adviser: Prof. N. J. Freeman.

Charles Urban Larson, Minneapolis

B.S. '62, University of Minnesota. Major: Speech and Theatre Arts. Minor: English. Thesis: Assigned and Assumed Role-Playing in Some of the Plays of August Strindberg. Major Adviser: Prof. D. W. Thompson.

Raymond Henry Larson, Hector

B.A. *cum laude* '61, University of Minnesota. Major: German. Minor: Philology. Thesis: Character Relationships in "Der Mann von Funzig Jahren." Major Adviser: Prof. W. F. Taraba.

Merrill Joe Lessley, Salt Lake City, Utah

B.F.A. '64, University of Utah. Field of Concentration: Speech and Theatre Arts. Major Adviser: Prof. W. J. Josal.

Robert Alan Lewis, St. Paul

B.A. '53, University of Wisconsin (Madison). Major: Sociology. Minor: Psychology. Thesis: Empathy and Interpersonal Perception in Dating-Pair Relationships. Major Adviser: Prof. A. L. Johnson.

Margery Cunningham Macoubrie, Minneapolis

B.A. *summa cum laude* '63, University of Minnesota. Field of Concentration: French. Major Adviser: Prof. A. A. Renaud.

Francisco Fernández Mateo, Santiago, Chile

Certificate '63, University of Chile. Field of Concentration: Sociology. Major Adviser: Prof. R. G. Francis.

Cecelia Wattles McKeig, Minneapolis

B.A. '61, College of St. Catherine. Field of Concentration: History. Major Adviser: Prof. O. P. Pflanze.

Donald Bruce McKeon, Hilltop

B.S. '59, Boston College. Field of Concentration: French. Major Adviser: Prof. H. F. Williams.

Lynn Tessari Metcalf, St. Cloud

B.A. *cum laude* '63, Carleton College. Field of Concentration: History. Major Adviser: Prof. J. B. Wolf.

Carlo Joseph Minnetti, Virginia

B.S. '64, University of Minnesota. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

Juergen G. Mudrow, Ogden, Utah

B.S. '63, Utah State University. Field of Concentration: German. Major Adviser: Prof. G. H. Weiss.

Frank Clare Neumann, St. Paul

B.A. '64, Hamline University. Field of Concentration: History. Major Adviser: Prof. R. C. Loehr.

Robert Lewis Norris, Livingston, N.J.

B.A. '64, Baldwin-Wallace College. Field of Concentration: History. Major Adviser: R. E. Giesey.

John Patrick Oberstar, Bloomington

B.S. '58, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. C. H. Boeck.

John Phillip Oldendorf, Minneapolis

B.A. '62, Cornell University. Field of Concentration: Political Science. Major Adviser: Prof. J. E. Turner.

James Lee O'Leary, Ashland, Wis.

B.S. Bus. Admin. '54, Marquette University. Field of Concentration: Industrial Relations. Major Adviser: Prof. T. G. Mahoney.

Norma Jean Olson, Excelsior

Bach. of Sc. in Commerce '52, State University of Iowa (Iowa City). Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. C. Price.

Karlis L. Ozolins, Minneapolis

B.A. '51, Augsburg College; M.A. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. E. Eckert.

Dennis Frank Paulaha, Minneapolis

B.S. in Econ. '63, University of Minnesota. Field of Concentration: Economics. Major Adviser: Prof. A. O. Krueger.

Jeffrey Gordon Peterson, Minneapolis

B.A. '63, Augsburg College. Field of Concentration: International Relations. Major Adviser: Prof. R. E. Riggs.

Carol Faith Powell, Montreat, N.C.

B.A. '60, King College. Field of Concentration: Linguistics and Comparative Philology. Major Adviser: Prof. H. F. Williams.

Evelyn Morris Radford, Minneapolis

B.S. with high distinction '57, University of Minnesota. Field of Concentration: American Studies. Major Adviser: Prof. J. J. Kwiat.

Michael Radner, Chicago, Ill.

B.A. '60, Carleton College. Major: Philosophy. Minor: Mathematics. Thesis: A Historical-Philosophical Study of the Theories of the Zeeman Effect. Major Adviser: Prof. G. E. Maxwell.

Mary Ann Richter, Wadena

B.A. '64, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. W. C. Simonton.

Margaret Ann Rosenthal, Denver, Colo.

B.A. with distinction '64, University of Colorado. Field of Concentration: History. Major Adviser: Prof. T. G. Stavrou.

Delores Mae Rotramel, Minneapolis

B.S. with distinction '55, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

Kathryn Marie Sederberg, Minneapolis

B.A. *magna cum laude* '63, University of Minnesota. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Gerald Lorne Sicard, Duluth

B.A. '52, B.S. '64, University of Minnesota. Field of Concentration: Sociology. Major Adviser: Prof. A. L. Johnson.

Jonathan Borden Sisson, Lexington, Mass.

B.A. '63, Harvard College. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

Dennis Nelson Skinner, St. Louis Park

B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. N. Odland.

Charles Wayne Stewart, River Falls, Wis.

B.S. '61, Wisconsin State College (River Falls). Field of Concentration: Educational Psychology. Major Adviser: Prof. T. W. Clymer.

Carole Kazmierski Strahan, Pittsburg, Kan.

B.A. '63, Kansas State College. Field of Concentration: Psychology. Major Adviser: Prof. J. N. Butcher.

Jeffrey Thorkelson, Minneapolis

B.A. '62, Carleton College. Field of Concentration: Zoology. Major Adviser: Prof. Magnus Olson.

David Harold Thorstad, Thief River Falls

B.A. *magna cum laude*, University of Minnesota. Field of Concentration: French. Major Adviser: Prof. A. A. Renaud.

Jeanne Lucy Tiedeman, Livonia, Mich.

B.A.Ed. '63, University of Michigan. Field of Concentration: Educational Psychology. Major Adviser: Prof. F. B. Wilderson.

Dorothy Mae Waddingham, Meservey, Iowa

B.A. *magna cum laude* '64, Westmar College. Field of Concentration: Library Science. Major Adviser: Prof. Yvonne Van der Boom.

Margaret Richter Wolfe, Minneapolis

B.A. '52, College of St. Catherine. Major: Library Science. Minor: Sociology. Thesis: An Information Retrieval System for Commercial Research Reports: Design of a Permuted Title Coordinate Index. Major Adviser: Prof. W. C. Simonton.

Judith Dawn Workman, Howard Lake

B.A. '64, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. Frederick Wezeman.

Sandra Lee Youngdahl, Ellendale

B.A. '64, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. Frederick Wezeman.

Master of Arts in Public Administration

Paul Franklin Cummings, Minneapolis

B.M.E. '40, University of Minnesota. Major: Public Administration. Thesis: An Analysis of Factors Entering into Decisions for Reconstruction of Minnesota State Hospitals at Fergus Falls and Rochester. Major Adviser: Prof. G. A. Warp.

Eugene Robert Kersey, Minneapolis

B.A. '63, Dartmouth College. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Osama Abdul-Rahman Osman, Medina, Saudi Arabia

B. of Comm. '63, King Saud University (India). Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Ronald Keith Peterson, Arlington, Va.

B.A. '64, University of Minnesota. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Ahmed Ahmed Sakr, Cairo, United Arab Republic

B.Com. '60, Ein-Shams University (Egypt). Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Joan K. Suarez, St. Louis, Mo.

B.A. '59, University of Minnesota. Major: Public Administration. Thesis: Study of a City Central Body: Collective Bargaining Activities of the Minneapolis Central Labor Union, A.F.L., 1946-1957. Major Adviser: Prof. H. G. Heneman.

Master of Business Administration

John Hanna Berryhill, Wayzata

B.S.Min.Eng. '55, University of Wisconsin. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Franklin Richard Hoeven, Minneapolis

B.A. '57, Dartmouth College. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Mark John Obert, St. Paul

B.A. '63, Michigan State University. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Robert Thomas Patton, Midland, Mich.

B.S.M.E. '62, University of Michigan. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Daniel John Scott, Minneapolis

B.S.M.E. '46, B.S.Gen.E. '47, Iowa State College. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Master of Fine Arts

Larry Murray Friedenson, Washington, D.C.

B.S. '64, M.A. '65, University of Minnesota. Field of Concentration: Art. Major Adviser: Prof. Peter Busa.

Gerald Lang, St. Paul

B.A. '62, University of Minnesota. Field of Concentration: Art. Major Adviser: Prof. Jerome Liebling.

Master of Science

William Bernard Ambrose, Middletown, Del.

B.S.(Agric.) '57, University of Illinois. Major: Agronomy. Minor: Botany. Thesis: Moisture Determination Methods in Corn. Major Adviser: Prof. J. C. Sentz.

Ronald Wilde Barrett, St. Paul

B.A. *magna cum laude* '62, Gustavus Adolphus College. Major: Entomology. Minor: Botany. Thesis: Changes in the Response of *Oncopeltus fasciatus* (Dallas) nymphs to Temperature, Humidity, Gravity, and Light with Age Within the 5th Instar (Hemiptera, Lygaeidae). Major Adviser: Prof. H. C. Chiang.

**Guenther Carl Behrens, Waverly,
Iowa**

B.S. with distinction '60, University of Minnesota. Major: Dairy Industries. Minor: Biochemistry. Thesis: Some Effects of Heat on Viscosity of Model Milk Systems. Major Adviser: Prof. H. A. Morris.

**Vivian Annette Bort, Pompano Beach,
Fla.**

B.S. '48, Wheaton College. Field of Concentration: Home Economics. Major Adviser: Prof. Suzanne Davison.

Wayne Elroy Carlson, Minneapolis

B.S. with distinction '57, University of Minnesota. Major: Soil Science. Minor: Agricultural Economics. Thesis: Fertilizer Effect on Kentucky Bluegrass Seed Production in Roseau County, Minnesota. Major Adviser: Prof. J. M. MacGregor.

Gyan Chandra, Delhi, India

M.Com. '59, Agra University (India). Field of Concentration: Business Administration. Major Adviser: Prof. J. C. Gray.

**Buddy Gene Crewdson, Sioux City,
Iowa**

B.S. '58, Morningside College. Field of Concentration: Agricultural Economics. Major Adviser: Prof. E. F. Koller.

James William Dieckhaus, Janesville

B.S. with distinction '61, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. R. A. Skok.

Paul Henry Fritzke, Minneapolis

B.S. with distinction '61, University of Minnesota. Field of Concentration: Genetics. Major Adviser: Prof. W. E. Rempel.

Alice Louise Gorman, Greenfield, Ind.

B.S. '60, Indiana University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Kaarlo Matti Hakama, Helsinki, Finland

Nat. Sci. Cand. '63, University of Helsinki (Finland). Field of Concentration: Biostatistics. Major Adviser: Prof. R. B. McHugh.

**Zuhair Ahmad Hassan, Tulkarm,
Jordan**

B.Sc. (Agri.) '64, West Pakistan Agricultural University. Field of Concentration: Dairy Industries. Major Adviser: Prof. H. A. Morris.

Richard Lowell Jacobson, St. Paul

B.A. '55, St. Olaf College. Field of Concentration: Physics. Major Adviser: Prof. S. G. Gasiorwicz.

**Muhammad Rezaul Karim, Noakhali,
Pakistan**

B.Sc. '62, Karachi University (Pakistan). Field of Concentration: Veterinary Bacteriology. Major Adviser: Prof. B. S. Pomeroy.

Richard William Klukas, St. Paul

B.S. with distinction '62, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. D. P. Duncan.

Telahun Makonnen, Arussi, Ethiopia

B.Sc. with distinction '63, Haile Selassie I University (Ethiopia). Field of Concentration: Agricultural Economics. Major Adviser: Prof. S. A. Engene.

**Olli Sakari Miettinen, Helsinki,
Finland**

M.D. '62, University of Helsinki (Finland). Major: Biostatistics. Minors: Mathematics, Statistics, and Sociology. Thesis: Matched Pairs Vs. Two Independent Series in the Case of All-or-None Responses. Major Adviser: Prof. R. B. McHugh.

James Fredrick Morgan, Minneapolis

B.A. *cum laude* '63, St. Mary's College. Major: Physics. Minor: Mathematics. Thesis: Differential Cross Sections for the Reactions $C^{12}(Li^7,p)O^{18}$, $C^{12}(Li^7,d)O^{17}$, $C^{12}(Li^7,t)O^{16}$ From 3.24 to 3.64 MeV. Major Adviser: Prof. R. K. Hobbie.

Herman Stuart Pertler, Cloquet

B.A. *cum laude* '64, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. G. B. Davis.

**Abdul Maseh Shafik Qastin,
Baghdad, Iraq**

Lincentiat in Comm. and Econ. '62, University of Baghdad (Iraq). Field of Concentration: Business Administration. Major Adviser: Prof. G. B. Davis.

**William Scott Ramsey, South Bend,
Ind.**

B.A. '61, Indiana University. Major: Microbiology. Minor: Biochemistry. Thesis: Germination of Microcysts of *Myxococcus Xanthus*. Major Adviser: Prof. Martin Dworkin.

**Romeo Salinas Raros, Nueva Vizcaya,
Philippines**

B.S. in Agri. '60, University of the Philippines. Major: Entomology. Minor: Botany. Thesis: Resistance of Corn to European Corn Borer, *Ostrinia Nubilalis* (Hubner), As Affected by the Growth Stage of the Host. Major Adviser: Prof. H. C. Chiang.

Nell Rose Ray, LaGrange, Ill.

B.S.(Chem.) with distinction '62, University of Michigan. Major: Biochemistry. Minor: Physical Chemistry. Thesis: A Search for Hydrophobic Interactions in Carbohydrates. Major Adviser: Prof. D. B. Wetlaufer.

**Mark Arthur Smith, Wilmington,
Ohio**

B.S. '63, Kent State University. Major: Plant Pathology. Minor: Botany. Thesis: Survival of Stem Rust Urediospores on Foliage of Wheat and Variability in Some Morphological Characters of Wheat in Different Environments. Major Adviser: Prof. Helen Hart.

**Chih-ning Sun, Hopei, Republic of
China**

B.S. in Ag. '63, National Taiwan University (China). Major: Soil Science. Minor: Biochemistry. Thesis: The Interaction of Soil Applied Sulphur and Nitrogen and the Effect of Several Phosphorus Fertilizers on Growth and Chemical Composition of *Sorghum vulgare*. Major Adviser: Prof. R. S. Adams.

**Ming-Hsien Sun, Tainan, Republic of
China**

B.S. in Ag. '60, National Taiwan University (China). Major: Plant Pathology. Minor: Genetics. Thesis: Factors Affecting the Infection of *Helminthosporium turcicum* on corn. Major Adviser: Prof. Thor Kommedahl.

**Kenneth Ryner Webster, Friendship,
Tenn.**

B.S.(Educ.) '62, University of Tennessee. Field of Concentration: Genetics. Major Adviser: Prof. W. E. Rempel.

Thomas John Wright, Mankato

B.A. with honor '61, Mankato State College. Field of Concentration: Environmental Health. Major Adviser: Prof. H. J. Paulus.

Master of Science in Aeronautical Engineering

Melvyn Aaron Javinsky, Minneapolis

B.Aero.Eng. '56, University of Minnesota. Field of Concentration: Aeronautical Engineering. Major Adviser: Prof. W. H. Warner.

Thomas Carlisle Nietz, Owatonna

B.Aero.Eng. '64, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Investigation of the Descent Trajectories of a Stable Parachute-Point Mass System in Cross Winds. Major Adviser: Prof. H. G. Heinrich.

Master of Science in Civil Engineering

Mir Liaquat Ali, Hyderabad, India

B.Sc. '56, Bach.Eng. '60, Osmania University (India). Field of Concentration: Civil Engineering. Major Adviser: Prof. W. T. Graves.

Lawrence John Gardner, Minneapolis

B.S. with distinction '65, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: The Testing of Asphalt Paving Mixtures with Respect to their Non-Elastic Properties. Major Adviser: Prof. T. W. Thomas.

Tsing Chih Chang, Tientsin, China

B.S. '62, Taiwan Provincial Cheng Kung University (China). Field of Concentration: Civil Engineering. Major Adviser: Prof. Paul Andersen.

**Franklin Delano Grefsheim, Chicago,
Ill.**

B.C.E. '64, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. M. S. Kersten.

Ching-Chiu Lee, Kaohsiung, Taiwan,
Republic of China

B.S.inAg. '56, National Taiwan University
(China). Field of Concentration: Civil Engi-
neering. Major Adviser: Prof. Paul Andersen.

Stephen Edgar Stewart, Des Moines,
Iowa

B.S. with distinction '63, United States Naval
Academy. Field of Concentration: Civil Engi-
neering. Major Adviser: Prof. T. W. Thomas.

Ishaqueali Lamakali Suratwala,
Karachi, Pakistan

B.E.(Civil) '64, N.E.D. Government Engineer-
ing College (Pakistan). Field of Concentra-
tion: Civil Engineering. Major Adviser: Prof.
Paul Andersen.

Master of Science in Dentistry

Gary Leroy Carlson, St. Louis Park

D.D.S. '64, University of Minnesota. Major:
Dentistry. Minor: Anatomy. Thesis: Measure-
ment of Tooth Displacement Produced by
Several Continuously Acting Loads. Major Ad-
viser: Dr. R. J. Isaacson.

Arnold Benson Carver, Minneapolis

D.D.S. '63, B.S. with high distinction '64, Uni-
versity of Minnesota. Major: Dentistry. Minor:
Anatomy. Thesis: Hamster Bone Changes In-
cident to Tooth Movement as Demonstrated
by Tetracyclines. Major Adviser: Dr. R. J.
Isaacson.

Ronald William Pfeleger, St. Paul

D.D.S. '64, B.S. '64, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis:
Some Effects of Calcium Deficient Diet
on the Relative Mineralization of the Rat
Mandible. Major Adviser: Dr. R. J. Isaacson.

John Norbert Trodahl, St. Paul

B.A. *cum laude* '51, St. Olaf College; D.D.S.
'60, University of Minnesota. Major: Den-
tistry. Minor: Pathology. Thesis: Pigmentation
of Dental Structures in Erythroporetic (Con-
genital) Porphyria of Man and Animals. Ma-
jor Adviser: Dr. R. J. Gorlin.

James Herbert Wittnebel, Hopkins

B.S. with high distinction '64, D.D.S. '64,
University of Minnesota. Major: Dentistry.
Minor: Anatomy. Thesis: Some of the Facial
and Oral Changes Resulting From Clinical
Rapid Maxillary Expansion. Major Adviser:
Dr. R. J. Isaacson.

John Henry Zimmer, Jr., Robbinsdale

B.S. with high distinction '62, D.D.S. '64,
University of Minnesota. Major: Dentistry.
Minor: Anatomy. Thesis: Serial Extraction
Effects on the Dento-Facial Complex: A
Longitudinal, Cephalometric Study of Nine
Selected Cases Using Metallic Implants. Ma-
jor Adviser: Dr. R. J. Isaacson.

Master of Science in Dermatology

David L. Cram, Keokuk County, Iowa

M.D. '59, University of Wisconsin (Madison).
Major: Dermatology. Minor: Basic Dermatol-
ogical Science. Thesis: Photo-Induced Acan-
tholysis in Pemphigus. Major Adviser: Dr. R.
R. Kierland.

Master of Science in Electrical Engineering

Gary Lee Dix, Rochester

B.S.E.E. '64, University of Wisconsin. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. F. N. Bailey.

Edwin Theodore Hedin, Jr., Two
Harbors

B.S. with distinction '64, University of Min-
nesota. Major: Electrical Engineering. Minor:
Mathematics. Thesis: Effects of Surface
Roughness on Acoustic Noise Radiation From
a Thin Panel Under Turbulent Excitation.
Major Adviser: Prof. R. F. Lambert.

Stephen Alan Levie, Minneapolis
B.A. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Feasibility of Using the Quadrupole Mass Spectrometer for Continuous Gas Analysis. Major Adviser: Prof. S. C. Larson.

Gary Arthur Turton, Minneapolis
B.S. with distinction '63, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. H. Park.

Lance Wheeler Oleson, Rochester
B.E.E. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Feasibility of Sputter-Depositing Thin Film Superconducting Solenoids. Major Adviser: Prof. D. E. Anderson.

Master of Science in Industrial Engineering

David Clarence Cordes, St. Paul
Bach. of M.Eng. '62, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. G. W. McElrath.

Master of Science in Medicine

Robert Lawrence Palmer, Temple, Tex.
B.S.Med., M.D. '59, Northwestern University. Major: Medicine. Minor: Hematology. Thesis: Evaluation of the In Vitro Autohemolysis Test in Various Hematological Disorders. Major Adviser: Dr. B. J. Kennedy.

Master of Science in Metallurgical Engineering

Theodore Elton Fine, Minneapolis
B.S. with distinction '64, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Destruction of Short Range Order by Cold Working in the Gold-Palladium. Major Adviser: Prof. M. E. Nicholson.

Master of Science in Proctology

Renato Fajardo Ramirez, Quezon City, Philippines
M.D. '60, University of the Philippines. Major: Proctology. Minor: Pathology. Thesis: An Evaluation of the Conservative Management of Villous Tumors of the Lower Part of the Large Bowel. Major Adviser: Dr. R. J. Jackman.

Master of Social Work

Kathryn Rebecca Coram, Minneapolis
B.A. '55, Mount Holyoke College; M.A. '62, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. L. F. Merle.

Albert Goblirsch, Jr., Faribault
B.A. '64, College of St. Thomas. Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

Janice Louise Johnson, Minneapolis
B.A. *magna cum laude* '64, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. L. N. Scott.

Carlton Hunt Peters, Lansing, Mich.
B.A. '51, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. E. W. Francel.

Charlene Colbert Scroggins, St. Paul
B.A. '54, University of Nebraska. Field of Concentration: Social Work. Major Adviser: Prof. D. A. Whitmore.

Certificate of Specialist in Education

Ronald John Berk, Whitefish Bay, Wis.
B.S. '57, M.Ed. '62, Marquette University. Field of Concentration: Special Education. Major Adviser: Prof. M. C. Reynolds.

Michael Terence Boyle, Alice, N.D.
B.A. '54, St. John's University; M.A. '60, University of Minnesota. Field of Concentration: Special Education. Major Adviser: Prof. W. E. Dugan.

Mary Lee Enfield, Osage
B.S. '54, Concordia College; M.A. '63, University of Minnesota. Field of Concentration: Special Education. Major Adviser: Prof. D. G. Force.

Daniel Joseph Moore, Jr., Rochester
B.S. '50, Bemidji State Teachers College; M.A. '59, University of Minnesota. Field of Concentration: Counseling. Major Adviser: Prof. W. E. Dugan.

Necla Palamutlu, Izmir, Turkey
B.A. *cum laude* '58, Doane College; M.A. '59, University of Minnesota. Field of Concentration: Counseling. Major Adviser: Prof. B. E. Balow.

Doctor of Philosophy

Dimitrios C. Agouridis, Dafnohorion, Greece
B.S. '59, M.S.E.E. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in U.H.F. and Microwave Transistors. Major Adviser: Prof. Aldert van der Ziel.

Manuel S. Aldana, Quezon City, Philippines
B.A. *magna cum laude* '56, University of the Philippines; M.A. '60, University of Minnesota. Major: Political Science. Minor: Area Studies. Thesis: The International Responsibility of States for Injuries to Aliens in Recent International Law. Major Adviser: Prof. C. H. McLaughlin.

David Gene Anderson, Warner, Alberta, Canada
B.S. in Agric. with distinction '55, M.S. '57, University of Alberta. Major: Biochemistry. Minor: Physical Chemistry. Thesis: Studies on the Physical-Chemical Properties of Proteins: Characterization of the Region B Segment of the Interaction Isotherm of n-Octylbenzene-p-Sulfonate with Bovine Plasma Albumin Ovalbumin, and Beta-Lactoglobulin. Major Adviser: Prof. D. R. Briggs.

Asit Prakas Basu, Calcutta, India
B.S. with honors '56, M.S. '58, University of Calcutta. Major: Statistics. Minor: Mathematics. Thesis: On Some Two-Sample and K-Sample Rank Tests with Applications to Life Testing. Major Adviser: Prof. Milton Sobel.

Irene May Bergal, Minneapolis

B.A. '50, University of Bridgeport; M.A. '58, Middlebury College. Major: French. Minor: Spanish. Thesis: *Hélisenne de Crenne, a Sixteenth Century French Novelist*. Major Adviser: Prof. A. A. Renaud.

William Edgar BeVier, Minneapolis

B. of Mech. Eng. with distinction '52, Bach. of Bus. Ad. '52, M.S. Mech. Eng. '60, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: *Experimental Investigation From A Fluid Amplifier Nozzle*. Major Adviser: Prof. W. E. Ibele.

Thomas Wood Blomquist, DeKalb, Ill.

B.A. '53, Dartmouth College; M.A. '60, University of Minnesota. Major: History. Minor: Art History. Thesis: *Trade and Commerce in Thirteenth Century Lucca*. Major Adviser: Prof. R. S. Hoyt.

Virgilio Reyes Carangal, College, Laguno, Philippines

B.S.A. '55, University of Philippines; M.S. '58, Purdue University. Major: Genetics. Minor: Biochemistry. Thesis: *The Effectiveness of S_1 and Topcross Evaluation in a Recurrent Selection Program in Corn (Zea Mays)*. Major Adviser: Prof. E. H. Rinke.

Virginia J. Chirhart, Rice

Bach. of Ed. '55, M.S. in Ed. '58, St. Cloud State College. Major: Education. Minor: Educational Psychology. Thesis: *A Study of the Word Recognition Skills and Perceptual Abilities of Fourth-Grade Pupils*. Major Adviser: Prof. G. L. Bond.

Adam Chou, Woodstown, N.J.

B.S. '52, Virginia Polytechnic Institute; M. of Chem. Eng. '56, Clarkson College of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: *Some Topics in Optimization of Reactors with Catalyst Deactivation*. Major Adviser: Prof. Rutherford Aris.

Peter James Colby, Battle Creek, Mich.

B.S. '55, M.S. '58, Michigan State University. Major: Fisheries and Wildlife. Minor: Supporting Program. Thesis: *Survival of Fish Eggs, Fry and Fish-Food Organisms on Wood-Fiber Sludge Deposits*. Major Adviser: Prof. L. L. Smith, Jr.

Linus Francis Cordes, Montgomery

B.S. with high distinction '59, M.S. E.E. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: *The Influence of Sodium Overlayers on the Work Function of Germanium*. Major Adviser: Prof. W. T. Peria.

Roger Simmons Countryman, Jr., Minneapolis

B.A. '59, M.A. '62, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: *Continuous Selections and Algebraic Closure in Function Algebras*. Major Adviser: Prof. C. A. McCarthy.

John Laurence Day, Idaho Falls, Idaho

B.A. '59, M.A. '63, Brigham Young University. Major: Journalism. Minor: Latin American Area Studies. Thesis: *Analysis of Efforts Toward Professionalization of Latin American Journalists*. Major Adviser: Prof. R. B. Nixon.

John Scott Donaldson, Minneapolis

B.A. '51, Yale University; M.A. '52, University of Minnesota. Major: American Studies. Thesis: *The Suburban Disillusionment*. Major Adviser: Prof. D. W. Noble.

Charles Edwin Dorworth, York, Pa.

B.S. '59, M.S. '63, Pennsylvania State University. Major: Plant Pathology. Minor: Botany. Thesis: *Variations in Germination, Microflora, and Fatty Acids of Soybeans Stored Under Different Combinations of Moisture Content, Temperature, and Time*. Major Adviser: Prof. C. M. Christensen.

Lincoln George Ekman, Roseville

B.Elec.Eng. '47, B.S. '56, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: *A Comparison of the Effectiveness of Different Approaches to the Teaching of Addition and Subtraction Algorithms in the Third Grade*. Major Advisers: Profs. C.V. Goossen and J.E. Stochl.

Donald John Foss, Minneapolis

B.A. *cum laude* '62, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: *A Psychological Analysis of a Miniature Linguistic System*. Major Adviser: Prof. J. J. Jenkins.

Darrell Albert Frohrib, St. Paul

B.S. '52, M.S. '53, Massachusetts Institute of Technology. Major: Mechanics and Materials. Minor: Mechanical Engineering. Thesis: The Effect of Small Bending Stiffness on the Free Vibrations of a Bar under Axial Tension Due to Its Own Weight. Major Adviser: Prof. Robert Plunkett.

Forrest Irving Glick, Glasgow, Mont.

B.A. *cum laude* '56, St. Olaf College; M.S. '59, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: An Experimental Study of Mass Transport Through the Helium II Film. Major Adviser: Prof. J. H. Wernitz.

Milton Daniel Hakel, Jr., Hopkins

B.A. '63, University of Minnesota. Major: Psychology. Minor: Research Methodology. Thesis: Perceiver Differences in Interpersonal Perceptions: An Analysis of Inter-rater Agreement on Scaled-Expectations Rating Scales in an Employment Interview Setting. Major Adviser: Prof. M. D. Dunnette.

**Thadd Emerson Hall, Fort Dodge,
Iowa**

B.A. '58, Simpson College; M.A. '61, University of Minnesota. Major: History. Minor: Political Science. Thesis: France and the Eighteenth Century Corsican Question. Major Adviser: Prof. P. W. Bamford.

John William Hanlon, Aitkin

B.S. '59, M.S. '62, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of Processing Costs in Plants that Manufacture Butter and Nonfat Dry Milk. Major Adviser: Prof. E. F. Koller.

**Sister M. Maxine Hart, Milwaukee,
Wis.**

B.S. '50, Cardinal Stritch College; M.S. '54, University of Wisconsin (Madison). Major: Education. Minor: Nutrition. Thesis: Dogmatism as Related to Accuracy of Student Teachers' Judgment of Students. Major Adviser: Prof. M. M. Brown.

**Reginald Augustus Herin, Fort Col-
lins, Colo.**

B.S. '55, D.V.M. with high distinction '58, M.S. '59, Colorado State University. Major: Veterinary Physiology and Pharmacology. Minor: Pharmacology. Thesis: Electroanesthesia In The Dog: A Comparative Study of Electric Wave Forms. Major Adviser: Prof. A. L. Good.

**John Anthony Howell, Disley,
England**

B.A. '60, M.A. '64, University of Cambridge (England). Major: Chemical Engineering. Minor: Mathematics. Thesis: Continuous Culturing of *Chlorella*: Optimal Programming of Light Patterns. Major Advisers: Profs. A. G. Fredrickson and H. M. Tsuchiya.

