



UNIVERSITY OF MINNESOTA

March Commencement, 1964 65

SATURDAY EVENING, MARCH 21, 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 Gerald W. Heaney, Duluth

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable 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 thirteenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded nearly 171,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 34,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

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

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

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

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

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

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

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

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

The summary financial statement of 1962-63 showed that the University's current income amounted to \$105,901,883.19 and the current expenditures, transfers, and adjustments amounted to \$105,901,163.82. Of the total received, \$10,262,589.66 came from student tuition and fees; \$13,751,922.36 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,719,876.49 from intercollegiate athletics; \$16,056,223.10 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$5,443,465.52 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$19,314,903.22 came from the federal government for instruction, research, and agricultural extension. The state provided \$36,257,644.42 or 34.2 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 \$6,184,253.

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:45 to 8:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Steve Gentle, Jr., CLA '65, Assistant Carillonneur. Admission to the March Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

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

<i>March from Suite in F</i>	- - - - -	Gustav Holst
<i>Passacaglia and Fugue</i>	- - - - -	Robert Crane
<i>Pictures at an Exhibition</i>	- - - - -	M. Moussorgsky
<i>Hut of Baba Yaga</i>		
<i>Great Gate of Kiev</i>		

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 8:30 p.m., Professor Harold B. Allen, 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 Allen, 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:

<i>Regal Procession</i>	- - - - -	Clifton Williams
<i>March Militaire Francaise</i>	- - - - -	Saint-Saens

ON THE STAGE: The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Marshal Allen; Professor Woodrow J. Aunan, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture, Marshal; Assistant to the Recorder Charles F. Liesenfelt, M.S., Admissions and Records; Professor Edwin L. Haislet, Ed.D., Executive Director of the Minnesota Alumni Association; Professor H. H. Serr, D.D.S., School of Dentistry; Associate Dean Francis M. Boddy, Ph.D., University College; Captain Linton C. Beasley, U.S.A., Assistant Professor of Military Science; Dean Horace T. Morse, Ph.D., General College; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Professor Gaylord W. Anderson, Dr.P.H., College of Medical Sciences; Dean Paul V. Grambsch, D.B.A., School

of Business Administration; The Honorable Bjarne E. Grottum, Regent of the University of Minnesota; President John W. Nason, LL.D., Carleton College, Commencement Speaker; Vice President William G. Shepherd, Ph.D., Academic Administration; Assistant Vice President Donald K. Smith, Ph.D., Academic Administration; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; The Reverend J. Kenneth Huyck, B.D., Director of the Baptist Student Foundation; Acting Dean Marcia Edwards, Ph.D., College of Education; Dean Athelstan Spilhaus, D.Sc., Institute of Technology; Vice President Laurence R. Lunden, LL.D., Business Administration; Dean Bryce L. Crawford, Ph.D., Graduate School; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Lieutenant Stanley B. Palmer, U.S.N., Assistant Professor of Naval Science; Dean William B. Lockhart, S.J.D., Law School; Dean Willard L. Thompson, Ph.D., General Extension Division; Associate Dean Charles V. Netz, Ph.D., College of Pharmacy; Professor Roy A. Schuessler, M.M., Department of Music; Professor Truman R. Nodland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture, Marshal; Professor Edmund A. Nightingale, 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 Concert Band Ensemble will play:

President's Fanfare - - - - - Frank Bencriscutto

THE NATIONAL ANTHEM: The entire audience and Professor Schuessler, soloist.

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

INVOCATION: The Reverend J. Kenneth Huyck.

SPEAKING FOR THE UNIVERSITY: Vice President William G. Shepherd.

COMMENCEMENT ADDRESS: Dr. John W. Nason, "The Price of Survival."

CONFERRING OF ROTC CERTIFICATES: Dr. Donald K. Smith will introduce Captain Beasley and Lieutenant Palmer, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by Vice President Shepherd.

PRESENTATION OF CANDIDATES: Dr. Smith 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: Dean Thompson, for the General Extension Division; Dean Morse for the General College; Dean Ziebarth for the College of Liberal Arts; Dean Boddy for the University College; Dean Spilhaus for the Institute of Technology; Dean McFarland for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Edwards for the College of Education; Dean Grambsch for the School of Business Administration; Dean Lockhart for the Law School; Professor Anderson for the College of Medical Sciences; Dean Crawford 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: Professor Edwin L. Haislet.

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

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

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

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

RECESSIONAL: The Concert Band Ensemble will play:

<i>Festival</i>	- - - - -	Clifton Williams
<i>Symphony for Band</i>	- - - - -	V. Persichetti
<i>IV Vivace</i>		

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

*Candidates for Commissions*_____

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Artillery

John S. Gleason, Minneapolis
William L. Lund, Minneapolis
Robert D. Wilson, Jr., Minneapolis

Second Lieutenant, Medical Service Corps

Thomas C. Thomas, Minneapolis

Second Lieutenant, Ordnance Corps

Brian B. Johnson, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USNR

Michael S. Chessnoe, Minneapolis

*Candidates for Graduation*_____

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

GENERAL EXTENSION DIVISION

Business Administration Certificate

Paul Phillip Mossberg, Minneapolis

Civil Engineering Technician Certificate

John Wangensteen, New Brighton

Engineering Science Certificate

Roger Alfred Belisle, Coon Rapids

Industrial Engineering Technician Certificate

Phillip Arthur Phelon, New Brighton

GENERAL COLLEGE

Associate in Arts

Barbara Joanne Addison, Long Lake
Gary Wilford Airaksinen, Minneapolis
Ronald Lawrence Alfson, St. Paul
James Brooks Andersen, Minneapolis
Brian Alphonso Arcari, Minneapolis
Patricia Kay Bauman, Minneapolis
Vernon Roger Beck, Fridley
Neson Neal Berman, Minneapolis
Douglas Carl Bestler, Minneapolis*
Thomas Jeffery Billison, Canal Zone

John Lawrence Bode, Redwood Falls
Quentin George Brinkworth, Minneapolis
Sherry Ann Brown, Minneapolis
John Eric Brudenell, Minneapolis
William Henry Campbell, Minneapolis
Gerald Raymond Caputa, Minneapolis
Gary Steven Clark, Bloomington
David Norman Collins, St. Anthony
Robert Charles Cooper, St. Paul

* Degree conferred as of December 14, 1963.

Larry John Cordes, Minneapolis
 David Loren Cote, Minneapolis
 George J. Cranbrook III, Excelsior
 Roger Gene Dahl, St. Paul
 James Steven Dahlquist, St. Paul
 James Anthony Darby, Wyckoff, N.J.
 Steven Robert Davis, Minneapolis
 James Frank Dols, Minneapolis
 Sue Ann Doss, Hopkins
 Richard Phillip Draves, Minneapolis
 Robert Lee Dreger, St. Paul
 Paul Oberlin Dyrstad, Glenwood
 Dickey Armond Eastvold, St. Paul
 Fredrick Francis Erickson, Minneapolis
 Mary Margaret Felhaber, St. Paul
 Lois Jean Fels, Bovey
 Gary Herbert Fergestad, Minneapolis
 Thomas Frank Florey, Minneapolis
 Paul Jay Ford, White Bear Lake
 Douglas Carl Friend, Minneapolis
 James Leonard Fuerst, St. Paul
 Robert Lyle Fulson, Minneapolis
 Gerald Klemens Furst, Maple Plain
 Michael Angelo Giuliani, St. Paul
 James Lawrence Glodek, Minneapolis
 Fred Lewis Graf, Richfield
 Keith Bradford Grandlund, Minneapolis
 Glen Scott Gustafson, Minneapolis
 John Gordon Haberkorn, West St. Paul
 Thomas Frank Hall, Minneapolis
 E. Larry Hallblade, Bloomington
 Thomas Arthur Hanson, Minneapolis
 Gary Richard Harris, Minneapolis
 Robert Milton Heidbrink II, Minneapolis
 John Stafford Hemmings, Richfield
 Gary Patrick Higgins, South St. Paul
 Roger George High, Mankato
 Sylvia Jean Hoff, Fergus Falls
 Gwen Ann Holgrimson, St. Louis Park
 Stephen Robert Holmes, St. Louis Park
 Charles Robert Howe, Minneapolis
 Robert Petch Howitz, Minneapolis
 Sharon Lee Huseth, St. Louis Park
 James Melvin Ingemunson, St. Paul
 John Edward Iverson, Minneapolis
 Bruce Edward Jacobson, Brooklyn Center
 Jerry David Jacobson, Bloomington
 Carol Ann Jalma, Minneapolis
 John Joseph Janson, Minneapolis
 Richard Peter Jensen, Minneapolis
 Arthur Leonard Johnson, Minneapolis
 Paul Louis Johnson, Minneapolis
 Peter James Johnson, Minneapolis
 William Edward Johnson, St. Paul
 Arnold James Kimbrel, New Brighton
 Scott Campbell Kirk, Minneapolis
 Helle Maarja Kuningas, Minneapolis
 Rodney Oliver Larson, Minneapolis
 Walter Thomas Lideen, St. Paul
 Charles Richard Livermore, Minneapolis
 Thomas Michael Lopac, Bloomington
 Thomas Harry Lucas, Minneapolis
 Harold Lucs, Minneapolis
 Dennis Linden Lund, St. Paul
 Neil Bates Luttgren, Minneapolis
 Michael John Mackner, Minneapolis
 Linda Nan Mahood, Stillwater
 David Harmon Makiesky, St. Paul
 Bruce William McLagan, St. Paul
 Kathryn Louise Moravec, St. Paul
 Kenneth Manuel Morrison, Jr., St. Paul
 Thomas Charles Mullery, St. Paul
 John Patrick Murphy, Austin
 Keith Gerald Norgren, Minneapolis
 Dennis Otto Nybakken, South St. Paul
 Wayne Leslie Osell, Minneapolis
 Carl August Osterlund, St. Paul
 Bruce Carl Palmborg, Minneapolis
 Thomas Archie Pepin, St. Paul
 David Jay Peterson, Washington, D.C.
 David Scott Peterson, Minneapolis
 Robert Willard Peterson, St. Paul
 Thomas Donald Peterson, Minneapolis
 Mallory Adrian Pickens, Minneapolis
 Jerry Pidhayny, Minneapolis
 Janet Lee Piller, Minneapolis
 Steven Howard Puck, Hopkins
 Edward Conrad Rainville, Minneapolis
 Rodney Gehard Ramberg, Minneapolis
 Robert Michael Risch, Minneapolis
 John Charles Rogers, St. Paul
 Deneise Charline Roning, Hills

David Clayton Rudd, Minneapolis
 Sharen Anne Rund, South St. Paul
 John William Sandberg, Monticello
 David Albert Schintz, St. Paul
 John Henry Schlee, Minneapolis
 Neil Albert Sellman, Minneapolis
 Joe Shepperd, Howard Lake
 John Charles Skog, Minneapolis
 William Henry Sledz, Minneapolis
 Larry Thomas Smith, St. Paul
 Paul Allen Snowberg, Minneapolis
 Susan Mae Stadler, Edina
 Maris Stolcers, Minneapolis
 Marion Theresa Suppes, Minneapolis
 Robert James Thorbeck, Minneapolis
 Daniel Michael Trudeau, Minneapolis
 Thomas John Valerius, Minneapolis
 William Michael Van Etta, Minneapolis

Michael Vernon Voligny, Bayport
 James Vollegraaf, South St. Paul
 Ronald Stephen Wappel, White Bear
 Lake
 Katherine McKee Watson, Minneapolis
 George Earl Wennerlyn, Edina
 Richard Todd Weyrauch, St. Louis
 Park
 Dale James White, Minneapolis
 Kathleen Jean White, Minneapolis
 Thomas Alan Will, Bloomington
 Russell S. Wurst, St. Paul
 Walter John Yoch, St. Paul
 Bruce David Ziegler, Minneapolis
 James Marshall Zimmerman, Minneapolis
 Phil Terry Zimmerman, Minneapolis
 Judith Anna Zon, St. Paul

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Judith G. Zweigbaum Abramson,
 Minneapolis
 Bruce Leslie Adomeit, Excelsior
 Kathleen Lucille Bellew, Minneapolis
 Stella Bernice Haugan, Minneapolis

Irving Lebow, Minneapolis
 James Richard Nelson, St. Paul
 Curtis John Oliver, North St. Paul
 Bartholomew Clinton Rosch, St. Paul
 Kenneth LeRoy Rosdahl, Minneapolis

Bachelor of Arts

William Martin Amundson, Golden
 Valley
 Dawn Carlotta Ann Anderson, Bel-
 view
 Jerome Marshall Anderson, St. Paul
 Jerome A. Andrusko, Minneapolis
 Shonna Lee Arf, Grand Rapids
 Gregg Thomas Aspnes, Minneapolis
 Stowe Neal Badenoch, A.L.A., Minne-
 apolis
 Charles Elbridge Bassett, Minneapolis
 Robert Blaine Bates, Minneapolis
 Antoinette Dorothy Villaume Berg,
 St. Paul
 Kathryn Carol Berry, Hector
 Leslie H. Bick, St. Louis Park
 Duane John Blaska, Anoka

Stanley Parris Blatti, Kasson
 Marjorie Alice Blick, Minneapolis
 Alan Eugene Blomgren, St. Paul
 Thomas Michael Briese, Rochester
 Richard Eugene Brimacomb, Austin
 Brian Gregory Brock, Minneapolis
 Philip Mourer Broderson, Minneapolis
 Sally Ruth Brown, St. Paul
 Marilyn Elizabeth Buelow, Minne-
 apolis, CUM LAUDE
 Gaylen Francis Bunce, North St. Paul
 Thomas Joseph Burke, St. Paul
 Barbara Hope Burnikel, Hopkins, CUM
 LAUDE
 Jon Harold Butler, Hector
 Curtis James Carlson, Edina
 Harry Ross Charter, Richfield

Charles Ellis Cheney, St. Paul
 Edgar Barclay Cooper, Minneapolis
 Mary Kathryn Kolling Corrigan, Minneapolis
 Susan Margaret Crossley, St. Paul
 Selmer Alton Davidson, Emmons
 Mary JoAnn Davies, Washington, Iowa
 James Nicholas Denn, Hastings
 Eileen Frances Dockman, Minneapolis
 Richard William DuFour, Jr., Minneapolis
 Judith Anne Duncan, Faribault
 Larry Philip Eastlund, Moorhead
 Constance Diane Ekar, Chisholm
 Bonnie Charlene McFadden Ellis, A.L.A., Minneapolis
 Perry Anthony George, St. Paul
 Larry Lloyd Gilb, Redwood Falls
 Adrian Clifford Gilbert, Red Wing
 Richard James Gill, Minneapolis
 Marlene M. Bernstein Goldberg, Minneapolis
 James Richard Goodland, Minneapolis
 Jerome Edwin Grehl, St. Louis Park, CUM LAUDE
 Michael Ray Gribble, A.A., Minneapolis
 Dennis James Grimmer, Ely
 Theodore Arnold Groseth, Minneapolis
 Michael Frederick Grossman, Minneapolis
 Joanne Carol Mladenich Gustafson, Minneapolis
 Phylliss Hall, Minneapolis
 James Thomas Harding, Chisago City
 Darrell Molloy Hart, Minneapolis
 Jerrold Marvin Hartke, South St. Paul
 Millicent Jane Hayhoe, Minneapolis
 Elizabeth Anne Kennedy Heinbockel, Minneapolis
 John Jay Heivilin, Minneapolis
 Ann Lindsay Helmholtz, Rochester
 Charles Henry Henderson, Minneapolis
 Ronald James Henke, Gaylord
 Douglas Dean Hennings, Minneapolis
 Mary Louise Faetkenheuer Hill, Minneapolis
 James Michael Hillstrom, Minneapolis
 John Richard Hoffman, Stillwater
 Leon Earl Holman, Jr., San Diego, Calif.
 Judith Jane Holmquist, St. Paul
 Paul Chester Horton, Jr., Robbinsdale, MAGNA CUM LAUDE
 Brian Raymond Isaacson, Cass Lake
 Harvey Edwin Jackson, Jr., Richfield
 Thomas Richard Jansen, Worthington
 Steven Frank Jelacic, Brainerd
 Susan Alice Jensen, Minneapolis
 Ames Knight Johnson, Edina
 Donald Ralph Johnson, Minneapolis
 Lawrence Francis Johnson, Minneapolis
 Terry M. Johnson, Austin
 Robert John Kaiser, St. Paul
 Judy Ann Karon, Duluth
 Jeanine Delores Katz, Minneapolis
 John Thaddeus Kelly, Port Washington, N.Y.
 Frederick Joseph Kemper, Minneapolis
 Kim Henry Kimmerle, Minneapolis
 Ingrid Helen Kizen, New Richmond, Wis.
 Rodney Gerald Knudson, Minneapolis
 Daniel Charles Knutson, St. Paul
 Anthony Joseph Kowski, St. Paul
 Jean Karen Langlie, Bemidji, CUM LAUDE
 Sylvia Mae Davis Langworthy, Red Wing
 Barbara Rae Lee, Richfield
 James Donovan Lind, Milltown, Wis.
 Norman James Loren, Minneapolis
 John Samuel Lund, Black River Falls, Wis.
 Daniel Webster Lynch, St. Paul
 John Chester Marr, A.A., Adrian
 Sandra S. Chandler Martin, St. Paul
 Alois Joseph Mathe, St. Paul
 Virginia Memmer, St. Paul, CUM LAUDE
 Judith Kay Meuli, Chippewa Falls, Wis.
 James Erwin Miles, Glen Lake
 Gerald William Miller, Minneapolis
 Grant Durward Miller, A.A., Worthington

Philip Edward Mullen, Jr., Minneapolis
 Rodney Keith Murphey, Robbinsdale
 Jill Nash, St. Paul
 Jerome Phillip Newman, Minneapolis
 David Allen Nitz, St. Louis Park
 Kent G. Nobbelin, Bloomington
 Richard James Novak, St. Paul
 Dale Lee Offerman, Montevideo
 Karen Elizabeth O'Link, St. Cloud,
 MAGNA CUM LAUDE
 Pearl Annette Olson, Littlefork
 Peter David Olson, Minneapolis
 Rupert Earl Olson, St. Paul
 Louise Rosalyn Opheim, Minneapolis
 Ilze Goppers Oredson, Riga, Latvia
 Gary John Palm, North St. Paul
 Richard Gordon Passon, Austin
 Stanley Lowell Paulson, Minneapolis
 Nancy Sue Pearson, St. Paul
 Milo James Peterson, Jr., St. Paul
 Philip John Pettman, Minneapolis
 Stephen Day Ponto, Minneapolis
 James Hilmot Prugh, St. Paul
 Leo H. Reck, Jr., St. Paul
 Carol Mae Reider, St. Paul
 Mary Ann Richter, Wadena
 Agnes Marie Ripka, A.L.A., Minneapolis
 Sandra June Rogers, St. Paul
 Gertrude Edith Ruhberg, Santa Barbara, Calif.
 Robert Laurence Saloway, Evanston, Ill.
 Stephen Fred Salzman, Trimont
 Sandor Saros, Hungary
 Gordon Paul Savoie, A.A., Richfield
 Daniel John Schivone, Mound
 John Baptist Schmid, Jr., St. Paul
 Linda Norling Schnappauf, Minneapolis
 Douglas Arthur Schroepfel, Winthrop
 Tamara Shtowchan, Hugo
 Douglas Kent Shifflet, St. Paul
 Fred Mandel Silver, Minneapolis
 Donald Francis Snyder II, Minneapolis
 Gloria Ann Leffler Soderquist, St. Louis Park, CUM LAUDE
 Walentina Sokolsky, Minneapolis
 Elisabeth Ann Sorkness, Jamestown, N.D.
 Thomas William Spence, St. Paul
 Michael Louis Stein, Lakeville
 Gerald John Strei, Roscn
 Edyth Jessie Stryker, Worland, Wyo.
 Robert Dale Swanson, A.L.A., Minneapolis
 David John Swenson, Minneapolis
 Thomas Dale Tanner, Minneapolis
 Thomas Charles Thomas, Minneapolis
 Valene Vee Torgerson, Minneapolis, CUM LAUDE
 Helen Marie Tuchner, St. Paul
 Edward James Tymura, Fort William, Ontario, Canada
 Roul David Unowsky, St. Paul
 Andrejs Vape, Minneapolis
 Rolf Sunde VonLorenz, St. Louis Park
 Rita Faye Weiss, St. Paul
 Carole Joyce Wendell, Minneapolis
 Sharon Joy Bratsch Werner, Renville
 Harvey Willard White, Minneapolis
 Robert Dixon Wilson, Jr., Minneapolis
 William Henry Wilson, Minneapolis
 Edward David Winter, St. Louis Park
 Todd Charles Wordelman, Benson
 Lonnie Roach Wright, Jr., St. Paul
 Penelope Anne Zenner, St. Paul
 Bruce Robert Zimmerman, St. Paul
 Sharon Rita Chernoff Zweigbaum, St. Louis Park

UNIVERSITY COLLEGE

Bachelor of Arts

Richard David Bakula, St. Paul

Roger Harold Olson, St. Paul

Bachelor of Science

Steiner Edward Hansen, Jr., A.A.,
St. Paul

Chauncey Edward Zuber, Bloom-
ington

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Yucelkut Aktansel, Istanbul, Turkey,
WITH DISTINCTION

Charles Richard Bowman, Aberdeen,
S.D., WITH DISTINCTION

Bachelor of Aeronautical Engineering

Nebojsa D. Kovacevic, Belgrade,
Yugoslavia

LeRoy Marshall Olson, Cosmos

Bachelor of Architecture

David Nathaniel Deinard, B.A., Min-
neapolis
Lowell Dean Erickson, B.A., Alex-
andria