Edward Francis Jankus, Rosemount

B.S. with distinction '57, D.V.M. '59, University of Minnesota. Major: Veterinary Physiology and Pharmacology. Minor: Biochemistry. Thesis: Development of an Orthogonal Electrocardiographic Lead System for Cattle. Major Adviser: Prof. A. L. Good.

Pyung Kun Kang, Seoul, Korea

Bach. of Law '50, Seoul National University (Korea); M.A.P.A. '60, University of Minnesota. Major: Political Science. Minor: Sociology. Thesis: The Role of Local Government in Community Development in Korea. Major Adviser: Prof. G. A. Warp.

Jeanne Antoinette LaBlonde, Winona

B.S. with distinction '48, M.A. '52, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Relationship between the Television Viewing Habits and Scholastic Achievement of Fifth Grade Children. Major Adviser: Prof. G. L. Bond.

Sander Morris Latts, Minneapolis

B.A. '56, University of Minnesota; M.A. '59, Columbia University (New York). Major: Sociology. Minor: Educational Psychology. Thesis: The Four-Child, Equi-Sexed, Intact Family: Its Organization and Interactional Patterns. Major Adviser: Prof. R. G. Francis.

**James John MacKenzie, Cambridge,
Mass.**

B.S. '61, Boston College; M.S. '63, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Separable Potentials for the Two-Nucleon System. Major Adviser: Prof. A. M. Bolsterli.

John C. Massmann, St. Cloud

B.A. '54, St. John's University; M.A. '59, University of Minnesota. Major: History. Minor: Political Science. Thesis: German Immigration to Minnesota, 1850-1890. Major Adviser: Prof. P. D. Jordan.

**Adel Ayad Mikhail, Alexandria,
United Arab Republic**

B.Pharm. '55, M.Pharm. Chem. '60, Alexandria University (Egypt). Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Synthesis of Conformationally Rigid Medicinal Agents: 2-AZA- And 2,5-Diazabicyclo- [2.2.1] Heptane Derivatives. Major Adviser: Prof. P. S. Portoghese.

Merle Stratte Olson, Cannon Falls

B.A. '62, St. Olaf College. Major: Biochemistry. Minor: Microbiology. Thesis: The Metabolic Variability of Isolated Heart Muscle Mitochondria: The Dependency of Metabolic Reactions on the Endogenous Substrates and the External Environment. Major Adviser: Prof. R. W. Von Korff.

**Neil Anthony Palomba, New York,
N.Y.**

B.B.A. *summa cum laude* '63, City College of New York. Major: Economics. Minor: Anthropology. Thesis: A Measure of the Stabilizing Effect of the Unemployment Compensation Program with Emphasis on the Experience Rating Controversy. Major Adviser: Prof. N. J. Simler.

Mary Ellen Perkins, Atlanta, Ga.

B.S. '31, Georgia State College for Women; M.Ed. '47, University of Georgia. Major: Education. Minor: Educational Psychology. Thesis: The Effects of a Summer Reading Program on Culturally Disadvantaged Children of First, Second, and Third Grades. Major Adviser: Prof. G. L. Bond.

John Richard Potoski, Plymouth, Pa.

B.S. '62, University of Pennsylvania. Major: Organic Chemistry. Minor: Analytical Chemistry and Physical Chemistry. Thesis: Reactions of Dihalocarbenes with Allylic Amines. Major Adviser: Prof. W. E. Parham.

Willis Harmon Ray, Houston, Tex.

B.A. '62, B.S. Ch.E. '63, Rice University. Major: Chemical Engineering. Minor: Mathematics. Thesis: An Adaptive Optimal Control of the Batch Chemical Reactor. Major Adviser: Prof. Rutherford Aris.

Phyllis Cantrell Reynolds, Minneapolis

B.A. *magna cum laude* '62, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: The Relationship of Knowledge about Incarcerated Delinquent Boys to Training and Experience in Working with Them. Major Adviser: Prof. S. R. Hathaway.

Marlys Joan St. Cyr, Robbinsdale

B.S. '48, University of Minnesota; M.S. '62, University of Arkansas. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Structural Studies on the Dextran and Fructan Produced by *Leuconstoc Mesenteroides*, NRRL B-1298. Major Adviser: Prof. Samuel Kirkwood.

**Ajitkumar Tapidas Sanghvi, Amreli,
India**

B.S. '55, University of Bombay. Major: Biochemistry. Minor: Microbiology. Thesis: Isolation and Chemical Characterization of 4 β -Methyl- Δ 8,24- Cholestadien-3 β -OL From Rat Skin. Major Adviser: Prof. Ivan Frantz.

Eugene Diedrich Savoye, Le Sueur

B.S. '57, M.S. E.E. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Extraction and Injection of Hot Electrons in Thin Film Emission Diodes. Major Adviser: Prof. D. E. Anderson.

Robert Francis Scholz, St. Paul

B.A. *cum laude* '61, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Reverend Elders: Faith, Fellowship, and Politics in the Ministerial Community of Massachusetts Bay, 1630-1710. Major Adviser: Prof. D. B. Rutman.

**Alexander Winston Siegel, Summit,
N.J.**

B.A. '63, Amherst College; M.A. '65, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Variables Affecting Incidental Learning in Children. Major Adviser: Prof. H. W. Stevenson.

Ellen Yonnett Siegelman, Minneapolis

B.A. '47, New Jersey College for Women; M.A. '50, M.A. '61, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: Observing Behavior in Impulsive and Reflective Children. Major Adviser: Prof. R. D. Wirt.

Gordon Donald Simons, Jr., Minneapolis

B.A. *magna cum laude* '60, M.A. '64, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Multihypothesis Testing. Major Adviser: Prof. Harold Ruben.

Barbara Speier Teeter, Mound

B.A. *cum laude* '60, University of Minnesota.
Major: Psychology. Minor: Child Psychology.
Thesis: The Symbolic Meaning of the Bender-
Gestalt. Major Adviser: Prof. R. D. Wirt.

Tracy Ferris Tyler, Jr., Minneapolis

B.B.A. '49, B.S. '50, M.A. '56, University of
Minnesota. Major: Educational Psychology.
Minors: Curriculum and Instruction, and
Child Psychology. Thesis: The Relationship of
Teacher Judgements and Environmental Data
at the Kindergarten and Grade One Levels to
Reading Achievement in Grade Four. Major
Adviser: Prof. C. L. Bond.

Academic Costume

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

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

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

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

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

(In the order of march)

General College	crimson and white
College of Liberal Arts	white
University College	old gold and white

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

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

President's Reception

JULY, 1966

- The members of the graduating class, their families, and friends are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held on the Mall in front of Northrop Memorial Auditorium. In case of rain, the Main Ballroom of Coffman Memorial Union will be used. Refreshments will be served.
- Those in the receiving line will be President and Mrs. Wilson; Sir Eric and Lady Ashby; Dr. Haislet; Mr. Howard Kaibel, President, Minnesota Student Association; and Mr. Eric Hucke, Vice President, Coffman Union Board of Governors.
- Under the direction of Mr. John P. Zdechlik, B.S., College of Liberal Arts, the University of Minnesota Summer Concert Band will play during the Reception.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Naval ROTC, Gamma Sigma Sigma—Social Service Sorority, Mortar Board—Honorary Leadership Society, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

August Commencement, 1966

FRIDAY AFTERNOON, AUGUST 19, 4:00 P.M.

ON THE MALL
IN FRONT OF
NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

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

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhorst, Olivia

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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 fifteenth 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 191,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 42,000 students annually on its Minneapolis—St. Paul, Duluth, Morris, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

In the diversified research laboratories on the University's five campuses, at the several agricultural experiment stations scattered throughout the state, at the Rosemount Research Center, the Cloquet Forest Research Center, the Cedar Creek Natural History Area near Bethel, the Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

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

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it possible for the Variety Club Heart Hospital and the great Mayo Memorial Build-

ing 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 Dichl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

As it meets the needs of present students, the University must also make plans for those of the future. The 42,178 students who enrolled at the University at the beginning of the 1965-1966 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. In the fall of 1965, for the first time in its history, the University instituted an admissions policy based on controlled growth of total enrollment. This change in admissions requirements held the 1965-1966 enrollment to about 42,000 students. It reflects the University's need for more teachers, more land, and more buildings. And it makes plain the University's determination to maintain the educational quality that has made it one of America's leading educational institutions.

THE 1965 LEGISLATURE granted the University \$81,300,000 for general operations and maintenance during the 1965-1967 biennium. In addition, the University received \$9,083,223 for University Hospitals; \$6,833,887 for special appropriations, including special extension and research activities; \$15,820,656 for new buildings, land, and the rehabilitation of existing buildings; and \$1,240,000 for the University of Minnesota, Morris.

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

The summary financial statement of 1964-1965 showed that the University's current income and expenditures amounted to \$128,980,874.07. Of the total received, \$12,727,274.12 came from student tuition and fees; \$17,855,486.75 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; \$1,496,963.54 from intercollegiate athletics; \$19,470,448.11 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 \$8,260,416.03 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$26,190,690.49 came from the federal government for instruction, research, and agricultural extension. The state provided \$42,979,595.03 or 31.4 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$11,003,913.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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 Minneapolis Campus of the University this afternoon from 3:30 to 4:00 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mrs. James Whippley, Graduate Student, University Carillonner. The Commencement Exercises on the Mall are open to all; guest cards are not necessary. Guests will be seated as they arrive and will remain seated until the colors are presented.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 4:00 p.m., Professor John G. Darley, Ph.D., College of Liberal Arts, Faculty Marshal, will carry the Mace onto the stage, heralding the arrival of the academic procession. Marshal Darley, as Mace Bearer, will present the Mace at the center of the stage. When all of those marching have taken their places, he will put the Mace in its cradle to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

Prelude in G Major - - - - - Bach

ON THE STAGE: Seated on the stage, from left to right, are Marshal Darley; Professor John E. Stecklein, Ph.D., Bureau of Institutional Research, Marshal; Recorder W. Donald Beatty, Ph.D., Admissions and Records; Mr. Waldo E. Hardell, B.S., President of the Minnesota Alumni Association; Colonel William D. Beard, U.S.A., Professor of Military Science; Associate Dean Nicholas A. Glaskowsky, Ph.D., School of Business Administration; Professor Morris E. Nicholson, Jr., Sc.D., University College; Acting Dean Frank Verbrugge, Ph.D., Institute of Technology; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean Willard L. Thompson, Ph.D., Summer Session; the Reverend Harold J. Bury, B.A., Newman Center Chaplain; Mr. Hugh D. Galusha, Jr., B.S., President of the Federal Reserve Bank of Minneapolis, Commencement Speaker; Vice President William G. Shepherd, Ph.D., Academic Administration; The Honorable Marjorie J. Howard, Regent of the University of Minnesota; Dean Edmund G. Williamson, Ph.D., Dean of Students; Assistant Dean Millard L. Gieske, Ph.D., Graduate School; Dean Robert J. Keller, Ph.D., College of Education; Associate Professor Robert A. Stein, LL.B., Law School; Associate Professor Norman W. Moen, Ph.D., General College; Associate Professor John A. Goodding, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Rodney A. Briggs, Ph.D., University of Minnesota, Morris; Professor Roy A. Schuessler, M.M., College of Liberal

* In the event of heavy rain, Commencement Exercises will be held in the Main Ballroom of Coffman Memorial Union. However, only the members of the graduating class will be in the Ballroom. Each graduate has been issued four rain guest cards. Guests holding these cards may go to the auditorium designated on their cards where they can listen to the Exercises. All of our guests should know that the Commencement Exercises will be carried live on KUOM, beginning at 4:00 p.m., and may be listened to from any radio that is available.

Arts; Captain Dewey E. Johnson, U.S.A.F., Assistant Professor of Aerospace Studies; Associate Dean Theodore E. Kellogg, Ph.D., Admissions and Records, Marshal; Professor Robert S. Hancock, Ph.D., School of Business Administration, Marshal.

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

THE NATIONAL ANTHEM: The entire audience and Professor Schuessler, 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: Father Bury.

SPEAKING FOR THE UNIVERSITY: Vice President Shepherd.

COMMENCEMENT ADDRESS: Mr. Galusha, "The Unlearning Process."

PRESENTATION OF ROTC CERTIFICATES: Dean Thompson will introduce Colonel Beard and Captain Johnson who will present to Vice President Shepherd the candidates for commissions in their respective branches of the Armed Services. The certificates of ROTC completion will be authorized by Vice President Shepherd.

PRESENTATION OF CANDIDATES: Dean Thompson will introduce the deans of the several colleges or their representatives who will present to Vice President Shepherd the candidates for certificates and degrees. They are, in order of their introduction, Professor Moen for the General College; Dean Ziebarth for the College of Liberal Arts; Dean Keller for the College of Education; Professor Nicholson for the University College; Dean Briggs for the University of Minnesota, Morris; Acting Dean Verbrugge for the Institute of Technology; Professor Goodding for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Glaskowsky for the School of Business Administration; Professor Stein for the Law School; Dean Howard for the College of Medical Sciences; Assistant Dean Gieske for the Graduate School.

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

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

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: Vice President Shepherd 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 Assistant Dean Gieske.

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

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

POSTLUDE: Professor Fleischer, organist.

Fugue in G Major - - - - - Bach

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

(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 second 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, Artillery

Robert E. Siqveland, St. Paul

Second Lieutenant, Transportation Corps

Richard T. Smith, Minneapolis

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Vernon J. Pals, Fulda

Thomas D. Stuermer, Savage

Candidates for Graduation

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

GENERAL COLLEGE

Associate in Arts

Michael Jon Anderson, Minneapolis	Carol Ruth Kupper, Minneapolis
Judy Elizabeth Andrist, Minneapolis	Susan Harriet Laegeler, Minneapolis
Mikehal John Aschittino, St. Paul	Wayne Robert Mathies, Minneapolis
Harvey Andrew Becker, Jr., St. Paul	Thomas John Maykoski, St. Paul
Beverly Ann Bird, International Falls	Wayne Henry Shellenberger, Batesland, S.D.
Gerald Leslie Buffington, Richfield	David Allen Sikorski, Breckenridge
Jack Alfred Bunde, St. Paul	Raymond Alan Soderberg, St. Paul
Paul Loren Buresh, Minneapolis	Richard Kraft Sorenson, White Bear Lake
Annice Dietrich, Minneapolis	Richard Wilfred White, Hutchinson
Signa Margaret Enos, Delano	Suzanne Martha Whiting, Ypsilanti, Mich.
Thomas Edward Glander, Minneapolis	John Scott Woodruff, Minneapolis
Jack Duane Horton, Minneapolis	Bruce Edward Zimmerman, St. Paul
Terrance Philip Hummel, Hopkins	
Ross Marshall Johnson, St. Paul	
Dale Herman Klooster, Magnolia	
Barbara Mary Knoll, Minneapolis	

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Silvia Helena Najberg Chazen, Rio de Janeiro, Brazil	Robert Jerry Hlavnicka, Minneapolis
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Bachelor of Arts

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

Gary Edward Abraham, A.A., Minneapolis	Martha Elizabeth Andresen, Minneapolis, <i>SUMMA CUM LAUDE</i> , English
Anthony George Allison, St. Paul	Thomas James Anglo, St. Paul
Roberta Antoinette Ames, St. Paul, <i>SUMMA CUM LAUDE</i> , Psychology	Nomi Hirschmann Arbel, Tel-Aviv, Israel
Michaelyn Anderson, Richfield	Suzanne Mary Arnold, St. Paul

James Robert Ball, St. Paul
 Connie Jean Barnett, Minneapolis
 Zerryl L. Carlson Becker, Minneapolis
 Stuart James Berde, St. Paul, *SUMMA CUM LAUDE, Anthropology*
 Andrea Marie Sellman Bergman, St. Paul
 Stephen Louis Bloch, Minneapolis
 Eugene George Blynn, Austin
 Alfred Richard Boll, Mound
 Lowell Andrew Borgen, Red Wing
 Perry Michael Brakke, Mankato
 Suzanne Elizabeth Zeddies Buell, St. Paul
 Eric Paul Canton, Minneapolis
 Gracia Elizabeth Carlson, St. Paul
 Judith Jean Chappie, Minneapolis
 Joseph Hoffman Clack, Milwaukee, Wis.
 Mairi Dewar Crowlie, Minneapolis
 Robert Kenneth Cuhel, Anoka
 Alan Lee Dahl, White Bear Lake
 Christopher Dahl, A.A., St. Louis Park
 Susanne Marie Dahl, Waseca
 Daniel Paul Daly, Austin
 Maurice Allan Danielson, New York City, N.Y.
 James Christ De Moss, A.L.A., Minneapolis
 Gordon William Denham, Minneapolis
 Adriane Lea Despot, Duluth, *SUMMA CUM LAUDE, Speech and Theatre Arts*
 Margaret Louise Dugan, Minneapolis
 Lawrence Nicholas Enger, Minneapolis
 Karen Jean Johnson Essig, St. Louis Park
 Marion Taft Evans, Minneapolis
 Elaine Ruth Evers, Fulda
 Jeffrey John Foss, Wayzata
 Francis Robert Foster, St. Paul
 John Carlson Fowler, Hopkins
 Lyle Richard Frost, Fairmont, *MAGNA CUM LAUDE, without departmental designation*
 Jerilyn Marie Furness, Minneapolis
 Dean Richard Gits, Minneapolis
 John Everett Greene, Sioux City, Iowa
 Marvin John Grendahl, St. Paul
 Arlene Louise Gustafson, Minneapolis, *MAGNA CUM LAUDE, English*
 Osul Theodore Haaland, Fairfax
 John Willis Hagen, St. Louis Park
 Stephen Harris Harrington, St. Paul
 William Charles Hartupee, Minneapolis
 Katherine Colleen Brennan Heikes, Minneapolis
 Frank William Heintz, St. Paul
 Barbara Lynn Turner Heldt, St. Paul
 James Richard Helfman, South St. Paul
 Karen Lee Hemerick, Minneapolis
 Patrick James Henry, Wayzata
 Irene Louise Hesse, Cambridge
 Arthur Harry Himmelman, Minneapolis
 Virginia Mary Yarusso Holder, Jordan
 Dennis Dean Johnson, Ellendale
 Diane Marie Johnson, Minneapolis
 Edda Marie Johnson, Hancock
 Gerald Gordon Johnson, Jr., Anoka
 Joseph Elwood Johnson II, St. Paul
 Michael Earle Jones, St. Paul
 Dale Orville Jorgenson, Fulda, *MAGNA CUM LAUDE, Psychology*
 Stephen Katainen, St. Paul
 John Jeffrey Kellgren, White Bear Lake, *CUM LAUDE, German*
 Carol Ann Kierski, Minneapolis
 Douglas Chester King, St. Paul
 Dorothy Mae Knutson, Faribault
 Darrel Duane Krogseng, Bemidji
 Virginia Venus Krollman, Hibbing, *MAGNA CUM LAUDE, Anthropology*
 Gary Elmer Kruesel, Rochester
 Allan Eugene Ladwig, Barnesville
 Robert Steele Lawrence, Jr., St. Paul
 Doris Evelyn Lee, Minneapolis, *MAGNA CUM LAUDE, without departmental designation*
 Carol Scott Leonard, Chicago, Ill.
 Chris Alan Levy, Minneapolis
 Dorothy Jean Battin Linne, Billings, Mont.
 John Emmanuel Lucente, St. Paul
 Frank Jerome Madden, Minneapolis
 Thomas Michael Malm, Minneapolis
 James Robert Martin, Faribault

Frank Benjamin Matachek, Mound
 Ann Marie Sparrman Maxfield,
 Mound
 James Michael Maxwell, Minneapolis
 Michael Philip McDonough, Roches-
 ter
 Thomas Edward McMullen, Minne-
 apolis
 Morrie Mitchell Miller, Winona
 James McConaughy Moore, Decatur,
 Ill.
 Rodney Henry Morlock, Jordan
 Daniel Wendell Morstad, Minneapolis
 Kathleen Lenore Narverud, Albert Lea
 Inese Neiburgs, Minneapolis
 Margaret Ruth Nelson, Breckenridge
 Nancy Lynn Newman, Crystal,
 SUMMA CUM LAUDE, Music
 Timm Neil Norgard, A.L.A., Loerch
 Douglas Lee Nygaard, Minneapolis
 Timothy Martin O'Brien, Minneapolis
 Mark Thomas Odegard, Minneapolis
 Paul Basil Olinger, Columbia Heights
 Carol Evelyn Ondick, Minneapolis
 Denis Gregory Orman, A.A., Minne-
 apolis
 Timothy John Orman, Minneapolis
 Vernon John Pals, Fulda
 Charles Henry Pegelow, Jr., Sacred
 Heart
 Randall William Perkins, St. Paul
 Gerald Andrew Phillips, Minneapolis
 Bonnie Mae Polski, St. Louis Park
 James Thomas Powell, Stillwater
 Michael John Powers, Anoka
 Rollie May Praver, St. Paul
 Florence Day Prindle, A.A., Monte-
 video
 Lynette Sharon Randy, Chisholm
 Raymond Alan Rantapaa, Lead, S.D.
 Diane Gardner Rassam, Lima, Ohio
 William Howard Reid, Bemidji
 Richard Stuart Rivkin, Minneapolis
 Robert Mark Rosenbaum, Minne-
 apolis, SUMMA CUM LAUDE, Psychol-
 ogy
 Paul Benhard Rosheim, Minneapolis
 David Gordon Roston, Minneapolis
 Robert John Rustad, Minneapolis
 Jo Ann Salmonson, Ortonville
 Gerald Carl Salstrom, Minneapolis
 Catherine Louise Thompson Sands,
 Minneapolis
 Theodore Eugene Schave, Minneapolis
 Steven Charles Schjeldahl, Northfield
 Robert Alan Schwartzbauer, St. Paul
 Peter Dean Sears, Cameron, Wis.
 Ronald William Seemann, Minne-
 apolis
 Lawrence James Seiberlich, White
 Bear Lake
 Lansing Reed Shepard, A.A., St. Paul
 Claudia Joan Sievers, Winona
 Ellen Baker Barbara Simer, Minne-
 apolis
 Robert Rolland Siqueland, St. Paul
 Lawrence Irvin Sirott, St. Paul, cum
 LAUDE, Child Psychology
 Glenn Maurice Skoy, Minneapolis
 Joyce Poole Lucille Sladek, Minne-
 apolis
 Carol Rae Smith, Onamia
 Michael Larrey Smith, St. Paul
 Randall Edgar Smith, Edina,
 CUM LAUDE, Romance Languages
 Terry Kent Solie, Winger
 Allan Irwin Soposnick, A.A., Minne-
 apolis
 Robert Marks Spector, Chisholm
 John Eldon Stensether, Minneapolis
 John Thomas Stepkala, Minneapolis
 William Bradley Stevens, Minneapolis
 Robert Wesley Stewart, Minneapolis
 Thomas David Stuermer, Burnsville
 Rachele Ann Tarte, Rosemount
 Arlene Rosenblum Tennenhouse,
 Grand Forks, N.D.
 Murray Allan Thale, Los Angeles,
 Calif.
 James William Toskas, Mankato,
 CUM LAUDE, Chemistry
 Sue Margaret Tuchfarber, White Bear
 Lake
 Clifford Dale Ulmer, A.A., Lemons,
 Mo.
 Ilse Vinson, Minneapolis
 Michael Earl Von Ende, Osseo
 Vincent Michael Wagner, St. Paul
 John Charles Walsh, St. Paul
 Richard Alan Wandersee, Minneapolis
 Kathryn Joyce Welsh, Edina

Hubert William White III, St. Paul
Karen Lea Knowles Whiting,
Plymouth, Wis.

Nancy E. Matthews Wiggins, Minne-
apolis, *SUMMA CUM LAUDE*, History
Robert Eugene Williams, Minneapolis

COLLEGE OF EDUCATION

Bachelor of Science

Richard Allwin Arndt, A.A., Pine
Island
Esther Norha Babiracki, Minneapolis,
WITH HIGH DISTINCTION
Robert Edwin Bailey, Jr., B.A., North-
field
Thomas LeRoy Baker, Minneapolis,
WITH HIGH DISTINCTION
Judy Ann Balle, St. Peter
Thomas Edward Barnes, St. Paul
Georgia Ann Karner Bemis, South St.
Paul
Leslie Ann Blanchard, Minneapolis
Mary Frances Brasted, St. Paul
Elaine Marie Brudos, Minneapolis
Gaylord Arnold Budd, Minneapolis
Kathleen Susan Anderson Carlson,
Braham
Keith Edward Carlson, A.A., West
St. Paul
Patricia Lee Connors, Waconia,
WITH DISTINCTION
Eleanor Bishop Conrad, A.L.A.,
Bloomington
Patricia Ann Dayton, Tracy
Mary Forsch Delaney, Minneapolis
Bonita Veronica Doffing, Hastings
Mildred Homola Drake, Edina
Lois Vivian Drobnick, Bovey
Susan Eileen Femrite, Minneapolis
Bethel Christie Flikke, Minneapolis
Sonia Shirley Fogelman, B.A., Minne-
apolis
Karen Jeanne Kvanbeck Frank, Min-
neapolis
Louise Esther Glaser, A.A., B.A.,
Montrose, Pa.
Arlene Louise Gustafson, Minneapolis
Luaina Lewis Hagen, Glenwood
Gail Lavonne Wood Hanka, Minne-
apolis
Lela Belle Heuer, Minneapolis

Kimball Edward Hodge III, Mound
Mary Kathryn Kuphal Horton, Minne-
apolis
Judith Lynn Hull, Edina
DeeAnn Elsie Thompson Hunke,
Minneapolis
Helen Jane Jackson, Duluth, WITH
DISTINCTION
Leonard William Jackson, St. Louis
Park
William Haughey James, Anoka
Sara Breslin Johnson, Mahtomedi
Eleanor Heck Kalkes, St. Paul
Jeanne Katherine King, Blooming
Prairie
Dianne Marie Koehnecke, St. Cloud
Carol Sue Koontz, Edina
Suzanne Mary Arnold Kosanke, St.
Paul, WITH DISTINCTION
Glenn Burnell Lewis, B.A., M.B.A.,
Circle Pines
Meredith Ann Luhmann, Richfield
Constance Jane Magnuson, St. Paul,
WITH DISTINCTION
Janice Gay Minton, Minneapolis
Thomas Allen Montgomery, Minne-
apolis
Carol Clemens Moore, A.L.A., Min-
neapolis
Helen B. Neese, Aitkin
Carol Jane Nelson, St. Paul
Erla Jean Emily Kyllonen Nelson,
Annandale, WITH DISTINCTION
James Alan Nixon, A.A., Ely
Karen Ann Nottbohm, St. Paul
Alice Jean Parten, Minneapolis, WITH
DISTINCTION
Darlene Mary Pascoe, A.A., Richfield
George Theodore Perkins, B.A., Ex-
celsior
David Harold Peterson, Cloquet
James David Peterson, Minneapolis

Lynn Kathleen Portel, St. Paul, WITH
DISTINCTION
Sandra Lee Rud, Fridley
Miriam Ruth Sadoff, Minneapolis
Judith Arlene Santee, St. Paul
Virginia Louise Sathre, Minneapolis
Constance Marie Saunders, Minne-
apolis
Barbara Helen Skoog, St. Paul
William Bradley Stevens, Minneapolis
Kay Fischer Stivland, Glenwood, WITH
DISTINCTION
Gladys A. Stubenberg, Minneapolis,
WITH DISTINCTION
Georgan Elaine Hellman Swartz,
Minneapolis
Ardella Dec Templeton, Garden
Grove, Calif.

James Dietrich Thomas, Edina
Georganne Dietrich Thorne, Minne-
apolis
Mary Gail Veiman, Anoka
William Richard Warner, Minne-
apolis, WITH DISTINCTION
James Jerome Weinhaus, St. Paul
Jane Steinhart West, Wauwatosa,
Wis.
Richard Daniel Western, B.A., St.
Paul
Jean Marie Westman, Wayzata, WITH
DISTINCTION
Jessie Alpha Elnes Wicker, St. Paul
Joanne Janice Wilke, Detroit Lakes,
WITH DISTINCTION
Sheila June Dandurand Wright, Hop-
kins

Master of Education

Robert Wayne Beard, B.S., Inver
Grove Heights
Richard James Cunningham, B.S.,
Minnetonka
Lois Ellen Devereaux, B.S., Minne-
apolis
Susan Antoinette Felling, B.A., St.
Joseph, Mo.
Dwaine Richard Glasenapp, B.S.,
Hastings
Elizabeth Ann Hanson, A.A., B.A.,
Fergus Falls
Ada Bailey Hargens, B.S.N., St. Paul

Mary Agnes Killalea, B.S., Devils
Lake, N.D.
Dean Alan Maas, B.S., St. Paul
Jean Patricia Pecchia, B.S., Nashwauk
Joyce Miriam Schowalter, B.S.N.,
M.N.A., Minneapolis
Dawn Rose Shearer, A.A., B.S., St.
Paul
Jean Fletcher Steadman, B.S.N., St.
Paul
Martha Ellen Diggs Yucel, B.S.,
Richfield

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

Bachelor of Science

Joanne Karna Erickson, New Ulm,
Home Economics Education
Roger Lee Fransen, Jackson, Agricul-
tural Education
Keith Arnold Hanson, St. James, Agri-
cultural Education

Charles Bryant Kelly, Houston, Agri-
cultural Education
Judith Magler Nelson, St. Paul, Home
Economics Education

UNIVERSITY COLLEGE

Bachelor of Science

Larry Paul Golden, St. Paul

Elise Reed, Edina

UNIVERSITY OF MINNESOTA, MORRIS

Bachelor of Arts

Kenneth Clark Denhardt, Alexandria
Margie Ann Jackson, Morris

Karen Lee Johnson, Walnut Grove
Orin Paul Trelstad, Appleton

INSTITUTE OF TECHNOLOGY

Bachelor of Aeronautical Engineering

Larry Burton Keen, Minneapolis, WITH HIGH DISTINCTION

Bachelor of Architecture

Thomas LaVerne Clark, B.A., Minneapolis

Bachelor of Chemistry

Paul Ellis Fagerness, Centralia, Wash.,
WITH DISTINCTION

Jacqueline Carrol Curtis Wright, Pine
Island

John Hamilton Mantis, St. Paul

Bachelor of Civil Engineering

Thomas Hudson Glenn, Minneapolis

Bachelor of Electrical Engineering

Robert Willard Brophrey, Minneapolis,
WITH DISTINCTION

Robert Wos Callaghan, Jr., Minne-
apolis

Richard Leo Donovan, Hartland

James Dennis Lange, St. Paul

Sang-Joon Lee, Seoul, Korea

Jerald Austin Moon, Plainview, WITH
DISTINCTION

Paul Tadashi Nakaniski, White Bear
Lake

Thomas Michel Nyzstoz, Puerto
Ordaz, Venezuela

Douglas Donald Post, West St. Paul

Gregory Terrence Rotter, St. Paul

Robert Edward Straka, St. Paul

Ramer Weld Streed, Robbinsdale

Jerry Thomas Thatcher, Mankato

Mark Oliver Waldof, Minnetonka

Gerald Raymond Willenbring, Vir-
ginia, WITH DISTINCTION

Bachelor of Mathematics

David Victor Strimling, St. Louis Park Christopher Robert Willis, Richfield,
WITH DISTINCTION

Bachelor of Mechanical Engineering

George Gary Hallin, Excelsior James Gordon Lilyquist, Duluth
Henry Arthur Hanson, St. Paul, WITH Michael Joseph Riley, Morris, WITH
DISTINCTION DISTINCTION

Bachelor of Mineral Engineering

John Wesley Hughes, Minneapolis

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

Bachelor of Science

Richard Mark Anthony, Duluth, For- Roger Norman Johnson, Minneapolis,
estry Agriculture
Loren Louis Bahls, St. Paul, Agri- Virginia Gayle Miller, Wayzata,
culture, WITH DISTINCTION Home Economics
Cheryl Ann Boline, Richfield, Home Mary Jo Soldin, St. Paul, Home Eco-
Economics nomics
Ross Carter Grotbeck, Minneapolis, Duane Dale Westergaard, Dell Rapids,
Agriculture S.D., Agriculture

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Richard Edward Adams, St. Paul Glenn Walter Keller, Minneapolis
Gary Alfred Andersen, B.E.E., Lynd, Edward James Kotrich, Jr., Minne-
WITH DISTINCTION apolis
Richard Alan Beck, Minneapolis Theodore Stanley Lukaska, Minne-
Richard Herbert Cox, Cedar apolis
James Earl Flaskerud, A.A., Brainerd Bruce Mitchell Melemed, St. Paul
David Glen Fulcher, Robbinsdale Lawrence James Miller, Minneapolis
James Michael Gordon, Minneapolis Walter Raymond Nelson, Minneapolis
James Harold Jesseau, Rochester, WITH Paul Mark Rivard, Stephenson, Mich.
DISTINCTION Peter Allen Rogstad, Detroit Lakes
Claus Jurgen Joens, Minneapolis Margaret Smith Schwantes, Cushing,
James Gordon Jorgenson, Minneapolis Okla., WITH DISTINCTION
Howard Lewis Kaplan, St. Paul Richard Thomas Smith, Minneapolis

Juergen Achim Speer, Minneapolis
Darrell Kenneth Springborn, Stillwater
Robert William Stanger, South St.
Paul
Robert Martin Stankovich, Minne-
apolis

Thomas Irving Swanson, Richfield
Dale Joseph Taylor, Minneapolis
Michael Wade Tenney, St. Paul
Daniel Arthur Wermus, St. Paul

Bachelor of Science in Economics

Alan Luther Bonander, Minneapolis
Dennis Stephen Dancik, Minneapolis
Bruce Gerald Ferrario, St. Cloud
Donald John Hagquist, Aitkin
Kenneth Leonard Kath, St. Paul
Douglas Michael Landry, Minneapolis

Stanley John Mestnik, St. Paul
Gary Keith Sandwick, Minneapolis
Jon David Saunders, Minneapolis,
WITH DISTINCTION
Charles Willard Swanson, Fergus Falls

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

Bachelor of Agricultural Business Administration

Patrick James Haley, Braham

Jerome Bernard Wendorff, Hutchin-
son

LAW SCHOOL

Bachelor of Laws

K-John Cheung, B.S., Kowloon, Hong
Kong
Allen Burton Hyatt, B.A., Anoka
Marvin Chris Ingber, B.A., Minne-
apolis

Marx William Swanholm, B.A., Min-
neapolis
Margaret Betty Vandepas, B.A., Min-
neapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Eric August Henry Hesse, Stacy,
Medical Technology*
David George Levitt, St. Paul, Medi-
cine

Kathleen Camille Pothén, West St.
Paul, Medical Technology*

* These degrees are conferred subject to the completion of practical work prior to December 17, 1966.

Master of Public Health

Brian Adam Burnett, B.A., Miami,
Manitoba, Canada**

Virgil Alvah Cook, B.S., Welch,
W.Va.**

Jerome Archie Erickson, B.S., Man-
kato**

Shirley Kathleen Harrington, B.S.,
Bakersfield, Calif.

Gonzalo Jose Prospero, Civil Engineer,
Caracas, Venezuela

Katie P. Young, B.S., Atlanta, Ga.**

Mozell Sudi Zarit, B.S., Denver,
Colo.**

GRADUATE SCHOOL

Master of Architecture

Mingche Li, Kaohsiung, China

B.Sc. with distinction '63, Taiwan Provincial
Cheng Kung University (China). Major: Archi-
tecture. Thesis: A Residential Satellite. Major
Adviser: Prof. W. K. Vivrett.

Lawrence Allen Robbins, Flint, Mich.

Bach. of Arch. '61, University of Michigan.
Major: Architecture. Minor: Art. Thesis: Anal-
ysis and Design of an Intermediate Shopping
Center. Major Adviser: Prof. R. E. Rapson.

Thomas E. Selck, Columbus, Ohio

B.Arch. '63, Miami University. Field of Con-
centration: Architecture. Major Adviser: Prof.
W. K. Vivrett.

Master of Arts

Donovan Owen Adamek, Minnetonka
B.S. '48, University of Minnesota. Field of
Concentration: Educational Administration.
Major Adviser: Prof. C. P. Hooker.

Sister Ardell Adams, O.S.B., Jordan

B.E. '59, St. Scholastica College. Field of Con-
centration: Education. Major Adviser: Prof.
R. O. Sielaff.

Ioah Katherine Andres, Esko

B.Ed. '32, University of Minnesota. Field of
Concentration: Education. Major Adviser:
Prof. R. O. Sielaff.

Douglas James Bade, Chaska

B.S. '47, University of Minnesota. Field of
Concentration: Agricultural Education. Major
Adviser: Prof. G. I. Swanson.

Antonio Barberena, Cali, Colombia,
South America

B.A. '64, University of Los Andes (Colombia).
Field of Concentration: Economics. Major
Adviser: Prof. O. H. Brownlee.

Betty Faye Anderson Beach, Wadena

B.S. with honors '62, St. Cloud State College.
Field of Concentration: Educational Psychol-
ogy. Major Adviser: Prof. D. H. Blocher.

Cynthia Martens Beatty, Eagle Grove,
Iowa

B.A. '65, University of Iowa. Field of Con-
centration: Library Science. Major Adviser:
Prof. R. H. Shove.

Jane Ann Bergman, St. Paul

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

** These degrees are conferred subject to the completion of field work prior to December 17, 1966.

Michael Norton Blustein, Minneapolis
B.A. *summa cum laude* '64, Hamline University. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

Norman Eugene Bohmbach, Osakis
B.S. with distinction '58, University of Minnesota. Field of Concentration: Agricultural Education. Major Adviser: Prof. R. P. Marvin.

Frank Douglas Bolstorff, Grand Rapids
B.S. '55, University of Minnesota. Field of Concentration: Physical Education. Major Adviser: Prof. R. E. McAdam.

Barbara Jayne Knodt Boyd, Richfield
B.A. '57, Carleton College. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tennyson.

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B.S. '58, University of Minnesota. Field of Concentration: Art Education. Major Adviser: Prof. W. R. Hastie.

Elizabeth Jane Briar, Bemidji
B.A. '64, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. W. C. Simonton.

Zita Marie Brown, Dickinson, N.D.
B.A. '63, Stanford University. Field of Concentration: Psychology. Major Adviser: Prof. M. D. Dunnette.

Theodore Leroy Campbell, Minneapolis
B.S. '56, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

Jack Lee Carlson, Cedar Rapids, Iowa
B.A. '62, State College of Iowa. Field of Concentration: Educational Psychology. Major Adviser: Prof. F. B. Wilderson, Jr.

Margaret Jean Chapin, Rochester, N.Y.
B.S. '64, State University College of Education (New York). Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. D. G. Force, Jr.

Norah Carol Chase, Jamaica, N.Y.
B.A. '63, Hofstra University. Field of Concentration: Comparative Literature. Major Adviser: Prof. G. R. Stange.

Robert Timothy Chasson, Nahant, Mass.
B.A. '64, Washington University. Field of Concentration: French. Major Adviser: Prof. A. A. Renaud.

Robert Beatty Chisholm, Regina, Saskatchewan, Canada
B.A. '55, B.Ed. with distinction '61, University of Saskatchewan. Field of Concentration: Educational Psychology. Major Adviser: Prof. Robert Orlando.

John William Couture, Pelican Rapids
B.S. '57, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. R. W. House.

Jean Edith Crassweller, Duluth
B.S. '48, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

Dorota Czarkowska-Starzecka, Warsaw, Poland
Certificate of English Philology '60, University of Warsaw (Poland). Major: Anthropology. Minor: Linguistics and Comparative Philology. Thesis: The Gender of English Loanwords in American Polish of the Polish Community of Minneapolis. Major Adviser: Prof. P. J. Pelto.

Sister Eucharista Dalbec, Duluth
B.A. '39, College of St. Scholastica. Field of Concentration: Educational Psychology. Major Adviser: Prof. E. P. Torrance.

Logan Douglas Dameron, Phoenix, Ariz.
B.A. '55, Stanford University. Field of Concentration: Library Science. Major Adviser: Prof. Y. N. Vander Boom.

Gloria Jean Davis, Minneapolis
B.A. *magna cum laude* '64, University of Minnesota. Field of Concentration: Psychology. Major Adviser: Prof. R. G. Warmken.

Robert S. Duoos, Cambridge
B.A. '49, Augsburg College. Field of Concentration: Education. Major Adviser: Prof. W. E. Gardner.

Jean Baumgartner Eckhoff, Brownsville, Tex.

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. W. E. Gardner.

Walter Henry Englehardt, St. Paul

B.A. '39, Midland College; M.A. '43, University of Nebraska. Field of Concentration: German. Major Adviser: Prof. Herman Ramras.

Henry John Etten, Boyd, Wis.

B.A. '59, Holy Cross Seminary; B.S. '62, University of Wisconsin (Eau Claire). Field of Concentration: Educational Psychology. Major Adviser: Prof. R. R. Houchins.

Richard Frank Falk, Jr., St. Paul

B.A. '64, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. Rene Dawis.

Marvis Jean Woods Ferguson, Richfield

B.S. with distinction '63, University of Minnesota. Major: Speech Pathology and Audiology. Minor: Child Psychology. Thesis: The Effects of Training and Experience on the Verbal Behavior of Young Adults with Institutionalized Mentally Retarded Children. Major Adviser: Prof. G. M. Siegel.

Larry Lee Fleming, Minneapolis

B.M. '60, Concordia College. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

Barbara Jones Fraser, Minneapolis

B.S. (Educ.) '42, University of Wisconsin (Madison). Field of Concentration: Educational Psychology. Major Adviser: Prof. Theda Hagcnah.

Carol Lorene Friesen, St. Paul

B.A. with high honors '61, Tabor College. Field of Concentration: Educational Psychology. Major Adviser: Prof. F. B. Wilderson, Jr.

Susan West Furniss, Ft. Collins, Colo.

B.A. '46, Smith College. Major: Library Science. Minor: Political Science. Thesis: The Ability of Political Science Majors at Colorado State University to Use Library Resources: A Measure and an Evaluation. Major Adviser: Prof. D. K. Berninghausen.

Victor Earl Gebauer, Chicago, Ill.

B.A. with high distinction '60, Concordia Senior College; B.D. '64, Concordia Seminary. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

Arnold Aaron Gerstein, Minneapolis

B.A. '65, Hebrew University (Jerusalem). Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Michael Wilson Gillespie, Cloquet

B.A. cum laude '63, University of Minnesota. Major: Sociology. Minor: Political Science. Thesis: Adjustment to Economic Dependence: A Study of the Self-Esteem of Old Age Assistance Recipients. Major Adviser: Prof. R. G. Francis.

Ann Christine Glenn, Elkader, Iowa

B.A. '62, Clarke College. Major: Library Science. Minor: English. Thesis: A Citation Analysis of Doctoral Dissertations in Chemistry at the University of Minnesota From 1958 to 1962. Major Adviser: Prof. W. C. Simonton.

Helen Ingels Goldberg, Stillwater

B.S. '51, Wisconsin State Teachers College (River Falls). Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. S. B. Kegler.

Jo-Ann Marie Golle, Philadelphia, Pa.

B.S. with distinction '63, University of Minnesota. Major: Speech Pathology and Audiology. Minor: Child Psychology. Thesis: The Effects of Variations in Adult Type-Token Ratio on Word Output of Retarded Children. Major Adviser: Prof. G. M. Siegel.

Robert Conroy Greene, Homer, Alaska

B.S. '62, Wisconsin State College (Superior). Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. C. M. Milbrath.

Bernice Olson Gunderson, Duluth

B.S. '62, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

Rodney Lee Halunen, Oakland, Calif.

B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. M. L. Lindquist.

William Donald Hammel, Hopkins

B.S. '58, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tennyson.

Nicholas Joseph Hassfeldt, Staples

B.S. '58, Mankato State Teachers College. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. E. Dugan.

Linda Weiner Hausman, Minneapolis

B.A. with distinction '65, State University of Iowa. Field of Concentration: Journalism. Major Adviser: Prof. G. S. Hage.

Ann Vera Broms Hechter, St. Paul

B.S. with distinction '60, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. J. R. Curtin.

Audrey Heriot, St. Paul

B.S. '64, Wisconsin State College (River Falls). Field of Concentration: Art Education. Major Adviser: Prof. C. A. Gayne.

Rose Mary Harmeier Hoene, Duluth

B.A. '48, State University of Iowa (Iowa City). Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. W. M. Wells.

Mary Ann Holliday, Hibbing

B.S.B.A. '63, Washington University. Field of Concentration: Economics. Major Adviser: Prof. N. J. Simler.

Charles Russel Hopkins, Villard

B.S. '60, St. Cloud State College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. G. Price.

Karl Flint Jacobs, Minneapolis

B.A. '61, University of Minnesota. Field of Concentration: Psychology. Major Adviser: Prof. R. D. Wirt.

Gerald Bruce Jacobsen, St. Paul

B.S. *summa cum laude* '63, Hamline University. Field of Concentration: Mathematics. Major Adviser: Prof. W. E. Pruitt.

David Walter Johnson, White Bear Lake

B.A. '58, B.S. '60, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. C. H. Boeck.

Dean Edward Johnson, Buffalo

B.S. '38, Wisconsin State College (River Falls). Field of Concentration: Industrial Education. Major Adviser: Prof. H. F. Nelson.

Gordon Allen Johnson, Soudan

B.S. *cum laude* '55, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. O. Sielaff.

Keith Francis Johnson, Aberdeen, S.D.

B.S. '61, Northern State College. Field of Concentration: Journalism. Major Adviser: Prof. E. W. Emery.

Genevieve E. Rasmussen Jones, Rochester

B.A. '37, St. Olaf College. Field of Concentration: Educational Psychology. Major Adviser: Prof. C. A. Parker.

Marsha Kay Jones, Hampton, Iowa

B.F.A. '59, Drake University. Field of Concentration: Art Education. Major Adviser: Prof. C. A. Gayne.

Roey Merrill Jones, Albany, Ore.

B.S. '53, Oregon State College. Field of Concentration: Journalism. Major Adviser: Prof. H. W. Wilson.

Marvin Lewis Juel, Orland Park, Ill.

B.S. with honors '55, Wisconsin State College (LaCrosse). Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. D. A. Johnson.

Sister Janelle Kadlecck, C.S.J., Huron, S.D.

B.A. '56, The College of St. Catherine. Major: Music. Minor: Music Education. Thesis: *The Devil as a Character in Opera Related to the Prevailing Religious Attitudes*. Major Adviser: Prof. Johannes Riedel.

Clinton Carl Kasma, Little Falls

B.S. '57, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. E. Dugan.

Kenneth Wright Kelsey, Madelia

B.S. '62, Mankato State College. Field of Concentration: Education. Major Adviser: Prof. C. H. Boeck.

Adrienne Ricarda KinKaid, Chicago, Ill.

B.A. '58, University of Chicago. Major: Educational Psychology. Minors: Child Psychology and Curriculum and Instruction. Thesis: A Developmental Approach to Children's Imaginative Stories. Major Adviser: Prof. E. P. Torrance.

Charles Dean Kjolhaug, Duluth

B.S. '55, Bemidji State. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. V. R. Plumb.

John Norton Kondrasuk, Gilman, Wis.

B.S. *cum laude* '64, Wisconsin State College (Eau Claire). Field of Concentration: Psychology. Major Adviser: Prof. R. G. Warnken.

Thomas Nick Lagather, Chisholm

B.S. '60, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. R. O. Sielaff.

David Andrew Lanegan, St. Paul

B.A. '63, Macalester College. Field of Concentration: Geography. Major Adviser: Prof. J. O. M. Brock.

Sylvia Martinsen Lange, Robbinsdale

B.A. *magna cum laude* '56, University of Minnesota. Major: German. Minor: French. Thesis: The Father-Son Motif in Relations to the Theme of Transformation in Barlach's *Der Tote Tag and Die Sundflut*. Major Adviser: Prof. Herman Ramras.

Dorothy Christman Lilja, Minneapolis

B.A. '62, Chatham College. Major: Political Science. Minor: Sociology. Thesis: The Career Lobbyist in the Minnesota Legislature. Major Adviser: Prof. F. D. Sorauf.

Lorene Mathwig Linder, DeKalb, Ill.

B.S. *cum laude* '33, Gustavus Adolphus College; B.S. of L.S. '47, University of Minnesota. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Loren Harold Lindholm, Ortonville

B.S. '60, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. F. B. Wilderson, Jr.

Patricia Marie Loving, Albert City, Iowa

B.A. '61, State College of Iowa. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.

Carol Irene Lynch, St. Paul

B.A. '57, The College of St. Catherine. Field of Concentration: French. Major Adviser: Prof. J. L. Waldauer.

Emil Victor Magnuson, Thief River Falls

B.S. '59, University of Minnesota. Field of Concentration: Industrial Education. Major Adviser: Prof. H. F. Nelson.

Max Adrian Malmquist, North Branch

B.A. *cum laude* '62, B.S. '63, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. C. H. Boeck.

Charles Howard Mannel, Sr., Duluth

B.S. '58, University of Maryland. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. D. A. Crawford.

Rudolf Martignacco, Minneapolis

B.S. '57, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. E. M. Birkmaier.

Myrna See Matheson, Duluth

B.A. *cum laude* '56, Wartburg College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

Wayne A. Meisner, Thief River Falls

B.S. '58, University of Colorado; B.S. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. W. G. Meyer.

Kenneth Herbert Mills, Brainerd

B.S. '62, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. W. G. Meyer.

Harold Lloyd Montzka, Grey Eagle

B.S. '57, University of Minnesota. Field of Concentration: Industrial Education. Major Adviser: Prof. W. A. Kavanaugh.

Ouida Fae Morris, Shreveport, La.

B.S. *cum laude* '56, Centenary College of Louisiana. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. M. C. Reynolds.

Ruth Albers Mueller, St. Cloud

B.S. '56, St. Cloud State College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. G. L. Bond.

Leonard LeRoy Munson, St. Paul

B.S. with distinction '63, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. C. H. Boeck.

Curtis LeRoy Nelson, Hastings

B.S. '61, University of Minnesota. Field of Concentration: Agricultural Education. Major Adviser: Prof. M. J. Peterson.

Keith William Nelson, Rochester

B.S. '60, Winona State College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. G. Price.

John Douglas O'Brien, Jr., Wayzata

B.A. '55, B.S. '62, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. J. R. Curtin.

Robert Frank Pavich, Duluth

B.S. '61, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

Lynnanne Perrin, Muncie, Ind.

B.A. '61, Ball State Teachers College. Field of Concentration: History and Philosophy of Education. Major Adviser: Prof. A. L. Bagley.

Craig Edwin Peterson, Duluth

B.S. '62, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. W. M. Wells.

Ralph John Peterson, Minneapolis

B.A. '59, Gustavus Adolphus College. Field of Concentration: Economics. Major Adviser: Prof. J. G. Turnbull.

Richard George Peterson, Minneapolis

B.A. '49, B.S. '51, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. C. Reynolds.

Philip John Pettman, Minneapolis

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B.S.(Educ.) '49, The University of Wisconsin (Madison). Field of Concentration: Education. Major Adviser: Prof. C. H. Boeck.

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B.A. '61, Macalester College. Field of Concentration: Library Science. Major Adviser: Prof. W. C. Simonton.

Lyle Edwin Rahn, Rosemount

B.S. '59, University of Minnesota. Field of Concentration: Industrial Education. Major Adviser: Prof. W. A. Kavanaugh.

Richard Lynn Ramberg, Minneapolis

B.A. '63, University of Minnesota. Major: Political Science. Minor: Journalism. Thesis: The French Cabinet, A Temporal Comparative Study. Major Adviser: Prof. R. T. Holt.

Grace Irene Ramseyer, Minneapolis

B.S. in Nurs. '54, Marquette University; B.S. '64, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. D. G. Force, Jr.

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Edward Allen Rapp, Coon Rapids

B.S. *cum laude* '54, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tennyson.

Marvin L. Rapp, Le Sueur

B.S. '52, Northern State Teachers College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. G. Price.

Madeleine Suzanne Renaud, Paris, France

B.A. '55, Roosevelt University. Field of Concentration: Education. Major Adviser: Prof. E. M. Birkmaier.

George Calvin Reynolds, St. Louis Park

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George Theodore Rivers, White Bear Lake

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John Henry Rix, LeMars, Iowa

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Bennett Klein Roberts, Chisholm

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B.A. '59, Bishop's University. Field of Concentration: Library Science. Major Adviser: Prof. N. J. Freeman.

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Teacher's Diploma with distinction '63, Concordia Teachers College. Field of Concentration: Educational Psychology. Major Adviser: Prof. B. E. Balow.

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B.Sc. Home Econ. '63, University of Stellenbosch (South Africa). Major: Home Economics. Minor: Art. Thesis: A Study of the Way A Selected Group of Minneapolis, Minnesota, Designers Work When Designing Apparel. Major Adviser: Prof. Gertrude Esteros.

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B.A. with honors '60, Bethel College. Field of Concentration: Educational Psychology. Major Adviser: Prof. D. H. Blocher.

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Major Adviser: Prof. W. E. Gardner.

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B.S. '50, Hamline University. Field of Con-
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Concentration: Education. Major Adviser:
Prof. V. R. Plumb.

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B.A. '63, Gustavus Adolphus College. Field
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Major Adviser: Prof. A. H. Ballet.

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B.S. in Bus. Ed. '58, University of Oklahoma.
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B.A. '47, B.S. '62, University of Minnesota.
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Major Adviser: Prof. D. K. Berninghausen.

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Major Adviser: Prof. A. F. Caswell.

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Boeck.

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B.S. '52, Winona State College. Field of Con-
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apolis

B.S. '45, Oshkosh State Teachers College. Field
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Major Adviser: Prof. N. C. Chase.

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B.S. '56, Winona State Teachers College. Field
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Adviser: Prof. R. J. Donnelly.

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B.A. '58, St. John's University (Collegeville).
Field of Concentration: Educational Psychol-
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B.A. '62, St. Olaf College. Field of Concen-
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David Lee Wettergren, St. Peter

B.A. '61, Gustavus Adolphus College. Field
of Concentration: Educational Administration.
Major Adviser: Prof. S. H. Popper.

John Lee Weyland, Minneapolis

B.A. '64, University of Minnesota. Major: His-
tory. Minor: Political Science. Thesis: Ameri-
ca's China Policy, 1945-50, and Its Missionary
Aspects. Major Adviser: Prof. K. J. Brauer.

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B.S. '62, University of Minnesota. Field of
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Major Adviser: Prof. W. M. Wells.

Paul Henry Wilken, Danforth, Ill.

B.A. *summa cum laude* '64, Wartburg College.
Major: Sociology. Minor: Political Science.
Thesis: Organizational Size and Member Par-
ticipation: A Study of Lutheran Church Youth.
Major Adviser: Prof. A. L. Johnson.

John Richard Wolf, St. Paul

B.S. '61, University of Minnesota. Field of Concentration: Physical Education. Major Adviser: Prof. J. F. Alexander.

Milton William Wykoff, Corry, Pa.

B.A. '60, Pennsylvania State University. Major: Sociology. Minor: Philosophy. Thesis: The Theory of Signs in Charles Sanders Pierce and Its Relevance for Research in Sociolinguistics. Major Adviser: Prof. D. A. Martindale.

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B.A. '59, University of the Sacred Heart (Japan). Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. C. Chase.

Master of Arts in Public Administration

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B.A. '63, University of Minnesota. Major: Public Administration. Thesis: A Study of the Changing Characteristics of Candidates for Municipal Office in a Developing Suburban Municipality. Major Adviser: Prof. G. A. Warp.

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B.A. '51, Kabul University (Afghanistan). Major: Public Administration. Thesis: Personnel Turnover in the Minnesota State Government, 1961-1965. Major Adviser: Prof. G. A. Warp.

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B.A. '65, University of Minnesota. Major: Public Administration. Thesis: Organizational Arrangements for Automatic Data Processing in the Federal Government. Major Adviser: Prof. G. A. Warp.

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Bach. of Soc. Sci. '54, St. Mary's College. Major: Public Administration. Thesis: Major Issues in the Administration of a Counseling Service in a Divorce Court: With Special Reference to the Family Court of Hennepin County. Major Adviser: Prof. G. A. Warp.

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Master of Business Administration

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Peter David Olson, Minneapolis

B.A. '64, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffman.

Master of Fine Arts

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B.A. '62, University of Minnesota. Field of Concentration: Music. Major Adviser: Prof. R. A. Schuessler.

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B.A. with honors '64, North Texas State University. Field of Concentration: Music. Major Adviser: Prof. R. A. Schuessler.

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B.A. '64, University of Minnesota. Field of Concentration: Art. Major Adviser: Prof. M. H. Myers.

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B.A. '64, University of Minnesota. Field of Concentration: Art. Major Adviser: Prof. M. H. Myers.

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B.A. '62, Drake University. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

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B.A. '64, San Diego State College. Field of Concentration: Art. Major Adviser: Prof. M. H. Myers.

Master of Science

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B.V.Sc. '58, Bihar University (India). Major: Veterinary Physiology and Pharmacology. Minor: Biochemistry. Thesis: The Pharmacology of Aminopyrine in Dairy Cattle. Major Adviser: Prof. A. L. Good.

Catherine Ann Bauer, Belleville, Ill.

B.S. with honors '63, St. Louis University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Respiratory Control Ratios, Endogenous Substrates, and the Nature of Substrate Metabolism by Heart Muscle Mitochondria of Several Species. Major Adviser: Prof. R. W. VonKorff.

David Clarence Bernard, Grand
Rapids

B.S. '62, Bemidji State College. Field of Concentration: Genetics. Major Adviser: Prof. W. E. Rempel.

Joseph Edward Cinereski, Dunnellon,
Fla.

B.S. with honor '64, Ohio University. Major: Entomology. Minor: Plant Pathology. Thesis: Oviposition of the Northern Corn Rootworm, *Diabrotica longicornis* (Say), Under Field Conditions. Major Adviser: Prof. H. C. Chiang.

William Edgar Clark, Rochester

B.S.M.E. with distinction '64, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Concentration and Size Distribution of Atmospheric Aerosol. Major Adviser: Prof. K. T. Whitby.

Ernest Corker, Climax, Ga.

B.S. '55, Fort Valley State College; D.V.M. '62, Tuskegee Institute. Major: Veterinary Physiology and Pharmacology. Minor: Microbiology. Thesis: The Secretion of Certain Drugs Into the Bovine Rumen-Reticulum. Major Adviser: Prof. C. M. Stowe.

David Willis Drummond, Minne-
apolis

B.S. '62, California Institute of Technology. Field of Concentration: Environmental Health. Major Adviser: Prof. R. G. Bond.

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Agr. Eng. Certificate '61, Agrarian University (Peru). Field of Concentration: Business Administration. Major Adviser: Prof. J. R. Nelson.

John Stewart Elam, Mound

B.A. '63, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Effect of Ultraviolet Irradiation of T2 Bacteriophage on the Control of Enzyme Synthesis in Infected Cells. Major Adviser: Prof. J. K. Koerner.

Elizabeth Sandness French, St. Paul

B.S. with distinction '62, University of Minnesota. Major: Home Economics. Minor: Educational Psychology. Thesis: Effect of Various Levels of Abrasion on Cotton and Part Cotton Fabrics of Known Construction. Major Adviser: Prof. Suzanne Davison.

Francis Marino Gasparini, Philadelphia, Pa.

B.S. in Phy. '64, Villanova University. Field of Concentration: Physics. Major Adviser: Prof. S. G. Gasiorowicz.

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B.A. '59, Rockford College. Major: Biophysics. Thesis: Simulation of Blood-Glucose Regulation. Major Adviser: Prof. Eugene Ackerman.

Chester Lee Goodrich, Gibson City, Ill.

B.S. (Agric.) '63, University of Illinois. Major: Genetics. Minor: Statistics. Thesis: Inbreeding Depression in a Double Cross Corn Hybrid (*Zea mays*). Major Adviser: Prof. J. C. Sentz.

John Hemmingston Hill, Evanston, Ill.

B.A. '63, Carleton College. Major: Plant Pathology. Minor: Botany. Thesis: Toxicity of a Culture Filtrate From *Helminthosporium Sorokinianum* to *Puccinia Graminis* Var. *Tritici*, Race 32. Major Adviser: Prof. Helen Hart.

Roger Louis Hintze, Spring Valley

B.S. '63, University of Minnesota. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: Adaptation of the *Mollis Azalea* to Pot Plant Culture. Major Adviser: Prof. R. E. Widmer.