Richard Lloyd Gilyard, B.A., Minne-
apolis
Jon Andrew Helstrom, B.A., Duluth
Fred James Shank, West St. Paul

Bachelor of Chemistry

Fritz Schreyer Allen, Minneapolis
Thomas Michael Lenich, Ely
George Peter Nilles, St. Paul

Charles Reich, Minneapolis, WITH
DISTINCTION
Larry Douglas Winter, Lakota, Iowa

Bachelor of Civil Engineering

Arlen Mitchell Bertleson, St. Paul
Michael Steven Chessnoe, Minneapolis
George Edward Fryklund, Duluth
Henry Schoen Grothaus, Mountain
Lake

Jerome Russell King, Minneapolis
Richard Dean Menken, Windom
Charles Frederick Michaelis, Mankato

Bachelor of Electrical Engineering

William Henry Boecker, Adrian

Richard Doyle Haley, St. Paul
Ronald Albert Kral, Sleepy Eye

Bachelor of Mathematics

Marion Lee Moore, Minneapolis, WITH HIGH DISTINCTION

Bachelor of Mechanical Engineering

Ferenc Tamas Beiwel, Hungary
Stanley Edward Brosch, Minneapolis
Stephen Hedrick Dallmann, St.
Cloud

James Blain Funkhouser, St. Paul
Scott Douglas Kneen, Minneapolis
Rudolph Lawrence Kramer, Litchfield
Marvin L. Zochert, Bloomington

Bachelor of Physics

B. Ryd Casserberg, Stockholm,
Sweden, WITH HIGH DISTINCTION

Lloyd Marlyn Haugaard, Parkers
Prairie

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

Technical Certificate in Agriculture

Ronald Rodney Dittbenner, A.A.,
Morgan
James Fremont Gerde, Sedan

Willis Dwayne Klaus, Vernon Center
James Joseph Mathiowetz, Morgan
Gerald Lee Scholten, Steen

Bachelor of Science

Lyle Peter Bartholome, Goodhue,
Agriculture
Alan Wilmar Baumgartner, St. Paul,
Agriculture
Michael Vincent Beaufeaux, Hinckley,
Forestry
Theodore Raymond Beise, A.A., Min-
neapolis, Forestry
Ralph Owen Bolt, Benson, Forestry
Dennis Patrick Bradley, Grand Rapids,
Forestry, WITH HIGH DISTINCTION
Larry Tad Brooke, Spring Valley,
Wis., Agriculture
Otto Alloys Christopherson, Pennock,
Agriculture
David Roger Fisher, Brook Park, For-
estry
John Harwood Ganzer, Minneapolis,
Agriculture
Michael Alfred Hines, Richfield, For-
estry
Dennis Allen Ingvaldson, Benson,
Forestry

Merlyn Elsie Jorgensen, Stewart,
Home Economics
Terry Richard Kvenvold, Albert Lea,
Agriculture
Milo James Larson, St. Peter, Forestry
Terri Lou Leonard, Minneapolis,
Home Economics
Kathleen Louise Lowry, Wright,
Home Economics
Joelle Lundgren Moller, Edina, Home
Economics
Paul Ivan Oscar Nesseth, Kenyon,
Agriculture
Carl Emil Prosek, Hurley, Wis.,
Forestry
Marjorie Eileen Jamieson Rodberg,
St. Paul, Agriculture, WITH HIGH
DISTINCTION
Noel Urban Roehl, Odessa, Agriculture
Elizabeth Harken Russell, Winthrop,
Home Economics
Gary Reynaul Schaffran, Minneapolis,
Forestry, WITH DISTINCTION

Norman Lee Sheldon, Bagley, Agriculture
Michael Grant Speers, Sinton, Tex., Agriculture
John Howard Thornton, Lake City, Agriculture

Glenn Raymond Thunberg, Nelson, Agriculture
David Michael Wendorf, Wausau, Wis., Forestry
Robert Gordon Whitman, Lake Elmo, Agriculture

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

Bachelor of Science

Barbara Ann Billman, Minneapolis, Home Economics Education
Joanne Priscilla Espe, Minneapolis, Home Economics Education, WITH DISTINCTION
Helen Ruth Gatheridge, Humboldt, Home Economics Education
Patricia Louise Irvin, B.A., Rose Creek, Home Economics Education

Nancy Jane Kath, St. Paul, Home Economics Education
Dale Frederick Peters, Okabena, Agricultural Education
Wallace Edward Thoreson, Mora, Agricultural Education, WITH DISTINCTION*
Edward Lowell Ziemer, Waltham, Agricultural Education

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

Bachelor of Agricultural Business Administration

Neale Dennis Anderson, Evansville
Richard Lowell Barnes, Granada
Juels Anton Carlson, Marshall
Bruce Charles Carney, Delavan

Keith Boyce Ruona, Rosemount
Donald Robert Scholl, Minneapolis
Jay Reynolds Tonsfeldt, Pipestone
Albert Lloyd Wanous, Pine City

COLLEGE OF EDUCATION

Bachelor of Science

John M. Alexander, Duluth
Richard Lee Alm, Minneapolis
Daniel Francis Amell, Duluth

Robert Leslie Ames, B.A., M.A., Wadena
Doria Deberah Falk Aronsohn, St. Paul

* Degree conferred as of December 14, 1963.

Gretchen Louise Bach, Rochester,
 WITH HIGH DISTINCTION
 Doris Irene Benson, B.B.A., St. Paul
 Nancy Louise Berry, St. Paul, WITH
 HIGH DISTINCTION
 Clarence Henry Bischoff, Minneapolis
 Lois Mae Bock, B.A., Balaton
 John Edwin Bradbury, Minneapolis
 Barbara Carol Bruce, St. Paul, WITH
 DISTINCTION
 Margaret Elizabeth Bulger, Austin,
 WITH DISTINCTION
 Alice Marie Busch, Jordan
 Marilyn Jean Carlson, Minneapolis
 Mary Leigh Cary, Minneapolis
 Mary Jo Elizabeth Lien Caton, Will-
 mar
 Linda Ann Moore Comstock, Grand
 Rapids, WITH DISTINCTION
 Sonja Ann Emmons Cook, Emmons,
 WITH HIGH DISTINCTION
 Rita McLaughlin Damon, B.A., St.
 Paul
 Judith Anne Deeble, Columbia
 Heights, WITH DISTINCTION
 Janet Marie Dettloff, Ostrander
 James Wilbur Eckblad, Minneapolis
 Carolyn Marie Effenberger, St. Paul
 Thomas Anthony Erickson, Minne-
 apolis
 Carole Jean Ewing, B.A., Thief River
 Falls
 Susan Mary Fehr, St. Paul, WITH HIGH
 DISTINCTION
 Kirsten Jo Fladager, B.A., South St.
 Paul
 Claudia Jean Flick, Minneapolis
 Vicki Lynne Gaddis, Edina
 Steven Douglas Gageby, Minneapolis
 Minnie Lou Geiwitz, B.A., Minneota
 Michael Thomas Gordanier, St. Paul
 Arlene Sue Grahnek, Fort Dodge,
 Iowa
 Ann Florence Chapman Gribble,
 Minneapolis
 Dennis James Grimmer, Ely
 Sheri Lu Hansen, Rochester, WITH
 DISTINCTION
 Beverly Joy Hanson, St. Paul
 Jeffery Myron Heath, Minneapolis

Randi Diane Held, St. Paul
 Marie Ann Adolphson Hickerson,
 A.A., Brainerd
 Mary Jeanne Hoogesteger, St. Paul
 Raymond Leon Hyser, Minneapolis
 Patricia Kathleen Irmen, Minneapolis
 Anita Louise Johnson, Trimont
 Brian Blake Johnson, Minneapolis,
 WITH DISTINCTION
 Wayne Avery Johnson, Minneapolis
 Carolyn Jean Karlstrom, Minneapolis
 Nora Lee Kelly, Duluth
 Kathleen Ann Kossila, Minneapolis
 William Paul Kreic, Brownton
 Maria Luisa Latorre, Colombia*
 Esther Elaine Leddin, Benson
 Jimmy Dale Libby, Ringsted, Iowa,
 WITH DISTINCTION
 Linda Louise Lillie, A.A., Excelsior
 Judith Pearl Loegering, Minneapolis
 Darlene Marie Logan, B.A., Minne-
 apolis
 Mary Alberta Maas, Fridley
 Eric John Magdanz, Minneapolis
 Susan Jane Mahle, Plainview
 Helen E. Mahoney, St. Paul
 Judith Williams Marr, Hoyt Lakes,
 WITH DISTINCTION
 Mary Bennett McKenzie, Virginia,
 WITH HIGH DISTINCTION
 Robert LeRoy Monson, Owatonna
 Sandra Lee Murphy, Hopkins
 Gary Oscar Myran, Manchester
 Dennis Dale Nelson, St. Paul
 Richard James Novak, St. Paul
 May Henning Olberding, Minneapolis,
 Sondra Louise Millar Olson, St. Louis
 Park
 Frank Lawrence Oman, Duluth
 Katherine Aquina Perrizo, Benson
 Donna Ostlund Pertl, Minneapolis,
 WITH DISTINCTION
 Carolyn Ann Peterson, Pelican Rapids
 Daniel Philip Phillips, B.A., Minne-
 apolis
 Elizabeth Karen Potami, Hibbing
 Dana Louise Raihill, Duluth, WITH
 DISTINCTION
 Beverly Ann Rendall, Appleton, Wis.
 Diana Rae Robinson, A.A., Austin

* Nursing Education Curriculum.

Betsy Ann Ross, B.A., Riverside, Calif.
 Margaret E. Walker Rowe, Hayfield*
 William Michael Rubis, B.A., Grove
 City
*Georgia Mae Sanford, Austin, WITH
 DISTINCTION*
 Patricia Anne Schleyer, Billings, Mont.
 Susan Jane Schomburg, B.A.,
 Rochester
 Robert Edward Schwartz, Wadena
*Norma Frances Shannon, Minneapolis,
 WITH DISTINCTION*
*Kathleen Veronica Smith, Minneapo-
 lis, WITH DISTINCTION*
 William Gerald Smythe, South St.
 Paul
*Marcia Carol Stougaard, St. Paul,
 WITH DISTINCTION*
 Robert Harold Strand, Minneapolis

Carolyn Kay Sweiger, Minneapolis
 Bertha Jean Swisher, Minneapolis
 Philip Martin Teigen, A.A., Mankato
 Bruce Herbert Tetzman, Minneapolis
 Joan Barbara Timm, St. Paul
 Robert Allen Tomsich, A.A., Ely
 Marilyn Louise Wagstrom, Minne-
 apolis
 Carol Ann Reller Walden, Minne-
 apolis
 Dennis Norman Weber, A.A., B.A.,
 Golden Valley
 Mitchell Long White, Minneapolis
*Sue Ann Woestehoff, Minneapolis,
 WITH DISTINCTION*
 Roger Martin Wold, Minneapolis
 Maija Sprogis Zaeska, Minneapolis
 Alan Adam Zinter, Willmar

Master of Education

Julianne Eleanor Blaese, B.S., Minne-
 apolis

John David Bowman, B.S., St. Paul

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Dennis Lee Anderson, Minneapolis
 Gary Brian Armstrong, Wayzata
 George Thomas Bestrom, Minneapolis
*Gary Lynn Carlson, Minneapolis,
 WITH DISTINCTION*
 John Paul Casey, St. Paul
*Stephen William Conroy, Minne-
 apolis, WITH DISTINCTION*
 Brian Sheffield England, Minneapolis
*Richard Lee Faylor, A.L.A., Minne-
 apolis, WITH DISTINCTION*
 Albert Curtis Fischer, Minneapolis
 Roger Samuel Fischer, Minneapolis
 John Scovil Gleason, Minneapolis
 Thomas Dean Haapala, Dassel
 Douglas Frederick Harkins, Rhine-
 lander, Wis.
 Donald Alphonse Helmer, Minne-
 apolis

Robert Richard Hoffe, Fertile
 Paul Edward Johnson, Wayzata
 David Ralph Jongeward, A.A., Crystal
 Thomas James Klemond, Minneapolis
 Gary Brent Knowlton, Austin
 Robert George Kulvich, St. Paul
 Matthew Donald Larson, Minneapolis
 William Lee Lund, Minneapolis
 George Lee Meyers, St. Paul
 Waldo Ray Narr, B.S., Wayzata
 Gerald Neil Nelson, Faribault
 Donald Russell Norha, Embarrass
 Ralph E. Olson, St. Paul
 John Robert Ostrander, Albert Lea
 Richard Merrill Passolt, St. Paul
 Norton Gerald Permuth, St. Paul
 Edward Thomas Porter, B.M.E.,
 Minneapolis
 Charles Albert Reamer, St. Paul

* Nursing Education Curriculum.

John Dale Riban, Minneapolis
William George Richert, Minneapolis
Wayne Walter Sagmoen, Garvin
Allan Perry Salita, St. Paul
Roger James Schwartz, Sleepy Eye
Richard Alan Sheppard, Minneapolis
Richard Allen Snyder, St. Paul
Richard Christian Stauning, Minne-
apolis, WITH DISTINCTION

John Arnold Steffes, St. Paul
Frank Richard Sushak, Chisholm,
WITH DISTINCTION
Wayne Clifford Swanson, Minneapolis
Glenn Bernhardt Thorsen, Racine,
Wis.
Edwin Truesdell Young, Minneapolis
David Arthur Zimmerman, Minne-
apolis

Bachelor of Science in Economics

Clifford John Ramstad, Minneapolis
Melvin Arthur Reighstadt, Inver
Grove

Paul Douglas Shervey, Minneapolis
Darold Roy Strand, Minneapolis
Arden Bruce Swanson, St. Paul

LAW SCHOOL

Bachelor of Laws

Thorwald H. Anderson, Jr., B.A.,
Minneapolis

Jerry Martin Cohen, B.A., St. Paul
Wayne Joel Salita, B.A., St. Paul

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing*

Jane Valeria Aaland, Hoople, N.D.
Jane Twitchell Adams, Duluth
Jane Carol Andersen, Charles City,
Iowa
Shirley Dorothy Anderson, Minneapo-
lis, WITH HIGH DISTINCTION
Mary Elizabeth Berquist, Garrison,
N.D.
Mary Margaret Bonnabeau, Minne-
apolis
Betty Jean Bunke, Beach, N.D.
Gretchen Louise Carlson, Melrose
Lois Thompson Carlson, Minneapolis
Nancy Joyce Carlson, Minneapolis
Alison Jean Clarke, Duluth, WITH
DISTINCTION
Mary Louise Cooney, Minneapolis

Judith Gail Cramer, St. Paul
Jean Marie Dahl, Superior, Wis.
Gaye Adair Danielson, Fosston, WITH
DISTINCTION
Susan Alberta Davies, St. Paul
Kathleen Sue Dinan, Duluth, WITH
DISTINCTION
Jayne Eloise Dominski, St. Paul
Patricia Pauline Eide, A.A., Brainerd
Julianne Theresa Ferraro, Nashwauk,
WITH DISTINCTION
Judith Ann Grosslein, Minneapolis
Janet Ann Gurwell, Albert Lea
Jean Jost Gustafson, Minneapolis,
WITH DISTINCTION
Karol Ann Haglund Hagberg, Minne-
apolis

* These degrees are conferred subject to the completion of nursing practice prior to June 13, 1964.

Carol Ingham Heidinger, Edina
 Gaynell Alyson Hestness, Minneapolis
 Judith Lorraine Hinds, A.L.A., Min-
 neapolis
 Nancy Jean Johnson, Minot, N.D.,
 WITH DISTINCTION
 Jean Diane Kanter, St. Paul
 Judith Louise Komives, St. Paul
 Cheryl Vivian Kosec, St. Paul
 Susan Grace Kuhn, South St. Paul
 Tonette Mary Kvale, Rochester, WITH
 DISTINCTION
 Karen Lee Larson, Duluth
 Elizabeth Berd Lawrence, Minneapolis
 Mary Louise Lundberg, Solway
 Betty Joann Newman, Minneapolis
 Marion Tholine Oare, Long Lake,
 WITH DISTINCTION
 Sandra Lee Olson, Duluth

Sharol Rae Overskei, Brookings, S.D.
 Nancy Anne Pagenhart, Rochester
 Carol Ann Peterson Repp, Minneapo-
 lis, WITH DISTINCTION
 Virginia Lee Rootkie, Brook Park,
 WITH HIGH DISTINCTION
 Joan Ann Shogren, St. Peter
 Darlene Ann Simmons, Forest Lake
 Janet Charlene Keller Snow, Sleepy
 Eye, WITH DISTINCTION
 Carol Margaret Spadino, St. Paul
 Nancy Olson Thrana, Duluth
 Carlene Diane Erickson Ulmer, Min-
 neapolis
 Mary Jane O'Connor Van Dusen,
 Renville, WITH HIGH DISTINCTION
 Gwen Crommett Weihrauch, St. Paul
 Suzanne Katherine Welsch, St. Paul
 Cynthia Lee Woodson, Minneapolis

Bachelor of Science

Marilyn C. Fischer, Springfield, Public
 Health Nursing
 Kay Lorentz Larson, St. Paul, Public
 Health Nursing
 Gwen Laura Moorhead, Elk River,
 Public Health Nursing

Joan Marie Nyberg, Siren, Wis., Pub-
 lic Health Nursing
 Carolyn Delpha Swenson, Winthrop,
 Public Health Nursing, WITH HIGH
 DISTINCTION
 Dorothy Mary Trossen, St. Cloud,
 Medical Technology*

* These degrees are conferred subject to the completion of practical work prior to June 13, 1964.

GRADUATE SCHOOL

Master of Arts

Barbara Ann Banas, Austin

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

Frank Alexander Barrett, Toronto,
Ontario, Canada

B.A. '58, University of Toronto. Major: Geography. Minor: Sociology. Thesis: Post-War European Immigrants in Metropolitan Toronto: A Social Geography.

Enoch Dale Bennett, Spring Valley

B.S. '49, Winona State College. Field of Concentration: Curriculum and Instruction.

Helen Joan Bergan, Hawley

B.A. '61, Augsburg College. Field of Concentration: Library Science.

Marco Giuseppe Bicchieri, Tangan-
yika, Africa

B.A. '61, University of Minnesota. Major: Anthropology. Minor: Political Science. Thesis: A Study in Comparative Ecology: Case Study of Three African Foraging Societies.

James Edward Bieren, Minneapolis

B.A. *cum laude* '61, St. Mary's College. Field of Concentration: Mathematics.

Robert Gene Blaine, Frazee

B.S. '57, Moorhead State College. Field of Concentration: Educational Administration.

Joan Moede Brown, Minneapolis

B.A. '52, Grinnell College. Major: Speech Pathology. Minor: Child Psychology. Thesis: A Comparative Study of Scheduling Methods in the Minneapolis Public School Speech Correction Program.

Merle Lucile Bryant, Duluth

B.S. '46, Bemidji State College. Field of Concentration: Curriculum and Instruction.

Robert Vernon Carlson, Minneapolis

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

Anders John Christenson, Bloomington

B.S. '56, Macalester College. Field of Concentration: Educational Administration.

Dennis Allen Christenson, St. Paul

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

Annie Clement, Proctor

B.S. *cum laude* '59, University of Minnesota. Major: Physical Education. Minor: Educational Psychology. Thesis: A Study of the Relationships Among Physical Fitness Scores, Selected Skill Test Scores and Intelligence for Junior High School Girls.

Lester Victor Cziok, Richfield

B.S. '49, University of Minnesota. Field of Concentration: Physical Education.

Ernest Egbert Dass, Minneapolis

B.S. with honors '46, Mankato State College. Field of Concentration: Educational Administration.

George Browning Flamer, Fargo, N.D.

B.S. '61, North Dakota State University. Major: Child Psychology. Minor: Psychology. Thesis: Mediated Associations in the Paired-Associate Learning of Sixth Grade Children.

Miriam Ruth Forbes, Iowa City, Iowa

B.A. '56, University of Iowa. Field of Concentration: Physical Education.

William Joseph Fox, Franklin

B.A. '54, College of Great Falls. Field of Concentration: Journalism.

Earl Theodore Gramling, Alden

B.S. with honors '54, Mankato State College. Field of Concentration: Educational Administration.

Anne Bosanko Green, St. Paul

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

Eva Horovitz Guggenheimer, Minneapolis

B.A. *magna cum laude* '62, University of Minnesota. Major: Latin. Minor: Greek. Thesis: Rhyme in Classical Latin Poetry.

Henry Charles Hagemester, Robbinsdale

B.S. '27, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Susan Greenfield Hanson, Cokato

B.A. '57, B.S. '60, University of Minnesota.
Field of Concentration: Art Education.

John Peter Herpst, Elmwood, Wis.

B.S. '57, Wisconsin State College (River Falls). Field of Concentration: Educational Psychology.

Noriko Hiraki, Tokyo, Japan

B.A. '59, Tsuda College (Japan). Field of Concentration: Educational Psychology.

Barbara Jo Hoefler, Worthington

B.S. '60, South Dakota State College. Field of Concentration: Educational Psychology.

Elizabeth Glass Hoke, St. Paul

B.A. '39, Smith College. Field of Concentration: Library Science.

Donald David Island, Beaverton, Ore.

B.S. '57, Portland State College. Field of Concentration: Educational Psychology.

Charlotte Louise Janes, Minneapolis

B.S. '30, University of Minnesota. Major: Speech and Theatre Arts. Minor: English. Thesis: Elements of Effective Public Speaking as Viewed by Experienced Listeners, Effective Speakers, Students and Teachers of Public Speaking.

Donald Freedolph Johnson, St. Paul Park

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

Ramsey Paul Johnson, Blue Earth

B.S. '50, University of Minnesota. Field of Concentration: Agricultural Education.

Virginia Ann Johnson, Evanston, Ill.