Bonnie Marie Hohn, Cincinnati, Ohio

B.A. '63, Ohio Wesleyan University. Major: Fisheries and Wildlife. Minor: Botany. Thesis: Movements and Activity Patterns in a Population of Thirteen-Lined Ground Squirrels, Itasca State Park, Minnesota. Major Adviser: Prof. W. H. Marshall.

Mengistu Hulluka, Addis Ababa, Ethiopia

B.S. '63, Haile Sellassie I University. Major: Plant Pathology. Minor: Forestry. Thesis: The Reaction of Seedling and Adult Plants of 45 Varieties and Lines of Oats to 28 Physiologic Races of *Puccinia Graminis* Var. *Avenae*. Major Adviser: Prof. M. F. Kernkamp.

Gordon Henry Jensen, Lafayette, Calif.

B.Pharm. '64, University of Colorado. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

Howard Beattie Johnson, Petaluma, Calif.

B.S. with honors '58, College of Pacific. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Rate Constants for the Formation and Dissociation of cis-and Trans-CrCl₂⁺. Major Adviser: Prof. W. L. Reynolds.

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B.S.B. '64, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffman.

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Juanita Dahlberg Marotta, St. Louis Park

B.A. *cum laude* '40, Gustavus Adolphus College. Major: Botany. Minor: Zoology. Thesis: Factors Associated With the Vegetation Pattern in a Wetland Ecosystem in the Cedar Creek Natural History Area. Major Adviser: Prof. D. B. Lawrence.

Hector Mercer-Quarshie, Tarkwa, Ghana

B.Sc. '62, University of Ghana. Major: Genetics. Minor: Plant Pathology. Thesis: Comparison of Combining Ability for Ethanol-Soluble Sugar Content and Grain Yield of Five Corn (*Zea mays* L.) Inbreds. Major Adviser: Prof. J. C. Sentz.

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B.S. with distinction '58, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. H. L. Hansen.

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B.S. '62, St. Cloud State College. Field of Concentration: Entomology. Major Adviser: Prof. H. C. Chiang.

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B.S. '59, University of Minnesota. Major: Soil Science. Minor: Agricultural Plant Physiology. Thesis: Soil Variability in Two Field Plot Areas for Eleven Chemical Determinations. Major Adviser: Prof. R. H. Rust.

Richard Dean Nelson, Minneapolis

B.S. '64, MacMurray College. Major: Business Administration. Minor: Psychology. Thesis: A Comparison of the Rates of Return Between Selected Growth and Income Common Stock Portfolios, 1955-1965. Major Adviser: Prof. H. W. Stevenson.

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B.A. with honors '62, Wheaton College. Field of Concentration: Physics. Major Adviser: Prof. G. D. Freier.

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B.S. '64, University of Minnesota. Major: Animal Husbandry. Minor: Biometrics. Thesis: The Pantothenic Acid Requirement of Young Swine. Major Adviser: Prof. R. J. Meade.

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B.A. *magna cum laude* '50, University of Minnesota. Major: Physiology. Minor: Physiological Chemistry. Thesis: The Effect of Epinephrine on Adenine Nucleotide Degradation in the Isolated and Perfused Rabbit Heart. Major Adviser: Prof. M. B. Visscher.

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B.A. '50, Yale University; M.D. '57, Cornell University Medical College. Major: Microbiology. Minor: Biochemistry. Thesis: The Effects of Thymine Starvation on the Transforming Activity of *Bacillus Subtilis* Deoxyribonucleic Acid. Major Adviser: Prof. John Spizizen.

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Master of Science in Civil Engineering

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B.Sc. with distinction '61, University of Alberta. Major: Civil Engineering. Minor: Mathematics. Thesis: The Construction, Calibration and Demonstration of an Electromagnetic Velocity Probe. Major Adviser: Prof. A. G. Anderson.

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B.S. '59, National University of Engineering (Peru). Field of Concentration: Civil Engineering. Major Adviser: Prof. W. T. Graves.

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Master of Science in Dentistry

William Charles Randall, Minneapolis

D.D.S. '58, University of Minnesota. Major: Oral Surgery. Minor: Pharmacology. Thesis: Oral Exfoliative Cytology During Carcinogenesis and Inflammation in the Hamster Cheek Pouch. Major Adviser: Dr. N. O. Holte.

Master of Science in Dermatology

George Robert von Gemmingen, St.
Louis, Mo.

M.D. '59, St. Louis University. Major: Dermatology. Minor: Pathology. Thesis: Angiokeratoma Corporis Diffusion: Fabry's Disease. Major Adviser: Dr. R. R. Kierland.

Master of Science in Electrical Engineering

Lance William Berglund, Duluth

B.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Deposition of Thin Dielectric Films by Sputtering. Major Adviser: Prof. E. R. Chenette.

Chung-Lih Hsieh, Changsha, China

B.Sc. '63, Taiwan Provincial Cheng Kung University (China). Major: Electrical Engineering. Minor: Mathematics. Thesis: Similarity Solution and Power-Law Recompression Piston Motion in One-Dimensional Magnetohydrodynamics. Major Adviser: Prof. S. C. Lee.

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B.E.E. with distinction '59. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

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B.S.E.E. '57, Iowa State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. H. Mattson.

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B.S. '62, Nanyang University (Singapore). Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Saturable Filters Associated With a Q-Switched Laser. Major Adviser: Prof. S. C. Lee.

Douglas Rudolph Vierath, White Bear Lake

B.S. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Hysteresis Losses in Overexcited Transformers. Major Adviser: Prof V. D. Albertson.

Master of Science in Mechanical Engineering

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B.E. '61, Delhi Polytechnic (India). Field of Concentration: Mechanical Engineering. Major Adviser: Prof. J. L. Threlkeld.

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B.M.E. '64, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Master of Science in Metallurgical Engineering

Robert Bruce Elo, Minneapolis
B.Met. Eng. '63, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Transference Numbers of Oxides By Electrochemical Techniques. Major Adviser: Prof. R. A. Swalin.

Yoshiyasu Sato, Minneapolis
Bach. of Eng. '61, Waseda University (Japan). Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Local Atomic Arrangements in Indium-Lead Alloys. Major Adviser: Prof. J. M. Sivertsen.

Master of Science in Otolaryngology

Lawrence William De Santo, Duluth
M.D. '60, University of Minnesota. Major: Otolaryngology. Minor: Pathology. Thesis: Cysts of the Larynx—Classification and Histopathologic Study. Major Adviser: Dr. K. D. Devine.

Master of Science in Radiology

Edward V. Staab, Minneapolis
B.S. '59, College of St. Thomas; M.D. '61, University of Minnesota. Field of Concentration: Radiology. Major Adviser: Dr. M. K. Loken.

Master of Science in Surgery

David Lane Smith, Scarsdale, N.Y.
M.D. '61, New York Medical College. Major: Surgery. Minor: Pathology. Thesis: Gastrocolic Fistulae of Malignant Origin. Major Adviser: Dr. M. B. Dockerty.

Adam Robert Wychulis, Shenandoah, Pa.

M.D. '61, Georgetown University. Major: Surgery. Minor: Pathology. Thesis: Histopathologic Study of Colorectal Polyps Measuring From 5 to 10 mm. Major Adviser: Dr. O. H. Beahrs.

Master of Social Work

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Certificate of Specialist in Education

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Winifred H. Northcott, St. Louis

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Donald George Zahn, St. Paul

B.B.A. '48, M.A.P.A. '56, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. O. E. Domian.

Doctor of Philosophy

John Stephen Adams, Minneapolis

B.A. *cum laude* '60, College of St. Thomas; M.A. '62, University of Minnesota. Major: Geography. Minor: Economics. Thesis: Urbanization Processes, Urban Economic Systems, and the Allocation of Urban Land for Industry. Major Adviser: Prof. F. E. Lukermann.

George Erick Ahlgren, Cloquet

B.S. in Agric. with distinction '60, M.S. '62, University of Minnesota. Major: Agricultural Plant Physiology. Minor: Botany. Thesis: Studies on the Absorption and Translocation of Phosphate by Soybean Leaves. Major Adviser: Prof. T. W. Sudia.

Donn Reynolds Armstrong II, Downers Grove, Ill.

B.S.Ch.E. with distinction '62, Northwestern University. Major: Chemical Engineering. Minor: Metallurgical Engineering. Thesis: A Study of an Inductively-Coupled Plasma. Major Adviser: Prof. W. E. Ranz.

Richard Dean Arnold, Minneapolis

B.A. '60, University of California (Riverside); M.A. '65, University of Minnesota. Major: Education. Minors: Educational Psychology and Child Psychology. Thesis: The Relationship of Teachers' Sex to Assigned Marks and Tested Achievement Among Upper Elementary Grade Boys and Girls. Major Adviser: Prof. B. E. Balow.

Richard Dean Ashmun, Brainerd

B.A. '50, Carleton College; B.S. '57, M.A. '61, University of Minnesota. Major: Education. Minor: Industrial Education. Thesis: The Effectiveness of a Non-Computer Business Game in Teaching Post-High School Business Problems Classes. Major Adviser: Prof. W. G. Meyer.

Anjan Kumar Bhaumik, Calcutta, India

B.A.Ch.Eng. '61, Calcutta University; M.S. '63, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Elastic and Elasto-Plastic Analysis of Rectangular Plates By Finite-Difference Methods. Major Advisers: Profs. Paul Andersen and J. T. Hanley.

Thomas Gerhard Boman, Duluth

B.S. cum laude '53, Gustavus Adolphus College; M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: An Investigation of Selected Causes and Effects of Stress in A Communicator-Audience Situation. Major Adviser: Prof. R. E. Wilk.

John Eugene Bowers, Ellsworth

B.A. '51, College of St. Thomas; M.A. '58, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: A Study of the Relationships Among Measures of Productive Thinking, Intelligence, and Ninth Grade Academic Achievement. Major Advisers: Profs. J. J. Jenkins and E. P. Torrance.

Dennis D. Brissett, Cloquet

B.A. '61, M.A. '63, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Clinical Depression: A Sociological Inquiry. Major Adviser: Prof. A. M. Rose.

N. Joseph Calarco, New York, N.Y.

B.A. '59, M.A. with honors '62, Columbia University. Major: Speech and Theatre Arts. Minor: English. Thesis: Tragic Being: Apollo and Dionysus in Western Drama. Major Adviser: Prof. A. H. Ballet.

Dae Hyun Cho, Seoul, Korea

B.S. in Eng. '61, Seoul National University (Korea); M.S.Ch.E. '64, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Two-Phase Liquid Reactions; Optical Study of the Diffusion-Controlled Reaction Zone. Major Adviser: Prof. W. E. Ranz.

William Dennis Davidson, Minneapolis

B.S. '59, M.S. '62, University of Minnesota. Major: Animal Husbandry. Minor: Microbiology. Thesis: A Study of Ante-Mortem Fasting and Post-Mortem Processing Treatment Effects on Some Qualitative and Quantitative Aspects of Swine Pork Carcasses, Cuts and Products. Major Adviser: Prof. L. E. Hanson.

Donald Jack Davis, Lubbock, Tex.

B.A. '59, M.A. '61, Baylor University. Major: Education. Minor: Art. Thesis: The Effects of Two Methods of Teaching Art Upon Creative Thinking, Art Attitudes, and Aesthetic Quality of Art Products in Beginning College Art Students. Major Adviser: Prof. W. R. Hastie.

Richard Alan Dubanoski, Manchester, Conn.

B.A. '62, Wesleyan University; M.A. '66, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Imitation as a Function of Appropriateness of Behavior and Response Consequences to the Model. Major Adviser: Prof. S. G. Moore.

David Allen Etnier, Watertown

B.S. '61, University of Minnesota. Major: Zoology. Minor: Biostatistics. Thesis: The Biology of Hybrid Sunfishes of the Genus *Lepomis* in Three Minnesota Lakes. Major Advisers: Profs. S. F. Eddy and J. C. Underhill.

Edwin Emmanuel Felien, Minneapolis

B.A. '60, M.A. '63, University of Minnesota. Major: Speech and Theatre Arts. Minor: English. Thesis: The Evolution of Form in the Modern Drama. Major Advisers: Profs. K. L. Graham and J. D. Hurrell.

Jerald Ray Forster, Salem, S.D.

B.S. '58, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: An Investigation of the Effects of Two Feedback Methods When Communicating Psychological Information. Major Adviser: Prof. W. E. Dugan.

Silvano Benito Garofalo, Minneapolis

B.A. '57, M.A. '61, University of Minnesota. Major: Spanish. Minor: Romance Languages. Thesis: The Poetry of Giacomo Leopardi and Miguel de Unamuno. Major Adviser: Prof. W. T. Pattison.

Roland Orlen Gertjensen, Fulda

B.S. '61, M.S. '62, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: Gas-Liquid Relationships and Their Effect Upon the Permeability of Wood Pulp Pads to Water. Major Adviser: Prof. R. L. Hossfeld.

Cynthia Rae Margolin Gliner, Los Angeles, Calif.

B.A. with distinction '63, University of California (Berkeley); M.A. '65, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: A Psychophysical Study of Tactual Perception. Major Advisers: Profs. H. L. Pick, Jr. and J. C. Wright.

John Mitchell Grewe, Eau Claire, Wis.

B.S. '60, D.D.S. '62, M.S.D. '64, University of Minnesota. Major: Anatomy. Minor: Oral Pathology. Thesis: Histologic and Microradiographic Investigation of the Consequences of Mandibular Incisor Extractions in the Young Mouse. Major Adviser: Prof. W. J. L. Felts.

Arnold Eugene Henjum, Minneapolis

B.A. '49, Augsburg College; M.A. '56, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Relationships Between Certain Personality Characteristics of Student Teachers and Success in Student Teaching. Major Adviser: Prof. G. M. A. Mork.

Sheng Teng Hsu, Taiwan, Republic of China

B.S. in Eng. '58, M.S. '60, National Taiwan University (China). Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Space Charge Limited Current Flow in Solid State Devices. Major Adviser: Prof. Aldert van der Ziel.

LaRue Willard Johnson, Long Lake

B.S. with distinction '60, D.V.M. '60, University of Minnesota. Major: Veterinary Medicine. Minor: Biochemistry. Thesis: Fractionation of Porphyrins and Labeled Hemoglobin in Differentially Lysed Erythrocytes and Effect of Light and Splenectomy in Bovine Porphyria. Major Advisers: Profs. Samuel Schwartz and D. K. Sorensen.

Kenneth Gordon Johnston, Van Nuys, Calif.

B.A. '48, University of California (Berkeley); M.A. '51, University of California (Los Angeles). Major: American Studies. Thesis: The Organic Principle in Industrial America: A Study of the Architectural and Social Philosophy of Frank Lloyd Wright. Major Adviser: Prof. J. C. Levenson.

Bruce Gustav Julin, Klippan, Sweden

B.A. '61, Boston University. Major: Analytical Chemistry. Minor: Inorganic Chemistry. Thesis: Equilibria in the Antimony (III)-Iodide Benzene System. Major Adviser: Prof. E. B. Sandell.

Iftikhar Ahmad Khan, Karachi, Pakistan

M.A., LL.B. '48, University of Lucknow (India); M.A. '60, University of Minnesota. Major: English. Minor: History. Thesis: The Verse-Satire of the Anti-Jacobin. Major Adviser: Prof. J. L. Scoggins.

Stanley Cramner Knox, Osage, Iowa

B.S. '52, M.A. '60, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: A Study of Factors Relating to Teacher Turnover in Special Education in Minnesota. Major Adviser: Prof. M. C. Reynolds.

Richard George Kohlan, St. Paul

B.A. '61, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Relationships Between Inventoried Interests and Inventoried Needs in a College Sample. Major Adviser: Prof. R. G. Warnken.

Myrtle Korenbaum, Providence, R.I.

B.A. '53, M.A. '55, Brown University. Major: Sociology. Minor: Anthropology. Thesis: Role Cacophony: The Source of Tension in Role Enactment: A Study of University and College Professors. Major Adviser: Prof. D. A. Martindale.

John Joseph Kupa, Worcester, Mass.

B.S. '56, University of Maine; M.S. '58, University of Massachusetts. Major: Fisheries and Wildlife. Minor: Botany. Thesis: Ecological Studies of the Female Ruffed Grouse (*Bonasa Umbellus* L.) At the Cloquet Forest Research Center, Minnesota. Major Adviser: Prof. W. H. Marshall.

Lois Ann Lund, Thief River Falls

B.S. with distinction '49, M.S. '54, University of Minnesota. Major: Home Economics. Minor: Agricultural Economics. Thesis: An Eclectic Approach to the Study of Children's Consumer Behavior Relative to Food. Major Adviser: Prof. I. T. Noble.

Harold Irving Lunde, Port Washington, N.Y.

B.A. *summa cum laude* '52, St. Olaf College; M.A. '54, University of Minnesota. Major: Economics. Minor: Psychology. Thesis: The Prediction of Occupational Labor Demands in the United States. Major Adviser: Prof. H. G. Heneman.

Suzanne De Pree Maitland, Holland, Mich.

B.A. with high distinction '62, University of Michigan. Major: Psychology. Minor: Educational Psychology. Thesis: Time Perspective, Frustration-Failure and Delay of Gratification in Middle-Class and Lower-Class Children From Organized and Disorganized Families. Major Adviser: Prof. R. D. Wirt.

Donald James Mattheisen, Minneapolis

B.A. '59, M.A. '62, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Prussian National Assembly of 1848. Major Adviser: Prof. O. P. Pflanze.

Sarah Elizabeth McBride, Minneapolis

B.A. '36, Ursinus College; B.S. '41, M.A. '49, Columbia University. Major: American Studies. Thesis: Women in the Popular Magazines for Women in America, 1830-1956. Major Adviser: Prof. M. C. Turpie.

Helen N. Mendoza, Quezon City, Philippines

B.A. '49, Far Eastern University (Philippines); M.A. '52, Stanford University. Major: English. Minor: Spanish. Thesis: The Part in Ellen Glasgow. Major Adviser: Prof. M. C. Turpie.

Lawrence Henry Meskin, Detroit, Mich.

D.D.S. '61, University of Detroit; M.S.D. '63, University of Minnesota. Major: Epidemiology. Minor: Dentistry. Thesis: An Epidemiologic Study of Factors Related to the Extent of Facial Cleft. Major Adviser: Prof. L. M. Schuman.

Dianne Lynn Monson, Minneapolis

B.S. '56, M.A. '62, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Children's Responses to Humorous Situations in Literature. Major Adviser: Prof. Norine Odland.

Gordon Robert Mork, Minneapolis

B.A. *magna cum laude* '60, Yale University; M.A. '63, University of Minnesota. Major: History. Minor: Political Science. Thesis: The National Liberal Party in the German Reichstag and the Prussian Landtag, 1866-1874. Major Adviser: Prof. O. P. Pflanze.

Robert Arthur Mueller, Princeton, Wis.

B.S. '60, M.S. '63, University of Wisconsin (Madison). Major: Pharmacology. Minor: Biochemistry. Thesis: The Mechanisms of Storage and Release of Cardiac Norepinephrine. Major Adviser: Prof. F. E. Shideman.

Trevor Allen Owen, Minneapolis

B.S. '53, M.A. '55, University of Minnesota. Major: English. Minor: History. Thesis: Julius Caesar In English Literature from Chaucer Through the Renaissance. Major Adviser: Prof. G. W. O'Brien.

Jules Jean Charles Picot, Fredericton, New Brunswick, Canada

B.E.C.E. with honors '55, Nova Scotia Technological College; M.S. in Chem. Eng. '57, Massachusetts Institute of Technology. Major: Chemical Engineering. Minor: Mechanical Engineering. Thesis: Temperature History and Fluid-Solid Interface Effects on Heat Conduction in Certain Liquids. Major Adviser: Prof. A. G. Fredrickson.

David Joseph Pucel, Ely

B.S. with high distinction '62, Stout State University; M.Ed. '63, University of Illinois. Major: Education. Minor: Supporting Program. Thesis: The Relative Effectiveness of the Traditional and Two Modified Methods of Organizing Information Sheets. Major Adviser: Prof. Jerome Moss, Jr.

Willis Harmon Ray, Houston, Tex.

B.A. '62, B.S.Ch.E. '63, Rice University. Major: Chemical Engineering. Minor: Mathematics. Thesis: An Adaptive Optimal Control of the Batch Chemical Reactor. Major Adviser: Prof. Rutherford Aris.

Michael Cook Robbins, Waukegan, Ill.

B.A. '62, Carleton College. Major: Anthropology. Minor: Supporting Program. Thesis: Explorations in Psycho Cultural Bioclimatology. Major Advisers: Profs. L. P. Gerlach and P. S. Pelto.

Jerome Morris Sacks, Pittsburgh, Pa.

B.S. '61, University of Pittsburgh; M.S. '63, University of Minnesota. Major: Genetics. Minor: Biostatistics. Thesis: Optimal Selection in Finite Populations. Major Adviser: Prof. R. E. Comstock.

James Currier Sargent, St. Paul

B.A. '50, Macalester College; M.Ed. '52, University of Colorado. Major: Education. Minor: Educational Psychology. Thesis: An Analysis of Principal and Staff Perceptions of High School Organizational Climate. Major Advisers: Profs. W. E. Dugan and C. P. Hooker.

Gerald Francis Sauter, Minneapolis

B.S. with high distinction '60, M.S.E.E. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Simultaneous Studies of Molecular Ions and Molecular Light Emission in the Afterglow of Rare Gases. Major Adviser: Prof. H. J. Oskam.

Burton Leonard Shapiro, St. Paul

D.D.S. '58, New York University; M.S.D. '62, University of Minnesota. Major: Genetics. Minor: Dentistry. Thesis: Metric Studies of Normal and Reportedly Malformed Human Palates. Major Adviser: Prof. S. C. Reed.

John Isidore Sisco, Jamestown, N.D.

B.S. in Ed. '54, Valley City State Teachers College; M.A. '59, Northwestern University. Major: Speech and Theatre Arts. Minor: History. Thesis: Rhetoric in Failure: A Study of the Public Address of the Knights of Labor Movement. Major Adviser: Prof. R. L. Scott.

David Lee Skoug, Chetek, Wis.

B.S. '60, Wisconsin State College (River Falls). Major: Mathematics. Minor: Statistics. Thesis: Generalized Ilstow and Complex Wiener Integrals and a Related Integral Equation. Major Adviser: Prof. R. H. Cameron.

Gerald Charles Sorensen, Rochester

B.A. '58, Grinnell College; M.A. '60, University of Minnesota. Major: English. Minor: History. Thesis: A Critical Edition of W. M. Thackeray's *The Virginians*. Major Adviser: Prof. G. R. Stange.

Carroll Ivar Stein, Minneapolis

B.A. '56, M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Test of Basic Assumptions Underlying Vocational Counseling Utilizing a Differential Criterion Method. Major Adviser: Prof. C. J. Hoyt.

Robert Stanley Stein, Brockton, Mass.

B.A. '54, Hiram College; M.Ed. '60, Boston University. Major: Educational Psychology. Minor: Psychology. Thesis: Empathy from Case Records Using the Forced Choice Differential Accuracy Method. Major Adviser: Prof. E. P. Torrance.

Robert Charles Sundahl, Jr., Minneapolis

B.S. '58, M.S. '64, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Effect of Local Atomic Order on Electrical and Magnetic Properties of Au-Fe Alloys. Major Adviser: Prof. J. M. Sivertsen.

Richard Eddy Sykes, Canton, N.Y.

B.A. '53, B.D. '56, St. Lawrence University. Major: American Studies. Thesis: Massachusetts Unitarianism And Social Change: A Religious Social System in Transition, 1780-1870. Major Adviser: Prof. Arnold Rose.

Neal Asplund Tuleen, Aberdeen, Idaho

B.S. with high distinction '54, Purdue University. Major: Genetics. Minor: Statistics. Thesis: The Use of Tertiary Trisomics for the Orientation of Linkage Groups in Barley. Major Adviser: Prof. C. R. Burnham.

Gerald Clarence Ubben, Fridley

B.S. '57, M.A. '62, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: The Relationship Between the Knowledge, Opinions and Attitudes of Teachers on Issues in Conflict Between the Minnesota Education Association and the Minnesota Federation of Teachers and Various Categories of Teachers Including Organizational Membership. Major Adviser: Prof. C. P. Hooker.

Theodore Alan Vessey, Arden Hills

B.A. *magna cum laude* '60, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Properties of Oricyclic Cluster Sets. Major Adviser: Prof. D. A. Storvick.

Richard Charles Williams, Rochester
B.A. '55, Gustavus Adolphus College; B.S. '60, Mankato State College; M.A. '63, University of Minnesota. Major: Education. Minor: Related Fields. Thesis: The Relationship Between Teacher Personality Factors and Selected Teacher Characteristics Including Membership in Teacher Organizations. Major Adviser: Prof. C. P. Hooker.

Doloris Jackus Willmore, Pierre, S.D.
B.A. *cum laude* '51, University of South Dakota; M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Comparison of Four Methods of Studying a College Textbook. Major Adviser: Prof. A. L. Raygor.

Alfred Gustav Zielske, Lodi, Calif.

B.S. in Chem. '62, Carnegie Institute of Technology. Major: Organic Chemistry. Minors: Analytical and Physical Chemistry. Thesis: Preparation and Rearrangements of Five Membered Ring Sulfones. Major Adviser: Prof. R. M. Dodson.

Doctor of Philosophy in Medicine

Richard Philip Doe, Minneapolis

M.D. '52, University of Minnesota. Major: Medicine. Minor: Physiological Chemistry. Thesis: A Study of the Circadian Variation in Adrenal Function and Related Rhythms. Major Advisers: Drs. E. Flink and W. Hall.

Doctor of Philosophy in Surgery

Hermann Wilhelm Heupel, Minneapolis

M.D. '48, University of Marburg (Germany). Major: Surgery. Minor: Physiology. Thesis: Pyloroplasty and Gastrojejunostomy after Vagotomy: An Evaluation of Drainage Procedures in Protecting Dogs Against Histamine Provoked Peptic Ulcers. Major Adviser: Dr. L. J. Hay.

Academic Costume

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

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

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

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

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

(In the order of march)

General College	crimson and white
College of Liberal Arts	white
College of Education	light blue

University College	old gold and white
Institute of Technology	orange
College of Agriculture, Forestry, and Home Economics	maize
School of Business Administration	drab
Law School	purple
College of Medical Sciences	green
Graduate School	black

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

President's Reception

AUGUST, 1966

- The members of the graduating class, their families, and friends are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held on the lower Mall. In case of rain, the Main Lobby of Coffman Memorial Union will be used. Refreshments will be served.
- Those in the receiving line will be Vice President and Mrs. Shepherd; Mr. and Mrs. Galusha; Mr. Hardell; Mrs. Linn Aakhus, International Vice President, Minnesota Student Association; and Mr. Robert Weinhagen, President, Coffman Union Board of Governors.
- During the Reception, Mrs. Whipkey 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, Mortar Board—Honorary Leadership Society, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

December Commencement, 1966

SATURDAY EVENING, DECEMBER 17, 7:30 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

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

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Albert V. Hartl, Fergus Falls

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable George W. Rauenhurst, Olivia

The Honorable Otto A. Silha, Minneapolis

The Honorable Herman F. Skyberg, Fisher

Dr. O. Meredith Wilson, President

Dr. Laurence R. Lunden, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and fifteenth 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 191,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to nearly 44,000 students annually on its Minneapolis–St. Paul, 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 Fruit Breeding Farm and the Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Hormel Institute at Austin, and at University Hospitals, University scientists are working on countless research experiments of vital importance to the future health and welfare of us all. These projects, of which only a few are mentioned here, are concerned with cancer, heart surgery, taconite, gamma irradiation, cheese-making, teacher training, municipal government, school surveys, and development of new varieties of grains, fruits, and flowers.

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

The people of Minnesota are proud of their University, not only because it is one of the leading state universities in the nation, but also because of the extent and quality of its services from which they, their families, communities, and organizations benefit. Their interest in the University is a dynamic thing and expresses itself in many ways. Contributions from them have made it pos-

sible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biological-medical library and additional medical research facilities).

Equally generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose tireless efforts have made hundreds of scholarships and fellowships available to promising students each year. Chiefly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

As it meets the needs of present students, the University must also make plans for those of the future. The 43,997 students who enrolled at the University at the beginning of the 1966-1967 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. In the fall of 1965, for the first time in its history, the University instituted an admissions policy based on controlled growth of total enrollment. This change in admissions requirements held the 1966-1967 enrollment to about 44,000 students. It reflects the University's need for more teachers, more land, and more buildings. And it makes plain the University's determination to maintain the educational quality that has made it one of America's leading educational institutions.

THE 1965 LEGISLATURE granted the University \$81,300,000 for general operations and maintenance during the 1965-1967 biennium. In addition, the University received \$9,083,223 for University Hospitals; \$6,833,887 for special appropriations, including special extension and research activities; \$15,820,656 for new buildings, land, and the rehabilitation of existing buildings; and \$1,240,000 for the University of Minnesota, Morris.

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

The summary financial statement of 1964-1965 showed that the University's current income and expenditures amounted to \$128,980,874.07. Of the total received, \$12,727,274.12 came from student tuition and fees; \$17,855,486.75 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; \$1,496,963.54 from intercollegiate athletics; \$19,470,448.11 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 \$8,260,416.03 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$26,190,690.49 came from the federal government for instruction, research, and agricultural exten-

sion. The state provided \$42,979,595.03 or 31.4 per cent for the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$11,003,913.

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 various Special Project Programs, including scholarships, medical and technological research, and college service funds, which are 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 Minneapolis 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 Mrs. James Whipkey, Graduate Student, 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.

THE COMMENCEMENT ON TELEVISION: The University is pleased to announce that, because of the large graduating class this December and because of the limited seating capacity of Northrop Memorial Auditorium, the entire Commencement this evening is being televised, live, through the cooperation of the Twin City Area Educational Television Corporation, KTCA-TV, Channel 2. This is the first time a University Commencement has been televised, our guests may wish to know, and the University is grateful to KTCA-TV for making this possible.

ORGAN PRELUDE: From 7:00 to 7:30 p.m., Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 7:30 p.m., Associate Professor Santiago A. Cúneo, 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 Cúneo, 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 on the table to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

Trumpet Voluntary - - - - - Purcell

ON THE STAGE: The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are Marshal Cúneo; Professor Robert M. Jordan, Ph.D., Institute of Agriculture, Marshal; Recorder W. Donald Beatty, Ph.D., Admissions and Records; Captain Dewey E. Johnson, U.S.A.F., Assistant Professor of Aerospace Studies; The Reverend Russell G. Hatton, S.T.M., Director of the University Episcopal Center on the Minneapolis Campus; Dean Lawrence C. Weaver, Ph.D., College of Pharmacy; Colonel William D. Beard, U.S.A., Professor of Military Science; Acting Dean Frank Verbrugge, Ph.D., Institute of Technology; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Dean Robert B. Howard, M.D., College of Medical Sciences; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; The Right Reverend Monsignor

Terrence J. Murphy, Ph.D., President of the College of St. Thomas; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President William G. Shepherd, Ph.D., Academic Administration; Dean Bryce Crawford, Jr., Ph.D., Graduate School; Professor James F. Hogg, S.J.D., Law School; Associate Dean George Seltzer, Ph.D., School of Business Administration; Dean Robert J. Keller, Ph.D., College of Education; Associate Professor Frank T. Benson, Jr., Ph.D., University College; Professor G. Gordon Kingsley, Ed.D., General College; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Mr. Edwin L. Haislet, Ed.D., Director of Alumni Relations; Captain James M. Marshall, U.S.N., Professor of Naval Science; Professor Benjamin S. Pomeroy, Ph.D., College of Veterinary Medicine; Professor James R. Jensen, D.D.S., School of Dentistry, Marshal; Professor Herbert G. Heneman, Jr., Ph.D., School of Business Administration, Marshal.

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

THE NATIONAL ANTHEM: The entire audience and Professor Schuessler, soloist, will sing:

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: President Wilson.

COMMENCEMENT ADDRESS: Monsignor Murphy.

CONFERRING OF ROTC CERTIFICATES: Vice President Shepherd will introduce Colonel Beard, Captain Marshall, and Captain Johnson, who will present the candidates for commissions in their respective services. Letters of ROTC completion will be presented by President Wilson.

PRESENTATION OF CANDIDATES: Vice President Shepherd will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction, Professor Kingsley for the General College; Dean Ziebarth for the College of Liberal Arts; Associate Professor Benson for the

University College; Acting Dean Verbrugge for the Institute of Technology; Dean Keller for the College of Education; Assistant Dean McFarland for the College of Agriculture, Forestry and Home Economics of the Institute of Agriculture; Associate Dean Seltzer for the School of Business Administration; Dean Weaver for the College of Pharmacy; Professor Hogg for the Law School; Dean Howard for the College of Medical Sciences; Dean Crawford for the Graduate School.

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

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

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: President Wilson 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, soloist.

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

POSTLUDE: Professor Fleischer, organist.

Fugue in G Major - - - - - Bach

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 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, Armor

Curtis E. Judd, Hopkins

Second Lieutenant, Artillery

Joseph J. Hampl, Jr., Owatonna

Second Lieutenant, Corps of Engineers

Noel E. Christenson, St. Paul

Second Lieutenant, Infantry

Gene F. Loosbrock, Minneapolis

Second Lieutenant, Ordnance Corps

James D. Massoth, Minneapolis

Second Lieutenant, Quartermaster Corps

Thomas E. Karlovetz, Fremont, Ohio

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

John B. Totushek, Minneapolis

Ensign, USNR

Malcolm P. O'Malley, Minneapolis

Ensign, CEC, USN

James C. Morss, Minneapolis

Harold W. Walter, Helena, Mont.

Second Lieutenant, USMC

William R. Bunker, Richfield

Leonard Robertson, Northport, N.Y.

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

David A. Carlson, Trimont

Dean O. Sabby, Minneapolis

Lloyd C. Carlson, Minneapolis

Steve J. Sultany, Minneapolis

Candidates for Graduation

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

GENERAL EXTENSION DIVISION

Business Administration Certificate

Robert George Brausen, St. Paul
Richard Paul Conlin, Minneapolis

Ernest Theodore Klinger, St. Paul

Engineering Science Certificate

Michael John Forberg Martin, Milaca Darryl Alison Thayer, St. Paul

GENERAL COLLEGE

Associate in Arts

Richard Claire Aaseth, Bird Island
Barbara Lou Ahlf, Worthington
Gloria Ann Andersen, Minneapolis
Nancy Elizabeth Anderson, Minneapolis
Ronald William Anderson, Richfield
Bryan Thomas Apelt, Bloomington
Alan Gene Arbesfeld, Minneapolis
John Charles Aronson, Minneapolis
Candace Joy Barr, Minneapolis
Michael Jeffery Bender, Minneapolis
Gary Keith Blesi, Wayzata
Eugene Thomas Bohmert, St. Paul
Thomas Richard Boogren, White Bear Lake
George Herbert Broom, Minneapolis
Dennis Arlo Brue, Albert Lea
Gerald Lee Carlson, South St. Paul
Patricia Marie Carr, Minneapolis
Gayle Marilyn Chanan, St. Louis Park

Jerry Lee Chapman, St. Paul
Cadell Hampton Cooper, Jr., Richfield
Beverly Grace Copher, St. Paul
Ralph Richard Cornwell, Minneapolis
Timothy Peter Corpe, Minneapolis
Fredrick Crawford, Crystal
Robert Jon Crouse, St. Paul
Kay William Crowe, Hastings
William Frederick Cunningham, Minneapolis
Dennis Lee Dahm, St. Louis Park
Michael H. Daniel, Minneapolis
Gary Allen Davis, St. Paul
Gregory Charles Davis, St. Paul
Nancy Ann Davis, Hopkins
Marilyn Ann Dinesen, St. Paul
Robert John Dudero, St. Paul
Paul Eugene Edgington, Minneapolis
Dennis Lee Edling, Minneapolis
John Russell Edmunds, Starbuck
Sharlene Rivi Eigen, St. Louis Park

Gary Ray Engen, Edina
 James Fredric Erickson, Minneapolis
 Robert Gerald Erickson, Bloomington
 Bruce Warren Falkum, Minneapolis
 Barbara Ann Farmer, South St. Paul
 Russell Joseph Fennert, Minneapolis
 James Robert Fisher, Minneapolis
 Paul Robert Frank, Minneapolis
 Joseph Louis Fredkove, Minneapolis
 David Franklin Gamble II, Minneapolis
 Richard Theodore Gauck, Golden Valley
 Timothy Francis Gerenz, West St. Paul
 Richard Earl Gilbert, Minneapolis
 Kenneth Charles Glotzbach, Minneapolis
 William Raymond Gorrill, Minneapolis
 Donald Martin Goserud, St. Paul
 Michael George Graff, Minneapolis
 Jaimee Carolyn Griffin, Minneapolis
 Greig Skallman Grove, Bigfork
 Bryan Ernest Hagggar, Minneapolis
 Garrison Lynn Hale, Richfield
 George Robert Hanna, Minneapolis
 Carol Ann Hansen, Minneapolis
 James Sidney Hardin, Jr., Minneapolis
 Jemie Jeanne Johanna Heimann, St. Paul
 Kathryn Lynn Henderson, St. Paul
 Duane Douglas Hess, South St. Paul
 Ronald Sanford Hetland, Minneapolis
 Richard Louis Hinze, St. Paul
 Gary Paul Hoffer, Minneapolis
 James David Horgan, Fairmont
 George Delphis Horner, Minneapolis
 Irvin Edward Hosford, South St. Paul
 Nancy Hsi, St. Paul
 Clarke Ralph Huebener, St. Paul
 Kathleen Mary Hueser, Minneapolis
 Richard Martin Hyllested, Minneapolis
 Bruce Douglas Iverson, Minneapolis
 David Thomas Jackson, Minneapolis
 Michael Patrick Jastrow, St. Paul
 Steven Jerome Jenkins, Crosby
 William Burton Johnson, Minneapolis
 Terry Michael Jones, Minneapolis
 Mary Ellen Juhnke, Minneapolis
 Karen Irene Kaslow, Minneapolis
 Ruth Jennine Kellerman, Aitkin
 Donald Leonard Keys, St. Paul
 Terrence Walter Knapton, St. Paul
 Robert John Kotten, Regal
 James David LaHaye, Wayzata
 Michael George Lanigan, Minneapolis
 Jon Palmar Lasota, Robbinsdale
 Marilyn Anne Levy, Minneapolis
 Jean Ann Lindholm, Minneapolis
 Ronald William Livingston, St. Paul
 Thomas John Loch, Minneapolis
 Donald George Lopata, Minneapolis
 Timothy Roger Lott, Richfield
 George Alfred Luecke, St. Paul
 James Robert Luhman, Minneapolis
 Daniel James Lunka, St. Paul
 John Thomas Lynch II, Minneapolis
 James Ilo Maanum, St. Paul
 Richard Edwin Maguire, Minneapolis
 Charles Clifford Manly, Minneapolis
 Ronald George Manning, Minneapolis
 Ronald Clair Manske, Richfield
 David Thomas Maroney, Forest Lake
 James George Marshall, Minneapolis
 Robert Warren Martell, St. Paul
 Diane Barbara Matelsky, Minneapolis
 Terrence John McCleary, St. Paul Park
 Katherine Ives McMillan, Wayzata
 Annette Lee Mernik, Minneapolis
 Mary Alice Miller, Waseca
 Charles Ellis Minter, Minneapolis
 Thomas Micheal Morton, St. Paul
 John Rochel Mueller, Minneapolis
 Thomas Otto Munkholm, St. Paul
 Mark Thomas Neid, St. Paul
 Kevin John Nelson, Minneapolis
 Christine Ann Newton, Minneapolis
 Janice LaRayne Olson, St. Paul
 Rodney Jerome Olson, Eagle Bend
 Paul Jay OnDarko, Osseo
 Norman Henry Peters, Jr., Richfield
 James Clifford Peterson, St. Paul
 Jay Carlton Peterson, St. Paul
 John Marshall Peterson, Minneapolis
 Gregory Scott Piela, Minnetonka Village
 R. Joseph Pittman, St. Paul
 LeRoy Archie Pratt, Fridley
 Bent Pristed, Aalborg, Denmark

Lana Jame Province, South St. Paul
 Lloyd David Radke, St. Paul
 Ned Charles Rasmussen, St. Paul
 Robert Bruce Rasmussen, Minneapolis
 James Thomas Regan, Minneapolis
 Wayne Reynolds, Minneapolis
 Jeffrey Blair Rice, Edina
 Judith Joyce Rivkin, Minneapolis
 Willard Frank Robin, St. Louis Park
 Judith Barbara Robins, St. Paul
 Catherine Elnora Roebke, St. Paul
 Cynthia Joy Rosen, St. Paul
 Stephen John Runkel, Minneapolis
 Sue Ann Schommer, Minneapolis
 Edward Arthur Schroeder, Robbinsdale
 Henry David Shannon, Minneapolis
 Laurene Kay Shannon, Minneapolis
 John Daniel Shaughnessy, Excelsior
 Jamie Beth Shink, St. Louis Park
 James Lynn Shipstad, St. Paul
 Constance Marie Skoy, Crystal
 Patrick John Smith, Robbinsdale
 Maryl Lynn Snobeck, Burnsville
 Edward Charles Sorensen, Duluth
 Don David Sorenson, St. Paul
 William D. Sorenson, Minneapolis
 Arlie Robert Sowada, Rice
 Michael Alan Spencer, South St. Paul
 Sandra Lynn Spragner, Minneapolis
 James L. Stahl, St. Paul
 James Richard Steirly, Minnetonka
 Kathleen Ann Stenholm, St. Paul
 James Edward St. Jacques, White Bear Lake
 John Allen Strangis, Minneapolis
 Norma Jean Sturgis, South St. Paul
 Bruce Edwin Swanson, Minneapolis
 Dianne Rae Swanson, Richfield
 Richard William Switzer, Bloomington
 John Daniel Taylor, Jr., Minneapolis
 Kathryn Helene Taylor, St. Paul
 Donald Fredrick Teed, Stillwater
 Ted Robert Teragawa, Minneapolis
 Frank Joseph Thell, St. Paul
 Robert Edward Thiel, Minneapolis
 Stephen Jeffrey Thompson, Minneapolis
 Theodore Allan Tomlinson, Minnetonka
 Thomas Alan Trosvig, Crystal
 Paul Thomas Trovecke, St. Paul Park
 John Arnold Ugstad, Minneapolis
 Paula Rae Visser, Ada
 Mary Priscilla Walker, St. Paul
 Michael David Walters, Clarkfield
 Jeffrey Lynn Wangstad, Minneapolis
 Marc James Wanvig, Minneapolis
 Hurley LaVern Watson, Jr., Minneapolis
 Edmund Harry Webster, St. Paul
 Gary Allen Weihl, Minneapolis
 Bruce Walter Weldon, Minneapolis
 Gary Collins White, Minneapolis
 Richard Wilfred White, Hutchinson
 Edward Dean Wick, St. Paul
 Lyle Anton Wick, St. Paul
 Lawrence Kenneth Wickland, Minneapolis
 Pamela Jane Witcher, Wayzata
 William Bernard Wolter, St. Paul

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Robert Allen Benner, Minneapolis
 Eleanor Hartmann Bentz, St. Paul Park
 Patricia Lee Brastad, Minneapolis
 Daniel Albert Brouillette, Minneapolis
 Ellen Carlene Crothers, Bloomington
 Darlene Marie Bittmann Dowling, Two Inlets
 Diane R. Goserud, St. Paul
 Dean Cedric Johnson, West St. Paul
 Susan Daisy Keller, St. Paul
 Patricia Louise Kelly, Cold Spring
 Lynn Bertine Larson, St. Paul
 Heidi Lauer, Winona
 Drena Marie Marty, Minneapolis
 Jon Luverne Paulson, Minneapolis

Barbara Elizabeth Rice, St. Paul
Robert David Schwartz, Minneapolis
Kathleen Ann Silk, St. Paul

Mary Ann Simonitsch, Minneapolis
Karen Elizabeth Winsness, St. Paul

Bachelor of Arts

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

Janice Lee Abramson, St. Paul
Richard Gary Ackerson, A.A., St. Paul
Elizabeth Anna Aggie, Fargo, N.D.
Douglas Kent Anderson, Minneapolis
Elsie Bertha Wickberg Anderson,
A.L.A., Minneapolis
Karen Louise Anderson, *Bloomington,*
SUMMA CUM LAUDE, German
Gary Donald Askerooth, Minneapolis
Richard Stephen Axilrod, Minneapolis
Wendy Diane Baggen, Fairbanks,
Alaska
Jerome James Barbero, Minneapolis
Jean Louise Barnes, *Howard Lake,*
SUMMA CUM LAUDE, Spanish
Julie Winifred Barnes, St. Louis Park
Laura Louise Barthell, Lincoln, Neb.
Jamie Kathleen Behrens, Red Wing
Thomas Lyle Bergseth, Minneapolis
Leanne Charlene Bergstrom, Fergus
Falls
Susan Ann Beving, A.A., Minneapolis
Ann Morehart Bowen, A.A., Excelsior
Terrance Lee Braaten, Owatonna
Joyce Mildred Bren, Hopkins
Quentin George Brinkworth, A.A.,
Minneapolis
Gary Lennart Broman, Minneapolis,
CUM LAUDE, Geography
June Savini Bruns, Wauconda, Ill.
Richard William Bundy, St. Paul
Gary Richard Bush, Minneapolis
James Christopher Cahill, St. Paul
Julie Mae Carlson, Minneapolis
Lloyd Curtis Carlson, Minneapolis
Kenneth Maurice Christensen, Min-
neapolis
Joanne Marie Collins, Anoka
Michael Romaine Conway, St. Paul
Janet Kathleen Kaden Cook, Milbank,
S.D.

Lucy Ellen Thomas Corbett, Minne-
apolis
William Douglas Coyne, Hopkins
Bonita Elaine Crandall, Brainerd
William Cecil Curry, Minneapolis
Alan Nelson Dahl, St. Paul
Jane Ursula Daniel, Minneapolis
Mary Catherine Derus, Minneapolis
Richard Francis Desch, St. Paul
Richard David Distad, Rochester
Daniel Robert Edstrom, Jr., Flood-
wood
James Dwight Elkjer, Granite Falls
Clark Franz Erickson, Minneapolis
Edward Henry Fashingbauer, Shore-
view
Sharon Jean Fischer, Minneapolis
Benjamin Koch Fladager, South St.
Paul
Jon Henry Flury, St. Paul
Dean W. Fosdick, St. Peter
Stephen Warren Freidson, Minne-
apolis
Robert Frank Friedman, Minneapolis
Robert Louis Fronk, Minneapolis
Roger Lee Gebhard, *St. Paul, SUMMA*
CUM LAUDE, without departmental
designation
Howard David Gilbert, *St. Louis Park,*
SUMMA CUM LAUDE, without depart-
mental designation
Rachel Ann Selcer Goldman, Minne-
apolis
Jacqueline Jean Beebout Gregor, Mil-
roy
Michael Joseph Gross, St. Paul
Diane Kay Gruenhagen, Minneapolis
Clifton James Gustafson, Minneapolis
Perviz Haji, Kampala, Uganda
Philip Arvid Hanson, St. James
Sharon Ann Haugh, Kinbrae

Walter James Hodgins, A.L.A.,
 Winona
 Patricia Marie Hoisser, St. Paul
 Michael James Hollenhorst, Rochester
 Gary Lee Horton, Rosemount
 John Kent Houston, Regina, Saskat-
 chewan, Canada
 Ulev Ilgin, Ankara, Turkey
 Jean Sheung-Chi Ip, Hong Kong,
 China
 Karen Ruth Iverson, Mound
 Charlene Rebecca Jensen, New
 Brighton
 Donald Larry Jensen, A.A., Albert Lea
 Adell Kaye Johannes, Wyoming
 David Lee Johnson, Richfield
 Kenneth LeRoy Johnson, Minneapolis
 Linda Karen Johnson, Willmar
 Theodore Kenneth Johnson, Minne-
 apolis
 Galen Lloyd Joly, Minneapolis
 Darlene Marilyn Jones, A.L.A., St.
 Paul
 Phyllis Holland Jonson, St. Paul
 Curtis Elwood Judd, Hopkins
 Michael Thomas Kellett, Minneapolis
 Virginia Stella Brenna Kellgren, Min-
 neapolis
 John Charles Kent, Richfield
 John Raymond Kepp, Rochester
 Leila Ann Klasse, Slayton
 John Robert Knepper, Evanston, Ill.
 Lowell Charles Knutson, Dodge
 Center
 John Roger Kolstad, St. Paul
 Kathleen Joan Koprivec Kosky, Kee-
 watin
 Darryl Steven Krause, A.L.A., Minne-
 apolis
 Guy Charles Kronberg, Bloomington
 Daniel John Krumwiede, Fairmont
 Stevan Edward Kvenvold, Albert Lea
 Carol Rose Lachenmayer, St. Paul
 Jon Peter Lake, Rochester
 Glenn Clifford Laudenslager, Rich-
 field
 John Boock Laughlin, St. Cloud
 Jean Lorraine Lehrmann, Minneapolis
 Donald Charles Levin, Jr., St. Paul
 Karin Kaye Liddle, Carrington, N.D.
 Charles Stephen Lilienfeld, Minne-
 apolis, *MAGNA CUM LAUDE*, without
 departmental designation
 Gene Francis Loosbrock, Minneapolis
 Stuart Lennox MacPhail, Jr., Edina
 Allan Hugh Malerich, Hopkins
 James Dennis Massoth, Minneapolis
 Douglas Wayne McArthur, Minne-
 apolis
 Collin Albert McDonald, Minneapolis
 Victoria Elizabeth McIntyre, St. Paul
 Ursula M. Eibl McLean, Rochester,
 N.Y.
 Michael Anthony Medina, St. Paul
 Gayle Grace Meese, South St. Paul
 John Thomas Mega, Jr., Cokato
 Kathleen Claire Beaudry Merfeld,
 Stillwater
 Delph Lee Mickelson, Minneapolis
 James Joseph Mikesch, St. Paul
 Mary Alice Mueller, Bloomington
 George Henry Nelson, Jr., St. Paul
 Janis Lynne Nelson, Minneapolis
 Leland Scott Nelson, Minneapolis
 Stephen James Nelson, Richfield
 Philip Norman Newhall, Minneapolis
 Mary Ethel Newstrom, Robbinsdale
 Terence Leon Nichols, Minneapolis
 Marlene Juanita Nordstrom, A.L.A.,
 Minneapolis
 Russell Lowell O'Dell, Crystal
 Jean Evelyn Carlson Olson, St. Paul
 Eric John Oltmann, Minneapolis
 Patrick Malcolm O'Malley, Minne-
 apolis
 Larry Emmet Orcutt, Hastings
 John Sebastian Ossanna, Minneapolis
 Diane Hansen Priscilla Petersen,
 A.L.A., Minneapolis
 Douglas John Peterson, Minneapolis
 Gary Raymond Peterson, Bloomington
 Lawrence Bruce Pomrantz, Minne-
 apolis
 Linda Kay McLaughlin Pothén, Ben-
 son
 James Robert Potter, Excelsior
 Ann Margaret Pougiales, Rochester
 Emma Jean Preheim, Marion, S.D.
 John William Preus, Minneapolis
 Charles Arthur Rambeck, Thief River
 Falls, *CUM LAUDE*, Economics

Susan Ann Ramsay, A.A., Minneapolis	Kay Marie Stillman, Minneapolis
Richard Kenneth Randell, Minneapolis	William Michael Strasser, Edina
Joan Jinx Reed, Bloomington	Jeanne Marie Sulem, Minneapolis
Lawrence Lee Reed, St. Paul	Gerald Leonard Swanson, Austin
Yolanda Bernabe Reyes, Coatepec Harinas, Mexico	Joan Marie Swanson, St. Louis Park
Leonard Joseph Richards, A.A., Vir- ginia	Wallace Roy Swanson, Minneapolis
Suzanne Grace Gray Riggi, St. Paul	Cheryl Anne Sybrant, Waseca
Stephen Anthony Robb, Minneapolis	Susan Elsa Teltcher, New York City, N.Y.
James Watt Rogers, Minneapolis	Patricia Karen Thunnell, Minneapolis
Susan Elizabeth Romlin, Minneapolis	John Benjamin Totushek, Minneapolis
Mikal Endre Saltveit, Jr., Minneapolis	Jerome John Tucci, St. Paul
Julianne Sanda, Cloquet	Merike Tumma, Minneapolis
Jeffrey John Saunders, Minneapolis	William Kelly Voedisch, Minneapolis
Rudolf Hans Schnasse, St. Paul	Mary Sharon Walsh, St. Paul
Bruce Donald Seebeck, St. Paul	Linda Ebba Waxlax, Silver Bay
Carla Fritsche Seifert, New Ulm	John Lawrence Weidt, A.A., Minne- apolis
Ingrid Ann Senjem, Hayfield	Betty Marjorie Weitzel, Cottage Grove
Bette Lou Shaw, Minneapolis	Susan Marie Welch, Minneapolis
Suzanne J. Sheets, Hopkins	Louise Agnes Welter, Bloomington
Robert Waldemar Sherk, Dayton, Ohio	Ralph Kurt Wiedenhoef, St. Paul
Nancy Kay Siegel, Des Moines, Iowa	Richard Earl Wigand, Minneapolis
David Harry Smith, A.A., Minneapolis	Paul F. Wolff, Minneapolis
Dennis Robert Smith, St. Paul	Judy Kaye Woodruff, St. Paul
Larry Todd Smith, Young America	Peter Lloyd Workman, Excelsior
Robert Jeffrey Smith, Minneapolis	Catherine Hagen Yamoor, Minne- apolis
Catherine Jennie Srsen, Owatonna	Joseph Michael Zdon, Minneapolis
Marcia Louise Stien, Minneapolis	

UNIVERSITY COLLEGE

Bachelor of Arts

Bertha Mary Chickering Biersborn,
St. Paul
*Ruth Marilyn Lund, Tyler, CUM
LAUDE*

*Colleen Ann Gallagher McCarthy,
Minneapolis, CUM LAUDE*

Bachelor of Science

Richard Don Sundeen, Minneapolis

INSTITUTE OF TECHNOLOGY

Bachelor of Aeronautical Engineering

Roger Dean Bloomfield, Isanti
David Arthur Carlson, Trimont
Thomas Felter Goodrick, Coon
Rapids
David Wayne Johnson, Minneapolis
Jeffrey Allen Ohlson, Rhineland,
Wis.
Theodore Andrew Olsen, Rhineland,
Wis.

Leonard Robertson, Northport, N.Y.,
WITH DISTINCTION
Sulaiman Owolabi Talabi, Lagos, Ni-
geria
Daniel Gene Tyson, St. Paul
Alan Herbert Weiner, Little Falls

Bachelor of Agricultural Engineering

Daryl Russell Halvorsen, Emmons
James Roy Johnson, Lindstrom
Calvin George Larson, Heron Lake
Richard Nicholas Sobiech, Minne-
apolis

David Milo Velo, Pelican Rapids
Kenneth Charles Wolfgram, Roches-
ter

Bachelor of Architecture

Joseph Michael Courteau, St. Paul
Joel Howard Goodman, Skokie, Ill.,
WITH DISTINCTION
Dominic Cosmo Greco, Minneapolis
John Sheldon Larson, B.A., Minne-
apolis

Leonard Paul Lilyholm, B.A., Rob-
binsdale
James Clarence Morss, St. Louis Park
Charles Jack Radloff, Oshkosh, Wis.
Kenneth Newton Schenk, Minne-
apolis

Bachelor of Chemical Engineering

Donald Harold Thune, Minneapolis

Bachelor of Chemistry

Jerome Paul Gregory, St. Paul
Dennis Paul Landucci, St. Paul
Curtis H. Pratt, B.A., Anoka

Leigh Safford Thomas, Wayzata
Brian Charles Walsh, Minneapolis

Bachelor of Civil Engineering

James Allen Benschopf, Detroit Lakes,
WITH DISTINCTION
Robert Oliver Durfey, Winona
Daniel Lee Glasspoole, Wabasha

Ray Hugo Hario, Ely
Douglas Russell Iverson, Bloomington,
WITH DISTINCTION
John Milton Kannas, Bovey

Dennis Robert Levine, St. Cloud
Carl Murray Markus, St. Paul
Michael Spencer McGray, Minne-
apolis
Darold Maurice McMahan, Alexandria

John Theodore Rohwedder,
B.Geol.E., Minneapolis
Ronald John Ryan, South St. Paul
Harold William Walter, Helena,
Mont.