B.A. '61, Earlham College. Field of Concentration: Library Science.

Boonlert Jugsurat, Chiangmai, Thailand

B.S. in Agric. '60, Kasetsart University (Thailand). Field of Concentration: Agricultural Education.

Joanne Ruth Z. Lake, Minneapolis

B.A. *summa cum laude* '60, Beloit College. Field of Concentration: Speech Pathology.

John Robert Lampe, Minneapolis

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

Patricia Rose Lamson, St. Paul

B.A. '63, College of St. Catherine. Field of Concentration: Library Science.

Alan Kenneth Lathrop, Sioux Falls, S.D.

B.A. '61, Augustana College. Field of Concentration: History.

Marlyce Irene Asp Lee, Hutchinson

B.A. '62, University of Minnesota. Field of Concentration: Library Science.

Donald Owen Levsen, Aberdeen, S.D.

B.S. in Educ. with honors '56, Northern State Teachers College. Field of Concentration: Music Education.

Raymond Lewis, New York, N.Y.

B.S.S.S. '31, College of the City of New York. Major: Industrial Relations. Minor: Economics. Thesis: Mediation in the Changing Patterns of Bargaining.

Norman Sverre Loveid, Cromwell

B.A. '49, Concordia College. Field of Concentration: Curriculum and Instruction.

Virginia Harbo Maurer, Rochester

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

Mary Audrey McCarthy, Minneapolis

B.S. with high honors '60, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

Lynn Orwig McKeown, Monmouth, Ill.

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

Paul Marvin Modell, St. Paul

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

Robert James Nehring, Anoka

B.S. '44, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Mildred Zealand Nelson, Minneapolis

B.S. with distinction '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Boniface Ihewunwa Obichere, Awaka,
Owerri, Nigeria

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

Saburo Ohye, Matsudo, Japan

B.A. '55, M.A. '57, University of Tokyo. Field
of Concentration: Linguistics and Comparative
Philology.

Thomas L. Pahl, Minneapolis

B.A. '58, St. Mary's College. Field of Con-
centration: Political Science.

Donald Wetmore Peterson, Mandan,
N.D.

Ph.B. '50, University of North Dakota. Field
of Concentration: Curriculum and Instruction.

Judith Phillips, Phoenix, Ariz.

B.A. with distinction '60, Stanford University.
Major: Child Psychology. Minor: Psychology.
Thesis: Analytic Conceptual Style and Problem
Solving Behavior Under Noncontingent
Reward.

Jeralyn Jean Plack, Minneapolis

B.S. '59, University of Minnesota. Major:
Physical Education. Minor: Educational Psy-
chology. Thesis: The Relationship of Achieve-
ment in Reading to Achievement in Selected
Motor Skills in Children in Grades One, Three
and Five.

Ferdinand Joseph Plourde, Minne-
apolis

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

Frederic Elias Scofield, Newport

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

Michael Roger Sigelman, Minneapolis

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

Abdalla Mahmoud Mohammed Soli-
man, Edfou, Egypt

B.A. '55, Cairo University; Diploma '59, Ain
Shams University. Field of Concentration:
Educational Psychology.

M. Susan Miners Sorenson, Biwabik

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

John Raymond Sorteberg, St. Paul

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

S. Michael Suplick, Minneapolis

B.S. '61, University of Minnesota. Field of
Concentration: History.

Diann Louise Christensen Surbrook,
Minneapolis

B.S. with distinction '55, University of Minne-
sota. Field of Concentration: Curriculum and
Instruction.

Charles Ludwig Swanum, Minne-
apolis

B.B.A. '56, B.S. '57, University of Minnesota.
Field of Concentration: Educational Psychol-
ogy.

Rasmus Jon Tallaksen, Kristiansand,
S. Norway

B.S. '62, University of Minnesota. Major: Eco-
nomics. Minor: Business Administration. The-
sis: Income Taxes and Historical Cost De-
preciation.

Alice Roberta Thompson, Pepin, Wis.

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

Richard Vernon Vogel, Parsons, Kan.

B.A. '57, Seattle Pacific College. Field of
Concentration: Educational Psychology.

James Kermit Wego, Bloomington

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

Herbert Raymond Wilms, Minne-
apolis

B.Sc. in Educ. '53, University of Nebraska.
Major: Speech Pathology. Minor: Educational
Psychology. Thesis: An Explorative Study of
the Relationships Between Nonfluencies and
Selected Factors of Speech.

Gertrude Kuo-yu Wu, Taiwan, China

B.A. '62, National Taiwan University (China).
Field of Concentration: Library Science.

Master of Arts in Public Administration

Charles Ohiri Chikeka, Emii-Owerri,
Nigeria

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

Master of Business Administration

Ahmet Demir Arsan, Istanbul, Turkey
B.A. '61, Middle East Technical University
(Turkey). Field of Concentration: Business
Administration.

Valdemar John Olson, Moorhead
B.A. *magna cum laude* '57, Concordia College.
Field of Concentration: Business Administra-
tion.

Wendell George Sprang, New
Brighton

B.A. '56, Huron College. Field of Concen-
tration: Business Administration.

Michael Talbot Steadland, Minne-
apolis

B.B.A. with distinction '55, University of Min-
nesota. Field of Concentration: Business Ad-
ministration.

Master of Fine Arts

MaryEllen Ponsford, Minneapolis

B.F.A. '60, Illinois Wesleyan University.
Major: Art. Minor: History. Thesis: Image and
Presence: Abstract Artists Who Paint the
Figure.

Master of Science

Hosni Ahmad Abou El-Fittouh, Cairo,
Egypt

B.Sc. '60, Ein Shams University (Egypt).
Major: Genetics. Minor: Statistics. Thesis:
Methods of Sampling Moisture Content of
Forage Crops.

Ram Prakash Agarwal, Aligarh, India

B.Com. '57, M.Com. '59, Agra University.
Field of Concentration: Business Administra-
tion.

Lee Kenton Anderson, Edina

B.A. '61, St. Olaf College. Major: Business
Administration. Minor: Sociology. Thesis: The
Effects of Alternatives on the Buying Deci-
sions of the Consumer.

Mahmoud Mahmoud Badr, Minial-
kamd, Egypt

B.Sc. '59, Ein Shams University (Egypt). Field
of Concentration: Agricultural Economics.

Richard Graves Baker, Platteville,
Wis.

B.A. '60, University of Wisconsin. Major:
Geology. Minor: Botany. Thesis: Late-Wiscon-
sin Glacial Geology and Vegetation History of
the Alborn Area, St. Louis County, Minnesota.

Lawrence Ronnei Barsness, Glenwood

B. of Math. with distinction '61, University
of Minnesota. Field of Concentration: Mathe-
matics.

David Fred Bezdicek, Lakefield

B.S. '60, South Dakota State College. Major:
Soil Science. Minor: Agricultural Biochemistry.
Thesis: Zinc Availability of Some Minnesota
Soils.

Irene Roberts Carleton, Minneapolis

B.S. '43, University of Minnesota. Major:
Home Economics. Minor: Education. Thesis:
A Magnesium Balance Study of College Men
Consuming a Controlled Low Protein Diet.

Ching-chiang Chen, Kwangtung,
China

B.S. '56, National Taiwan University. Major: Physics. Minor: Mathematics. Thesis: Matrix Formulation of Classical Vacuum Electrodynamics (Field Equations and Conservation Laws).

(Peter) Yuen San Chen, Pingtung,
Taiwan, China

B.S. in Agric. '56, National Taiwan University (China). Major: Forestry. Minor: Statistics. Thesis: The Effect of Viscosity in Determination of Permeability of Wood to Liquids.

Tu Chen, I-Lan, Taiwan, China

B.Sc. '58, Cheng Kung University (China). Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Low Temperature Aging in the Gold-Iron System.

Dennis George Deischl, Chicago, Ill.

B.S. '61, University of Wisconsin. Major: Geology. Minor: Zoology. Thesis: The Post-cranial Anatomy of Cretaceous Multituberculata Mammals.

Damodar Ramchandra Deshmukh,
India

B.V.Sc. '59, University of Jabalpur. Field of Concentration: Veterinary Bacteriology.

Dorothy Elaine Bachman Downey,
Minneapolis

B.S. with distinction '62, University of Minnesota. Field of Concentration: Public Health.

Sayed Mostafa El-Kandelgy, Cairo,
Egypt

B.Sc.(Agric.) '58, Cairo University. Major: Plant Pathology. Minor: Entomology. Thesis: Mechanical and Insect Transmission of Red Clover Vein-Mosaic Virus.

Ronald Harris Ericson, Winthrop

B.A. with honors '60, Mankato State College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Electrical Conductivity and Seebeck Coefficient of the Lead Tungsten Bronzes.

Donald Graham Fox, Meriden, Conn.

B.E. '59, M.Eng. '60, Yale University. Field of Concentration: Public Health.

Gregory DeGrendleham Greer, St.
Paul

B. of Phys. with distinction '60, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Emulsion Measurements of the Primary Alpha Particle Fluxes Before and During the Large Forbush Decrease of May 11, 1959.

Charles Allen Harris, Minneapolis

B. of Math. with distinction '61, University of Minnesota. Field of Concentration: Mathematics.

Mary Aileen Humphries, Dunedin,
New Zealand

B. in Home Sci. '56, University of Otago (New Zealand). Major: Home Economics. Minor: Statistics. Thesis: Flavor Changes in Frozen Meat Stored at Different Temperatures.

Fuad Hasan Jawad, Baghdad, Iraq

Ph.C. '56, Baghdad University. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Examination of, *Lomatium Nuttali* (A. Gray) for Coumarins with Possible Physiological Activity.

Kota Gopalakrishna Kamath, Kota,
Mysore, India

B.Com. '58, M.Com. '60, Osmania University. Field of Concentration: Business Administration.

Toru Kihara, Kyoto, Japan

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

Kent Newton Maffitt, Sidney, Iowa

B.S. '58, Northwest Missouri State College. Major: Physics. Minor: Mathematics. Thesis: The Velocity of Ordinary Sound in Helium Gas Measured as a Function of Pressure in the Temperature Range 1.8-4.2°K.

Albert Wayne Morgan, Mt. Vernon,
Ill.

B.A. '60, Southern Illinois University. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: The Rearrangement of Hexahydro-5-Keto-1,4-Thiazepine S-Oxide.

Harrison Leon Morton, St. Paul

B.S. '61, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: The Establishment of Wood-Rotting Fungi by Spores and Mycelium.

Debabrata Mukherjee, Calcutta, India
B.Sc.(Agric.) '49, University of Dacca (India).
Field of Concentration: Genetics.

Mary Ruth Parsons, Grand Falls,
Newfoundland, Canada

B.Sc. '56, Acadia University. Major: Home
Economics. Minor: Physiological Chemistry.
Thesis: Observations on Nitrogen Balance in
Young Men Consuming Vegetarian Diets.

Purushottam Somabhai Patel, Karam-
sard, India

B.Sc.(Agric.) '52, M.Sc.(Agric.) '56, Gujarat
University (India). Field of Concentration:
Dairy Industries.

Norman Eugene Pellett, Atlantic,
Iowa

B.S. '58, Iowa State University. Field of Con-
centration: Horticulture.

Louise Ann Perko, Harvey, Ill.

B.A. '62, Northwestern University. Field of
Concentration: Organic Chemistry.

Allen Jay Schacht, Rochester

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

Richard William Schneider, Brainerd

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

Robert Keneth Seemel, Daggett,
Mich.

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

Yousuf Siddiqui, Hyderabad, India

B.Sc. '56, Osmania University. Major: Vet-
erinary Bacteriology. Minor: Public Health.
Thesis: A Study of Salmonella Serotypes Iso-
lated from Animal Feedstuffs and Their Rel-
ative Pathogenicity for Turkeys and Chickens.

Sister M. Francis Regis Dobiesz,
Springfield, Ill.

B.S. '43, De Paul University. Major: Medical
Technology. Minor: Microbiology. Thesis:
Studies on Some Factors Related to Rh₀ (D)
Isoimmunization with Special Emphasis on
the Rh-like (LW) Antigen Content of Hu-
man Erythrocytes.

Arnis Skadulis, St. Paul

B.S. '58, University of Wisconsin. Major: In-
organic Chemistry. Minor: Physical Chemistry.
Thesis: The Lithium Tungsten Bronzes.

Donald Clark Taylor, Lawtons, N.Y.

B.S. with distinction '59, Cornell University.
Field of Concentration: Agricultural Econom-
ics.

Barbara Jean Thorsen, Portland, Ore.

B.A. cum laude '61, University of Minnesota.
Major: Entomology. Minor: Botany. Thesis:
A Study of Heartbeat Reversal in *Galleria
Mellonella* L.

Anthony Robert Torris, Jr., Latrobe,
Pa.

B.S. '58, Pennsylvania State University. Field
of Concentration: Public Health.

Gurdial Singh Uppal, Chandigarh,
India

B.A. '59, Punjab University (India). Field
of Concentration: Biostatistics.

Bruce David Vannelli, St. Paul

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

Richard Douglas Weltzin, Minne-
apolis

B.S. with distinction '59, University of Minne-
sota. Major: Metallurgical Engineering. Minor:
Physical Chemistry. Thesis: Defect Interac-
tions and Lithium Precipitation in German-
ium.

Patricia Ann Torske Wirth, Pine River

B.A. magna cum laude '62, University of Min-
nesota. Field of Concentration: Genetics.

Jack Leslie Wood, Minnetonka

B.S. with distinction '61, University of Min-
nesota. Major: Mechanics and Materials.
Minor: Mathematics. Thesis: Determination
of Material Damping Properties Using the
Pin-Free Mode of Vibration.

Tong-chuang Wu, Yunlin, Taiwan,
China

B.S. in Agric. '57, Taiwan Provincial College
of Agriculture (China). Field of Concen-
tration: Agricultural Economics.

Georgiana Pei-Fang Young, Memphis,
Tenn.

B.S. '59, University of Illinois. Major: Micro-
biology. Minor: Physiological Chemistry. The-
sis: Study of Tissue Antigen After Influenza
Virus Infection.

Master of Science in Aeronautical Engineering

Rodney Orval Bailey, Lakefield

B.S. '61, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Analytical and Experimental Investigation of Sensitivity to Mach Number of the Mass Flow and Flow Field Properties of the Supersonic Guide Surface Parachute.

William Kenneth Lockman, St. Paul

B.S. with distinction '60, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Analysis of an Inflating Subsonic Reefed Parachute with Experimental Mass Flow Study.

Master of Science in Chemical Engineering

Dae Hyun Cho, Seoul, Korea

B.S. in Eng. '61, Seoul National University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Commentary on Heat and Mass Transfer in Boundary Layers; Review and Extension of Approximate Methods.

Richard Arthur Hartert, St. Louis
Park

B.S. '61, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: The Effect of Surface Active Agents on the Rate of Photosynthesis in Whole Algal Cells.

Master of Science in Civil Engineering

Xavier Alvarez-Calderon, Lima, Peru

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

Kenneth Henry Nass, Blakeley

B.C.E. '60, University of Minnesota. Field of Concentration: Civil Engineering.

Harold Wayne Coleman, Bassett, Va.

B.S.C.E. '61, West Virginia University. Major: Civil Engineering. Minor: Mathematics. Thesis: Interference Effects Between Transverse Cylindrical Configurations in Open-Channel Flow.

Nachiappan Shanmugam, Vethiyur,
India

B.E.(Civil) (Hons.) '55, University of Madras (India). Field of Concentration: Civil Engineering.

Jarnay Lekavanich, Bangkok, Thailand

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

Young-Tsun Shen, Tou-Nan, Taiwan,
China

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

Ho-Nien Liu, Changsha, China

B.S. in Agric. '57, National Taiwan University (China). Field of Concentration: Civil Engineering.

Thakoredas Dahyabhai Sunderwala,
Surat, India

B.E.(Civil) '59, Gujarat University (India). Field of Concentration: Civil Engineering.

Taweesak Mahasandana, Bangkok,
Thailand

B. of Eng. '58, Chulalongkorn University (Thailand). Field of Concentration: Civil Engineering.

Master of Science in Dentistry

**Jack Leroy Brinkman, Kalispell,
Mont.**

B.S. '57, D.D.S. '59, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis:
Subcutaneous Transplantation, Maturation and
Fate of the Fetal Mouse Chondrocranium.

**Richard Anthony O'Day, Sacramento,
Calif.**

B.S. '54, University of Santa Clara; D.D.S.
'58, College of Physicians and Surgeons.
Major: Dentistry. Minor: Pathology. Thesis:
Primary Soft Tissue Sarcomas of the Oral
Cavity.

Merrill Wisner Packer, Minneapolis

B.S. with distinction '59, D.D.S. '59, Uni-
versity of Minnesota. Major: Dentistry. Minor:
Anatomy. Thesis: Implants in Surgical Perio-
dental Pockets in Dogs.

Master of Science in Electrical Engineering

**Hilding Aurelius Bjorklund, Jr., Grand
Marais**

B.S. with distinction '61, University of Minne-
sota. Major: Electrical Engineering. Minor:
Mathematics. Thesis: Maximization of Signal-
to-Noise Ratio in the Detection of an Acoustic
Signal in Turbulent Airflow.

John Edgecumbe, Minneapolis

B.S. with high distinction '62, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: An Investigation
of Sputter-Deposited Thin Film Hard Super-
conductors.

Robert Duane Harder, Butterfield

B.S. with high distinction '62, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Semiconducting
Properties of Bulk Sodium Antimonide.

Rodney Joseph Soukup, Montgomery

B.S. with high distinction '61, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Thickness De-
pendence of Properties of the Oxide Cathode.

**Theodore Joseph Szczech, Minne-
apolis**

B.S. with distinction '61, University of Minne-
sota. Major: Electrical Engineering. Minor:
Mathematics. Thesis: Thermionic Emission
from BaS and (BaSr)S Cathodes.

Roland Everette Weber, Lakefield

B.S. with high distinction '62, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Vacuum Ultra-
violet Absorption of Point Defects in Mag-
nesium Oxide.

Master of Science in Industrial Engineering

**Elsaid Abdel Ghani Imam Ashour,
Mansourah, Egypt**

Diploma '55, Technical University of Munich
(Germany). Field of Concentration: Industrial
Engineering.

**Stanley Charles Johnson, Minnetonka
Beach**

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

**Abdel-Salam Aly Selim, Alexandria,
Egypt**

B.S.M.E. '60, Alexandria University (Egypt).
Field of Concentration: Industrial Engineer-
ing.

Master of Science in Mechanical Engineering

Edwin Albert Brown, Anoka

B.S. with distinction '61, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Velocity Measurements in Engine Intake Air Flow.

Jerry Dale Hinderman, Minneapolis

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

Gerald Albert Kane, Minneapolis

B.M.E. '57, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: An Experimental Investigation of Heat-Transfer in Liquid Mercury with Turbulent Fully Developed Tube Flow.

Kanury Anjaneya Murty, Kavutaram, India

B. of Eng. (Hons.) '61, Andhra University (India). Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Study of Transient Heat and Mass Transfer in Pyrolysing Cellulose.

Kenneth Eric Torrance, Minneapolis

B.S. with high distinction '61, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Monochromatic Directional Distribution of Reflected Thermal Radiation from Roughened Dielectric Surfaces.

Daniel John Wanous, Owatonna

B. of Aero. Eng. with distinction '61, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Heat Transfer and Skin Friction for Longitudinal Flow Over a Cylinder with Surface Mass Transfer.

Master of Science in Medicine

Randolph Chandler Blodgett, Jr.,
Bloomfield, N.J.

B.S. '55, University of New Hampshire; M.D. '59, University of Vermont. Major: Medicine. Minor: Hematology. Thesis: A Study of Proteins Which Coat Erythrocytes in Rheumatoid Arthritis and Acquired Hemolytic Anemia.

Sumner Edward Moulton, Portland,
Me.

B.A. '52, Dartmouth University; M.D. '55, McGill University. Major: Medicine. Minor: Physiology. Thesis: The Use of Mercury²⁰³-Chlormerodrin in Renal Scans.

Yutaka Yoshida, Hirosaki, Japan

B.A. '55, Cornell College; M.D. '57, University of Hirosaki. Major: Medicine. Minor: Pathology. Thesis: Plasma Thromboplastin Antecedent (PTA) Deficiency: A Clinical and Laboratory Study.

Master of Science in Mineral Engineering

Mahavir Umraolal Agrawal, Nagpur,
India

B.Sc. '59, Nagpur University; Diploma '62, Camborne School of Metalliferous Mining. Major: Mineral Engineering. Minor: Physical Chemistry. Thesis: Biogeochemical Investigation in a Swamp Environment.

Arthur Edward Anderson, Minneapolis

B.Min.E. '61, University of Minnesota. Major: Mineral Engineering. Minor: Business Administration. Thesis: An Economic Appraisal of the Direct Reduction of Unmarketable Minnesota Iron Ores.

Master of Science in Obstetrics and Gynecology

John Joseph Malloy, Kitchener, Ontario, Canada

M.D. '57, University of Ottawa. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Papillary Tumors of the Ovary.

John Walter Warren, Minneapolis

B.S. '50, Gonzaga University; M.D. '54, Creighton University. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: A Special Staining Technique Applied to the Uterine Cervix—An Attempt to Define Basement Membrane and Distinguish in Situ and Early Invasive Squamous Cell Carcinoma.

Master of Science in Surgery

Vincent Thomas Caldarola, San Antonio, Tex.

B.S. '51, Long Island University; M.D. '55, Creighton University. Major: Surgery. Minor: Pathology. Thesis: Benign Tumor and Tumor-like Conditions of the Tracheobronchial Tree.

William Ian Michael Goodrick, Lynnwood, Wash.

M.B., Ch.B. '57, University of Liverpool. Major: Surgery. Minor: Pathology. Thesis: Islet Cell Tumors Associated with Peptic Ulceration.

Picard J. Marceau, Quebec City, Quebec, Canada

M.D. '58, Laval University. Major: Surgery. Minor: Pathology. Thesis: Lesions of the Colon Secondary to Regional Enteritis.

Doctor of Philosophy

Howard Peter Anderson, Duluth

B.B.A. with distinction '55, M.A. '60, University of Minnesota. Major: English. Minor: French. Thesis: Tristram Shandy: A History of the Human Mind. Major Advisers: Profs. S. H. Monk and Franz Montgomery.

Robert Newton Anderson, Calgary, Alberta, Canada

B.Ed. with distinction '52, B.A. '49, University of Saskatchewan; M.A. '58, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: The Role of Government in Canadian Education: An Analysis of Bureaucratic Structure. Major Adviser: Prof. R. H. Beck.

Richard Douglas Archer, Melbourne, Australia

B.S. '45, University of Melbourne; B.Eng. '50, University of Sydney; M.S. in A.E. '52, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Inviscid Supersonic and Hypersonic Flow Around an Elliptical Nose. Major Advisers: Profs. Rudolf Hermann and W. H. Warner.

Harry William Baggett, Jr., Berkeley, Calif.

B.A. '51, Chico State College; M.A. '57, San Francisco State College. Major: Education. Minor: Business Administration. Thesis: The Validity of a Measure of the Difficulty of Gregg Shorthand Dictation Materials. Major Adviser: Prof. R. G. Price.

Roger Allen Ball, Eldora, Iowa

D.V.M. '54, Iowa State University. Major: Veterinary Pathology. Minor: Physiological Chemistry. Thesis: A Study of Dissecting Aneurysm in the Turkey. Major Adviser: Prof. J. H. Sautter.

Philip Monroe Becker, Falls Church, Va.

B.S. '58, University of California. Major: Chemical Engineering. Minor: Mathematics. Thesis: Double Excitation of Helium by Electronic Impact. Major Adviser: Prof. J. S. Dahler.

Delwin Duane Cahoon, Sauk Rapids
B.A. '56, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Comparison of the Efficacy of Verbal Reinforcement Applied in Group or Individual Interviews in the Shaping and Transfer of Verbal Behavior. Major Adviser: Prof. L. H. Lofquist.

Richard Frederick Carlson, Alhambra, Calif.

B.S. '57, University of Redlands. Major: Physics. Minor: Mathematics. Thesis: Proton Disintegration of the Deuteron. Major Adviser: Prof. J. H. Williams.

Stephen John Carroll, Jr., Boston, Mass.

B.S. '57, University of California, Los Angeles; M.A. '59, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: The Relationship of Various Personal and Biographical Characteristics to Recruiting Decisions at the Entry Level of Management. Major Adviser: Prof. H. G. Heneman.

Martin Klock Christiansen, Slayton

B.S. '50, M.S. '56, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of Labor Costs on Home Delivery Milk Routes in the Twin Cities Market. Major Adviser: Prof. E. F. Koller.

Arnold Evert Dahlke, Milwaukee, Wis.

B.A. '59, M.A. '60, University of Nevada. Major: Psychology. Minor: Educational Psychology. Thesis: The Effects of Reinforcement and Punishment on Attitude Change. Major Adviser: Prof. Ben Willerman.

William Matthews Dreier, Jr., Cleveland, Ohio

B.S. '59, M.S. '60, University of Wisconsin. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: An Analysis of Some Problems in Two-Phase Breakup and Coalescence. Major Adviser: Prof. W. E. Ranz.

Charles Gillilan Eakin, Pittsburgh, Pa.

B.M. '50, Manhattan School of Music; M.F.A. in Music '55, Carnegie Institute of Technology. Major: Music. Minor: Art. Thesis: Symphony in C. Major Adviser: Prof. Paul Fetler.

Denna Steingerdur Ellingston, Minneapolis

B.A. '49, Barnard College. Major: Comparative Literature. Minor: French. Thesis: The Atreidae; A Study of the Reinterpretation of the Myths by Racine, Goethe, Hofmannsthal, and Giraudoux. Major Adviser: Prof. J. D. Hurrell.

Theora Cooper England, Orange City, Iowa

B.A. '25, Simpson College; M.A. '52, University of Minnesota. Major: Speech and Theatre Arts. Minor: English. Thesis: An Investigation of the Educational Theatre Programs in the Liberal Arts Colleges Sponsored by the Reformed Church in America. Major Adviser: Prof. K. L. Graham.

Duane Gordon Erickson, Ellsworth, Wis.

B.A. *cum laude* '53, M.S. '57, University of Minnesota. Major: Zoology. Minor: Agricultural Biochemistry. Thesis: Effects of Gamma Irradiation of Cercariae on the Host-Parasite Relationships of *Schistosoma mansoni*. Major Adviser: Prof. F. G. Wallace.

Henry Charles Finlayson, Winnipeg, Manitoba, Canada

B.S. '52, M.S. '54, University of Alberta. Major: Mathematics. Minor: Statistics. Thesis: A Generalization of Cameron's "A Simpson's Rule" for the Numerical Evaluation of Wiener's Integrals in Function Space. Major Adviser: Prof. R. H. Cameron.

Nels Walter Forde, Lincoln, Neb.

B.A. *magna cum laude* '50, Luther College; M.A. '58, University of Minnesota. Major: History. Minor: Classics. Thesis: The Sumerian Dam-Kár-E-Ne of the Third Ur Dynasty. Major Adviser: Prof. T. B. Jones.

John Ellsworth Free, Philadelphia, Pa.

B.S. in Educ. '39, M.S. in Educ. '42, University of Pennsylvania. Major: Educational Psychology. Minor: Education. Thesis: An Experiment to Show the Possible Contribution of Social Group Work to Counseling in Improving the Adjustment of Deviant High School Students. Major Adviser: Prof. C. G. Wrenn.

Erhard Martin Friedrichsmeyer, Milwaukee, Wis.

B.A. *cum laude* '58, Lakeland College; M.A. '59, University of Wisconsin. Major: German. Minor: Linguistics and Comparative Philology. Thesis: Erwartung Und Erinnerung in Den Werken Arthur Schnitzlers. Major Adviser: Prof. Herman Ramras.

Elmer George, Jr., Kanosh, Utah

B.S. '54, M.S. '56, Utah State University. Major: Dairy Husbandry. Minor: Agricultural Biochemistry. Thesis: Presence and Growth of Staphylococci in Milk and Condensed Milks. Major Adviser: Prof. J. C. Olson, Jr.

Thomas Michael Grace, Beaver Dam, Wis.

B.S. with honors '60, University of Wisconsin. Major: Chemical Engineering. Minor: Physics. Thesis: The Mechanism of Burnout in Initially Sub-Cooled Forced Convective Systems. Major Adviser: Prof. H. S. Isbin.

Paul Moody Gustafson, St. Paul

B.S. '46, Northwestern University. Major: Sociology. Minor: Psychology. Thesis: Structural Elements and Organizational Behavior: A Study of Ten Protestant Denominations in Minnesota. Major Adviser: Prof. R. G. Francis.

George A. Haven, Jr., Chatfield

B.A. '55, St. Mary's University; M.A. '61, Texas Christian University. Major: Psychology. Minor: Educational Psychology. Thesis: Creative Thought, Productivity, and the Self-Concept. Major Adviser: Prof. Kenneth MacCorquodale.

Emlert Julius Hendrickson, Thief River Falls

B.S. '50, St. Cloud State College; M.A. '54, University of North Dakota. Major: History. Minor: Education. Thesis: The New Venezuelan Controversy: The Relations of the United States and Venezuela, 1904 to 1914. Major Adviser: Prof. W. D. Beatty.

Jean Corey Holroyd, Silver Spring, Md.

B.A. '58, M.A. '60, University of Maryland. Major: Psychology. Minor: Psychiatry. Thesis: Neurological Implications of WISC Verbal-Performance Discrepancies in a Psychiatric Setting. Major Adviser: Prof. S. R. Hathaway.

Richard Garrett Holroyd, Rochester

B.A. '58, M.A. '59, University of Maryland. Major: Psychology. Minor: Biostatistics. Thesis: Prediction of Defensive Paranoid Schizophrenics Using the MMPI. Major Adviser: Prof. P. E. Meehl.

Philip Jitsuo Ito, Kapaa, Kauai, Hawaii

B.S. '58, University of Hawaii. Major: Horticulture. Minor: Genetics. Thesis: Combining Ability of Specific Crosses in Asparagus (*Asparagus Officinalis* L. Var. *Altilis*) Using a Perfect Flowered Male Parent. Major Adviser: Prof. T. M. Currence.

Noel Iverson, New Ulm

B.A. '58, M.A. '62, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: Germania, U.S.A.: The Dynamics of Change of an Ethnic Community into a Status Community. Major Adviser: Prof. Don Martindale.

Dasharath Savala Jadhav, Poona, India

B.Sc. '55, Bombay Veterinary College; M.S. '62, University of Minnesota. Major: Dairy Husbandry. Minor: Veterinary Bacteriology. Thesis: Studies on Raising Holstein Males for Meat and an Associated Study Regarding Their Feedlot Activities. Major Adviser: Prof. J. D. Donker.

James Fletcher Kerfoot, White Bear Lake

B.S. '59, M.A. '60, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Relationship of Selected Auditory and Visual Reading Readiness Measures to First Grade Reading Achievement and Second Grade Reading and Spelling Achievement. Major Adviser: Prof. T. W. Clymer.

Ke Chung Kim, Seoul, Korea

B.S. '56, Seoul National University; M.A. '59, Montana State University. Major: Entomology. Minors: Biostatistics and Zoology. Thesis: A Revision of the Genus *Sphaerocera* Latreille (Sphaeroceridae, Diptera) of the Nearctic Region. Major Adviser: Prof. E. F. Cook.

Charles Arthur Laible, Rock City, Ill.

B.S. '58, M.S. '59, University of Illinois. Major: Genetics. Minor: Soil Science. Thesis: Inheritance of Ear Number in Four *Zea Mays* Genotypes. Major Adviser: Prof. E. H. Rinke.

Hope Marilyn Halenbeck Lea, White Bear Lake

B.S. with high distinction '49, M.A. '51, University of Minnesota. Major: Education. Minor: History. Thesis: A Study of Some Characteristics of the Variability of Teacher Activities in the Social Studies and Pupil Response and Achievement. Major Adviser: Prof. J. R. Curtin.

Robert Edward Lee, Minneapolis

B.A. '51, M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: An Investigation of Relationships Between Patient Self Perception and Hospital Ward Behavior. Major Adviser: Prof. C. G. Wrenn.

Huk Yong Ma, Seoul, Korea

M.D. '35, Seoul National University; M.S. '61, University of Minnesota. Major: Epidemiology. Minor: Biostatistics. Thesis: Some Epidemiologic Aspects of Essential Hypertension (A Study of Primary Hypertension as a Clinical Entity and Its Relation to Genetic and Environmental Variables). Major Adviser: Dr. L. M. Schuman.

John Henry McAndrews, Robbinsdale

B.S. '57, College of St. Thomas; M.S. '59, University of Minnesota. Major: Botany. Minor: Geology. Thesis: Postglacial Vegetation History of the Prairie-Forest Transition of Northwestern Minnesota. Major Adviser: Prof. D. B. Lawrence.

Walter Louis Melnik, St. Paul

B.S. with distinction '51, M.S. in A.E. '53, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Supersonic and Hypersonic Flow of an Ideal Gas About Elliptic Cones by the Method of Integral Relations. Major Advisers: Profs. Rudolf Hermann and W. T. Warner.

Samuel Edward Moyer, Hershey, Pa.

B.S. '56, Pennsylvania State University; M.S. '59, University of New Hampshire. Major: Genetics. Minor: Zoology. Thesis: Selection for Modification of Recombination Frequency of Linked Genes. Major Adviser: Prof. R. E. Comstock.

Leonard Richard Murrell, Hamilton, Ontario, Canada

B.Sc. '57, M.Sc. '58, McMaster University. Major: Anatomy. Minor: Zoology. Thesis: Endocrine Pancreas of the Fetal Rat in Organ Culture: Culture Methods, Some Aspects of Histogenesis, Insulin Synthesis and Release, and the Incorporation of Tritiated Leucine into Tissue Protein Fractions. Major Adviser: Dr. Arnold Lazarow.

Boaz Natzitz, Tel-Aviv, Israel

B.A. '60, Hebrew University. Major: Mathematics. Minor: Physics. Thesis: Tensor Products of Group Algebras. Major Adviser: Prof. B. R. Gelbaum.

Paul E. R. Nordquist, Jr., Arlington, Va.

B.S. with distinction '58, George Washington University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: The Pfeiffer Effect: The Optical Rotation of Solutions of Metal Complexes with Resolving Agents. Major Adviser: Prof. R. C. Brasted.

James LeRoy Olsen, Robbinsdale

B.S. in Pharm. '54, University of Minnesota. Major: Pharmaceutical Technology. Minor: Industrial Engineering. Thesis: Segregation Kinetics of Particulate Solids. Major Adviser: Prof. E. G. Rippie.

James Bernard Peter, Omaha, Neb.

B.S. *magna cum laude* '54, Creighton University; M.D. '58, St. Louis University. Major: Physiological Chemistry. Minor: Organic Chemistry. Thesis: Studies of Bound Phosphohistidine and Its Possible Precursors in Mitochondria and in Soluble Enzyme Systems. Major Adviser: Dr. P. D. Boyer.

Ambrose Harry Rajamannan, Jaffna, Ceylon

G.V.Sc. '55, Bengal Veterinary College; M.S. '62, University of Minnesota. Major: Dairy Husbandry. Minor: Veterinary Anatomy. Thesis: The Effect of Various Egg Yolk Fractions on Fertility of Bovine Spermatozoa. Major Adviser: Prof. E. F. Graham.

Peretz Ram, Jerusalem, Israel

M.A. '54, Hebrew University. Major: Agricultural Economics. Minor: Economics. Thesis: A Productivity Analysis of South-Central and Red River Valley Farms in Minnesota 1960. Major Adviser: Prof. H. R. Jensen.

Redlarepaka Ramchandra Reddy, Hyderabad, India

B.V.Sc. '56, Osmania University; M.Sc. '60, University of Nebraska. Major: Dairy Husbandry. Minor: Veterinary Bacteriology. Thesis: The Effects of Changing the Interval Between Nursings and the Number of Young in Litters on the Milk Production of Albino Rats. Major Adviser: Prof. J. D. Donker.

Ira Edwin Robinson, Athens, Ga.

B.A. *cum laude* '49, Davis and Elkins College; M.A. '52, Ohio University. Major: Sociology. Minor: Psychology. Thesis: Basic and Improving Inventions in Industry: A Study of the Research Scientists of Minneapolis-Honeywell. Major Adviser: Prof. Don Martindale.

Wallace Edward Rogers, Providence, R.I.

B.S. '57, University of Rhode Island; M.S. '59, North Carolina State College. Major: Plant Pathology. Minor: Botany. Thesis: The Effect of Micro-Environment on Germination, Infection and Sporulation of *Septoria Passerinii* on Barley, *Hordeum Vulgare*. Major Adviser: Prof. M. F. Kernkamp.

Jack Cole Ross, Chicago, Ill.

B.S. '49, University of California; M.S. '54, George Williams College. Major: Sociology. Minor: Political Science. Thesis: Traditionalism and Charisma in a Religious Group: Membership Careers and Role Contingencies of Quakers. Major Adviser: Prof. Don Martindale.

Lawrence Wayne Rust, Jr., St. Paul

B.S. with distinction '59, M.S. in A.E. '61, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Two Higher Order Corrections for the Theory of Incompressible, Axially Symmetric, Turbulent Wakes. Major Advisers: Profs. H. G. Heinrich and W. C. Meecham.

Rajendra Prasad Singh, Lucknow, India

B.S. '56, B.V.Sc.&A.H. '58, Agra University; M.S. '62, University of Minnesota. Major: Veterinary Medicine. Minor: Microbiology. Thesis: Microbiological Survey of Poultry Houses and Hatcheries—The Isolation, Characterization and Pathogenicity of the More Commonly Found Bacteria. Major Adviser: Prof. H. H. Hoyt.

Anita Pearl Smith, Toledo, Ohio

B.A. '44, DePauw University; M.A. '47, Syracuse University. Major: Educational Psychology. Minor: Psychology. Thesis: Differential Personality Characteristics Associated with Participation in High School Student Activities. Major Adviser: Prof. C. G. Wrenn.

Lloyd Pershing Selthun Spangelo, Ottawa, Ontario, Canada

B.S. in Agric. '44, M.S. '48, University of Manitoba. Major: Horticulture. Minor: Genetics. Thesis: Combining Ability in Strawberries. Major Adviser: Prof. T. M. Currence.

Wai Yin Syn, Singapore, Malaysia

B.S. '59, M.A. '60, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Progress of Education in Malaya During the Post War Period, 1947-1960. Major Adviser: Prof. G. I. Swanson.

Daniel Webster Tuttle, Jr., Quincy, Ill.

B.A. '45, Illinois College; M.A.P.A. '47, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: National Political Convention Delegates, 1944-1952: Their Characteristics, Qualifications, and Opinions. Major Adviser: Prof. C. H. Backstrom.

Roger Charles Vergin, Brainerd

B.B.A. '59, M.S. '62, University of Minnesota. Major: Business Administration. Minor: Industrial Engineering. Thesis: Scheduling of Aggregate Production, Employment, and Inventory Levels for Manufacturing Firms with Seasonal Demand. Major Adviser: Prof. R. K. Gaumnitz.

Joan Margreth Weinmann, East Chain

B.S. *summa cum laude* '59, Hamline University. Major: Organic Chemistry. Minor: Chemistry. Thesis: Synthesis and Reactions of 3-Vinylindoles, and Reactions of Indoles with Acylating Agents. Major Adviser: Prof. W. E. Noland.

Clifton Elwood Wilson, Tucson, Ariz.

B.S. with honors '50, M.A. '53, University of Utah. Major: Political Science. Minor: Journalism. Thesis: Diplomatic Privileges and Immunities in Recent International Practice. Major Adviser: Prof. C. H. McLaughlin.

Desborough Yesberg, Brisbane, Australia

B.Sc. '55, M.Sc. '56, University of Queensland; M.A.Sc. '59, University of Toronto. Major: Chemical Engineering. Minor: Mathematics. Thesis: Studies in the Design and Optimization of Cocurrent and Countercurrent Chemical Reactors. Major Adviser: Prof. Rutherford Aris.

Ronald Joseph Zeman, Berwyn, Ill.

B.S. '60, Northwestern University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Continuous Polymerization Models. Major Adviser: Prof. N. R. Amundson.

Doctor of Philosophy in Medicine

Leslie Jack Schoenfield, Rochester

B.A. '52, M.D. '56, Temple University.
Major: Medicine. Minor: Physiology. Thesis:
Studies on Bilirubin Conjugation. Major Ad-
viser: Dr. H. R. Butt.

Academic Costume

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

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

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

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

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

(In the order of march)

General Extension Division	orange and drab
General College	crimson and white
College of Liberal Arts	white
University College	old gold and white
Institute of Technology	orange

College of Agriculture, Forestry, and Home Economics	maize
College of Education	light blue
School of Business Administration	drab
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*_____

MARCH, 1964

- The members of the graduating class, their families and friends, are invited to attend the President's Reception immediately after the commencement exercises. The reception will be held in the main ballroom of the Coffman Memorial Union.
- Assisting in the Reception are members of the Union Board of Governors, and members of the following honorary societies: Arrowhead, Chimes, Grey Friars, Innocents, Iron Wedge, Mortar Board, Silver Spur, and Phoenix.
- Refreshments will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.



UNIVERSITY OF MINNESOTA

June Commencement, 1964

SATURDAY EVENING, JUNE 13, 8:00 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 Gerald W. Heancy, Duluth

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable 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 thirteenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded nearly 171,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 34,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

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

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

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

sible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of firends 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. Chicifly because of financial difficulties, only one-half of the state's high school graduates of marked ability enter any college or university. Friends and supporters of the University, recognizing the need to alleviate this situation, continuously try to increase the number of scholarships and the amount of money available for scholarship assistance.

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

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

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

The summary financial statement of 1962-63 showed that the University's current income amounted to \$105,901,883.19 and the current expenditures, transfers, and adjustments amounted to \$105,901,163.82. Of the total received, \$10,262,589.66 came from student tuition and fees; \$13,751,922.36 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,719,876.49 from intercollegiate athletics; \$16,056,223.10 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$5,443,465.52 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$19,314,903.22 came from the federal government for instruction, research, and agricultural extension. The state provided \$36,257,644.42 or 34.2 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 \$6,184,253.

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

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

Order of Events*

ASSEMBLING OF THE AUDIENCE: As degree candidates and their families and friends reach the Minneapolis Campus of the University this evening from 7:00 to 7:30 p.m., they will hear the Frances Miller Brown Memorial Bells played from Northrop Memorial Auditorium by Mr. Philip Brunelle, Ed '65, University Carillonneur. No seats for the Commencement Exercises in Memorial Stadium are reserved. All open entrances on the east and south sides of the Stadium may be used.