Bachelor of Electrical Engineering

James Merton Abrahamsen, Anoka
Sheldon LeRoy Altman, Minneapolis
Paul Linden Clendening, Minneapolis
David Wilfred Dorumsgaard, Minne-
apolis
Michael Girard Golden, Minneapolis
Edward Ray Ladd, Joliet, Ill.
Maynard Edwin Leistikio, Waconia
Thomas Eugene Lindberg, Richfield
Keith LeRoy Lindstrom, Westbrook,
WITH DISTINCTION

Roger Theodore Olson, White Bear
Lake
Le Roy Henry Paggen, B.M.E., St.
Paul
Lee Dene Recknor, A.A., Spring
Valley
David Charles Saxerud, St. Paul
Steve John Sultany, Jr., Robbinsdale

Bachelor of Geological Engineering

John Malcolm Sharp, Pine City, WITH DISTINCTION

Bachelor of Mathematics

Kenneth Edwin Koehler, B.S.B., Wayzata

Bachelor of Mechanical Engineering

John Edwin Anderson, Thief River
Falls
William Emil Anderson, Minneapolis
Richard Charles Bielke, Minneapolis
William Richard Bunker, Richfield,
WITH DISTINCTION
Thomas Peter Currie, St. Charles
Jake Donald DeGuise, Worthington
Donald William Erkkila, Hopkins
Gene G. Goodro, Rochester
David Charles Hall, Lindstrom
Robert Leroy Johnson, Aitkin
James Louis Karalus, Duluth
Michael Edward Keyes, Richfield,
WITH DISTINCTION

Roger Edward Laine, Ely
Lannie Forrest Norris, Jr., Minne-
apolis
James Albert DeRuyter, Willmar
Barry Henry Rogich, Hibbing
Michael Romslo, International Falls
James Martin Silvernail, Aberdeen,
S.D.
Vernon Roy Sjodin, Minneapolis
Mark Frederick Sommars, Edmonds,
Wash.
Fredric Michael Wagner, Minneapolis

Bachelor of Mineral Engineering

John Edward Peterson, Minneapolis

Bachelor of Physics

John Charilaos Caranicas, Athens,
Greece

Gerald Robert Cucci, Montevideo

Keith Robert Gaspard, Richfield

Uldis Krastins, St. Paul

Svens Charles Milenbachs, Minne-
apolis

Karen Virginia Schulte, Hutchinson

Jon Paul Zbasnik, Ely

COLLEGE OF EDUCATION

Bachelor of Science

Mary Jane Ahrens, Minneapolis

Thomas Edward Allen, A.A., Minne-
apolis

Juel Elsie Anderson, New Brighton

Stanley Willis Archer, Akeley, WITH
DISTINCTION

Barbara Mary Arnold, Minneapolis

David William Aurell, B.A., Grand
Rapids

Eileen Donnelly Baker, St. Paul

D. Carolyn Basterash, Duluth

Patricia Ann Bates, St. Cloud

Roselyn LaVon Beckman, Ortonville

Katherine Alice Bertram, B.A.,
Minneapolis

Lorean Evelyn Bouchard, Brooklyn
Center

Patricia Robl Brennan, Richfield

Phyllis Anderson Brooks, Minneapolis

Grace Joy Hendrickson Burggraf,
Minneapolis, WITH DISTINCTION

David Henning Carlson, A.A., St.
Paul

Nancy Luella Carter, Minneapolis

Shelley J. Cary, Minneapolis
Frances Margaret Christilaw,
Owatonna

Olive Jean B. Clary, B.A., St. Paul

Loretta Miriam Cooper, St. Louis
Park

Brenda Ruth Craig, Minneapolis

Donna Lynn Dahm, West St. Paul

Theodore Jeremy Dorr, St. Paul

Phillip Robert Dumas, Minneapolis

Dennis Allen Dushaw, A.A., Sauk
Rapids

Douglas Curtis Edlund, Hopkins

Roxanne Lee Effertz, Minnetonka

Margaret Constance Ellison, Coon
Rapids

Jane Murrow Erickson, St. Paul

Claudia Joy Foley, Sioux City, Iowa,
WITH DISTINCTION

Barbara Ann Foster, White Bear Lake

Gail Skyberg Foster, Minneapolis

James Patrick Foxley, South St. Paul

Mary Jo Gamradt, Little Falls

David Victor Gebhard, St. Paul

Mary Elizabeth Gehan, St. Paul

Gwendolyn Naomi Gentry, New
Brighton

Carol Nadine Goldstein, St. Paul

Klaus Rudiger Grosshans, Minne-
apolis

Cheryl Joy Wold Gustason, Minne-
apolis

Ronald Peter Haar, B.A., Hopkins

Roger Earl Haase, Cleveland

Mary Laden Halpern, Minneapolis

Joseph J. Hampl, Jr., Owatonna

Nancy Nebel Hansen, North St. Paul,
WITH HIGH DISTINCTION

Larry Marlin Hartse, Jr., A.A., Minne-
apolis

Dennis Lee Haversack, Minneapolis
 Susan Clair Currens Heaston,
 Excelsior
 Melvin Thomas Henderson, St. Paul
 Dolores Ailcen Henline, B.A., Minne-
 apolis
 James Dennis Huber, Aitkin
 William Ervin Hudson, St. Paul
 Georgia Elaine Iverson, Minneapolis
 Arthur Louie Jentsch, Minneapolis
 Alden Leroy Johnson, B.A., Maple
 Plain
*Rosella Jane Johnson, White Bear
 Lake, WITH DISTINCTION*
*Barbara Alice Jones, Minneapolis,
 WITH DISTINCTION*
*Helen Beatrice Junge, Bloomington,
 WITH DISTINCTION*
 Marjorie Jurkovich, Minneapolis
 Diane Marie Kammerer, St. Paul
 Raymond Arthur Karhu, Minneapolis
 Edith Landvik Kleven, Minneapolis
 Susan Frances Knoblauch, St. Paul
 Nan Louise Krieger, Edina
 Marilyn Sue Herman Kronick, Minne-
 apolis
 Karen Annette Lane, Wayzata
 Ruth Kauth Lange, Minneapolis
 Delano Merlin Lantz, North Branch
 Lorraine Joy Larson, Clearbrook
 Jacquelin Lee Leonard, Minneapolis
 Louise Marilyn Lindman, Benson
 Betsey Elise Luck, Edina
 Joyce Karen Lundell, Wadena
 Dianne Edith Lutes, Richfield
*Kathleen Alice Lynch, Minneapolis,
 WITH DISTINCTION*
 Andrea Phyllis Hunt Mackenstadt,
 Eden Prairie
 Sandra Lee Margolin, B.A., Sioux
 City, Iowa
 Wanda Terry Mark, Minneapolis
 Bonnie Dianne Marvy, B.A. *cum*
 laude, St. Paul
*Ursula Eibl McLean, Rochester, N.Y.,
 WITH DISTINCTION*
 Kenneth Charles McMorran, A.A.,
 Minneapolis

Ann Marie Wescott Method, A.L.A.,
 Minneapolis
 Karen Nadine Meyer, G.D.H.,
 Perham
 Ann Hilary Miller, B.A., Colwyn Bay,
 Great Britain
 Audrey Jean Miller, Minneapolis
 Carol Ann Mortenson, Edina
 Rosemarie Margaret Nye, Minneapolis
*Jane Celine Obern, Minneapolis,
 WITH DISTINCTION*
*Lanny Carlton Orning, Hayfield, WITH
 HIGH DISTINCTION*
 Susan Ann Ostrom, Minneapolis
 Roy Warren Pallatt, Philadelphia, Pa.
 Janet Louise Palmquist, Cambridge
 Pamela Diane Peterman, Minneapolis
 Sharon Elaine Peterson, Minneapolis
 Linda Kay McLaughlin Pothén,
 Benson
*Gail Pauline Radius, Blooming Prairie,
 WITH HIGH DISTINCTION*
 Carolyn Meredith Redmond, Anoka
 William Patrick Reeves, Minneapolis
 Tatiana Popov Reichow, St. Paul
 Philip Martin Rosenberg, Minneapolis
 Candace Lea Rucker, Rush City
 Dean Olaf Sabby, A.A., Spring Lake
 Park
*Mary Annette Sachariason, Monte-
 video, WITH DISTINCTION*
 Lynne Marie Salem, Sioux Falls, S.D.
 Stephen Maurice Saunders, Minne-
 apolis
 Arlene Lillian Schubert, Minneapolis
 Annette Wanda Shelstad, Minne-
 apolis
*Robert Spiecker, White Bear Lake,
 WITH DISTINCTION*
 Diane Harriet Stenerson, Dalton
*Diane Laverne Stoltz, Hopkins, WITH
 HIGH DISTINCTION*
 Jo Anne Swain, St. Paul
 Judith Lee Sweet, St. Paul
 Elsie Jean Tarbell, St. Paul
 Sara Louise Turngren, Hopkins
 Barbara Jeanne Wiley, Osseo
 Raymond Andrew Zawislak, Jr.,
 Minneapolis

Master of Education

Rosa Marta Charlone, Montevideo,
Uruguay
Ruth Proft Dannehl, B.S.N., Hugo
Ruth May Lutz, B.S., White Bear
Lake

Alfred Leo Pavlish, B.S., Silver Lake
Sandra Marie Sheldon, B.S., St. Paul

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

Bachelor of Science

Pauline Gunderson Harding, Twin
Lakes, Home Economics Education

*Joan Elizabeth Sackreiter, Rochester,
Home Economics Education, WITH
DISTINCTION*

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

Technical Certificate in Agriculture

Lowell Everett Perry, St. Cloud

Bachelor of Science

Stanislaus Nwora Akilo, Nigeria,
Forestry
David James Barber, Deerwood,
Forestry
Dale Roger Bergdahl, Isanti, Forestry
Wallace Orville Bergmann, Janesville,
Agriculture
Curtis Eldred Buer, Canby, Agriculture,
WITH DISTINCTION
Eric Glen Dornfeld, Minneapolis,
Agriculture
James Walter Enzmann, Cook, Agriculture,
WITH DISTINCTION
Diane Lynn Erickson, Minneapolis,
Home Economics
Richard Luverne Finstad, Hanska,
Agriculture

Joseph Edward Goebel, Winona,
Agriculture
Joanne Patricia Groger, Minneapolis,
Home Economics, WITH DISTINCTION
Walter Wilhelm Gyllander, Nash-
wauk, Forestry
James Hans Hanson, St. Paul, Agriculture
Lois Melchert Heimlich, Mayer,
Home Economics
Gary Richard Jensen, Minneapolis,
Forestry
Carol Emma Jentz, Le Sueur, Home
Economics
Carol Jean Kesler, Edina, Home
Economics

Susan Locke Lamprey, St. Paul, Home Economics	Milton Theodore Paulson, Clitherall, Agriculture
Bruce Edwin Leiding, Dunnell, Forestry	Roy Chester Pemble, Janesville, Agriculture
Mary Elizabeth Lien, St. Paul, Home Economics	Carol Peters, Lake City, Home Economics
Barbara Scott McFarland, Richfield, Home Economics	William Jerome Peters, Litchfield, Agriculture
Marie Ann McKay, Brainerd, Home Economics	Roger Millard Rohrer, Cyrus, Forestry, WITH DISTINCTION
Michale Hugh Middleton, Marshall, Agriculture	Patricia Rae Sheldon, Houston, Home Economics
George Thomas Miron, Hugo, Agriculture	Dale Richard Steussy, Foxhome, Agriculture
Margo Anne Mogush, Hopkins, Home Economics	Daniel Burnie Wilkens, Crookston, Agriculture
Huon John Newburg, Grand Rapids, Agriculture	Laura Lee Yost, Estherville, Iowa, Home Economics

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Donald Warren Anderson, Wayzata	Curtis Neal Gerlitz, New Brighton
Richard Arlen Anderson, Minneapolis	Joseph Francis Godava, Minneapolis
Thomas Caryl Anderson, Minneapolis	Michael Sanford Goldman, Minneapolis
Dennis Julio Arrigoni, St. Paul	Thomas Charles Halverson, St. Paul
Thomas Joseph Baker, International Falls	James Maurice Hill, Plymouth
Bruce Howard Berguson, Edina	James Robert Hill, Deephaven, WITH DISTINCTION
Robert David Bersie, Maple Plain	Philip Dale Hintermeister, Hadley
Muriel Anne Bochnak, Minneapolis	William Michael Hoxmeier, St. Paul
Delmer William Bretzman, Lakefield, WITH DISTINCTION	Eugene N. Jaster, Minneapolis
Donald Helge Brown, Minneapolis, WITH DISTINCTION	Richard Dale Johnson, Babbitt
Gary Lee Buckmiller, Minneapolis	Richard Joseph Keintz, Mahtomedi
Lawrence Patrick Claude, Rochester	Phillip Arthur Klaesges, A.A., Mound
John William Clausen, Minneapolis	Charles Walter Lawrence, Minneapolis
Daniel Thomas Clifford, Minneapolis	John Albert Lietzke, Sacred Heart
Randall Richard Creeger, Luverne	Henry Martin Lind, Afton
David John Curry, Minneapolis	William Arthur Long, Jr., St. Paul
Robert Douglas Driesch, Minneapolis	Robert Lawrence Madsen, South St. Paul
Steven Lee Erickson, Minneapolis	Raymond Earl Maitland, Minneapolis
Thomas Alexander Erlon, St. Paul	Bruce Gordon Martin, St. Paul
Stephen James Franta, New Ulm	Wayne Melton Martin, Minneapolis
Gerald Klemens Furst, A.A., Long Lake	David Lee Matz, Robbinsdale

Raymond William McHale, Minneapolis
 John Lawrence McPherson, Minneapolis
 Anthony Walter Merchlewitz, Winona
 Michael David Meyer, Minneapolis
 Joseph Edwin Meyers, Jr., Minneapolis
 Rodney Lowell Olsen, A.A., Minneapolis
 Dorothy Vossler Olson, Ashley, N.D.
 Robert Stanley Olson, Minneapolis
 Bruce Alan Peterson, North St. Paul
 Warren Albert Peterson, Cromwell
 Warren Lien Pillsbury, Minneapolis
 Richard Peter Rendahl, Mound
 Richard Lee Richardson, St. Paul
 Peter Dexter Rosenow, Edina
 Wesley Roland Rundquist, Minneapolis
 Gerald Robert Russeth, Minneapolis
 Robert Allan Sanden, Mabel
 James Deward Schultz, Minneapolis

John William Sias, Minneapolis
 William Lee Simms, Minneapolis
 Romarro Darwin Skeim, International Falls
 Stephen Raymond Solstad, Minneapolis, WITH DISTINCTION
 James Perry Stellick, Minneapolis
 Leonard Oren Storlie, Rosemount
 John Arthur Swanson, Fridley
 John Edward Swanstrom, Jr., Duluth
 Ronald Oiva Vainik, A.A., Virginia
 Bruce Russell Wadnizak, Minneapolis
 David Oliver Wanglie, Minneapolis
 Gary Charles Wenzel, St. Paul
 Phillip James Williams, St. Louis Park
 Robert John Winter, A.A., Mason City, Iowa, WITH DISTINCTION
 Daniel Lee Wuollet, Minneapolis, WITH DISTINCTION
 Carolyn Mary Youngvorst, Prior Lake
 Ronald Harvey Zuercher, St. Paul
 Dennis Stanley Zylla, A.L.A., Minneapolis

Bachelor of Science in Economics

Richard Douglas Bengtson, Richfield
 Terry Jacob Blount, Lake Geneva, Wis.
 Paul George Cartier, St. Paul
 Casey Michael John Fron, Mapleton
 Wayne Carrol Johnson, Richfield
 John David Kuyper, St. Paul

Thomas Edward Mungavan, Jr., St. Paul
 Terrence Lee Paape, A.A., Minneapolis
 Gary Ernest Salmela, Hastings
 James Rolland Ufer, White Bear Lake

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

Bachelor of Agricultural Business Administration

John Herman Appeldorn, Pipestone
 Roger Joseph Knutson, Williams
 Thomas Joseph Laumann, Cologne
 Clem Francis Meyer, Le Sueur

Kent Louis Moe, Springfield
 Thomas Bryan Rossi, Rochester
 James Walter Shatava, Pine City

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Nick Mike Bocnuk, International Falls
Thomas Joseph Forchay, St. Louis
Park
Jerome Bernard Hirsch, St. Paul

Robert Gene Moncur III, South St.
Paul
Michael James Western, Ashby

LAW SCHOOL

Bachelor of Laws

James Bradway Butler, B.A., St. Paul
K-John Cheung, B.S., Hong Kong,
China
John Remington Graham, B.A.,
Brainerd
Maribeth Halloran, B.A., Minneapolis

Richard Thomas Jessen, B.A., St. Paul
Jerry David Korba, B.S.B., Minne-
apolis
David Ross Mechlin, B.A., Calumet,
Mich.

SCHOOL OF DENTISTRY

Bachelor of Science

Richard James McConnell, D.D.S., San Antonio, Tex.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Carol Marie Brueske, Excelsior,
Occupational Therapy
Dianne Mae Carlson, Buhl, Medical
Technology, WITH HIGH DISTINC-
TION*

Susan Corinne Carlson, Minneapolis,
Medical Technology*

Margaret Ann Doi, Minneapolis,
Medical Technology*

Patricia Caroline Igou, A.A., Austin,
Medical Technology, WITH DISTINC-
TION*

MaryAnne Jerkovich, Hibbing,
Medical Technology*

Howard Sullivan Lee, Jr., South St.
Paul, Medical Technology*

Patricia Kathleen McCormick, Minne-
apolis, Medical Technology*

* These degrees are conferred subject to the completion of practical work prior to March 18, 1967.

Raija Liisa Anneli Salonen, Cloquet,
Medical Technology*

Susan Kaye Wood, Eden Prairie,
Medical Technology*

Master of Public Health

Raymond George Cink, B.S., Parker,
S.D.

Susan Elizabeth Esh, B.S.N., Belle-
ville, Pa.

Laura Elizabeth Folden, B.S., Minne-
apolis

Lenore Geneve Fredrickson, B.S.,
Syracuse, N.Y.

Mary Frances Hostettler, B.S., Nash-
ville, Tenn.

Esther Margaret Oberg, B.S.N.,
Temple City, Calif.

Olimpiades Sanchez, Civil Engineer,
Maracaibo, Venezuela

Joyce Ellen Savage, R.N., B.S.N.,
Crosby

Yoshiko Shimoda Shimamoto, B.S.,
Minneapolis

Myrna Eileen Slater, B.S.N., Toronto,
Ontario, Canada

Mary Chloe Sheldon Wistrom, B.S.,
Houston

GRADUATE SCHOOL

Master of Architecture

Harry Robert Douglass, Omaha, Neb.
B. of Arch. '63, University of Nebraska. Field
of Concentration: Architecture. Major Adviser:
Prof. W. K. Vivrett.

William Paul Stamm, Barrington, Ill.
B.A. '65, University of Michigan. Field of
Concentration: Architecture. Major Adviser:
Prof. W. K. Vivrett.

Master of Arts

Lieselotte Guenther Amundson,
Berlin, Germany
Free University of Berlin. Field of Concen-
tration: German. Major Adviser: Prof. G. H.
Weiss.

Darlene May Anderson, Waseca
B.S. '61, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
Major Adviser: Prof. R. G. Price.

Dorothy Seward Anderson, Albert
City, Iowa
B.A. '27, Morningside College. Field of Con-
centration: English. Major Adviser: Prof. J. C.
Levenson.

John Allen Anderson, Willmar
B.A. '60, Augsburg College. Field of Concen-
tration: Educational Administration. Major Ad-
viser: Prof. C. P. Hooker.

Roland Leroy Anderson, Bloomington
B.S. '57, St. Cloud State College. Field of
Concentration: Curriculum and Instruction.
Major Adviser: Prof. R. G. Price.

Marion LaVonne Anhalt, Plentywood,
Mont.
B.S. '50, Western Montana College. Field of
Concentration: Library Science. Major Adviser:
Prof. Frederick Wezeman.

* These degrees are conferred subject to the completion of practical work prior to March 18, 1967.

Ann Lenore Archibald, Minneapolis

B.A. '44, B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. C. Chase.

Evelyn Rhoda Arends, Cushing

B.S. '57, St. Cloud State College. Field of Concentration: Library Science. Major Adviser: Prof. D. K. Berninghausen.

Susan Grellinger Arisman, Washington, D.C.

B.S. in Journ. *cum laude* '59, Marquette University. Field of Concentration: English. Major Adviser: Prof. C. H. Foster.

Ruth Elisabeth Augustin, Red Wing

B.S. in Ed. '60, Concordia Teachers College. Field of Concentration: Library Science. Major Adviser: Prof. N. J. Freeman.

Kenneth Ray Badertscher, Terre Haute, Ind.

B.S. '54, Indiana University. Major: Physical Education. Minor: Public Administration. Thesis: Basic Personality Types and Senior Citizen Programming. Major Adviser: Prof. R. J. Donnelly.

June Nora Becker, Gettysburg, S.D.

B.S. '54, Minot State Teachers College. Field of Concentration: History. Major Adviser: Prof. W. D. Beatty.

Paul Donald Bengtson, Owatonna

B.S. '58, University of Minnesota. Field of Concentration: Physical Education. Major Adviser: Prof. R. J. Donnelly.

Donald Lee Berg, Minneapolis

B.A. '56, University of Wisconsin. Field of Concentration: Area Studies. Major Adviser: Prof. R. O. Floripe.

Gregory Earl Bergeron, Coon Rapids

B.A. '59, University of Minnesota. Major: Speech and Theatre Arts. Minor: English. Thesis: The Second Audience: The Distribution of Business Speeches as Pamphlets. Major Adviser: Prof. R. L. Scott.

Carl Henry Bloedel, Brooklyn Center

B.S. '51, Concordia Teachers College (Illinois). Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. J. R. Curtin.

Michael Thomas Bohon, St. Paul

B.A. *cum laude* '64, College of St. Thomas. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

Donald Kirk Bolyard, Kenosha, Wis.

B.A. '49, Concordia College. Field of Concentration: Educational Administration. Major Adviser: Prof. N. C. Nickerson.

Sandra Hughes Boyd, Council Bluffs, Iowa

B.A. '61, Colorado College. Field of Concentration: Library Science. Major Adviser: Prof. E. W. McDiarmid.

Elmo Harold Brekhus, Minneapolis

B.A. '57, University of Minnesota. Major: Library Science. Minor: Business Administration. Thesis: An Analysis of the Diabetes-related Literature Selected for Inclusion in an Information Retrieval System. Major Adviser: Prof. W. C. Simonton.

Sister Richarda Buermann, Antofagasta, Chile

B.A. '57, College of St. Scholastica. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. H. C. Johnson.

William Douglas Butler, Anoka

B.S. '59, University of Minnesota. Field of Concentration: Agricultural Education. Major Adviser: Prof. J. J. Peterson.

Frank Dale Campbell, Fergus Falls

B.S. '62, Northland College. Field of Concentration: Educational Psychology. Major Adviser: Prof. J. D. Duker.

Carlota Brack Cannon, Rosario, Argentina

B.A. '60, Argentina Institute del Profesorado Secundario. Field of Concentration: Spanish. Major Adviser: Prof. R. O. Floripe.

Marcia Linda Chernosky, Towanda, Pa.

B.S. '63, Pennsylvania State University. Major: Child Psychology. Minor: Educational Psychology. Thesis: Observing Responses in Preschool Children. Major Adviser: Prof. S. G. Moore.

Merritt Eudell Christensen, Minot, N.D.

B.S. '59, University of Minnesota. Field of Concentration: Journalism. Major Adviser: Prof. Edwin Emery.

Glenn LaVerne Cleveland, Detroit Lakes

B.S. '59, St. Cloud State Teachers College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. C. Price.

Frayda F. Myers Cooper, Minneapolis

B.A. '45, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. J. R. Curtin.

Sue Crowell, Golden Valley

B.S. with distinction '60, University of Minnesota. Field of Concentration: Home Economics Education. Major Adviser: Prof. M. M. Brown.

Judith A. Custer, Minneapolis

B.A. '65, St. Catherine's College. Field of Concentration: French. Major Adviser: Prof. A. A. Renaud.

Dean Vincent Dannewitz, Jackson

B.B.A. '56, University of Minnesota. Major: Industrial Relations. Minor: Psychology and Sociology. Thesis: A Comparison of Attitudes Toward the World of Work between High School Youth and Parties to the Employment Decision. Major Adviser: Prof. H. G. Heneman, Jr.

Euripides Ioannou Demetriades,
Nicosia, Cyprus

B.A. with honors '61, Queen's University. Field of Concentration: Economics. Major Adviser: Prof. Edward Coen.

Kerrin Dittmer, Mölln, Germany

B.A. '64, Free University of Berlin. Major: History. Minor: Sociology. Thesis: The Role of the Indian Classes in the Nationalist Movement in India, 1920-1935. Major Adviser: Prof. Burton Stein.

Jane Marie Dorn, New Richland

B.S. '62, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. D. K. Berninghausen.

Mary Tripp Drenckhahn, Minneiska

B.S. with high honors '57, Winona State College. Field of Concentration: Educational Psychology. Major Adviser: Prof. Charlotte Podolsky.

William Dale Erdman, Menomonee Falls, Wis.

B.S. '58, St. Cloud State College. Field of Concentration: Industrial Education. Major Adviser: Prof. H. F. Nelson.

Glenn Roger Erickson, St. Louis Park

B.S. with distinction '66, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. C. Reynolds.

Merna Madreen Evans, Fosston

B.S. with distinction '58, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. N. Odland.

Bernadine Margaret Feldman, Prior Lake

B.S. with distinction '60, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. R. E. Wilk.

William Alan Fenholt, Long Lake

B.S.C. '51, University of Iowa. Field of Concentration: Educational Administration. Major Adviser: Prof. C. P. Hooker.

Thomas Duane Fichtel, Anoka

B.A. *magna cum laude* '53, Wartburg College. Field of Concentration: Educational Administration. Major Adviser: Prof. C. P. Hooker.

Cynthia Nancy Friis, Alexandria, Va.

B.A. '61, College of William and Mary. Field of Concentration: Educational Psychology. Major Adviser: Prof. B. E. Balow.

Elizabeth Dorothy Futas, New York, N.Y.

B.A. '65, Brooklyn College. Field of Concentration: Library Science. Major Adviser: Prof. N. J. Freeman.

Sister Mary Carolita Galush, St. Paul

B.A. '59, College of St. Catherine. Field of Concentration: German. Major Adviser: Prof. G. H. Weiss.

Richard Keith Gehrenbeck, Parkville, Mo.

B.A. *magna cum laude* '56, Macalester College. Major: Physics. Minor: Mathematics. Thesis: A New Source of Polarized Protons. Major Adviser: Prof. C. H. Poppe.

Robert Geis, New York, N.Y.

B.A. '64, City College of New York. Field of Concentration: History. Major Adviser: Prof. D. W. Noble.

Alan M. Gendler, Austin

B.A. *cum laude* '64, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. Steven Orey.

Belen Constantino Gonzales, Quezon City, Philippines

B.S. Educ. '41, University of the Philippines. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Dale Robert Haaheim, Bloomington

B.A. *magna cum laude*, B.S. with distinction '61, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. C. L. Miracle.

George Lewis Hackleman, Pawhuska, Okla.

B.A., B.M.E. '61, Phillips University. Field of Concentration: Theatre Arts. Major Adviser: Prof. R. D. Moulton.

Dorothy Lucille Hagen, Alexandria

B.A. '65, St. Cloud State College. Field of Concentration: Library Science. Major Adviser: Prof. Frederick Wezeman.

Curtis Ray Hahn, Moorhead

B.A. '50, Concordia College. Field of Concentration: Art Education. Major Adviser: Prof. A. E. Smith.

James Henry Lewis Harders, Winona

B.S. '63, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. N. C. Nickerson.

Frances Claire Hardy Harris, Mound

Mus.B. '53, Boston University. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

Hubert C. Hasleton, Alexandria

B.S. '37, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. C. P. Hooker.

Wendell Frederick Helstrom, St. Paul

B.S. '51, St. Cloud State Teachers College. Field of Concentration: Educational Administration. Major Adviser: Prof. S. H. Popper.

Thomas Arthur Hepokoski, Duluth

B.A. *summa cum laude* '64, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. T. A. Mahoney.

Charles Wendell Herman, Skokie, Ill.

B.A. '64, Trinity College. Field of Concentration: History. Major Adviser: Prof. Otto Pfanze.

Blandine Ann Jasnocha Hogan, Ware, Mass.

B.S. Educ. '56, State Teachers' College (Mass.). Field of Concentration: Mathematics. Major Adviser: Prof. Charles Hatfield.

Marsha Susan Hultstrand, Hibbing

B.S. '59, University of Minnesota. Field of Concentration: Physical Education. Major Adviser: Prof. E. M. Jaeger.

James Edward Hundley, St. Paul

B.S. with distinction '62, University of Minnesota. Field of Concentration: Area Studies. Major Adviser: Prof. R. O. Floripe.

Sister Mary Anita Jambor, St. Paul

B.S. '59, Loyola University. Field of Concentration: Art Education. Major Adviser: Prof. Reid Hastie.

James Martin Jensen, Minneapolis

B.S. '64, Wheaton College (Illinois). Field of Concentration: Industrial Relations. Major Adviser: Prof. M. D. Dunnette.

Dale Arden Johnson, Hector

B.S. '59, Konkato State College. Field of Concentration: Educational Administration. Major Adviser: Prof. G. R. Firth.

Marvin Bernhard Johnson, Minneapolis

B.A. '49, Augsburg College. Field of Concentration: Educational Administration. Major Adviser: Prof. N. C. Nickerson.

Mary Jane Stech Kalal, St. Paul

B.S. '58, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. N. Odland.

Marcia Mae Kendall, St. Louis Park

B.S. '62, University of Minnesota. Field of Concentration: Home Economics Education. Major Adviser: Prof. M. M. Brown.

Anna Margaret Kertz, Langdon, N.D.

B.A. '45, University of North Dakota. Field of Concentration: Library Science. Major Adviser: Prof. W. C. Simonton.

Joyce Karen Kessel, Lamoure, N.D.

B.S. '63, University of Minnesota. Field of Concentration: Speech Science, Pathology, and Audiology. Major Adviser: Prof. G. M. Siegel.

Jerome Stewart Kleinsasser, St. Paul

B.S. '61, University of Minnesota. Field of Concentration: Music Education. Major Adviser: Prof. A. F. Caswell.

Tse-Tun Ko, Keelung, Taiwan,
Republic of China

B.A. '61, National Taiwan University. Major: Political Science. Minor: History. Thesis: A Survey of Certain Legal Problems on the Continental Shelf in International Law of the Sea. Major Adviser: Prof. C. H. McLaughlin.

Donald Ralph Koenig, Hibbing

B.A. '64, University of Minnesota. Field of Concentration: History. Major Adviser: Prof. O. P. Pflanze.

John Kokosh, Jr., Minneapolis

B.A. '63, University of Minnesota. Field of Concentration: Psychology. Major Adviser: Prof. M. D. Dunnette.

Fayette Florent Krause, Alexandria

B.A. '64, University of Minnesota. Major: History. Minor: Political Science. Thesis: A Study of Left-Wing Politics in the Roosevelt Era. Major Adviser: Prof. C. A. Chambers.

Janice Arla Kriesel, Owatonna

B.S. *magna cum laude* '62, Wartburg College. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.

Edward Joseph Krzenski, Cloquet

B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. V. R. Plumb.

Kenneth George Kunshier, Anoka

B.S. '58, University of Minnesota; B.S. '59, Mankato State College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. P. Pearson.

Dorothy Buegel Lamberton, Minneapolis

B.A. *cum laude* '47, University of Minnesota. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Harriet Ilana Lampert, Montreal,
Ontario, Canada

B.A. '64, McGill University. Field of Concentration: Psychology. Major Adviser: Prof. J. N. Butcher.

John Peter Landwehr, St. Cloud

B.A. '54, Crosier House of Studies (Indiana). Field of Concentration: English. Major Adviser: Prof. W. A. Rosenthal.

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B.S. in Nurs. '65, Creighton University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

S. K. Maheswaran, Ceylon

B.V.Sc. '60, University of Ceylon. Field of Concentration: Veterinary Bacteriology. Major Adviser: Prof. B. S. Pomeroy.

Ann Liv Mehlhoff, Minneapolis

B.S. '64, St. Olaf College. Field of Concentration: Public Health. Major Adviser: Prof. M. I. Murphy.

Phillip Louis Millevolte, Eden Prairie

B.S. in A.E. '57, St. Louis University. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Dynamic Stability of Vortex Gliders. Major Adviser: Prof. W. H. Warner.

Alfred Edward Miron, Hugo

B.S. with distinction '64, University of Minnesota. Field of Concentration: Nutrition. Major Adviser: Prof. J. D. Donker.

Harvey Walter Mohrenweiser, Mora

B.S. '62, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Performance of Lactating Cows Fed Early- or Late-Cut Alfalfa Hay. Major Adviser: Prof. J. D. Donker.

William John Mueller, Winona

B. Chem. with distinction '64, University of Minnesota. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Reactions of Stable Carbonium Ions. Major Adviser: Prof. E. A. Hill.

Selmer Eugene Nelson, Prairie Farm, Wis.

B.S. '64, Wisconsin State University at River Falls. Major: Soil Science. Minor: Plant Physiology. Thesis: The Effect of Salts in Solution on the Leaching of Atrazine in Soils. Major Adviser: Prof. R. S. Adams, Jr.

Karen Lundquist Nordstrom, Austin

B.A. *cum laude* '62, Gustavus Adolphus College. Major: Biochemistry. Minor: Genetics. Thesis: The Concentration of Some Cholesterol Intermediates in Normal Rat Liver. Major Adviser: Prof. Ivan Frantz.

Robert Frederick Nyvall, St. Paul

B.S. '65, University of Minnesota. Major: Plant Pathology. Minor: Soil Science. Thesis: Factors Affecting the Survival of *Fusarium Moniliformis* in Soil. Major Adviser: Prof. Thor Kommedahl.

Donald Norris Orke, LeRoy

B.S. '63, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. H. L. Hansen.

Mahesh Chandra Pandey, Almora, India

B.S. '59, Kashmir University; M.S. '62, Ranchi University (India). Major: Plant Pathology. Minor: Botany. Thesis: Influence of Nutrition and Temperature on the Production and Ejection of Ascospores on *Leptosphaerulina Briosiana*. Major Adviser: Prof. R. D. Wilcoxson.

Jerome Raymond Peterson, Minneapolis

B.A. '64, University of Minnesota. Field of Concentration: Zoology. Major Adviser: Prof. N. T. Spratt.