PRELUDE CONCERT: From 7:30 to 8:00 p.m., the University Concert and Symphony Bands, conducted by Assistant Professor Frank P. A. Bencriscutto, D.M.A., Bandmaster, will play:

- Barnum and Bailey March* - - - - - Karl King
- Exodus* - - - - - Ernest Gold
- Mexican Rhapsody* - - - - - Robert McBride
- The Blue and the Gray* - - - - - arr. by Clare Grundman

PROCESSION: At 8:00 p.m. the procession will enter the Stadium, led by the Mace Bearer, Professor William A. McDonald, Ph.D., College of Liberal Arts, Faculty marshal. The procession includes candidates for degrees, marching by colleges, the faculty, distinguished guests, and the Regents. The line of march for degree candidates is as follows: Department of Military Science; Department of Naval Science; Department of Air Science; 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 will be Professor McDonald; Professor Roland H. Abraham, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Professor James H. Matthews, M.D., College of Medical Sciences; Professor Frederick E. Berger, B.A., General Extension Division. During the procession the Bands will play:

- Crown Imperial* - - - - - William Walton

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

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

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

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

INVOCATION (the audience still standing): The Reverend Raymond Moor-
man, Adviser to Catholic students and staff members on the St. Paul Campus
of the University.

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

CONFERRING OF ROTC CERTIFICATES: Vice President Shepherd will
introduce Lt. Colonel Robert J. Elliot, USA, Professor of Military Science;
Captain Edward M. Morgan, USN, Professor of Naval Science; and Major
Frederick D. Stockdale, USAF, Professor of Air Science, who will present the
candidates for commissions in their respective branches of the Armed Services.
The certificates of ROTC completion will be presented by President Wilson.

CONFERRING OF DEGREES: Vice President William G. Shepherd,
Ph.D., Academic Administration, will introduce the deans of the several col-
leges or their representatives who will present to President Wilson the candi-
dates for certificates and degrees. They are, in order of their introduction: Dean
Willard L. Thompson, Ph.D., General Extension Division; Dean Horace T.
Morse, Ph.D., General College; Dean E. W. Ziebarth, Ph.D., College of
Liberal Arts; Professor Donald R. Torbert, Ph.D., University College; Dean
Athelstan Spilhaus, D.Sc., Institute of Technology; Dean Sherwood O. Berg,
Ph.D., Institute of Agriculture; Associate Dean Marcia Edwards, Ph.D., Col-
lege of Education; Dean Paul V. Grambsch, D.B.A., School of Business Admin-
istration; Dean George P. Hager, Ph.D., College of Pharmacy; Dean William J.
Lockhart, S.J.D., Law School; Dean William T. S. Thorpe, D.V.M., College
of Veterinary Medicine; Acting Dean Mellor R. Holland, D.D.S., School of
Dentistry; Dean Robert B. Howard, M.D., College of Medical Sciences; Dean
Bryce L. Crawford, Jr., Ph.D., Graduate School.

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

PRESENTATION OF DIPLOMAS: With Dean of Students Edmund G. Williamson, Ph.D., presiding, all members of the June graduating class will move to the stage to receive their diplomas. Assisting the deans of the several colleges or their representatives in the presentation of diplomas are Associate Dean Donald Z. Woods, Ph.D., General Extension Division; Associate Dean Alfred L. Vaughan, Ph.D., General College; Assistant Dean Roger B. Page, Ph.D., College of Liberal Arts; Professor James J. Jenkins, Ph.D., University College; Professor Walter M. Lauer, Ph.D., Institute of Technology; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Professor William H. Edson, Ph.D., College of Education; Professor John Neter, Ph.D., School of Business Administration; Associate Dean Charles V. Netz, Ph.D., College of Pharmacy; Assistant Dean John G. O'Brien, LL.B., Law School; Associate Dean Ralph L. Kitchell, D.V.M., College of Veterinary Medicine; Professor James R. Jensen, D.D.S., School of Dentistry; Assistant Dean H. Mead Cavert, M.D., College of Medical Sciences; Assistant Dean John C. Haugland, Ph.D., Graduate School.

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

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

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

AULD LANG SYNE: The Frances Miller Brown Memorial Bells.

(There will be no Recessional)

*Candidates for Commissions*_____

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Adjutant General Corps

David B. Anderson, Barnesville
Lowell R. Gomsrud, Golden Valley
Alan D. Harris, St. Paul

Larry L. Warren, St. Louis Park
Jack J. Wartnick, Minneapolis

Second Lieutenant, Armor

Peter A. Igel, St. Paul

Roland I. Swanson, Richfield

Second Lieutenant, Army Intelligence and Security

Robert L. Abraham, St. Paul
Charles E. Blanchard, Jr., Minneapolis
John A. Boler, Minneapolis

Charles W. Haas II, Minneapolis
Christopher R. Low, Bloomington
Rodney B. Spackman, Fairfield, Idaho

Second Lieutenant, Artillery

David W. Dickinson, Rosemount
Patrick H. O'Brien, International Falls

George H. Tesmer, Jr., Millville

Second Lieutenant, Corps of Engineers

Arthur T. Pfefer, St. Paul

Second Lieutenant, Infantry

Leon T. Hunt, Minneapolis

Second Lieutenant, Medical Service Corps

Larry G. Johnson, Minneapolis

Paul E. Brye, Edina

Second Lieutenant, Ordnance Corps

Willard J. Cecchi, St. Paul

Lenard J. Steinke, Jr., Sleepy Eye

Gary A. Remmen, Minneapolis

Second Lieutenant, Quartermaster Corps

Gary E. Stephens, Minneapolis

Second Lieutenant, Signal Corps

David A. Berkus, St. Paul

Richard S. Talke, Minneapolis

Arthur T. Kvam, Benson

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Dixon J. Anderson, Cottonwood

Eric L. Peterson, Wayland, Wis.

Timothy S. Brady, St. Paul

Robert A. Reineke, Faribault

Dennis G. Draper, Mankato

Charles D. Reite, Minneapolis

David O. Kauppi, Prairie Village, Kan.

Peter K. Rumely, LaPorte, Ind.

Richard G. Lacher, St. Cloud

Allan E. Rypka, Owatonna

Gerald T. Lang, Minneapolis

George M. Spilseth, Kensington

David R. Lartaud, Fair Haven, N.J.

John M. Vanasek, Minneapolis

George M. Lucas, Frankfort, Ind.

Douglas E. Veum, Cyrus

Karl F. Mohns, Minneapolis

Francis A. Walker, Seaside Heights,

Philip R. Monroe, St. Cloud

N.J.

Richard A. Oudal, Minneapolis

Ensign, USNR

Richard G. Eicher, St. Paul

Paul D. Reichenbach, St. Paul

Craig C. Larrivee, Minneapolis

Ronald D. Supalo, Minneapolis

David L. Moulds, Duluth

Ensign, SC, USN

William B. McCowan, Jr., Rumford, R.I.

Ensign, SC, USNR

John "R" Gabrielson, Minneapolis

Second Lieutenant, USMC

James A. Wegge, Somerset, Wis.

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Stuart L. Arey, Jr., Minneapolis

John B. Beaver, Tekamah, Neb.

Philip T. Carr, Excelsior

Russell V. Christiansen, White Bear
Lake

Gerald J. Dittberner, White Bear Lake

Douglas K. Ewing, Minneapolis

William C. Hallberg, Minneapolis

Donald D. Hansen, Minneapolis

Harris E. Heggerston, Walnut Grove

Frederick A. Hill, Northport, N.Y.

Thomas G. Johnson, Hopkins

Thomas P. Kelley, Bloomington

Michael D. McGinty, Wayzata

Dean A. Morss, Minneapolis

Raymond J. Oliverson, Olivia

Aaron N. Petersen, Clarks, Neb.

Noel U. Roehl, Odessa

Gerald R. Taft, Minneapolis

James D. White, St. Paul

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

Accounting Certificate

Jeno Fenczik, St. Paul

Business Administration Certificate

James Joseph McLaughlin, Crystal

Alan Keith Brandon, St. Paul

Engineering Science Certificate

Richard Matthew Biessner, St. Paul
William Algot Erickson, Lakeville

Willard Joseph Iberg, St. Louis, Mo.

Associate in Mortuary Science

Franklin Terrill Adams, B.A., Ames,
Iowa

Richard Harland Anderson, Appleton

Ronald James Anderson, St. Paul

James Leonard Arendt, Bellechester

Sam K. Beaty, Marshalltown, Iowa

Lowell M. Bendorf, Platteville, Wis.

A. Duane Benson, Hatton, N.D.

Benjamin George Benson, St. Paul

James Harold Bradshaw, Minneapolis

Jon Jay Burmeister, Harlan, Iowa

Charles Edward Creps, Eldora, Iowa

Robert William Curtis, Brainerd

Keith Edwin DeJongh, A.A., Rock
Rapids, Iowa

Thomas Harmon Earl, St. Paul

David Bruce Elliott, St. Charles, Ill.

Stephens Herbert Elliott, Jr., B.B.A.,
Augusta, Ga.

C. Merrill Franklin, Jr., Orlando, Fla.

Thomas Shelby Gearhart, Minneapolis

Philip James Gleason, Minneapolis

Edward McCoy Goddard, Jr.,
Reynolds, Ga.

Carlton Albert Gordon, A.A., B.B.A.,
Norfolk, Neb.

Richard Calvin Hammond, Buffalo,
N.Y.

Everton Bradley Harder, Minneapolis

Roger Lawrence Hauge, Minneapolis

Joseph Stevan Hensel, Dickinson,
N.D.

Terry L. Katzung, Albert Lea

John Roger Kluzak, Broadview, Ill.

Eugene Harry William Koepp, Sioux
Falls, S.D.

Terry Ray Lamon, Le Roy

Daniel Richard Lisko, Oakes, N.D.

Robert Edward Malone, A.A., Minne-
apolis

John Francis Mayer, Jr., Austin

Lee Patrick Moeblein, Gilbert

Donald Martin Nelson, Lake Bluff, Ill.
John Dennis O'Halloran, B.A., South
St. Paul
Frederick William Olson, Duluth
Keith Stanley Oltmann, Bristow, Iowa
Wallace Lee Osland, B.A., Preston
Charles Butler Perry, Ashburn, Ga.
Gerald Marvin Pickett, Baudette
Allan Lee Riley, Dell Rapids, S.D.
John Howard Rothfork, Norwood

Irving Sanchez, Jr., B.S., St. Peters-
burg, Fla.
Joseph Paul Szulewski, Jr., Cambridge,
Mass.
Larry John Tillson, A.A., Lexington,
Neb.
Jack Ray Triplett, Rhodes, Iowa
Thomas Franklin Weigel, Napoleon,
N.D.
Tom Allen Wherry, Tecumseh, Neb.

GENERAL COLLEGE

Associate in Arts

Neil Clarence Ahlstrom, Richfield
Richard Bruce Alexander, St. Paul
Thomas Edward Allen, Minneapolis
Vivian Joanne Aungst, Minneapolis
Susan Mary Beam, Minneapolis
Michael Kelley Bechik, St. Paul
Sharon Jean Benscoter, St. Paul
Marlin James Bergendahl, St. Paul
Lynn Elizabeth Bjorklund, Wayzata
Terry Adrienne Bobrow, Claremont,
Calif.
Robert Raymond Brock, Anoka
Bruce Thomas Bronson, St. Paul
Russell Vernard Bryant, Malvern, Ark.
Stanford Russell Carlson, Minneapolis
Estelle Sharon Chemrinow, Minne-
apolis
Dennis Ward Christo, Minneapolis
Gary Louis Como, St. Paul
James Herbert Crivits, Minneapolis
William Charles Crockett, Raleigh,
N.C.
Robert Jon Dahl, St. Louis Park
Richard Harvey DeGolier, Minne-
apolis
Raymond Martin Dehler, Jr., Minne-
apolis
Richard Dolton Deyo, Mahtomedi
Paul Stanley Dietz, Minneapolis
Robert Harold Elander, Jr., St. Louis
Park
Rodney Edward Erickson, Minne-
apolis
Steven Roger Erickson, St. Paul
Edward Norman Ettinger, St. Paul

John Francis Finn III, Minneapolis
Paul Thomas Fox, Minneapolis
Stephen Victor Frank, St. Paul
Diane Mary Frazee, Park Rapids
Barbara Lynne Frishberg, St. Paul
Thomas John Gallatin, St. Paul
James Frederick Garrison, Edina
Larry L. Gauper, Valley City, N.D.
Rose Mary Gerlach, Austin
James Edward Geye, Minneapolis
Judith Ann Haglund, Faribault
Jean Marie Haigh, St. Paul
Patricia Renee Haley, Minneapolis
Judith Kay Harrington, Minneapolis
Roger William Haugen, Minneapolis
Steven Jack Heimbuch, Minneapolis
William John Henricks, St. Paul
Charles William Herdey, Minneapolis
Richard Allan Hess, South St. Paul
Linda Jean Hoover, St. Paul
David Peter Hurth, Minneapolis
Wayne Orville Husby, Robbinsdale
Gordon Fredrick Ilstrup, Jr., Minne-
apolis
John Edward Iverson, Minneapolis
Bruce William Johnson, Minneapolis
Frederick George Johnson, Minne-
apolis
Keith Alan Johnson, Minneapolis
William Francis Kaminski, Minne-
apolis
James Richard Kasid, St. Paul
Donald Earl Keeley, St. Louis Park
Laurence Joseph Kelly, St. Paul
Patricia Jean Kelly, Minneapolis

Arnold James Kimbrel, New Brighton
 Scott Campbell Kirk, Minneapolis
 Robert Thomas Kohlman, St. Paul
 Lorrie Ann Korzenowski, Minneapolis
 Sandra Kay Krohn, Minneapolis
 Kathleen Susan Kubat, St. Paul
 Peter Warren Kustermann, St. Paul
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 David LeRoy Schliep, Red Wing
 Harold Douglas Schmeling, Hutchin-
 son
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 Roger Howard Schnaitter, Hoyt
 Lakes, CUM LAUDE
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 Thomas J. Schnell, Stillwater
 Dagmar Schollenbruch-Altwein,
 Winona
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 apolis, SUMMA CUM LAUDE
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 Donald Kenneth Schule, Circle Pines
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 Pamela Joyce Seach, Minneapolis,
 CUM LAUDE
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 Susan Ellen Segal, Minneapolis
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 John Stuart Setterlund, Pipestone
 Kathryn Jeanne Severn, St. Paul
 Janet Elizabeth Shapiro, St. Louis
 Park
 Elizabeth Gale Albrecht Sharpe, Min-
 neapolis
 Douglas Dean Sherman, Minneapolis
 Kay Diane Jarnig Sherman, Minne-
 apolis
 Tamara Mae Sherman, Aberdeen, S.D.
 Dennis Garfield Sherva, Minneapolis
 Donald Franklin Shiff, Minneapolis
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 Bruce Walter Siewert, St. Louis Park
 Paul Stephen Sigelman, Minneapolis
 Robert J. Silverman, Minneapolis
 Kathleen Maria Siltberg, Minneapolis
 Byron Dean Simonson, A.M.S., Min-
 neapolis

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 Thomas David Simpson, Minneapolis,
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 Dorothy Mae Smith, St. Louis Park
 Linda Maye Smith, Moorhead
 Nadine Susan Smith, Granite Falls
 Roger Percifor Smith, Duluth
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 William Gregory Solvason, Minne-
 apolis
 John Oliver Sonsteng, Minneapolis
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 Linda Kay Stalder, St. Paul
 Karen Louise Stavnes, St. Paul
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 Wis.
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 Dann Reid Stockin, Buffalo, N.Y.
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 S.D.
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 Ronald Dean Supalo, Richfield
 Gustav Rolf Svendsen, Minneapolis,
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 Allan Zelig Swartz, Minneapolis
 James Ernest Sweeney, St. Paul

Mary Frances Sweet, Minneapolis
 John Jerome Swenson, Cold Spring
 Judith Ann Swenson, St. Paul
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 Thomas Dale Tanner, Minneapolis
 Allan Judson Taylor, St. Paul
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 Hibbing
 Susan Dorothy Thompson, Mound
John William Thoreen, Fosston, CUM
 LAUDE
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 Robert Joyce Tibbetts, Minneapolis
 Patricia Ann Tollefson, Minneapolis
 Leland Stanford Tolo, Phoenix, Ariz.
Peter Michael Tomsich, Gilbert,
 MAGNA CUM LAUDE
 Sigurd John Trelstad, Jr., Minneapolis
 Judith Ann Trolander, Minneapolis
 Karen Lee Turnbull, Edina
 Carol May Turnquist, Edina
 Timothy Guyer Tuttle, Eagle River,
 Wis.
James Robert Tweedy, Winona, CUM
 LAUDE
 Fredric L. Utz, Minneapolis
 John Merlin Vanasek, Edina
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 Shirley Marie Vierling, Redwood Falls
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 George Frederic Vogel, Red Wing
 Kenneth Roland Voight, Minneapolis
 Richard Eugene Volkmann, Forest
 Lake
 Denis John Wadley, Minneapolis
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Ralph Eldon Walde, Perham, SUMMA
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 Perry Watts, Lancaster, Pa.
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 Everett Donald Weinstein, St. Paul
Joan Andrea Weisman, Minneapolis,
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 Rochelle Joy Weisman, Minneapolis
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 LAUDE
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Don Wayne Wennberg, Thief River
Falls, CUM LAUDE
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 Thomas Howard West, Minneapolis,
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 Jule Ann Whiting, Rochester
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apolis, MAGNA CUM LAUDE
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 Lake
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William Shael Lapp, St. Louis Park
Gerald Tenzer Laurie, St. Paul, CUM
LAUDE

Barbara Jean Nierengarten, New Ulm
Bruce William Okney, Minneapolis
Daniel Van Vleck Pearson, Bloom-
ington
Neal James Shapiro, St. Paul
Sandra Lee Swenson, Mankato

Bachelor of Science

Jean Linda Burkland, Buffalo
Gail Anne Jensen, Denver, Colo.

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INSTITUTE OF TECHNOLOGY

Certificate in Science

Gary Lee Engstrom, Minneapolis

Bachelor of Science

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WITH DISTINCTION
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WITH DISTINCTION
James Bernard Baeker, St. Paul, WITH
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Michael Harvey Barnes, St. Paul,
WITH DISTINCTION
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Leroy Owen Braun, Minneapolis,
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 Dana Kurt Florman, Duluth
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 Thomas Carlisle Nietz, Owatonna
 Charles Russell Oleson, Grand Rapids
 Dan Ray Preble, Minneapolis
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Bryan Leland Christensen, Savage
Lance Hamilton Daby, Warren

Merlin George Green, Marshall
Charles Arnold Onstad, Spring Grove

Bachelor of Architecture

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Lake
John Charles Gaunt, B.A., Winnipeg,
Manitoba, Canada
Gary Burton Hanson, B.A., New
Richland
Kenton Neil Kerns, B.A., Rolfe, Iowa
Robert Elmer Martinson, B.A., Min-
neapolis
Gundega Mara Ogulis, B.A., Minne-
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Manitoba, Canada
Daniel Lee Parker, Minneapolis
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Falls, Iowa
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apolis
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apolis
Philip Kenneth Zietlow, Mahtomedi

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WITH DISTINCTION
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Ronald James Lorentzen, Minneapolis
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Calif., WITH DISTINCTION
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Russell Victor Christiansen, White
Bear Lake
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Hector Enrique Gonzales, Peru
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Ill.
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Rochester
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Wayne Thomas Teigen, Aberdeen,
S.D.
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apolis
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DeWaldon Lee Bendtsen, Rose Creek
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Richard Albert Berndt, Minneapolis
Cecil Hunter Branham, Jr., Minne-
apolis
Robert Lee Bratt, Duluth
James Edward Budke, St. Paul
Thomas Francis Burniece III, Rich-
field
William Lawrence Chapin, Minne-
apolis
Keith Lane Curtner, St. Paul
Gerald John Dittberner, White Bear
Lake
David John Dzubay, Minneapolis
Kurt John Eisenach, International
Falls
Robert John Erickson, Aurora
Donald Lester Farrington, Detroit
Lakes
Paul Francis Galligan, Canton

Wing Kwong Gee, Duluth
David Albert Greig, Wayzata
Gordon Michael Grunden, Minne-
apolis
Ronald Walter Hagen, Belview
Conrad Alexander Hansen, West St.
Paul
Larry Edgar Harrison, Osakis
Ralph Evan Hassig, Plainview
Gary Lloyd Hokenson, Minneapolis
Howard Roger Juul, Hutchinson
Arthur Elmer Kempcke, Minneapolis
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Stewartville
Roger Edward Kleinschmidt, New
Ulm
Thomas Sanford Kohlsaat, St. Paul
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 James William Reinhardt, Edina
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 Gerald David White, Bloomington,
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 Donald Arthur Wright, Duluth, WITH
 DISTINCTION
 Russell Leigh Wright, Worthington
 Richard Martin Yackel, Lamberton

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 Michael Philip Froman, St. Paul,
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 WITH DISTINCTION
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 John Charles Schwebel, Mound, WITH
 DISTINCTION

Michael Myron Skow, Mound, WITH
 DISTINCTION
 George Merlyn Spilseth, Kensington,
 WITH DISTINCTION
 John William Walther, St. Paul,
 WITH DISTINCTION
 Robert William Wells, Richfield,
 WITH DISTINCTION
 Dennis Roy Wernberg, Blackduck

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 Harold James Beecroft, Aitkin
 James Alden Berg, Buffalo
 Stanley Nicholas Bormann, Minneapolis
 John David Brecht, Minneapolis

Herbert Noel Broan, Jr., Minneapolis
 William Lawrence Brown, Minneapolis
 Richard Irwin Burton, St. Paul
 Gerald Fredric Carisch, Wayzata
 George B. Chesley, Mankato

James Edward Dudycha, Minneapolis
 Ronald Glenn Geurts, Little Falls
 Turgay Gurun, Izmir, Turkey
 Gary Boyd Gustafson, Farmington
 Floyd Peter Harthun, Fosston
 Thomas Gordon Johnson, Hopkins
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 Gerald Allen Latola, Aurora
 Wayne Clifford Lau, Jim Falls, Wis.
 Michael Allan Lebowsky, Minneapolis
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 Paul Milo Lubratt, Duluth
 Fred Joseph Luthe, Lansing
 Bruce Roger Meyer, North St. Paul
 George Fredrick Nado, St. Paul
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 Lauren Dennis Roesner, Braham
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 Francis Charles Runchey, Faribault
 Jared Charles Scofield, Duluth, WITH
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 Lenard Jerome Steinke, Jr., Sleepy Eye
 Gordon William Stolberg, Virginia
 Dana Christie Stone, Minneapolis
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 Gary Phillip Torfin, Brainerd
 James Melvin Werner, St. Paul
 James Ora Williams, St. Paul
 John Charles Winters, St. Paul
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Richard Noboru Otani, Minneapolis

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 Glen M. Richards, St. Paul

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 Rochester

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 Edward Harvey Peters, Grand Rapids

Donald Leroy Schaible, Mound

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 Charles Winston Carlson, Cambridge,
 WITH HIGH DISTINCTION
 Matthew James Cunningham, Minne-
 apolis, WITH HIGH DISTINCTION
 John Andrew Ellefson, Minneapolis
 Richard Arthur Hendrickson, Minne-
 apolis, WITH HIGH DISTINCTION
 Raymond Glenn Hensler, Clarkston,
 Ga.
 David Lawrence Hervey, Minneapolis
 Joseph William Hirman, Raymond

Richard Lloyd Huberty, St. Paul
 Sherwood Burtrum Idso, Thief River
 Falls, WITH DISTINCTION
 John Charles Kimball, Excelsior, WITH
 DISTINCTION
 Wendell Lee King, Austin
 Richard Gray Lacher, St. Cloud
 Thomas Russell Lindquist, Minne-
 apolis, WITH DISTINCTION
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 Joseph Henry Lunacek, Minneapolis,
 WITH DISTINCTION
 Gary Chester Moe, St. Paul

Donald Davis Moulin, St. Paul
Ronald Arthur Olson, St. Paul
G. William Pfeiffer, St. Paul
James Bernard Pranke, St. Paul
Thomas Andrew Rygg, St. Paul, WITH
DISTINCTION
James Stanley Sarp, Minneapolis

Gerald Lee Sietsema, Olivia, WITH
DISTINCTION
James John Sroga, Coon Rapids, WITH
DISTINCTION
Susan Phyllis Thomas, Melbourne,
Australia

Mechanical Engineer

Vincent Hennix Larson, Mound, B.S. with high distinction '51, University of Minnesota, thesis, "The Conception and Development of an Aircraft Engagement System to Prevent Runway Overrun Accidents."

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Jerril Burdette Andrews, Shafer, Agri-
culture
Phillip Henry Bachman, Crystal,
Agriculture
Laren Dee Stacy Barker, Mora, Agri-
culture, WITH DISTINCTION
Warde Huntress Barton, Minneapolis,
Forestry
Judith Ann Bertch, St. Paul, Home
Economics
Galen Grant Blomster, Rush City,
Agriculture
Dion Reed Boldthen, Le Sueur,
Agriculture
Carole Gertrude Bowman, Minne-
apolis, Home Economics
Gary Dean Braaten, Austin, Agricul-
ture
Richard Allen Carlson, A.A., South
St. Paul, Agriculture
Marilyn Marie Carney, Delavan,
Home Economics
Lary Leigh Christian, Waltham,
Forestry

Claudette Carole Drahota, Jackson,
Home Economics
Juris Imants Eglite, White Bear Lake,
Forestry
Robert Perry Eicher, St. Paul,
Agriculture
Alan Ryan Ek, Golden Valley, For-
estry, WITH DISTINCTION
James Arthur Engan, Atwater, For-
estry
Russel Winton Erickson, St. Paul,
Agriculture
John Thomas Eschle, St. Paul,
Forestry
Joan Schutjer Feltes, Austin, Home
Economics
Gerhardt Nelson Fick, Vergas, Agri-
culture
Lawrence Douglas Fischer, Brook
Park, Agriculture
Paul Fred Fornberg, Isanti, Agriculture
Garry William Frits, Minneapolis,
Forestry
Janice Marie Gauthier, Rochester,
Agriculture, WITH DISTINCTION
Arild Dean Hagberg, Buffalo Lake,
Agriculture

Myron Chester Hall, Grand Meadow, Forestry
 Charleen Gaye Halvorson, Plato, Home Economics
 Robert Eugene Hance, Jr., Red Lake Falls, Forestry
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James LeRoy Hansen, Grand Rapids, Agriculture, WITH DISTINCTION
 Susan Lynn Joan Harich, St. Paul, Agriculture
 Jerry Dean Hawton, Redwood Falls, Agriculture
 Eugene Eldred Heise, Dawson, Agriculture
 Gerald LeRoy Hermanson, Gary, Agriculture
 Mary Elizabeth Higgs, New Ulm, Home Economics
 Lyle Elwood Hovland, Briceyn, Agriculture
 Marvin Lester Howatt, Lake City, Agriculture
Janet Ann Deutscher Huser, St. Louis Park, Home Economics, WITH DISTINCTION
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Jay Allen Johnson, Biwabik, Forestry, WITH DISTINCTION
 Robert Graham Johnson, Duluth, Forestry
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Stanley Philip Kolstad, Lakeville, Agriculture, WITH DISTINCTION
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 Marvin Leroy Lindo, Center City, Agriculture
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 Marcille Ellen Malquist, Hector, Home Economics
Marvin Carl Meier, Ogema, Wis., Forestry, WITH DISTINCTION
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Alfred Edward Miron, Hugo, Agriculture, WITH DISTINCTION
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 Mary Colleen Murphy, Osseo, Home Economics
 Winton Mikal Nelson, Atwater, Agriculture
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Fredric Newell Owens, Hammond, Wis., Agriculture, WITH HIGH DISTINCTION
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Judy Elaine Petik, Lemmon, S.D., Home Economics, WITH DISTINCTION
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 Ronald Irvin Pick, Minnesota Lake, Agriculture
 Herbert William Polzin, St. Paul, Agriculture
 Nancy Lee Rahn, Minneapolis, Home Economics
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 George Walter Reimers, Alberta, Agriculture

- Richard Joseph Resseman, St. Cloud,
Agriculture
- Barbara Kay Rogers, Winona, Home
Economics
- James Arley Rolloff, New Ulm, Agri-
culture
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estry
- Marlene Mae Sakarison, Watertown,
S.D., Home Economics
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- Daniel Lee Schafer, Buffalo Lake,
Agriculture
- Gary Paul Schroeder, Roseau, Agri-
culture
- Gail Audrey Schwerdfeger, Elk River,
Home Economics
- Michael James Shannon, La Crescent,
Forestry
- David Vincent Smith, A.A., Minne-
apolis, Forestry
- Judith Ann Joerg Solberg, Spring
Grove, Home Economics, WITH
DISTINCTION
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culture
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brota, Agriculture
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Forestry
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Agriculture, WITH DISTINCTION
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Agriculture
- Richard Wayne Untiedt, Jackson,
Agriculture
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Forestry
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Agriculture
- Richard Forrest Werling, B.A., Nee-
nah, Wis., Forestry, WITH DISTINC-
TION
- Diane Ryan White, St. Paul, Home
Economics
- James David White, St. Paul, Agricul-
ture
- David Robert Whitmer, St. Paul,
Forestry, WITH DISTINCTION
- Charles Harold Wick, Golden Valley,
Forestry
- Dennis Ellsworth Wolfgram, Elgin,
Agriculture
- Harlow Howard Wolkow, Farmington,
Agriculture
- Theodore Allan Wolter, Hinckley,
Forestry
- Virginia Ann Wright, Minneapolis,
Home Economics, WITH HIGH
DISTINCTION
- Dennis William Youngerberg, Spring-
field, Agriculture

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

Bachelor of Science

Hazel Bernice Ackland, Owatonna,
Home Economics Education, WITH
DISTINCTION

Eugene Harold Appeldorn, Pipestone,
Agricultural Education

- Benjamin Joseph Bartusek, New Prague, Agricultural Education, WITH DISTINCTION
- Robert Rudolph Beniak, Dodge Center, Agricultural Education
- Karen Ann Beste, St. Paul, Home Economics Education
- Charles Orgene Borstad, Madison, Agricultural Education, WITH DISTINCTION
- LuAnne Katherine Boyer, Bemidji, Home Economics Education, WITH DISTINCTION
- Dale Raymond Busch, Luverne, Agricultural Education
- Charlotte K. Carlson, Barrett, Home Economics Education
- Kathleen Fay Chellquist, Minneapolis, Home Economics Education
- Carol Jean Enzmann, Cook, Home Economics Education
- Janice Eleanor Nelson Erickson, Pelican Rapids, Home Economics Education
- Bernadine Agnes Hoeft, Lake City, Home Economics Education
- Patricia Gail Hornseth, Thief River Falls, Home Economics Education
- Brian Irvin Ingvalson, A.A., Blooming Prairie, Agricultural Education, WITH DISTINCTION
- Marilyn Rae Johnson, St. Paul, Home Economics Education
- Harlan Vernon Jopp, Mayer, Agricultural Education
- Lynn Merlon Lagerstedt, Gibbon, Agricultural Education
- Marcia Kathleen Larson, Marine on St. Croix, Home Economics Education
- Marvin Curtis Lee, Fosston, Agricultural Education
- Anna Mary Hoyt, Leeseberg, Parkers Prairie, Home Economics Education, WITH DISTINCTION
- Judith Gail McComb, Minneapolis, Home Economics Education
- John Leo Meagher, Hopkins, Agricultural Education
- Susan Margaret Moody, Minneapolis, Home Economics Education
- Dennis Harold Nelson, Milaca, Agricultural Education
- Dolores Epstein Neuhausen, St. Louis Park, Home Economics Education, WITH DISTINCTION
- Russell Albert Ober, Barnum, Agricultural Education
- Rodger Edward Palmer, Frazee, Agricultural Education
- Mark Atry Peterson, A.A., Eveleth, Agricultural Education
- Beatrice Anne Pishney, Silver Lake, Home Economics Education
- Jeanette Louise Rauscher, Parkers Prairie, Home Economics Education
- Carole Anne Roth, St. Paul, Home Economics Education
- Mary Hannah Rowe, Wadena, Home Economics Education
- Roger Earl Ruehling, Belle Plaine, Agricultural Education
- Glenice Vernae Rugland, Roseau, Home Economics Education, WITH DISTINCTION
- Russell Lawrence Ruud, Palisade, Agricultural Education
- Anne Frances Siroky, St. Paul, Home Economics Education
- Ronald Douglas Sommers, Northfield, Agricultural Education
- Mary Jacqueline Sullivan, Mt. Iron, Home Economics Education
- Rochelle Ann Swee, Pine Island, Home Economics Education
- Dary Everett Talley, Delavan, Agricultural Education
- Vernon William Taylor, Deerwood, Agricultural Education
- Linda Jean Walton, St. Paul, Home Economics Education
- Larry Howard Whitson, St. Paul, Agricultural Education
- Karen Maxine Wiley, Buffalo Lake, 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

Sam R. Allen, Jr., Minneapolis
Rudolf Einar Hasbargen, Wheaton
Douglas Alan Hasslen, Rush City

James Robert McCarthy, DeGraff
Victor David Proeschel, Austin
Elmer Joseph Schefers, Menahga

COLLEGE OF EDUCATION

Bachelor of Science

Carol Florence Ahl, St. Paul
Julianne Albright, Minneapolis
*Jenifer Ann Allen, Cloquet, WITH
DISTINCTION*
Judith Ann Altmann, Minneapolis
Kathleen Lorraine Alwin, St. Paul
*Carrol Jay Amundson, Richfield, WITH
DISTINCTION*
Dennis Phillip Anderson, Minneapolis
Edward Eugene Anderson, B.A., St.
Paul
Elizabeth Jean McKinnon Anderson,
St. Paul
Gail Estelle Anderson, Forest Lake
Janet May Anderson, Wahkon
*Jean Karen Anderson, North Mankato,
WITH DISTINCTION*
Judd Everett Anderson, Eveleth
Margaret Eriksson Anderson, Min-
neapolis
Mary Louise Anderson, Thief River
Falls
Patricia Ann Anderson, Minneapolis
Paula Eileen Anderson, Minneapolis
Susan Irene Anderson, St. Paul, *WITH
DISTINCTION*
Harriet Eileen Applebaum, St. Paul
*Pamela Jill Arling, Minneapolis, WITH
DISTINCTION*
Robert Stanley Aronson, A.A., St.
Louis Park
Lynn Arthur Ash, Crookston

Gunhild Emilia Ashbach, St. Paul
*Gary Peter Asp, Robbinsdale, WITH
HIGH DISTINCTION*
Jo Ann Asselstine, Edina
Robert Edward Astrup, West St. Paul
Linda Mary Bachman, Minneapolis
*Carol Jean Back, Pine Island, WITH
DISTINCTION*
*Dixalene Catherine Bahleda, Wausau,
Wis., WITH DISTINCTION**
Sally Sue Bakken, Minneapolis
Gerald Duane Barfuss, Minneapolis
Mary Florence Barnett, Minneapolis
Dennis James Barry, Underwood
Sharon-Louise Erickson Barsness,
Hopkins
Virginia Diane Bartik, Britt, Iowa
Sharon Marie Baxter, Robbinsdale
Elisabeth Quiring Becker, Minneapolis
Judith Edythe Behrendt, Minneapolis
Donna Lee Benedict, St. Paul
Susan Elsbeth Benedum, St. Paul
*Ann Louise Benson, Richfield, WITH
DISTINCTION*
*Julie Ann Benson, Minneapolis, WITH
HIGH DISTINCTION*
Paul Floyd Benson, Granite Falls
Stephen Alan Benson, Minneapolis
Beverly Jean Berg, Redwood Falls
Joyce Marilyn Berg, Minneapolis
*Dale Edmund Berger, Dent, WITH
DISTINCTION*

* Nursing Education Curriculum

Edna A. Regehr Bernstein, B.A., M.S.,
 Rosthern, Saskatchewan, Canada
 Allan Hayes Blatherwick, Minneapolis
 Judith Ann Bodey, White Bear Lake
 Carol Marie Bogema, Minneapolis
 Lance Richard Boyd, Starbuck
 Jan Coral Brackett, Minneapolis
 Michael Damian Briscoe, Montevideo
 Patricia Ann Burau, Minneapolis
 Elayne Butwinick, B.A., St. Paul
 Jack Douglas Cahn, B.A., Minneapolis
 Peggy Jean Cairns, Albert Lea
 Karen Louise Calvert, St. Paul
 Lynda Marcia Camm, Austin
 Val Marie Capron, Edina
 Bergit Solvar Carlson, Minneapolis
 Camille Esther Carlson, Richfield
 Daniel Lee Carlson, Warren
 George-Russell Burnham Carlson,
 New Brighton
*James Raymond Carlson, Minne-
 apolis, WITH DISTINCTION*
 Louise Mary Carlson, Garvin
*Sandra Elaine Lowe Carlson, Minne-
 apolis, WITH DISTINCTION*
 Sandra Jean Cavalier, A.A., Hibbing
 Nancy Gail Chermak, Minneapolis
 Joan Carpenter Christensen, Robbins-
 dale*
 Mari Ann Christeson, Clinton
 Jay Ward Christiansen, B.Phys., St.
 Louis Park
 Frances B. Tanner Clarkson, Minne-
 apolis
 Miriam Joyce Cofman, Watertown,
 S.D.
 Sharon May Cohn, Minneapolis
 Gary James Colberg, White Bear Lake
 Carol Miller Collins, Long Lake
 Kathryn Ann Cooney, Minneapolis
*Marcella Arlene Cram, Minneapolis,
 WITH DISTINCTION*
 Eugene Joseph Crane, St. Paul
*Merle Alan Cummings, A.L.A., New
 Brighton, WITH DISTINCTION*
*Jon Alfred Curwen, Minneapolis,
 WITH DISTINCTION*
 Carol Ann Custis, Minneapolis

*BettyAnn Victoria Dahl, Minneapolis,
 WITH DISTINCTION*
 Arlene Kay Danielson, St. Paul
 Jerilyn Laurene Darrah, Minneapolis
 Diana Jean Davis, B.A., Rochester
*Sharon Renee DeLong, Circle Pines,
 WITH DISTINCTION*
 Judy Ann Dial, St. Louis Park
*Joyce Emerald H. Dibble, Minne-
 apolis, WITH DISTINCTION*
 Terrence Lee Dignan, Finlayson
 Frances Suzanne Disney, Edina
*Carole Yvonne Dodds, Robbinsdale,
 WITH DISTINCTION*
 Aida Levine Dorenfeld, B.A., Min-
 neapolis
 Thomas George Dosch, Minneapolis
 Nancy Jo Douglas, Buffalo
 Jerry James Doyle, Grand Rapids
 Elizabeth Ann Dressler, Robbins-
 dale
 Daphne Dunger, Sioux Falls, S.D.*
 Robert John Dynan, St. Paul
 Judith Ann Eichinger, B.A., St. Paul
 Sandra Jean Eklund, Minneapolis
 Diane Margaret Snow Elwood, St.
 Paul
 Anita Lynn Engstrom, Mound
*Ila Mae Johnson Erickson, Minne-
 apolis, WITH DISTINCTION*
 Janet Mae Erickson, St. Louis Park
 John Henry Erickson, St. Paul
*John Jay Erickson, Mora, WITH DIS-
 TINCTION*
*Laurel Lindquist Erickson, Min-
 neapolis, WITH DISTINCTION*
 Robert Paul Erickson, A.A., Biwabik
 Rhys Sterling Evans, B.A., Mound
 Marlys Mary Fairbanks, B.A., Anoka
 John Alden Falk, B.B.A., Hopkins
 Marguerite Elizabeth Farness, Rich-
 field
 Patricia Angell Thomas Fatchett,
 A.L.A., B.A., Minneapolis
 Bernell Winston Fedje, B.A., Coon
 Rapids
 Janet Marie Fiedler, Howard Lake
 Richard Paul Fields, Ironton

* Nursing Education Curriculum

Sara Ann Fisher, Minneapolis
 Deanna Marie Carter Fjestad,
 Hopkins
 Patrick Leonard Flanagan, Min-
 neapolis
 Julie Ann Flansburg, Brainerd
 Carol Louise Formo, St. Louis Park
 Alice Koski Fraser, Wayzata
 James Russell Frazee, Bird Island
 Laurence Allan Friedman, St. Paul
 Paula Jean Friedman, St. Louis Park,
 WITH DISTINCTION
 Claudette Gaylord, Minneapolis
 Kathleen Evon Gill, Mound, WITH
 HIGH DISTINCTION
 Jo Anne Gislason, Lamberton
 Raymond Stanley Gnetz, St. Paul
 Virginia Ann Gobats, A.A., Virginia,
 WITH DISTINCTION
 Helen Elaine Goike, Minneapolis
 Myrna Joyce Goodman, Cheyenne,
 Wyo., WITH DISTINCTION*
 Mary Jo Christine Gorra, Minneapolis
 Carol Elizabeth Graff, Waconia
 Stamatia Demetra Grammas, Minne-
 apolis
 Diane Marie Gravell, West St. Paul
 Edwin Feliks Gredzens, B.A., Min-
 neapolis
 Judith Ann Green, Minneapolis
 Elaine Mary Gregory, Wayzata, WITH
 HIGH DISTINCTION
 Susan Ann Storti Greif, St. Paul,
 WITH DISTINCTION
 Thomas Milton Grimsrud, B.A.,
 Minneapolis
 Carol Anne Gross, St. Louis Park
 Elizabeth Edna Gross, Minneapolis
 Ruth Ann Grossman, St. Paul
 Kenneth Harold Grossmann, Gibbon
 Joseph Paul Grulkowski, Winona
 David Allan Grundman, Minneapolis
 Colleen Marie Guidarelli, A.A., Buhl
 Joanne Marie Guilfoyle, Minneapolis
 Carol Ann Gustafson, Minneapolis
 Rose Simone Gustafson, South St.
 Paul
 Sandra Lee Guth, B.A., Excelsior
 Betty Claire Guyer, Waseca

Jane Christine Hagen, Minneapolis
 Frances Crichton Hageman, Hopkins
 Thomas Francis Hall, Wilmington,
 Del.
 Nancy Marie Hallberg, Minneapolis
 Marcia Jean Halmers, Robbinsdale
 Ruth Penny Halper, St. Paul
 Claudia Louise Hambrick, White
 Bear Lake
 Susan Irene Hamernick, Minneapolis
 Margaret Mary Hames, Lake City
 Jean Marie Hammond, Anoka
 Noel Craig Hancock, Dent
 Donald Darrell Hansen, Minneapolis
 Beverly Joy Hanson, St. Paul
 David Keith Hanson, Hopkins
 Janet Rae Hillman Hanson, Mora
 Marilyn Joan Hanson, St. Louis Park,
 WITH HIGH DISTINCTION
 John Howard Hartman, Hot Springs,
 S.D.
 Nancy Ann Harvey, Minneapolis
 Nancy Louise Hauger, Baudette,
 WITH DISTINCTION
 Barbara Kay Hauke, Minneapolis
 Sandra Ann Hayden, St. Charles
 John Heffken, Minneapolis
 Carol Jean Hegberg, Hopkins
 Harris Eugene Heggerston, Walnut
 Grove, WITH DISTINCTION
 Toni Ann Heinen, Minneapolis,
 WITH DISTINCTION
 Janice Harriet Henderson, Hollandale
 Mary Louise Hennebry, St. Paul
 Lois Caroline Hermeier, Waukon,
 Iowa*
 Carol Sue Hesse, Hopkins
 Margaret Westfield Hicks, Minne-
 apolis, WITH HIGH DISTINCTION
 Deanna Katherine Highley, Fair-
 mont*
 Marcella Ann Hill, Rochester
 Ronald Walter Hill, Alexandria
 Diane Ellen Hillman, Hopkins
 Mary Shaw Hoch, Minneapolis
 Doreen Katherine Hoffman, West
 St. Paul
 Mary Susan Hoffmann, St. Paul
 Janet Louise Hohag, Waverly