Leroy Wendell Peterson, St. Paul

B.S. '64, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. John Neter.

Patricia Ziegler Petrak, Lebanon, Pa.

B.S. Chem. '64, Lebanon Valley College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Thermal and Photochemical Decomposition of Pentaamines of Cobalt (III) Halides. Major Adviser: Prof. S. T. Spees, Jr.

Robert Charles Reeve, Thief River Falls

B.S. '49, Bemidji State College. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. E. Dugan.

Paul David Rick, St. Paul

B.A. '64, Macalester College. Major: Plant Pathology. Minor: Biochemistry. Thesis: Carbon Dioxide Fixation in the Dark by Rust Uredospores and Rust-Infected Host Tissue. Major Adviser: Prof. C. J. Mirocha.

Saxe G. L. Roberts, St. Paul

B.S.B. '60, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. E. H. Lewis.

Emmerich Michael Schebeck, Vienna, Austria

Dip. Eng. '63, University of Vienna. Field of Concentration: Agricultural Economics. Major Adviser: Prof. P. M. Raup.

Thomas Patrick Schwartzbauer, St. Paul

B.S. cum laude '63, University of Notre Dame. Field of Concentration: Mathematics. Major Adviser: Prof. H. F. Weinberger.

Dorine Ruth Seaquist, Minneapolis

B.S. with distinction '61, University of Minnesota. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. G. K. Lewis.

Frank John Siccardi, Dansville, Mich.

D.V.M. '59, University of Georgia. Major: Veterinary Bacteriology. Minor: Poultry Science. Thesis: Identification and Disease Producing Ability of *Escherichia Coli* Associated with *E. Coli* Infection of Chickens and Turkeys. Major Adviser: Prof. B. S. Pomeroy.

Meira Bogin Silberman, Rehovot, Israel

B.S. with highest honors '54, University of California, Davis. Major: Agricultural Plant Physiology. Minor: Biochemistry. Thesis: Mechanism of Phosphate Absorption in *Rhizoctonia solanii*. Major Adviser: Prof. T. W. Sudia.

Muriel Peterson Skoug, Grantsburg, Wis.

B.S. '61, Wisconsin State University at River Falls. Field of Concentration: Mathematics. Major Adviser: Prof. M. B. Pour-El.

Thomas Stuart Straub, Louisville, Ky.

B.A. '63, Princeton University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Cleavage of Allylmercuric Iodide by Molecular Acids. Major Adviser: Prof. M. M. Kreevoy.

Sita Ramayya Tatini, Mortha, India

B.V.Sc. '57, Madras Veterinary College (India). Major: Dairy Industries. Minor: Agricultural Biochemistry. Thesis: Interrelationships among Bacteriological Methods for Grading Raw Milk. Major Adviser: Prof. J. C. Olson, Jr.

Sherman Thomas, Limon, Costa Rica

B.A. '61, University of Costa Rica. Major: Inorganic Chemistry. Minors: Physical and Organic Chemistry. Thesis: Nuclear Magnetic Resonance Studies of Inorganic Salts in Dimethyl Sulfoxide. Major Adviser: Prof. W. L. Reynolds.

Peter David Van Vliet, Rochester

M.D. '59, Northwestern University. Major: Pathology. Minor: Hematology. Thesis: Chemical Myocarditis and Pheochromocytoma. Major Adviser: Prof. J. L. Titus.

Robert Michael Wheeler, Richfield

B. Phys. with high distinction '63, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Elastic Scattering of K-Mesons in Hydrogen at 708 Me V/C and 820 Me V/C. Major Adviser: Prof. Hans Courant.

Glen Isham Williams, Bloomington

B.S. '58, University of North Dakota. Major: Business Administration. Minor: Economics. Thesis: Selection of Bank Investments to Maximize Profitability. Major Adviser: Prof. H. W. Stevenson.

James Edward Williamson, Chicago, Ill.

B.S. with honors '63, Northern Illinois University. Field of Concentration: Mathematics. Major Adviser: Prof. R. H. Cameron.

Larry John Wipf, Windom

B.A. in B.A. with high distinction '64, University of Minnesota. Field of Concentration: Agricultural Economics. Major Adviser: Prof. J. P. Houck.

Russell Duaine Wolfe, Waukesha, Wis.

B.S. with honors '51, University of Wisconsin. Field of Concentration: Public Health. Major Adviser: Prof. G. W. Anderson.

Leng Hwang Yin, Singapore, Republic of Singapore

B.S. '62, Nanyang University (Malaysia). Major: Organic Chemistry. Minor: Biochemistry. Thesis: The Reaction of Sulfones with the Grignard Reagent. Major Adviser: Prof. R. M. Dodson.

Master of Science in Chemical Engineering

William Richard Johnson, Sycamore, Ill.

B.S. with high distinction '61, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Study of Propylene Disproportionation Kinetics in an Experimental Fixed Bed Reactor. Major Adviser: Prof. A. G. Fredrickson.

Richard Francis Palas, Berwyn, Ill.

B.S.Ch.E. with highest distinction '65, Purdue University. Major: Chemical Engineering. Minor: Electrical Engineering. Thesis: Studies of a Fluid-Flow Control System and of a Chemical-Reactor Control System. Major Adviser: Prof. N. H. Ceaglske.

Master of Science in Civil Engineering

Charles Milton Anderson, Spicer

B.C.E. with high distinction '65, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. Paul Andersen.

Robert Lee Callery, Slayton

B.C.E. with high distinction '65, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. G. J. Schroefer.

Dennis Arthur Degner, Hillsboro, Wis.

B.S.C.E. '65, Wisconsin State University at Platteville. Field of Concentration: Civil Engineering. Major Adviser: Prof. G. J. Schroefer.

Klaus Erich Foerster, Minneapolis

B.S. with honors '56, Southern Methodist University. Field of Concentration: Civil Engineering. Major Adviser: Prof. A. G. Anderson.

Sibte Mustafa Kazmi, Karachi, Pakistan

B.E. '61, N. E. D. Engineering College (Pakistan). Field of Concentration: Civil Engineering. Major Adviser: Prof. W. T. Graves.

Iqtidar Zahid Khan, Karachi, Pakistan

B.E. '61, Karachi University (Pakistan). Field of Concentration: Civil Engineering. Major Adviser: Prof. W. T. Graves.

Vijay Prakash Khasat, Bilsa, India

B.Sc. '60, Agra University; B.E. (Civil) '64, University of Roorkee. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. T. Graves.

David Winston Kirkwood, Glenwood

B.S. '60, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. G. J. Schroefer.

I-Ho Lin, Taiwan, China

B.S. '63, Cheng-Kung University (Taiwan).
Field of Concentration: Civil Engineering.
Major Adviser: Prof. W. T. Graves.

Cesar A. Zapata Lopez-Aliaga, Lima,
Peru

B.E. '64, National University of Engineering
(Peru). Field of Concentration: Civil Engi-
neering. Major Adviser: Prof. J. F. Ripken.

Devi Pershad, Hyderabad, India

B.E. '61, Osmania University. Field of Con-
centration: Civil Engineering. Major Adviser:
Prof. W. T. Graves.

Mohsin Hasan Rizvi, Karachi, Pakis-
tan

B.E. '66, N. E. D. Engineering College (Pakis-
tan). Field of Concentration: Civil Engineer-
ing. Major Adviser: Prof. Paul Andersen.

Young Sik Shin, Seoul, Korea

B.S. '65, Seoul National University (Korea).
Field of Concentration: Civil Engineering.
Major Adviser: Prof. J. T. Hanley.

Neal Warren Swanberg, Monticello

B.S. '65, University of Minnesota. Major:
Civil Engineering. Minor: Mineral Engineer-
ing. Thesis: An Experimental Study of the
Relation of Soil Strength Properties to Erod-
ability of Cohesive Soil. Major Adviser: Prof.
J. W. Hayden.

Richard Edison Turner, St. Charles

B.C.E. with distinction '60, University of
Minnesota. Field of Concentration: Civil En-
gineering. Major Adviser: Prof. G. J. Schroep-
fer.

Syed Sibte Hasan Zaidi, Karachi,
Pakistan

B.E. '64, University of Karachi (Pakistan).
Field of Concentration: Civil Engineering.
Major Adviser: Prof. Paul Andersen.

Master of Science in Dentistry

Carl Lee Bandt, Nekoosa, Wis.

B.S. '60, D.D.S. '62, University of Minnesota.
Major: Dentistry. Minor: Biostatistics. Thesis:
Periodontal Connective Tissue Alterations as
a Result of Cortisone Administration. Major
Adviser: Dr. R. E. Stallard.

Lars Erik Axel Folke, Malmö, Sweden

L.D.S. '62, Royal Dental School, Sweden.
Major: Dentistry. Minor: Anatomy. Thesis:
Autoradiographic Analysis of Cellular Kinetics
within the Squamosomandibular Joint of the
Rat. Major Adviser: Prof. R. E. Stallard.

Eugene Sklar, Detroit, Mich.

D.D.S. '63, University of Detroit. Major:
Dentistry. Minor: Pathology. Thesis: The
Effects of Endocrine Dysfunction on Dental
Development and Maturation. Major Adviser:
Dr. J. A. Gibilisco.

William Knott Solberg, Alexandria

B.A. '58, Carleton College; D.D.S. '62, Uni-
versity of Minnesota. Major: Dentistry. Minor:
Pathology. Thesis: A Physical and Psychometric
Study of Functional Disturbances in Human
Temporomandibular Joints and Associated Mus-
cles. Major Adviser: Dr. J. R. Jensen.

Master of Science in Dermatology

Lee Joseph Vesper, Cincinnati, Ohio

M.D. '61, University of Cincinnati. Major:
Dermatology. Minor: Basic Dermatological Sci-
ences. Thesis: The Skin Window in Mycosis
Fungoides. Major Adviser: Dr. R. K. Winkel-
mann.

Master of Science in Electrical Engineering

Herbert Harold Bell, Minneapolis

B.E.E. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Reactively Sputtered Thin Film Superconducting Nitrides. Major Adviser: Prof. D. E. Anderson.

Robert Joseph Burns, Minneapolis

B.S. with distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Sensitivity Analysis in Specific Optimal Control. Major Adviser: Prof. K. S. P. Kumar.

David Roy Dean, Osseo

B.S. with distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Investigation of Giant Pulsing Methods in Ruby Lasers. Major Adviser: Prof. R. J. Collins.

James Thomas Fahey, St. Paul

B.S. with distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Sputtered Gold-Silicon Schottky Barrier Diodes. Major Adviser: Prof. E. R. Chenette.

Harry Neil Gilbert, St. Louis Park

B.S. with distinction '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Decision Feedback Communication System Using Binary Block Codes. Major Adviser: Prof. J. H. Park.

Peng Hsiao, Soochow, China

B.S. '63, Cheng Kung University (Taiwan). Major: Electrical Engineering. Minor: Mathematics. Thesis: Non-Linear Ion-Acoustic Waves in Plasma. Major Adviser: Prof. S. C. Lee.

Millard Dwight Hurd, Minneapolis

B.S.E.E. '64, Iowa State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. N. Bailey.

Howard Eugene Jones, New Brighton

B.S.E.E. '57, University of Michigan. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Stephen Crosby Merriman, Minneapolis

B.S. with distinction '65, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Roger Alan Messenger, South St. Paul

B.S. with high distinction '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: High Frequency Discharge Noise. Major Adviser: Prof. Aldert van der Ziel.

William Scott Meyer, Minneapolis

B.S. with high distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Exact Economic Dispatch Digital Computer Program for Electrical Utility Engineering. Major Adviser: Prof. V. D. Albertson.

Roger Elliot Mitchell, Louisville, Ky.

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

William Mack Mularie, Duluth

B.A. Phys. '61, University of Minnesota, Duluth. Major: Electrical Engineering. Minor: Mathematics. Thesis: Semi-conducting Properties of Sodium Antimonide. Major Adviser: Prof. W. T. Peria.

Harlan Von Northland, St. Paul

B.S.E.E. '62, Iowa State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Rodney Alan Perala, Swan River

B.S. with high distinction '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in P-I-N Junction Diodes. Major Adviser: Prof. Aldert van der Ziel.

Dennis Lee Prestholdt, Minneapolis

B.S. with distinction '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in p-n-p-n Devices. Major Adviser: Prof. Aldert van der Ziel.

Merlin Emil Scharfe, Redwood Falls

B.S. with distinction '64, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: The Gaseous Anodization of Tantalum. Major Adviser: Prof. A. B. Laponsky.

David Philip Smith, St. Paul Park

B.S. with distinction '62, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. D. E. Anderson.

Master of Science in Industrial Engineering

Ashok Kumar Agarwal, Nakur, India

B.E. '65, Birla Institute of Technology and Science (India). Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Jagannath Kunjal Nayak, Udipi, India

B.E. '63, University of Mysore; M.E. '65, Indian Institute of Science. Field of Concentration: Industrial Engineering. Major Adviser: Prof. R. S. Nyquist.

Ram Deo Prasad, Bihar, India

B. Tech. '65, Indian Institute of Technology. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Master of Science in Mechanical Engineering

Michael Harvey Barnes, White Plains, N.Y.

B.S. with distinction '64, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

Tze Yao Chu, Taipei, Republic of China

B.S. '64, Purdue University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Free Convection in a Horizontal Air Layer Heated from Below. Major Adviser: Prof. R. J. Goldstein.

James Stephen Doyle, St. Paul

B.S. '60, College of St. Thomas. Major: Mechanical Engineering. Minor: Physics. Thesis: Experimental Study of a Thermionically Emitting Hollow Cathode. Major Adviser: Prof. Emil Pfender.

Thomas Lew Eddy, Howard Lake

B.S.M.E. '59, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Theoretical and Experimental Study of Non-thermal Equilibrium in a Hydrogen Arc at 0.1 Bar. Major Adviser: Prof. E. R. Eckert.

Ved Parkash Gakhar, New Delhi, India

B.S. '62, Agra University (India). Field of Concentration: Mechanical Engineering. Major Adviser: Prof. J. L. Threlkeld.

David Burnelle Kittelson, Minneapolis

B.S. '64, University of Minnesota. Major: Mechanical Engineering. Minor: Physical Chemistry. Thesis: Fluorine-Perfluorocyclobutane Combustion Studies. Major Adviser: Prof. E. A. Fletcher.

Dennis Karl Kreid, Grand Meadow

B.S. with distinction '64, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Measurements of the Developing Laminar Flow in a Square Duct: An Application of the Laser-Doppler Flowmeter. Major Adviser: Prof. R. J. Goldstein.

Peter Martin Petersen, St. Louis Park

B.A.E. '60, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. H. Liu.

Avtar Singh, Ludhiana, India

B.A. '59, Government College (India). Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Experimental Determination of Thermal Conductivity of Stationary and Flowing Blood. Major Adviser: Prof. P. L. Blackshear.

Gur Dayal Singh, New Delhi, India

B.E. '61, Delhi University (India). Field of Concentration: Mechanical Engineering. Major Adviser: Prof. A. O. Lee.

Patrick Joseph Starr, St. Paul

B.M.E. '62, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. Katsuhiko Ogata.

Richard Anthony Vomela, St. Paul

B.S. with distinction '64, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: The Charging and Mobility of Chain Aggregate Smoke Particles. Major Adviser: Prof. K. T. Whitby.

Master of Science in Medicine

Francis Joseph Kazmier, Rochester

M.D. '59, Jefferson Medical College. Major: Medicine. Minor: Physiology. Thesis: Effect of Oral Anticoagulants on Factors VII, IX, X, and II. Major Adviser: Dr. J. A. Spittell, Jr.

Randolph McKellar McCloy, Memphis, Tenn.

M.D. '61, University of Tennessee. Major: Medicine. Minor: Physiology. Thesis: Plasma Volume and Renal Function in Cirrhosis: Effects of Changing Serum Albumin Concentration and Plasma Osmolality. Major Adviser: Dr. W. H. J. Summerskill.

Martin Christopher McHenry, Birmingham, Mich.

Major: Medicine. Minor: Pathology. Thesis: Necropsy Findings in Cases of Bacteremia Due to Gram-Negative Bacilli: A Comprehensive Study of Thirty-three Cases. Major Adviser: Dr. William J. Martin.

Master of Science in Metallurgical Engineering

Purushothama Rao, Bangalore, Mysore, India

B.S. '60, Central College of Bangalore; B.E. '62, Indian Institute of Science (India). Major: Metallurgical Engineering. Minor: Physics. Thesis: Superconducting Critical Temperature and Critical Field—Critical Current Density Characteristics of Some Molybdenum Carbides. Major Adviser: Prof. L. E. Toth.

Ching-Ping Wang, Szuchuan, China

B.S. '64, Cheng-Kung University (Taiwan). Major: Metallurgical Engineering. Minor: Mathematics. Thesis: Superconductivity of Non-stoichiometric Transition Metal Nitrides and Carbides. Major Adviser: Prof. L. E. Toth.

Chun Tsin Wang, Hunan, China

B.S. '48, Hunan University. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Reduction Characteristics of Some Manganese Iron Spinel. Major Adviser: Prof. Gust Bitsianes.

Chia-Ming Yen, Pu-Li, Taiwan, China

B.S.E. '57, National Taiwan University. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Superconducting Critical Magnetic Fields, Currents, Densities and Temperatures in the Ternary Nb₂-Zr₂-N System. Major Adviser: Prof. L. E. Toth.

Master of Science in Ophthalmology

Harold Davis Gambill, Rochester

M.D. '60, University of Minnesota. Major: Ophthalmology. Minor: Physiologic Optics. Thesis: Comparative Study of Four Mydriatic Drugs Using the Infrared Electronic Pupillo-graph. Major Adviser: Dr. T. P. Kearns.

Peter Frank Mastan, Los Angeles, Calif.

M.D. '62, University of Maryland. Major: Ophthalmology. Minor: Physiologic Optics. Thesis: The Penetration of 5-IODO-2' Deoxyuridine (IDU) Into the Anterior Segment of the Eye Following Transdermal Subconjunctival Injection. Major Adviser: Dr. J. W. Henderson.

Dennis MacMartin Robertson, Rochester

M.D. '60, University of Minnesota. Major: Ophthalmology. Minor: Physiologic Optics. Thesis: The Influence of Contact Lenses on Accommodation: A Theoretical and Clinical Study. Major Adviser: Dr. J. W. Henderson.

James Curtis Trautmann, Rochester

M.D. '54, University of Minnesota. Major: Ophthalmology. Minor: Physiologic Optics. Thesis: Optokinetic Nystagmus: A Study of the Velocity of the "Following" Phase of Optokinetic Nystagmus in Thirteen Normal Subjects. Major Adviser: Dr. T. P. Kearns.

Master of Science in Orthopedic Surgery

James Louis Becton, Rochester

M.D. '60, Medical College of Georgia. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Nerve Endings in the Tendons of the Hand. Major Adviser: Dr. P. R. Lipscomb.

Master of Science in Physical Medicine and Rehabilitation

Melvin J. Goldberg, Toms River, N.J.

M.D. '60, State University of New York. Major: Physical Medicine and Rehabilitation. Minor: Physiology. Thesis: Studies on the Correlation of the Oscillometric Index and the Blood Flow through the Foot. Major Adviser: Dr. W. D. Kubicek.

Master of Science in Surgery

Robert Miller Appleman, Sacramento, Calif.

M.D. '59, University of Michigan. Major: Surgery. Minor: Pathology. Thesis: The Effect of L-Phenylalanine on Certain Immunological Phenomena in Rabbits and Dogs. Major Adviser: Dr. J. T. Priestley.

Jacob Berghuis, Montclair, N.J.

M.D. '54, Northwestern University. Major: Surgery. Minor: Pathology. Thesis: The Surgical Anatomy of Congenital Mitral Insufficiency. Major Adviser: Dr. J. W. Kirklin.

Jackson Rountree Galloway, Alexandria, La.

M.D. '55, Louisiana State University. Major: Surgery. Minor: Pathology. Thesis: Adenoid Cystic Carcinoma (Cylindroma) of the Breast: A Clinico-pathologic Study. Major Adviser: Dr. O. T. Clagett.

Leonard Morris Johnson, Shethport, Pa.

M.D. '58, University of Pennsylvania. Major: Surgery. Minor: Pathology. Thesis: Carcinoma of the Thyroid in Children. Major Adviser: Dr. O. H. Beahrs.

George Pappas, Burgettstown, Pa.

M.D. '59, Jefferson Medical College. Major: Surgery. Minor: Pathology. Thesis: Role of the Gastric Antrum and the Vagus Nerves in the Inhibition of Gastric Secretion by Duodenal Acidification. Major Adviser: Dr. D. O. Ferris.

August Eugene VanWie, Grand Island, Neb.

M.D. '60, University of Nebraska, Omaha. Major: Surgery. Minor: Pathology. Thesis: Lipoma of the Stomach. Major Adviser: Dr. W. H. ReMine.

Master of Science in Urology

Philip Kearny Hacker, Stevens Point, Wis.

M.D. '61, Tulane University. Major: Urology. Minor: Pathology. Thesis: The Influence of Reunion of the Excised Ureter by Stapling on Ureteral and Renal Function. Major Adviser: Dr. D. C. Utz.

Master of Social Work

Dorothy Lurline Berger, Minneapolis

B.S. '46, M.S. '48, University of Pittsburgh.

Field of Concentration: Social Work. Major

Adviser: Prof. A. W. Oren.

Specialist in Education

Paul Arthur Borg, Hibbing

B.B.A. '53, B.S. '59, University of Minnesota.

Field of Concentration: Educational Administration. Major Adviser: Prof. C. P. Hooker.

Elizabeth Jean Hosterman,
Robbinsdale

B.S. with distinction '52, M.A. '62, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. Jan Duker.

Ann Cartwright Jaede, Minneapolis

B.S. '57, M.A. '65, University of Minnesota.

Field of Concentration: Educational Psychology. Major Adviser: Prof. Bruce Balow.

Wallace Gerald Johnson, Eau Claire,
Wis.

B.S. '52, Wisconsin State University, Eau Claire; M.A. '59, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. C. P. Hooker.

Doctor of Philosophy

Melvin Kenneth Abelseth, Willowdale,
Ontario, Canada

D.V.M. '49, D.V.P.H. '50, University of Toronto. Major: Microbiology. Minor: Public Health. Thesis: The Growth of Rabies Virus in Tissue Culture and Its Use as a Living Attenuated Vaccine for Domestic Animals. Major Adviser: Prof. D. W. Watson.

Omar Agundis, Parras, Coahuila,
Mexico

Agronomist '58, University of Coahuila, Mexico; M.S. '60, Ohio State University. Major: Agronomy. Minor: Agricultural Plant Physiology. Thesis: Some Factors that Influence the Deactivation of Atrazine in the Soil. Major Adviser: Prof. Richard Behrens.

Nancy Newman Anderson, Kalamazoo,
Mich.

B.A. with high honors '63, Ohio Wesleyan University; M.A. '64, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Prisoners' Families: A Study of Family Crisis. Major Adviser: Prof. A. M. Rose.

Gary Thomas Athelstan, Minneapolis

B.A. '60, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Exploratory Investigation of Response Patterns Associated with Low Profiles on the Strong Vocational Interest Blank for Men. Major Adviser: Prof. L. H. Lofquist.

Robert John Baker, Pierceland,
Canada

B.S.A. with distinction '61, M.Sc. '62, University of Saskatchewan. Major: Genetics. Minor: Statistics. Thesis: Predicted Variance of Response to Selection. Major Adviser: Prof. R. E. Comstock.

Susan Baker, Winsted, Conn.

B.A. '61, Radcliffe College. Major: English. Minor: Latin. Thesis: The Crowned Knot of Fire: A Study of the Influence of Medieval Symbolism of Modern Poetry. Major Adviser: Prof. Allen Tate.

Mary Osborn Blomquist, Dexter, Iowa

B.S. '58, Iowa State University; M.S. '60, University of Minnesota. Major: Statistics. Minor: Home Economics. Thesis: Rank Analysis of Complete Block Factorial Designs. Major Adviser: Prof. C. E. Gates.

Kenneth Edward Bohnenblust,
Leonardville, Kan.

B.S. '59, Kansas State University; M.S. '61, University of Wyoming. Major: Plant Pathology. Minor: Genetics. Thesis: Growth and Survival of the Pathogen Causing Russet Scab of Potatoes. Major Adviser: Prof. C. J. Eide.

LeRoy Thomas Boyer, Ada

B.S. '60, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Stiffness Matrix Analysis of a Framed Dome. Major Adviser: Prof. W. T. Graves.

John Michael Braasch, Minneapolis

B.S. with distinction '60, M.S.I.E. '63, University of Minnesota. Major: Business Administration. Minors: Statistics and Industrial Engineering. Thesis: Business Games, Programmed Players, and Individual Decision-Making Profiles. Major Adviser: Prof. N. A. Glaskowsky, Jr.

**Chari Herendeen Briggs, Mt. Morris,
N.Y.**

B.A. *cum laude* '60, William Smith College; M.A.T. '61, Johns Hopkins University. Major: Educational Psychology. Minor: Child Psychology. Thesis: An Experimental Study of Reflection-Impulsivity in Children. Major Adviser: Prof. J. D. Duker.

David Michael Brudnoy, Minneapolis

B.S. '61, Bar-Ilan University, Israel. Major: Physics. Minor: Mathematics. Thesis: A Study of the Baryon Resonances. Major Adviser: Prof. S. G. Gasiorowicz.

**James Edward Bursu, Columbus,
Ohio**

B.Sc. '62, Ohio State University. Major: Organic Chemistry. Minor: Chemistry. Thesis: Synthesis and Rearrangement of 2-methyl-4-phenylthietane 1-Oxide and 1,1-Dioxide. Major Adviser: Prof. R. M. Dodson.

**Morris Paton Burkwall, Jr., Beaumont,
Tex.**

B.S. '61, Florida State University; M.S. '63, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Glycerol Ester Hydrolases of Wheat. Major Adviser: Prof. R. L. Glass.

**Leonard Francis Burlaga, Superior,
Wis.**

B.S. '60, University of Chicago; M.S. '62, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Anisotropic Diffusion of Solar Cosmic Rays. Major Adviser: Prof. W. R. Webber.

**Dean Tin Chen, Taipei, Taiwan,
Republic of China**

B.S. '56, Taiwan National University; M.S. '60, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of Inter-Community Expenditure Differentials in the Provision of Public Services to Rural Communities of Southwestern Minnesota. Major Adviser: Prof. P. M. Raup.

Ta-Shen Chen, Lung-Ching, Formosa

B.S. '54, National Taiwan University; M.S. '61, Kansas State University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Hydrodynamic Stability of Developing Flow in a Parallel-Plate Channel. Major Adviser: Prof. E. M. Sparrow.

Shiau-Yen Chiu, Pasadena, Calif.

B.M. '62, National Taiwan University. Major: Microbiology. Minor: Biochemistry. Thesis: Antigenic Analysis of Cultivated Mammalian Cells. Major Adviser: Prof. K. G. Brand.

**Shu-Tung Chu, Huang-Mei, Hu-Pei,
China**

B.S. '56, National Taiwan University; M.S. '61, University of Minnesota. Major: Agricultural Engineering. Minor: Mathematics. Thesis: A Theoretical and Experimental Study of the Effect of Size and Shape of Kernels on the Drying Rate of Shelled Corn. Major Adviser: Prof. Andrew Hustrulid.

Harold Arthur Cloud, St. Paul

B.S. '49, M.S. '50, University of Minnesota. Major: Agricultural Engineering. Minor: Mathematics. Thesis: An Analysis of the Effect of Load Distribution on the Strength Test of Small-Size Non-Reinforced Concrete Tile. Major Adviser: Prof. Andrew Hustrulid.

**William Duncan Copeland, Polson,
Mont.**

B.A. '56, Carleton College. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Defect Structure of Strontium Oxide. Major Adviser: Prof. R. A. Swalin.

Eugene Albert Cornelius, Minneapolis

M.D. '52, University of Toronto; M.S. '56, University of Minnesota. Major: Physiology. Minor: Microbiology and Physical Chemistry. Thesis: Parabiosis Intoxication. Major Adviser: Prof. Carlos Martinez.

Damodar Ramchandra Deshmukh,
Bombay, India

B.V.Sc. '59, University of Jabalpur; M.S. '64, University of Minnesota. Major: Veterinary Bacteriology. Minor: Medical Pathology. Thesis: Characterization and Classification of Newly Isolated Avian Enteric Viruses. Major Adviser: Prof. B. S. Pomeroy.

Pieter Daniël deWet, Pretoria, Transvaal, Republic of South Africa

B.V.Sc. '53, University of Pretoria, Republic of South Africa. Major: Veterinary Anatomy. Minor: Zoology. Thesis: Anatomical and Physiological Investigations of the Avian Respiratory Muscles. Major Adviser: Prof. A. F. Weber.

Nester Dickie, Edmonton, Alberta, Canada

B.S. '50, M.A. '54, University of Alberta. Major: Agricultural Biochemistry. Minor: Bacteriology. Thesis: Studies on the Proteolytic Enzymes of *Tetrahymena pyriformis* W. Major Adviser: Prof. I. E. Liener.

Donilo Drobac, Milwaukee, Wis.

B.A. '57, University of Wisconsin; M.A. '62, University of Minnesota. Major: Sociology. Minor: Industrial Relations. Thesis: Some Factors in Trade Union Identification. Major Adviser: Prof. A. M. Rose.

Thomas Gary Dzubay, Minneapolis

B.S. '61, M.S. '63, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Study of Cross Section Fluctuations for Li^9 Bombardment of C^{12} . Major Adviser: Prof. J. M. Blair.

James Milton Eakman, Bloomington

B.S. '60, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Models for the Dynamics and Statistics of Microbial Populations. Major Advisers: Profs. H. M. Tsuchiya and A. G. Fredrickson.

Robert William Erickson, Plummer

B.S. '58, M.S. '63, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: The Effect of Prefreezing Upon the Drying Behavior of Redwood. Major Adviser: Prof. R. L. Hossfeld.

Patricia Spencer Faunce, Minneapolis

B.A. '59, M.A. '61, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Personality Characteristics and Vocational Interests Related to the College Persistence of Academically Gifted Women. Major Adviser: Prof. R. F. Berdie.

Mary Elizabeth Feniak, Winnipeg, Manitoba, Canada

B.S. '41, University of Manitoba; M.S. '43, University of Minnesota. Major: Home Economics. Minor: Agricultural Biochemistry. Thesis: A Dietary Study of a Group of Rural Manitoba Families. Major Adviser: Prof. I. T. Noble.