* Nursing Education Curriculum

Stephen Gary Hollingsworth, Minneapolis
 Mia Margaret Honkanen, A.A., Virginia
 Patricia Ann Howkinson, La Grange, Ill.
 Julie Anne Hughes, B.A., Edina
 Judith Rae Hukriede, Minneapolis
 Vance Lautcen Huntsinger, A.A., B.A., St. Paul
 Louiva Dae Hurt, Hutchinson
 Christine Ann Hustad, Minneapolis
 Myrna Louise Ilstrup, Buffalo
 Jon Elmer Isaacson, Virginia, WITH HIGH DISTINCTION
 Ingrid Ann Isenman, South St. Paul
 Mary Yoshiko Ito, Waimanalo, Hawaii*
 Lois Elaine Iverson, Luverne
 John William Jaglo, St. Louis Park
 Kathleen Rose Jambeck, Marine on St. Croix
 Kenneth Walter Jeddelloh, Minneapolis
 Jon Francis Jelacic, Brainerd
 Barbara Lynne Johnson, St. Paul, WITH DISTINCTION
 Helen Marie Johnson, Omaha, Neb., WITH DISTINCTION
 Janelle Jeppesen Johnson, South Haven
 Janice Gail Johnson, Minneapolis
 Judith Ann Johnson, Minneapolis
 Katharine Helen Aurora Johnson, Chisholm
 Kathryn Jean Johnson, St. Louis Park, WITH HIGH DISTINCTION
 Sandra Carolene Johnson, Chisholm, WITH DISTINCTION
 Bonita Ann Jones, Minneapolis
 Neil Arthur Junker, Stillwater
 Judith Anne Jurgensen, St. Paul
 Judy Pogorelce Jytyla, Virginia
 Gene Francis Kacheroski, A.A., Minneapolis
 Risa Ilcen Kahn, Minneapolis, WITH HIGH DISTINCTION
 Mary Estelle Kanning, Truman
 Louise Florence Kantrowich, St. Paul
 Diane Muriel Kaplan, Minneapolis
 Karen Ann Karkela, Grand Rapids
 Mary Elizabeth Karn, Ortonville, WITH DISTINCTION
 Geraldyn Lois Kastner, West St. Paul
 Loretta Chase Katz, St. Louis Park
 Laura Catherine Katzner, Minneapolis
 Leslie Elizabeth Kennedy, Minneapolis
 Vernita Marie Drum Kennen, Chisago City
 Beverly Jane Kespohl, Minneapolis, WITH HIGH DISTINCTION
 Barbara Jo King, Minneapolis, WITH DISTINCTION
 Judy Grace King, St. Louis Park, WITH DISTINCTION
 Sally Su Klimek, Baudette
 Kathleen Rosalyn Knight, Minneapolis
 Donna Mae Knoll, Minneapolis
 Henry Todd Knutson, Minnetonka
 Joan Elizabeth Knutson, Edina
 Barbara Rose Kobe, St. Louis Park
 Judith Ann Kordiak, Minneapolis
 Susan Kay Koschinska, Chaska
 Dinah Crystal Kossoff, Duluth
 Gene Rudell Kragness, Minneapolis, WITH DISTINCTION
 Susan Leah Krantz, Waterloo, Iowa
 JoAnn Krebs, Minneapolis
 Edward William Krieg, Tracy, WITH DISTINCTION
 Ann Schirmer Krohn, Minneapolis, WITH DISTINCTION
 Sue Ellen Kronick, Van Nuys, Calif.
 Fern Lillian Kruger, St. Louis Park
 Marlene Joyce Kupetz, Minneapolis, WITH DISTINCTION
 Ronald Owen Kvale, A.A., Manchester
 Gloria May LaBorde, Minneapolis
 Carolyn Elizabeth Lammers, Taylors Falls
 Jacquelyn Lee Lande, Minneapolis
 Roberta Carole Landro, St. Paul
 Ronna Leann Landy, St. Louis Park
 Rosel Karin Lange, Minneapolis
 William Allen Lange, West St. Paul

* Nursing Education Curriculum

Sandra Lu Mary Langseth, Minneapolis, WITH DISTINCTION
 Kathleen Marie Lanners, St. Paul
 Violet Anna Lappin, Anoka, WITH DISTINCTION
 Priscilla Arlene Larson, Gonvick, WITH HIGH DISTINCTION
 Ralph John Larson, Center City
 William Clyde Larson, Minneapolis
 Elizabeth Ann Luring, Coleraine
 Kathryn Cecelia LeBrun, Pipestone
 Alice Leck, Minneapolis
 Richard Sheldon Ledin, Minneapolis
 Ronald Laurence Lehman, A.A., St. Louis Park
 Yolanne Albrecht Leno, White Bear Lake
 Carole Shambloft Levine, Duluth
 Laura Ann Lewis, Albert Lea, WITH DISTINCTION
 Carol Marie Lilyholm, Minneapolis, WITH DISTINCTION
 Dianne Elizabeth Lindstrom, St. Paul
 Carol Elaine Lommen, Minneapolis
 Janice Kay Lorimor, Earlham, Iowa, WITH DISTINCTION
 Louise Anne Loss, North St. Paul
 Roger Carl Lowe, Yankton, S.D.
 Richard Albert Lucas, Wayzata, WITH HIGH DISTINCTION
 Karen Kay Luchtel, Amiret
 Yvonne Marlys Luloff, Mora
 Bernadine Vernetta Lundberg, Hancock, WITH HIGH DISTINCTION
 Marian Camille Lundein, Ely
 Edwin William Lundgren, Cokato
 Susan Violet Lux, Minneapolis
 Martha McConnon Lynn, St. Paul, WITH DISTINCTION
 Myrna Wedlan Lyons, Minneapolis
 Jo Ann Margaret Lysen, Mankato
 Mary Ellen Madsen, Lakefield
 Billi Helen Mahan, Minneapolis, WITH DISTINCTION
 Lynne Marie Maher, Minneapolis, WITH DISTINCTION
 JoAnn Kay Maier, Caledonia
 Sandra Yvonne Maki, Minneapolis
 John Wayne Mandery, Minneapolis
 Nancy Elizabeth Thomas Manion, St. Paul
 Charles John Marboe, B.B.A., Minneapolis
 Robert Leslie Marrs, B.A., Minneapolis
 Carol Jean Mason, Minneapolis
 Elizabeth Carol Matson, Harmony, WITH DISTINCTION
 Linda Rae Matson, Trimont
 Merrilee Margaret Mattson, Mound
 Elaine Sharp Mauseth, Minneapolis, WITH DISTINCTION
 Jacqueline Bromley May, B.A., Northfield
 Sharon Louise McCombs, Minneapolis, WITH DISTINCTION
 Marsha Lee McCoy, A.A., Minneapolis
 Marianna Louise McCrea, R.N., Sleepy Eye*
 Karin Kathleen McGourty, Minneapolis, WITH DISTINCTION
 Diane Margaret McLeod, Minneapolis
 Patricia Ann Meacham, Minneapolis
 Ruth Elenore Meier, B.A., Minneapolis
 David Roger Metzen, South St. Paul
 Katherine Margaret Mickelson, Grand Rapids
 Nona Kay Mickelson, Sauk Centre
 Betty Ann Mielke, Minneapolis, WITH DISTINCTION
 Beverly Diane Miller, Hutchinson
 Geraldine Lucille Miller, Grove City
 Susan Joan Miller, Albert Lea
 Theodore Kent Miller, Glidden, Wis., WITH DISTINCTION
 Carlo Joseph Minnetti, Virginia
 Warren Bruce Misiewicz, Duluth
 Kaye Louise Moberg, Clinton
 Karen Irene Moehn, Minneapolis
 Gary Arthur Mohrenweiser, Onamia
 Colleen Ellen Moore, Columbia Heights
 Thomas Barrett Morse, International Falls

* Nursing Education Curriculum

Michael Joseph Mulvaney, Minneapolis
 Myrtle Linnea Myers, Aitkin*
 Joan Carol Myrom, Sauk Centre
 Rolf David Nackerud, B.A., Walnut Grove
 Bruce Noel Nelson, St. Paul
 Charlene Ann Nelson, Minneapolis
 Darby Miles Nelson, International Falls, WITH DISTINCTION
 Joan Rae Nelson, St. Paul
 Margaret Ellen Nelson, Ladysmith, Wis., WITH DISTINCTION
 Marsha Joan Nerdahl, Robbinsdale
 Glorianne Rose Bakke Nevin, Minneapolis
 Marilyn Ann Nibbe, Fergus Falls
 Patricia Ann Nordstrom, Minneapolis
 Katherine Elida Norman, Duluth
 Donna Jean Nugent, St. Cloud
 Dyann Kay Nyberg, Robbinsdale
 Karen Louise Oase, St. Paul Park
 Joy Alyce Oberg, St. Paul
 Karen Louise Oleson, Minneapolis
 Dean Harris Olson, Minneapolis, WITH DISTINCTION
 James Harry Olson, St. Paul, WITH HIGH DISTINCTION
 Margie Adolphson Olson, Grand Rapids, WITH DISTINCTION*
 Sonja Ruth Olson, Benson
 Vernee Ardis Oltman, Minneapolis*
 Mary Ann Omdahl, Halstad
 Michelle Jan Floren Omundson, St. Paul
 Sandra Ellen Oquist, Lindstrom
 Mary Elizabeth Osborne, Minneapolis, WITH HIGH DISTINCTION
 Nancy Lynn Osterberg, Alexandria
 Marlys Janet Ostergaard, St. Paul
 Frances Muriel Ostfield, Minneapolis
 Marlys LaVerne Petersen Ozga, Columbia Heights
 Roger Nelson Pajari, Minneapolis, WITH DISTINCTION
 Janet Lee Palmer, A.A., Osseo
 Sharon Sistine Papike, A.A., Eveleth
 Roger Wilbert Parker, A.A., Byron, WITH DISTINCTION
 Karen Louise Pearson, Lake City
 Ella Jean Larkin Peploe, Minneapolis, WITH DISTINCTION
 Rollie Joyce Perlman, St. Paul
 Michele Judith Perry, Minneapolis
 Diane Kathryn Peters, St. Paul, WITH DISTINCTION
 Karin Gunhild Peterson, Minneapolis, WITH DISTINCTION
 Kaye Jeanne Peterson, Brainerd, WITH DISTINCTION
 Russell Charles Peterson, Virginia
 Anne M. Douglas Petterson, Minneapolis
 Gerald Rudolph Pitzl, St. Paul
 Ruth Ann Plasencia, Crystal
 Judith Ilene Ploof, Minneapolis
 Joyce Lynnel Poor, St. Paul
 Grace Irene Ramseyer, B.S.N., Minneapolis
 Gloria Violet Olson Ray, Bloomington
 Janet Hart Reeves, Hopkins
 Susan Jean Reif, Minneapolis, WITH DISTINCTION
 Janice Ferguson Remund, Minneapolis, WITH DISTINCTION
 James Allen Reuper, Minneapolis
 Karen Bertha Riedler, St. Paul, WITH DISTINCTION
 Rebekah Louise Rieke, Minneapolis
 James Kenneth Robinson, Rush City
 William Robert Robinson, A.A., Minneapolis
 William Robert Roessler, Rochester
 Claire Marie Rolloff, New Ulm
 Gail Joyce Rosenblum, St. Paul
 Sandra Lynn Rosenblum, Minneapolis
 Glenna Louise Roth, Minneapolis
 Naomi Ann Rothenberg, Omaha, Neb.
 Richard Courtney Rowe, South St. Paul
 Richard Lee Rudin, Forest Lake
 Elaine LaVonne Runion, St. Paul
 Judith Ann Rusnacko, Minneapolis
 Julie Ann Russell, Minneapolis
 Julie Ann Rustad, Anoka
 Joyce Audrey Rydberg, St. Paul
 Edith Mae Ryti, St. Paul

* Nursing Education Curriculum

Gwen Ann Salisbury, B.A., Minnetonka
 Joyce Hoff Sampson, B.A., Minneapolis
 Paul Oliver Sand, B.A., Wendell
 Sandra Lee Sandholm, Gaylord
 Allan Ira Sandum, B.A., Minneapolis
 Otto Arthur Savina, St. Paul
 Margaret Ruth Schlukebier, West St. Paul, WITH HIGH DISTINCTION
 Sandra Marcia Ruth Adler Schmidt, Rochester
 Emily Johnson Schmitz, St. Louis Park
 Carole Madalyn Schneiderman, B.A., Minneapolis
 Dwight Lee Scholz, Minneapolis
 George Edward Schramm, Jr., Silver Bay
 Diane Carole Schubert, Minneapolis
 Roberta Marie Schulte, Moorhead
 Lynn Allen Schultz, Osakis
 George Warren Schumacher, Minneapolis
 Martin Fredrick Schupmann, Chesterfield, Mo.
 Therese Schwamberger, South St. Paul
 Pamela Joyce Seach, Minneapolis, WITH DISTINCTION
 Vaunda Lea Seetin, A.A., Huntley
 Carol Jo Seiberlich, St. Louis Park
 Johanna Marie Sellers, Hopkins
 Kathleen Marie Scenesac, Hopkins
 Gayle Diane Sheffel, Richfield
 Dixie Lee Shelley, Rochester
 Diane Kay Sheppard, Trimont
 Dolores Orlene Shively, St. Louis Park
 Patricia Marie Shouts, Memphis, Tenn.
 Joanne Gordon Silverman, A.L.A., St. Paul
 Marija Skutans, St. Paul
 Judith Claire Slayton, Breckenridge
 Joan Gail Smith, Minneapolis, WITH DISTINCTION
 Marilou Nippert Smith, St. Paul, WITH HIGH DISTINCTION
 Judith Diane Snowberg, Minneapolis, WITH DISTINCTION
 Donna Rae Snyder, Minneapolis
 Janice Jean Snyder, St. Louis Park, WITH DISTINCTION
 Janet Barbara Soderstrom, Columbia Heights
 Jane Alice Solum, Minneapolis
 Ingeborg Dorthea Sonnesyn, Minneapolis
 Jeannette Yellott Spotten, Minneapolis
 Lillian Irene Noble Squires, Robbinsdale
 Susan Lee Standal, Minneapolis
 Carolann Stanke, St. Paul
 Carmen Dawn Starkson, A.A., Byron
 Nancy Jane Steiff, Minneapolis, WITH HIGH DISTINCTION
 Pamela Ann Stensrud, Lakefield
 Sylvia Shirley Stensrud, Blooming Prairie
 Karen Marie Stokes, Forest Lake
 Inta Stolcers, Minneapolis, WITH DISTINCTION
 James Gordon Stolhanske, A.A., Staples, WITH DISTINCTION
 Judy Irene Stoner, Morris
 Jacqueline Dee Stubbee, Richfield
 Kenneth Lee Surbrook, Minneapolis
 Ronald Edward Svitak, Minneapolis
 Barbara Ann Swanson, Columbia Heights
 Launa Jean Swanson, Golden Valley
 Paul Warren Swanstrom, A.L.A., St. Paul
 Jerielyn Hildegard Swenson, Minneapolis
 Judith Ann Swenson, St. Paul, WITH DISTINCTION
 Paul Gaylord Swenson, St. Paul
 Eugene Raymond Swieringa, A.A., Vermilion Lake
 George Russell Swiergina, Tower
 Mary Jane Szymanski, Minneapolis, WITH DISTINCTION
 Mary Teresa Teisberg, St. Paul
 Barbara Gayle Bluem Terpstra, Minneapolis
 Phoebe Jo Anne Theisen, Minneapolis
 Christopher Thissen, Blooming Prairie
 Barbara Ann Thokey, Oak Lawn, Ill., WITH DISTINCTION

Carole Louise Thompson, Minneapolis
 Elizabeth Reynolds Thompson, Minneapolis
 Vivian Stewart Thompson, Minneapolis
 Colleen Rose Tisdell, *Excelsior*, WITH DISTINCTION
 Robert Allen Tomsich, A.A., Ely
 Dianne Marie Tschetter, *Jasper*, WITH DISTINCTION
 Wallace Frederick Urban, Buffalo
 Mary Catherine Vangen, St. Louis Park
 Joseph Leon Van Wie, Garfield
 James Kenneth Vick, Minneapolis
 Joyce Ratigan Vint, New Richland
 Carolyn Ann Wagnild, Minneapolis
 Curtis Erhard Wallman, A.A., Rochester, WITH DISTINCTION
 Thomas Michael Walsh, Duluth
 Mary Jane Ward, Minneapolis
 Kathryn Kirkman Warmath, Minneapolis, WITH DISTINCTION
 Beverly Jean Ring Warne, *Medford*, WITH DISTINCTION

Geraldine Lynn Watland, St. Paul
 Karen Ann Watrud, A.L.A., *Worthington*, WITH DISTINCTION
 Jean Irene Wedell, Minneapolis
 Allen Wood Wehr, Minneapolis
 Wendy Ann Weinstein, Duluth
 Charlene Mary Werner, Hampton
 Richard Adam Wetzler, Minneapolis, WITH DISTINCTION
 Rosemary Isabel Whiting, Australia
 Frank Vernon Whitney, Minneapolis
 Kathleen Jo Wiberg, Minneapolis
 Bruce Bishop Will, International Falls
 Susan Armistead Williams, Edina
 Sheila Ann Wilson, St. Paul, WITH DISTINCTION*
 Patricia Lynn Wolleat, A.A., *Brainerd*, WITH HIGH DISTINCTION
 Ardis Louise Parker Wood, B.B.A., Minneapolis
 Mary Jo Woodward, Minneapolis
 Pauline Zalans, Latvia
 Betty Jo Zander, Minneapolis
 Bonnie Rae Zemke, Minneapolis, WITH DISTINCTION
 Nancy Gail Zimmerman, Minneapolis

Master of Education

William John Abresch, B.A., St. Paul
 Mary Ann L. Anglim, B.S.N., Minneapolis
 Carl Herman Lipke, B.S., Faribault
 Richard David Montgomery, B.S., Waterville, Maine

Elizabeth Gay Mullin, B.S.N., Minneapolis
 Gerald Lee Sietsema, Olivia
 Bernice Flowers Strane, B.S., St. Paul
 John William Walther, St. Paul
 Ruth Velma Sipola Zimmerman, B.S., Robbinsdale

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Business Administration

Albert Richard DeCosse, Minnetonka
 Arthur Joseph Irons, Sr., St. Paul
 Kirby Michael Wagoner, A.A., Golden Valley

Russell Duane Westlund, Brooklyn Center

* Nursing Education Curriculum

Bachelor of Science in Business

- Leo Burton Alexander, Palisade
Leighton Jon Aronson, Annandale,
WITH DISTINCTION
Joanne Irene Avery, Baudette
Andrew Dewey Bailey, Jr., White Bear
Lake, WITH DISTINCTION
Irene Sylvia Femrite Bailey, Glenwood
Ernest John Bedor, Hopkins
Ronald E. Behm, Atwater
Jack Lee Bergerson, Minnetonka
Lyle Arnold Berman, Minneapolis
Saul Aaron Bernick, St. Paul
Marvin Lawrence Borgelt, Minne-
apolis
Robert Russel Borkhuis, Minot, N.D.
Richard Ben Boyum, St. Paul
Patrick William Butler, Whittemore,
Iowa
Conrad A. Bye, Crosby
James Robert Campbell, Byron
Lloyd George Carlson, Minneapolis
Kenneth Lee Clark, Broken Bow,
Neb.
David Glenn Cook, Austin
Harold Kenneth Criswell, St. Paul
Harris Isaac Darling, B.A., Worth-
ington
David Wayne Dickinson, Rosemount
Alan Jay Druskin, St. Louis Park
Kaye Marie Dunbar, South St. Paul
Roy William Ellison, Hopkins
David Allen Erickson, Minneapolis
Darell Richard Evers, Wabasha
Douglas Kingbay Ewing, Minneapolis
Louis Lynn Faulkner, A.A., St. Paul
James Harvey Felber, Minneapolis
James William Fiedler, Cokato
Clifford William Freudenberg, A.A.,
Parkers Prairie
James Fredric Frost, Stillwater
Terrence John Gern, Cook
Howard Duaine Glenna, A.A., Min-
neapolis
James John Grierson, Virginia
Rita M. Groenke, Minneapolis
Louis Charles Grunz, St. Paul
Richard Charles Gustafson, Interna-
tional Falls
Thomas William Haley, Minneapolis,
WITH DISTINCTION
James Milo Hanson, Minnetonka
Jerald Corell Hanson, Minneapolis
Bruce Edward Hendry, Minneapolis
Roger Vernon Herberg, Farmington
Allen Gary Highum, A.A., Austin
Laurence Anthony Hildreth, Minne-
apolis
Frederick Allman Hill, Minneapolis
Lawrence O. Hoff, Bagley
David Christie Hughes, Minneapolis
John Roy Jensen, St. Paul
Andrew Bernhard Johnson, Minne-
apolis
David Clarence Johnson, Rochester
Phillip Randolph Johnson, Minne-
apolis
James Leslie Judkins, St. Paul
Ronald Steven Kari, Minneapolis,
WITH DISTINCTION
David Otto Kauppi, Prairie Village,
Kan.
Paul Naylor Keaton, Minneapolis
Thomas Palmer Kelley, Bloomington
Jeffrey Stewart Kivens, Minneapolis
Donald Richard Klein, St. Paul
Kenneth Ludwig Knutson, Minne-
apolis
Karon Katherine Korpi, Hopkins
William Kreykes, St. Paul
Donald Milton Kvanbeck, Minne-
apolis
Dale Florent Lamski, Moorhead
David Edward Larson, A.L.A., Crystal
Jon David Larson, Minneapolis
Charles Paul Lemke, Glencoe
Ronald John Lindstrom, Minneota
Charles Henry Livens, Chisholm
George Monroe Lucas, Frankfort, Ind.
Geraldine Eileen Lungstrum, A.L.A.,
Minneapolis
William Richard Manson, Minne-
apolis, WITH DISTINCTION
Dale Raymond Mattinen, Minne-
apolis
William Blake McCowan, Jr.,
Rumford, R.I.
Peter Neils McGee, Minneapolis
Robert Lee Melamed, Wayzata
James Luverne Mitteness, Benson

Raymond Robert Murray, North St. Paul

James Richard Nash, St. Paul
Alan Owen Nelson, Little Falls
Joseph Michael Nelson, St. Paul
Glen Roger Nickell, St. Paul
Lance Brian Nyberg, Robbinsdale
James Wallace Nyholm, Minneapolis
Robert Neil Ojala, Hibbing
Daniel John Osterhus, Robbinsdale
John Dennis Parsinen, Hopkins
Darrell Bruce Pearson, Longville
Gene Archie Persian, Buffalo
Lois Christine Petersen, Fertile,

WITH DISTINCTION

Wendel Claus Peterson, Minneapolis
Gary Ronald Rawie, Minneapolis
Donna Mac Reber, Minneapolis
Gary Grant Redding, Houston
William John Roadfeldt, Robbinsdale

Kenneth Henry Rossow, Truman
Peter Knox Rumely, La Porte, Ind.
Michael Lawrence Ryan, St. Paul
Richard Eugene Schroeder, St. Paul,

WITH HIGH DISTINCTION

James William Sievers, Minneapolis
David Charles Skeels, Rochester
Jack Specktor, A.L.A., St. Paul

Judith Ann Stein, Delano, WITH DISTINCTION

Maurice Dean Stram, Minnetonka
James Timothy Streeter, Wayzata
Paul Clarence Sundeen, Cloquet
Donald Philip Swanson, Minneapolis
Frank Dann Swanson, Long Beach,

Calif., WITH DISTINCTION

Thomas Joseph Tahnk, St. Paul
David Alvin Tenquist, Hinckley
Howard Eli Tolkinen, Minneapolis
Daniel Vincent Topel, Minneapolis
Robert Otto Trebelhorn, Winthrop
Francis Arthur Walker, Seaside Heights, N.J.