James Clayton Gay, Morris

B.S. with distinction '60, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Formation and Decomposition of Gamma-Hematite. Major Adviser: Prof. Gust Bitsianes.

Ralph Edson Giles, Avenel, N.J.

B.S. *cum laude* '62, Fordham University. Major: Pharmacology. Minor: Physiological Chemistry. Thesis: Adrenergic Receptor Affinities and Pharmacologic Properties of Various Inhibitors of Catechol-o-methyl Transferase. Major Adviser: Prof. J. W. Miller.

Frederick Carl Gillett, Minneapolis

B.Phys. with distinction '60, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Zodiacal Light and Interplanetary Dust. Major Adviser: Prof. E. P. Ney.

Donald Floyd Gleason, Litchfield

B.A. *magna cum laude* '42, M.D. '45, University of Minnesota. Major: Pathology. Minor: Hematology. Thesis: Correlation of the Masses of the Separated Ventricles of the Human Heart with Disease States and the Electrocardiographic Findings During Life. Major Adviser: Prof. J. R. Dawson.

Arnold Joseph Goldberg, Jersey City, N.J.

B.A. '61, Columbia College; B.S. '62, Columbia Engineering School. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Theory of Structured Continua. Major Adviser: Prof. L. E. Scriven.

Michael Lawrence Gross, Preston

B.A. '62, St. John's University. Major: Organic Chemistry. Minors: Physical and Analytical Chemistry. Thesis: Reactivity of Electron-Rich Aromatics. Major Adviser: Prof. E. A. Hill.

Edward Eric Hakanson, Seattle, Wash.

B.A. '54, Pacific Lutheran University; M.A. '64, University of Washington. Major: Education. Minor: Educational Administration. Thesis: The Relationship Between Selected Visual and Auditory Perception Capacities and Spelling Capability as Measured by Tests Requiring Spelling Recognition and Spelling Recall. Major Adviser: Prof. G. L. Bond.

Marjorie Mabel Hamlin, Roseville

B.S. '37, University of Minnesota; M.B.A. '50, University of Chicago. Major: Education. Minor: Business Administration. Thesis: Relationships Between Organizational Climates of Elementary Schools and the Degree of Job Satisfaction of Teachers in the Schools. Major Adviser: Prof. O. E. Domian.

John Kenneth Hammes, Salt Lake City, Utah

B.A. '56, University of Missouri; M.S. '61, University of Minnesota. Major: Mineral Engineering. Minor: Business Administration. Thesis: An Analysis of Technological and Economic Factors Affecting the Future Production of Minnesota Magnetic Taconites. Major Adviser: Prof. E. P. Pfeiderer.

Brian Kanne Hansen, Santa Barbara, Calif.

B.A. highest honors '60, University of California; M.A. '61, Cornell University. Major: Speech and Theatre Arts. Supporting Program: Dramatic Literature. Thesis: The Semantic Differential as a Measure. Major Adviser: Prof. A. H. Ballet.

David Albin Hansen, Philadelphia, Pa.

B.A. '52, Swarthmore College; M.A. '57, Cornell University. Major: English. Minor: History. Thesis: English Criticism of Prose Style: 1698-1752. Major Adviser: Prof. S. H. Monk.

Judson Alvin Harmon, St. Paul

B.A. '56, Carleton College; M.A. '64, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Familiarization With a Novel Type of Examination Item and Belief and Attitude Stability as Measured by the Semantic Differential Technique. Major Adviser: Prof. E. P. Torrance.

Frederick George Heineken, Wilmette, Ill.

B.S.Ch.E. '62, Northwestern University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Mathematical Aspects of Enzyme Kinetics. Major Adviser: Prof. R. B. Aris.

Thomas Ranger Holman, Westby, Wis.

B.S. '59, University of Wisconsin. Major: Psychology. Minor: Child Psychology. Thesis: A Factor Analytic Study of the M-B History Record. Major Adviser: Prof. P. F. Briggs.

Beulah M. Holmes, Caldwell, Idaho

B.S. '61, M.S. '63, University of Washington. Major: Microbiology. Minor: Biochemistry. Thesis: Studies on the Metabolic Activity of Leucocytes From Patients with a Genetic Abnormality of Phagocytic Function. Major Adviser: Dr. R. A. Good.

Orley Iver Holtan, Minneapolis

B.A. '54, St. Olaf College; M.A. '60, University of North Dakota. Major: Theatre. Minor: Scandinavian. Thesis: Ibsen's New Mythology: A Critical Re-evaluation of His Last Eight Plays. Major Adviser: Prof. K. L. Graham.

Frances Irene Huotari, Geyser, Mont.

B.S. '60, M.S. '62, Montana State College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: An Exo- β -(\rightarrow 3)-Glucanase From *Basidiomycete* QM 806. Major Adviser: Prof. Samuel Kirkwood.

Louis Joseph Ignarro, Long Beach, N.Y.

B.S. '62, Columbia University. Major: Pharmacology. Minor: Physiology. Thesis: Catecholamines and the Enzymes Involved in Their Synthesis and Metabolism in the Embryonic and Developing Chick. Major Adviser: Prof. F. E. Shideman.

Robert McCardle Irving, Waterloo, Ontario, Canada

B.A. '52, M.A. '56, University of Toronto. Major: Geography. Minor: Soil Science. Thesis: Amenity Agriculture in the Minneapolis-St. Paul Metropolitan Area (TCMA). Major Adviser: Prof. E. C. Mather.

Donald David Island, Beaverton, Ore.

B.S. '57, Portland State College; M.A. '64, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Development and Analysis of Categories of Nonverbal Behavior of Counselors in Filmed Interviews. Major Adviser: Prof. D. H. Blocher.

Cynthia Graham Jensen, Montgomery, Ala.

B.A. '60, Brown University. Major: Zoology. Minor: Microbiology. Thesis: Interrelationships of the Early Avian Embryo with the Vitelline Membrane and Other Substrata: An Electron Microscope Study. Major Adviser: Prof. N. T. Spratt, Jr.

Lawrence Craig Winston Jensen, New York, N.Y.

B.A. '60, Brown University; M.S. '62, University of Minnesota. Major: Botany. Minor: Zoology. Thesis: Comparative Anatomical Studies in Three Subfamilies of the Crasulaceae. Major Adviser: Prof. Thomas Morley.

Lyle Keith Johnson, Minneapolis

B.S. cum laude '50, University of Wisconsin; M.S. '55, Springfield College. Major: Educational Psychology. Minor: Social Work. Thesis: The Effect of Trainer Interventions on Change in Personal Functioning Through T Group Training. Major Adviser: Prof. E. P. Torrance.

Richard Arnold Johnson, St. Paul

B.E.E. '60, M.S. '62, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Asymptotic Expansions Associated with the n -th Power of a Density. Major Adviser: Prof. R. J. Buehler.

Bobbie Lee Keeling, Bokchito, Okla.

B.S. '56, Southeastern State College; M.S. '59, Oklahoma State University. Major: Plant Pathology. Minor: Plant Breeding and Genetics. Thesis: Studies on the Nature of Barley Resistance to *Helminthosporium Teres*. Major Adviser: Prof. M. F. Kernkamp.

William Christian Krueger, Waseca

B.A. '58, Mankato State College; M.S. '65, University of Minnesota. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Attenuated Total Reflection of Liquid Mixtures. Major Adviser: Prof. B. L. Crawford, Jr.

Patricia Aletha Lane, Edmonton, Alberta, Canada

B.Ed. '60, University of Saskatchewan; M.A. '63, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Preparation of First Year Elementary Teachers for Teaching English and Children's Literature. Major Adviser: Prof. R. N. Odland.

Kenneth Thomas Leath, Providence, R.I.

B.S. '59, University of Rhode Island. Major: Plant Pathology. Minor: Entomology. Thesis: The Resistance of *Zea Mays* to *Puccinia graminis*. Major Adviser: Prof. J. B. Rowell.

Harold William Linder, Kirksville, Mo.

B.S. '58, Massachusetts Institute of Technology. Major: Geology. Minor: Mineral Engineering. Thesis: The Origin of Copper-Nickel Mineralization in Gabbroic Rocks of the Northern Labrador Trough. Major Adviser: Prof. P. K. Sims.

Dan Luss, Tel-Aviv, Israel

B.Sc. '60, M.Sc. '63, Technion (Israel). Major: Chemical Engineering. Minor: Mathematics. Thesis: Two Phase Reactors Studies. Major Adviser: Prof. N. R. Amundson.

James Joseph Lynskey, Atlantic City, N.J.

B.S. '56, University of Maryland; M.A. '60, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Role of British Backbenchers in the Modification of Government Policy: The Issues Involved, the Channels Utilized and the Tactics Employed. Major Adviser: Prof. J. E. Turner.

Neil William Macdonald, Fredericton, New Brunswick, Canada

B.A. with honors '58, University of British Columbia; M.A. '60, University of Oregon. Major: Journalism. Minor: Psychology. Thesis: Television Drama Preference Choice. Major Adviser: Prof. R. L. Jones.

Deane Monroe Manbeck, Little Falls

B.Ag.E. '54, M.S. '59, University of Minnesota. Major: Agricultural Engineering. Minor: Mathematics. Thesis: The Influence of Some Split-Bed Roughness Combinations on Turbulent Open-Channel Flow. Major Advisers: Profs. Andrew Hustrulid and A. G. Anderson.

Edwin Mark Masters, Philadelphia, Pa.

B.A. '52, Harvard College; M.A. '55, Indiana University. Major: Anatomy. Minor: Bacteriology. Thesis: Reactions of the Brain to Auto-genous Lymphoid Grafts. Major Adviser: Dr. R. A. Good.

Alexander Frederick McCalla, Edmonton, Alberta, Canada

B.Sc. '61, M.A. '63, University of Alberta. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of the Possibilities for International Arrangements for Temperate Zone Grain-Livestock Trade. Major Adviser: Prof. E. W. Learn.

Fred Charles McCormick, Minneapolis

B.S. '54, with distinction, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Relation of Individual and Institutional Characteristics to Students' Personality Needs at Saint Louis University. Major Advisers: Profs. R. J. Keller and R. E. Eckert.

Robert Arthur Megraw, Rochester

B.S. '62, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: A Hydrodynamic Particulate Approach to Pit Membrane Pore Size. Major Adviser: Prof. R. L. Hossfeld.

James Bernard Mehl, Breckenridge

B.Phys. '61, M.S. '64, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Gyroscopic Detection of Persistent Flow of Superfluid Helium and Associated Studies. Major Adviser: Prof. William Zimmermann, Jr.

James Rae Melvin, Pierson, Manitoba, Canada

B.Sc. '59, University of Manitoba; M.A. '63, University of Alberta. Major: Economics. Minor: Mathematics. Thesis: Intermediate Goods and International Trade Theory. Major Adviser: Prof. J. S. Chipman.

Kenneth Earl Michel, Ingleside, Ill.

B.S. '51, M.S. '52, Northern Illinois University. Major: Genetics. Minor: Botany. Thesis: A Study of the Interrelated Behavior of Non-homologous Chromosomes in Maize. Major Adviser: Prof. C. R. Burnham.

Robert Arthur Mittelstaedt, Vermillion, S.D.

B.S. '58, University of South Dakota; M.A. '60, University of Arizona. Major: Business Administration. Minor: Psychology. Thesis: An Experimental Study of Consumer Brand Loyalty. Major Adviser: Prof. R. S. Hancock.

Aaron Nathan Moen, Kensington

B.S. '58, Gustavus Adolphus; M.S. '63, St. Cloud State College. Major: Fisheries and Wildlife. Minor: Botany. Thesis: Factors Affecting the Energy Exchange and Movements of White-Tailed Deer, Western Minnesota. Major Adviser: Prof. W. H. Marshall.

Roger Kenneth Mosvick, Minot, N.D.

B.A. '52, Macalester College; M.A. '59, University of Minnesota. Major: Speech. Minor: Sociology. Thesis: An Experimental Evaluation of the Relative Effectiveness of Two Modes of Motive Analysis Instruction in an Industrial Setting: A Study in Method. Major Adviser: Prof. W. S. Howell.

Julian Edward Mott, Knoxville, Tenn.

B.S. '56, University of Tennessee. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Stability of Viscous Parallel Flows in Annular Channels. Major Adviser: Prof. D. D. Joseph.

Clayton Bernard Murray, Hibbing

B.S. '60, M.S. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Secondary Emission Noise. Major Adviser: Prof. Aldert van der Ziel.

Jan Arwood Northby, Storrs, Conn.

B.S. '59, Massachusetts Institute of Technology; M.S. '62, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Photo-Ejection of Electrons from Bubble States in Liquid Helium II. Major Adviser: Prof. William Zimmermann, Jr.

Richard Harold Northrup, Midland, Mich.

B.A. '52, Alma College; M.S. '59, Michigan State University. Major: Genetics. Minor: Botany. Thesis: A Study of Chromosome Behavior in Interchange Heterozygotes: The Effect of Inversions and Other Factors on the Frequency of Alternate Segregation of the Chromosomes in *Zea mays* L. Major Adviser: Prof. C. R. Burnham.

Dale William Olsen, Duluth

B.A. '54, University of Minnesota, Duluth; M.A.P.A. '55, University of Minnesota. Major: Political Science. Minor: Business Administration. Thesis: The Minnesota Department of Business Development: An Administrative History. Major Adviser: Prof. G. A. Warp.

Charles Arthur Peterson, Puyallup,
Wash.

B.S. '51, Kansas State Teachers College; M.S. '52, University of Tennessee. Major: Education. Minor: Business Administration. Thesis: The Prediction of Students' Success in College Accounting. Major Adviser: Prof. R. G. Price.

Richard Lee Peterson, Chisholm

B.S. '59, Hamline University; M.A. '61, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Experimental Study of the Effects of Ability Grouping in Grades Seven and Eight. Major Adviser: Prof. C. P. Hooker.

Judith Phillips, Phoenix, Ariz.

B.A. '60, Stanford University; M.A. '64, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Performance of Father-Present and Father-Absent Southern Negro Boys on a Simple Operant Task as a Function of the Race and Sex of the Experimenter and the Type of Social Reinforcement. Major Adviser: Prof. J. C. Wright.

Ronald Lewis Phillips, Crawfordsville,
Ind.

B.S. '61, M.S. '62, Purdue University. Major: Genetics. Minor: Supporting Program. Thesis: Cytogenetic Studies of Recombination in Reciprocal Crosses and the Location of Genes in *Zea Mays* L. Major Adviser: Prof. C. R. Burnham.

James Faulkner Preston III, Chagrin
Falls, Ohio

B.A. '61, Colgate University; M.S. '64, Ohio State University. Major: Agricultural Biochemistry. Minor: Microbiology. Thesis: Chemical, Immunological and Metabolic Studies on the Extra-cellular Polysaccharides of *Penicillium Charlesii* G. Smith. Major Adviser: Prof. J. E. Gander.

Alvin Harold Price, Salt Lake City,
Utah

B.S. '60, Brigham Young University; M.A. '63, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Effects of Subject Response Made and Peer Social Reinforcement on Children's Learning in Programmed Instruction. Major Adviser: Prof. Bjorn Karlsen.

James Darrell Punch, Conover, N.C.

B.S. '59, North Carolina State College; M.S. '63, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: The Production and Composition of the Slime of *Alcaligenes Viscolactis*. Major Adviser: Prof. J. C. Olson.

Donald Walter Robertson, St. Paul

B.S. '56, University of Minnesota, Duluth. Major: Anatomy. Minor: Zoology. Thesis: The Uptake of Radioactive Compounds During Development of the Mouse. Major Adviser: Prof. Morris Smithberg.

Enrique Alfredo Roldan, Quito,
Ecuador

B.A. '57, University of Ecuador; M.A. '60, University of Minnesota. Major: Economics. Minor: Sociology. Thesis: Education and Income Distribution: An Empirical Study. Major Adviser: Prof. J. S. Chipman.

Leslie Brennan Rout, Jr., Chicago, Ill.

B.S. '57, M.A. '61, Loyola University. Major: History. Minor: Political Science. Thesis: The Chaco War: A Study in Inter-American Diplomacy. Major Adviser: Prof. W. D. Beatty.

Eugene Eino Saari, Wawina

B.S. '59, M.S. '62, University of Minnesota. Major: Plant Pathology. Minor: Supporting Program. Thesis: Susceptibility of North American *Thalictrum* ssp. to Infection by *Puccinia recondita* f. sp. *tritici*. Major Adviser: Prof. M. F. Kernkamp.

Ellis Henry Sage, San Diego, Calif.

B.A. '59, California Western University; B.D. '62, California Baptist Theological Seminary. Major: Psychology. Minor: Educational Psychology. Thesis: The Development of Age Difference Scales by Sex from Item Response Change Between the Ninth Grade and Entrance into College on the Minnesota Counseling Inventory. Major Adviser: Prof. R. G. Warnken.

Stanley Irving Sandler, New York,
N.Y.

B.Ch.E. cum laude '62, City College of New York. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Transport Properties of Polyatomic Fluids. Major Adviser: Prof. J. S. Dahler.

David Bruce Sanford, Minneapolis

B.S. with distinction '59, University of Minnesota. Major: German. Minor: Art History. Thesis: Wackenroder and Tieck: The Aesthetic Breakdown of the Klosterbruder Ideal. Major Adviser: Prof. F. H. Wood.

**Vicente Lapid Saplala, Pampanga,
Philippines**

B.Sc. Agriculture '54, University of the Philippines; M.S. '64, University of Minnesota. Major: Entomology. Minor: Plant Pathology. Thesis: The Influence of Seasonal DDT Applications Upon Arthropod Populations in Jack Pine Stands. Major Adviser: Prof. A. C. Hodson.

Karl Albert Schleunes, Kiel, Wis.

B.A. *summa cum laude* '59, Lakeland College; M.A. '61, University of Minnesota. Major: History. Minor: Political Science. Thesis: Nazi Policy Toward German Jews, 1933-1938. Major Adviser: Prof. H. C. Deutsch.

**Peter Joseph Schmitt, Kalamazoo,
Mich.**

B.A. *cum laude* '58, University of Minnesota; M.A. '59, M.A. '60, State University of Iowa. Major: American Studies. Thesis: Call of the Wild: The Arcadian Myth in Urban America, 1900-1930. Major Adviser: Prof. B. R. Bowron, Jr.

William Jean Schrankler, St. Paul

B.S. '54, M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Effectiveness of Four Methods for Teaching Multiplication of Whole Numbers in Grade Four. Major Adviser: Prof. T. W. Clymer.

**Raymond Smith Schuneman, Minne-
apolis**

B.F.A. with honors '58, M.F.A. '60, Ohio University. Major: Journalism. Minor: Speech and Theatre Arts. Thesis: The Photograph in Print: An Examination of New York Daily Newspapers. Major Adviser: Prof. Edwin Emery.

Jean Thurber Sells, Kingsville, Tex.

B.A. '61, Nebraska Wesleyan University; M.A. '63, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Integration on Certain Spaces of Continuous Functions. Major Adviser: Prof. R. H. Cameron.

**Donald Gray Shamblin, Redlands,
Calif.**

B.A. '52, Marshall University; M.A. '57, Universidad Nacional Autonoma de Mexico. Major: Spanish. Minor: Linguistics. Thesis: Erotic Frustration and Its Causes in the Drama of Federico Garcia Lorca. Major Adviser: Prof. W. T. Pattison.

**Aida El Attafi Sinbel, Alexandria,
Egypt**

B.S. '56, University of Alexandria; Diploma Medical Physics '61, University of Bristol. Major: Biophysics. Minor: Physics. Thesis: In Vivo and in Vitro Measurement of the Impedance and Phase Characteristics of Human Tissues by Mutual Impedance Methods. Major Adviser: Prof. O. H. Schmitt.

Norman Elmer Sladek, Montgomery

B.S. '62, University of Minnesota. Major: Pharmacology. Minor: Biochemistry. Thesis: Studies on the Stimulation of Drug Metabolism by Phenobarbital and Polycyclic Hydrocarbons. Major Adviser: Prof. G. J. Mannering.

Talivaldis Ivars Smits, Riga, Latvia

B.S. with distinction '58, M.S.E.E. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Non-gaussian Response Statistics and System Reliability Under Wearout and Overload Failure. Major Adviser: Prof. R. F. Lambert.

David C. Speer, Minneapolis

B.A. '59, M.A. '61, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: Concurrent Schedules of Reinforcement, Social Reinforcement, and Dependent Behavior Among Four Year Old Children. Major Adviser: Prof. P. F. Briggs.

Richard Jon Sperley, Staples

B.A. '61, Concordia College. Major: Organic Chemistry. Minor: Pharmaceutical Chemistry. Thesis: The Preparation and Reactions of 1-Ethoxy-13, 13-Dichlorobicyclo-[10, 1, 0]-Tridecane and 13, 13-Dichlorobicyclo-[10, 1, 0]-Tridecane. Major Adviser: Prof. W. E. Parham.

George Robert Spratto, Marion, Conn.

B.S. '61, Fordham University. Major: Pharmacology. Minor: Physiology. Thesis: An Investigation of the Effect of Estrogens on the Catecholamine Content and Contraction Rate of the Rat Uterus. Major Adviser: Prof. J. W. Miller.

Brother Robert Staub, Memphis,
Tenn.

B.S. *cum laude* '43, St. Mary's College; M.A. '49, University of Minnesota. Major: Botany. Minor: Zoology. Thesis: Some Variations in Fruit, Seed, and Seedling Characteristics in the American Elm, *Ulmus Americana* L., in Relation to Geography of Seed Source. Major Adviser: Prof. D. B. Lawrence.

Gary Rice Stringam, Rosemary, Al-
berta, Canada

B.S. '61, Brigham Young University; M.S. '65, University of Minnesota. Major: Genetics. Minor: Supporting Program. Thesis: Cytogenetic Studies of Chromosome 2 in the Tomato, *Lycopersicon Esculentum* Mill. Major Adviser: Prof. C. R. Burnham.

Stanley Russell Strong, Missoula,
Mont.

B.A. '61, Montana State University. Major: Psychology. Minor: Educational Psychology. Thesis: Role Definition and Performance Appraisal in Management. Major Adviser: Prof. L. H. Lofquist.

Joseph Thomas Sullivan, Albia, Iowa

B.S.Ch.E. '62, Iowa State University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Transport Phenomena in Liquid Crystals. Major Adviser: Prof. A. G. Fredrickson.

Beth Sulzer, Carbondale, Ill.

B.S. '50, M.A. '53, City College of New York. Major: Educational Psychology. Minor: Psychology. Thesis: Match to Sample Performance by Normals and Institutionalized Retardates under Different Reinforcing Conditions. Major Adviser: Prof. J. D. Duker.

William Clarke Summers, Minne-
apolis

B.M.E. with distinction '59, University of Minnesota. Major: Zoology. Minor: Industrial Engineering. Thesis: Quantitative Measurements of Snail Feeding at the Water Surface. Major Adviser: Prof. N. S. Kerr.

Gerald William Thielbar, Seattle,
Wash.

B.A. *cum laude* '61, Seattle-Pacific College; M.A. '63, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: Localism-Cosmopolitanism: Social Differentiation in Mass Society. Major Adviser: Prof. G. P. Stone.

Jon Wright Tolle, Mattoon, Ill.

B.A. '61, DePauw University. Major: Mathematics. Minor: Physics. Thesis: Analytic Canonical Forms for Nonlinear Difference Equations. Major Adviser: Prof. W. A. Harris, Jr.

Robert William Vanasse, Columbus,
Ohio

B.B.A. '57, M.B.A. '58, University of Minnesota. Major: Business Administration. Minor: Law. Thesis: Transaction Analysis and the Law. Major Adviser: Prof. R. G. Berryman.

Gustaaf Victor Van Cromphout,
Erembodegem, Belgium

Cand. '57, Lic. '59, Ghent State University, Belgium. Major: English. Minor: French. Thesis: Emerson's *Eroica*: A Study of His Idea of Greatness. Major Adviser: Prof. C. H. Foster.

Edward Albert Walters, Whitefish,
Mont.

B.S. '62, Pacific Lutheran University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Mechanism of the Facile Isotopic Exchange between an Organomercuric Halide and Elemental Mercury. Major Adviser: Prof. M. M. Kreevoy.

Chanoch Weil, Tel-Aviv, Israel

M.Sc. '62, Hebrew University of Jerusalem. Major: Physics. Minor: Mathematics. Thesis: A Study of Low Energy Interactions in the Kaon Nucleon System. Major Adviser: Prof. Stephen Gasiorowicz.

Arnold Robert Wells, Clinton

B.S. with distinction '60, M.S. '62, University of Minnesota. Major: Agricultural Economics. Minor: Supporting Program. Thesis: The Economics of Beef Cow Herds in Northeastern Minnesota. Major Adviser: Prof. T. R. Nodland.

Stephen Carr Whitmore, Minneapolis

B.A. '54, Amherst College. Major: Physics. Minor: Mathematics. Thesis: Observation of Quantized Circulation in Superfluid Helium. Major Adviser: Prof. William Zimmermann, Jr.

Glayde Dennis Whitney, St. Paul

B.A. '61, University of Minnesota. Major: Psychology. Minor: Genetics. Thesis: The Genetics and Interrelationship of Alcohol Preference and Various Indicators of Emotionality in *Mus musculus*¹. Major Adviser: Prof. D. T. Lykken.

Jack Richard Williams, Minneapolis
B.A. '47, B.S. with distinction '61, M.S.E.E. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Contributions to the Theory of Wave Propagation in Periodic Structures. Major Adviser: Prof. R. F. Lambert.

William Richard Wimsatt, Hampton, Va.

B.A. *cum laude* '58, University of Miami. Major: Psychology. Minor: Philosophy. Thesis: The Effect of Sensory-motor Training on the Learning Abilities of Grade School Children. Major Adviser: Prof. W. A. Russell.

Ji-Wu Yang, Taiwan, China

B.S. '57, National Taiwan University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A New Method of Measuring the Mass Diffusion Coefficient and Thermal Diffusion Factor in a Binary Gas System. Major Advisers: Profs. W. E. Ibele and E. R. G. Eckert.

Walid Gabriel Yasmineh, Minneapolis

B.S. '53, American University at Cairo; M.S. '63, University of Minnesota. Major: Biochemistry. Minor: Microbiology. Thesis: On the Mechanism of Action of the Nucleases of Group A Streptococci. Major Adviser: Prof. E. D. Gray.

Richard Stallard Ylvisaker, Decorah, Iowa

B.A. '50, Luther College; M.A. '58, University of Minnesota. Major: Philosophy. Minor: Political Science. Thesis: Pure Reason: A Study of the Foundations of the Metaphysics of F. H. Bradley. Major Adviser: Prof. D. B. Terrell.

Henry Masahiro Yoshihara, Compton, Calif.

B.A. '61, University of Hawaii. Major: Anatomy. Minor: Microbiology. Thesis: The Effect of 5-fluorouracil on the Development of Embryonic Tail Vertebrae of Mice in Organ Culture. Major Adviser: Prof. Morris Smithberg.

Bing-lin Young, Honah, Republic of China

B.S. '59, National Taiwan University. Major: Physics. Minor: Mathematics. Thesis: Rare Decay Modes of N-Meson. Major Adviser: Prof. D. A. Geffen.

Sheng-Hsu Zee, Taipei, Republic of China

B.S. '52, Ordnance Engineering School, M.S. '64, University of Minnesota. Major: Organic Chemistry. Minor: Chemistry. Thesis: Reactions of Indoles with Pyruvic Acid and its Ethyl Ester. Major Adviser: Prof. W. E. Noland.

Doctor of Philosophy in Medicine

Philip Walling Brown, Jr., Rochester

B.A. '50, Dartmouth College; M.D. '53, University of Pennsylvania (Philadelphia). Major: Medicine. Minor: Physiology. Thesis: The Relationship of Polydipsia to Diabetes Insipidus. Major Adviser: Prof. J. L. Bollman.

Doctor of Philosophy in Surgery

Aydin Mehmet Bilgutay, Istanbul, Turkey

M.D. '58, University of Istanbul. Major: Surgery. Minor: Physiology. Thesis: Baropacing and Vagal Tuning Concepts Utilizing Electronic Stimulation in the Treatment of Certain Cardiovascular Disorders. Major Adviser: Dr. C. W. Lillehei.

Henry Buchwald, Minneapolis

B.A. *summa cum laude* '54, M.D. '57, Columbia College. Major: Surgery. Minor: Biochemistry. Thesis: The Development of the Subtotal Ileal Bypass Operation for the Treatment of Hypercholesterolemia and Atherosclerosis. Major Adviser: Dr. O. H. Wangensteen.

John P. Delaney, St. Paul

B.S. '53, M.D. '55, Ph.D. '63, University of Minnesota. Major: Surgery. Minor: Physiology. Thesis: Arteriovenous Anastomoses in the Mesenteric Organs of the Dog. Major Adviser: Dr. O. H. Wangenstein.

John Bentley Lunseth, St. Paul

B.S. '52, University of North Dakota; M.D. '54, Harvard Medical School. Major: Surgery. Minor: Physiological Chemistry. Thesis: Isolation of Pepsin from Human Gastric Juice: Gross Preparatory Techniques. Major Adviser: Dr. O. H. Wangenstein.

James Clarence Pierce, Huron, S.D.

B.A. '51, Carleton College; M.D. '55, Harvard Medical School; M.S. '63, University of Minnesota. Major: Surgery. Minor: Biochemistry. Thesis: The Modification of Certain Biological Factors in the Rejection of Canine Renal Allografts by 6-Mercaptopurine. Major Adviser: Dr. R. L. Varco.

Academic Costume

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

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

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

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

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

(In the order of march)

General College	crimson and white
College of Liberal Arts	white
University College	old gold and white

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

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

President's Reception

DECEMBER, 1966

- 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. Wilson; Monsignor Murphy; Mr. Haislet, Mr. James Nathanson, Vice President, Minnesota Student Association; Mr. Justin McCarthy, Secretary-Treasurer, Coffman Union Board of Governors.
- Members of the Men's Glee Club, under the direction of Mr. Jerome S. Kleinsasser, M.A., Department of Music, will present Christmas carols during the Reception.
- Assisting in the Reception are students and staff members, including those from the Senate Committee on University Functions, the Air Force ROTC, Mortar Board—Honorary Leadership Society, and the Department of University Relations.