Russell Lloyd Stevens Wall, Sr., A.A., Hillman

Ronald Douglas Walther, Minneapolis
John Harvey Wastvedt, Minneapolis
William Lloyd Waterman, Sanborn
Richard Dale Webb, Minneapolis
Richard Carl Welander, Virginia
Warren Marvin White, Minneapolis
Donald Bower Wilson, B.S., Minneapolis

Wendell Alan Wilson, Mound

Gary Stuart Zimmerman, Minneapolis
Gilbert Ambrose Zins, St. Paul, WITH DISTINCTION

Bachelor of Science in Economics

Dean Glen Anderson, Benson
Jacques DeFay, Haiti
Alan David Harris, St. Paul
Richard Ralph Leuthold, Minneapolis
Arthur Joseph Martinucci, St. Paul

Charles John Nix, South St. Paul
Thomas Doyle Spaeth, Jr., St. Paul
Thomas Perry Teresi, Colden Valley
Donald Brian Vander Heyden, St. Paul

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Bruce Clark Anderson, Minneapolis
Dennis Gordon Anderson, Minneapolis
Gary Merlyn Anderson, Mora
John Daniel Barbknecht, Waseca
Alfred Edward Bigot, Minneapolis
Paul Albert Black, Minneapolis

Barbara Ann Blomberg, St. Paul
Frank Rodney Brayshaw, Minneapolis
Arlo Rudolph Bussler, B.A., Stewart
Jerome Charles Cracraft, Minneapolis
Daniel Charles Dziuk, Foley
Jerome Virgil Evenson, St. Paul
Earl Douglas Finden, Minneapolis

Holly Rose Foster, Minneapolis
 Stiles John Fritz, South St. Paul
 Richard Albert Haight, South St. Paul
 John Norris Hanson, Harmony
 Timothy Robert Hay, Minneapolis
 Lester James Hogan, Grand Rapids
 Ronald Richard Johnson, Mora
 John Fredrick Klaverkamp, Sauk
 Rapids
 Eric Albert Lange, Robbinsdale
 Russell Lonny Lundstrom, Duluth
 Arthur B. Maus, Osakis
 James Henry Mulroy, Jr., Minne-
 apolis
 Wayne George Nelson, Coon Rapids
 Robert Peter Ochocki, Marshall
 James Lowell Ophus, Minneapolis

Robert William Paulson, Zumbrota
 Duane Willard Samuelson, North
 Branch
 James David Schaeffer, St. Paul
 Darryl Edward Schaumburg, Hector
 Stephen Earl Schmitz, Hutchinson
 Gregory Thomsen Sinner, Minne-
 apolis
 David Michael Skiff, Minneapolis
 Daniela Piotrowska Sorokvasha,
 Minneapolis
 David John Edward Strate, B.S., St.
 Paul
 Charles Wesley Thang, Minneapolis
 Keith Allen Thorkelson, Granite Falls
 Richard Allen Westin, Minneapolis

LAW SCHOOL

Bachelor of Laws

Frederic Francis Ahlgren, B.A., M.A.,
 Ogilvie
 Dean Hart Anderson, B.A., Minne-
 apolis
 Harvey Lee Anderson, B.A., Minne-
 apolis, MAGNA CUM LAUDE
 John Frederic Angell, B.A., St. Paul
 Bryan John Baudler, B.A., Austin
 Richard D. Berens, B.A., Rochester
 David Raymond Bergerson, B.A.,
 Wayzata
 Michael Stewart Berman, B.A., Du-
 luth
 G. Bart Bontems, B.A., Duluth
 Dennis Albert Bowman, B.S.B., St.
 Paul
 David Henry Breier, B.A., Minne-
 apolis
 Robert Frank Breuning, B.A., St.
 Paul, CUM LAUDE
 James Salter Burris, B.A., Minneapolis
 James Cotton Carroll, B.A., Edina
 Richard Raymond Chabot, B.S., Du-
 luth
 Edward Merlyn Christian, B.A., Rich-
 field
 Ford William Crouch, B.A., Minne-
 apolis

Robert John Curnan, B.A., Daven-
 port, Iowa, CUM LAUDE
 Harris Isaac Darling, B.A., Worth-
 ington
 Kurt John Darr, Jr., B.A., Wahpeton,
 N.D.
 Stephen Isaac Dokken, B.A., Fari-
 bault, CUM LAUDE
 Jerome Francis Donohoe, B.A., Yank-
 ton, S.D., CUM LAUDE
 Paul Dennis Dove, B.A., Minneapolis,
 CUM LAUDE
 Peggy Doyle, Minneapolis
 Harold Almer Dronen, B.A., Finley,
 N.D.
 Jerry Glenn Dygert, B.A., Minne-
 apolis, MAGNA CUM LAUDE
 David Benjamin Eide, B.A., St. Paul
 Richard Austin Emerick, B.A., St.
 Paul
 Patrick Anthony Farrell, South St.
 Paul
 Leo Francis Feeney, B.A., Boston,
 Mass.
 Solomon Marvin Feldmon, B.A.,
 Chelsea, Mass.
 Thomas Vincent Firth, B.A., Minne-
 apolis, CUM LAUDE

Paul John Fitzgerald, B.A., Minneapolis
 Gary Arthur Flatten, B.A. cum laude, Caledonia
 Curtis H. Foster, B.A. cum laude, Garvin
 Richard David Goff, B.A., Minneapolis
 Raleigh Z. Goldberg, B.B.A., Minneapolis, CUM LAUDE
 Gary Martin Green, B.S. Econ., St. Paul
 Alan Graham Greenberg, B.M.E., Minneapolis
 Richard Robert Grosgebauer, B.A., Minneapolis
 Loren Gross, B.A., Minneapolis, CUM LAUDE
 Jerry Jake Hanenburg, B.A., Minneapolis
 Gary Paul Hanson, B.A., Minneapolis
 David Keith Hebert, B.A., Chippewa Falls, Wis.
 Robert Kilton Hick, B.A., Oak Park, Ill.
 Gary Curtis Hoffman, B.S. Econ., Minneapolis, CUM LAUDE
 Roy William Holsten, B.A., Minneapolis
 Peter Comey Jaquith, B.A., Worcester, Mass., CUM LAUDE
 Brian L. Johnson, B.A., Des Moines, Iowa
 Victor Carl Johnson, B.A., Minneapolis
 David Webber Johnston, B.S.B., Minneapolis
 Daniel Matthew Kammeier, B.A., Cold Spring
 Harvey Frederick Kaplan, B.B.A., St. Paul, CUM LAUDE
 Wendell Arthur Kjos, B.A., Alexandria
 Horace Blair Klein, B.A., St. Paul
 Loren Roy Knott, B.A., Willmar, MAGNA CUM LAUDE
 Paul Arthur Larsen, B.S.B., Itasca, Ill.
 Steven Leonard Larson, B.A., Minneapolis, CUM LAUDE
 Raymond Michael Lazar, B.B.A., St. Louis Park
 Karen Sonia Lee, B.A., Cambridge
 Morton Hirsch Letofsky, B.A., St. Louis Park
 Roberta Kaplan Levy, B.A., Minneapolis, MAGNA CUM LAUDE
 David Rolf Linden, B.A., Great Falls, Mont.
 John M. Lundsten, B.A., Buffalo, CUM LAUDE
 Donald Wayne Marken, B.A., Duluth, CUM LAUDE
 Phillip Hammond Martin, B.A., St. Paul, CUM LAUDE
 Joel C. Maurer, Minneapolis
 William Roger McGrann, B.S., Owatonna
 Daniels Wyman McLean, B.S.L., Anchorage, Alaska
 Theodore Robert Mellby, Minneapolis
 William Aron Meyer, B.A., St. Paul
 George Lewis Michael III, B.A., Edina
 Harry Talbot Neimeyer, Duluth
 James Morton Neville, B.A., Minneapolis, MAGNA CUM LAUDE
 James Joseph O'Connor, B.A., Hastings, CUM LAUDE
 Walter Walseth Ostrom, B.A., Minneapolis, CUM LAUDE
 James Arthur Perkins, B.A., Chatfield
 James Marshall Perrigo, B.S., Madison, Wis.
 Michael Peter Perry, B.S., Appleton, CUM LAUDE
 George Olvige Petersen, B.A., New Ulm
 Paul Harry Ravich, B.B.A., Minneapolis, CUM LAUDE
 George F. Reilly, B.A., M.S., Minneapolis, MAGNA CUM LAUDE
 Howard Scott Rhoads, B.A., B.S., St. Paul
 Renate Maria Richter, B.A., Munich, Germany
 Gerard William Ring, B.S., Lake City
 Marshall Seymour Rose, B.B.A., Minneapolis

John Michael Rosso, B.A., Minneapolis
 John Michael Roue, B.A., Fosston
 James Henry Sargent III, B.A., St. Louis Park
 Michael Joseph Sauntry, B.A., Duluth
 Roger Donald Sax, B.A., White Bear Lake
 Mahlon Craig Schneider, B.A., Truman
 Ronald H. Schneider, B.B.A., Westbrook
 Jan M. Sebby, B.A., Minot, N.D.,
 MAGNA CUM LAUDE
 Walt Harold Sirene, B.S.B., Edina
 Linn Alden Slattengren, B.A., Taylors Falls
 David Lawson Smith, B.A., Cloquet
 Richard Charles Smith, B.S.B., Minneapolis
 Michael Sheridan Smutny, B.A., Minneapolis

Thomas Jay Squier, B.A., Minneapolis, CUM LAUDE
 John Henry Strothman, B.A., Minneapolis
 Glenn Alton Sunness, B.B.A., Minneapolis
 Lawrence Lee Swandby, B.A., Edina
 Thomas Michael Sweeney, B.A., St. Paul
 Raymond Martin Theobald, B.A., Duluth
 Raymond Frank Vodovnik, B.M.E., Chisholm
 Theodore Paul Wangensteen, B.A., Minneapolis
 Kenneth Joel Weil, B.A., Minneapolis
 James Douglas Wiese, B.A., Luverne,
 MAGNA CUM LAUDE
 Thomas Hamner Williams, B.E.E., Excelsior
 John Henry Wolf, B.S.B., Truman,
 CUM LAUDE

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

Jerome Carl Ahrendt, Maple Plain,
 WITH DISTINCTION
 Alfred William Anderson, Parkers Prairie
 Raymond O. Benson, Adrian
 Bertram Rangvold Berg, Maddock, N.D.
 Paul Lewis Berge, Valders, Wis.
 Roger William Boser, Pierz, WITH DISTINCTION
 Gerald Francis Brancich, Nashwauk
 Byron Lynn Buchli, Arcadia, Wis.
 Gerard Albin Dahl, Lake Lillian
 Robert Andrew Dietl, Minneapolis
 Ronald Frank Dubbe, Jordan
 Offiong Okon Edem, Nigeria, West Africa
 Larry Edwin Eilts, Spencer, S.D.,
 WITH DISTINCTION
 Duane A. Erickson, Dalbo
 Richard Eugene Faivre, Lake Geneva, Wis.

Ellen Louise Ferdon, Buffalo
 Laszlo Agoston Fries, Emery, S.D.
 John Gustav Fritsche, Milwaukee, Wis.
 James N. Gleason, Anoka
 Edward Donald Halls, Sedan
 David Gerald Klomp, Harmony,
 WITH DISTINCTION
 Ronald John Kolata, Watertown, Wis.
 David Norval Lamphere, Arkansas, Wis.,
 WITH HIGH DISTINCTION
 Thomas Alton Lang, Glenville
 Alice L. Lareen, Cumberland, Wis.
 Roger Roy Madison, Luverne
 Alan David Mendenhall, Garden City
 William G. Olson, Wheeler, Wis.
 Thomas J. Poindexter, Ree Heights, S.D.
 John Frank Quast, Winsted, WITH HIGH DISTINCTION

Mark Allen Schimelpfenig, Minne-
apolis
Kenneth Allen Schulte, Corona, S.D.,
WITH DISTINCTION
Charles Albert Stancer, Randolph,
Wis., WITH DISTINCTION
James Arthur Swenberg, Detroit
Lakes, WITH DISTINCTION
George Marion Szczech, Stanley, Wis.
George A. Twitero, Sisseton, S.D.

Earl Royce Wahlstrom, Franklin,
WITH DISTINCTION
James Edwin Warling, St. James,
WITH DISTINCTION
Gail Donavon Williams, Huron, S.D.,
WITH HIGH DISTINCTION
Keith Vlad Wold, Mabel
Gustave Charles Wruck, Pierz, WITH
DISTINCTION

Doctor of Veterinary Medicine

Wilhelm Paul Ramon Aanestad, B.S.,
St. Paul
James Lawrence Andrews, Shafer
John Breiland, B.S., St. Paul
James Richard Claesgens, B.S., St.
Cloud
Robert Dean Cleary, B.S., Sleepy Eye
Susan Mary Daniels, B.S., Chaska
David Allan Espeseth, B.S., Benson
Ronald Dale Ferguson, B.S., Austin
Dale Alvin Foss, B.S., Milbank, S.D.
James N. Gleason, Anoka
Dennis James Goltz, Marion, Wis.
Robert Louis Hickman, St. Paul
John Frederick Hotvet, B.S., Minne-
apolis
Donald Robert Janecek, B.S., West
St. Paul
Kenneth Gustav Krueger, B.S., Ceylon
Ronald Duane Kuecker, B.S., Hadley
Florian Bernard Ledermann, B.S.,
Brandon

Glen Joseph Loosbrock, B.S., St. Paul
Kernit M. Lyngaas, B.S., Doran
James Roderick McLeod, B.S., St.
Paul
Harold Oscar Miller, B.S., Foley
James Burton Moe, B.S., Hayfield
James Donald Mortimer, B.S., Belle
Fourche, S.D.
Geraldine Raymond Osterberg, B.S.,
Rochester
Gregory Jon Peterson, B.S., Excelsior
Duane Arthur Putilo, B.S., Duluth
Michael J. Rasmussen, B.S., Hopkins
Ronald Dean Ree, B.S., Montevideo
Wesley Grant Schroeder, B.S., Be-
midji
Robert John Stukel, Jr., B.S., Minne-
apolis
Jerome Gustav E. Vestweber, B.S.,
Lakefield
Howard Andrew Weyker, St. Paul

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Carol Jane Anderson, Two Harbors
Barbara Ann Bray, Robbinsdale
Lois Ann Bubel, Minneapolis
Donna Marie Caldwell, Ellendale,
N.D.
Jane Ellen Cook, St. Paul
Barbara Jean Daniels, Crystal
Patricia Ann Diegel, Golden Valley
Barbara Rae Efron, St. Paul
Diane Virginia Gallup, Edina

Julie Anne Hoyer Gleason, Minne-
apolis
Lynn Elizabeth Gulden, St. Paul
Jill Foss Hallquist, Minneapolis
Gail Anne Jensen, Denver, Colo.
Janet Lillian Kallestad, Minneapolis
Vicki Fay Lazar, St. Paul
Kathryn Anderson Lund, Minneapolis
Karen Mae McNiece, Minneapolis
Judith Ann Michl, Hopkins

Joann Louise Miller, Custer, S.D.
 Carol Mae Nelson, Cloquet
 Inez Lorene Nelson, Warren
 Sandra Lea Nielsen, St. Paul
 Marion Martha Pelach, Farmington
 Karen Marie Pinc, Minneapolis
 Joanne Elizabeth Pitt, Minneapolis
 Patricia Murnane Postlewaite, St. Paul
 Ann Marie Rauenhorst, Olivia

Evelyn Reese, St. Paul
 Kathleen Anne Richardson, Hopkins
 Diane E. Schmidt, Minneapolis
 Alice Faye Strandlund, Cambridge
 Lynn Diane Wellumson, Minneapolis
 Barbara Frances Wick, St. Paul
 Eileen Eleanor Wilken, Coon Rapids
 Barbara Ann Wright, Hopkins

Bachelor of Science

Thomas Earl Alderson, Grand Forks,
 N.D.
 Dennis Wayne Anderson, Minne-
 apolis
 Maynard Charles Anderson, B.A.,
 Minneapolis
 Lee Allen Armstrong, Benson
 Robert Armond Arnold, Hazel, S.D.,
 WITH HIGH DISTINCTION
 Roger Eugene Austin, Merrifield
 John William Beavens, B.A.E., B.A.,
 St. Paul, WITH HIGH DISTINCTION
 Edward Michael Beckman, Jordan,
 WITH DISTINCTION
 Glenn Frank Benson, Worthington
 Robert Bruce Browning, Anaconda,
 Mont.
 Arnold Benson Carver, Minneapolis,
 WITH HIGH DISTINCTION
 Stephen Herbert Christensen, St. Paul
 Kemper Morris Cowgill, B.A., Min-
 neapolis
 Gary Manuel Dahl, Minot, N.D.
 John Henry Demarais, Coleraine
 Robert Chapin Dolven, Minneapolis,
 WITH HIGH DISTINCTION
 Louis John Eich, Little Falls
 James Matthew Ekse, Russell
 Robert Eugene Elkjer, A.A., Willmar,
 WITH DISTINCTION
 Gary Raymond Ellingson, Northfield
 Darwin Walter Engen, Crookston
 Jerome Austin Erickson, Minneapolis
 John William Fischer, Minnesota
 Lake
 Robert Lee Gahnz, Hastings
 Allan Robert Garvis, B.A., Minne-
 apolis

Lawrence Elmer Gjerstad, Eagle Bend
 Stanley Alan Golden, Duluth
 Peter Alexander Haarala, Virginia
 Dale Amory Hansen, Killdeer, N.D.
 Thomas Guthrie Hanson, B.A., Frid-
 ley
 Michael John Harrison, Minneapolis
 Curtis Harold Hattstrom, Robbinsdale
 John Edward Heldridge, St. Paul
 James Victor Herrick, Austin
 Kent Arthur Hove, Kimberly, Idaho,
 WITH DISTINCTION
 Larry James Hovey, B.A., Wolf Point,
 Mont.
 John Richard Isaacson, St. Paul, WITH
 DISTINCTION
 David Merton Johnson, Eau Claire,
 Wis.
 Thomas Keith Johnson, New Brighton
 Douglas Arthur Jolstad, Franklin,
 WITH DISTINCTION
 Bruce James Jordahl, Olivia
 Richard James Kaisersatt, St. Peter
 Eugene Russell Kaplan, St. Paul
 David George Keup, Mohall, N.D.
 Loren William Kihlstrom, Grand
 Forks, N.D., WITH DISTINCTION
 Millard Julian Kimery, Neoga, Ill.,
 WITH DISTINCTION
 Richard James Litman, Duluth
 Dale Henry Louis, Paynesville, WITH
 DISTINCTION
 Gary Robert MacCarthy, Minneapolis
 Herbert Sheldon Malmon, St. Paul
 Rodney Frederick Meyer, Kenyon
 William David Middleton, Crosby
 Stewart Allen Moss, St. Louis Park
 Robert Charles Mossefin, Argyle

John Allen Muenzhuber, Willmar
 Thomas Dee Ockey, Salt Lake City,
 Utah
 Lynn Willard Odne, St. Thomas,
 N.D.
 Robert Douglas Olson, B.A., Hanley
 Falls
 Stephen Arnold Olson, Hallock
 David Andrew Pajala, Brainerd
 Paul Albert Poss, B.A., St. Paul
 David John Reeder, Rapid City, S.D.
 Gary William Rene, Pembina, N.D.
 Thomas Hayes Risbrudt, Jamestown,
 N.D.
 Maurice Robert Rollins, Mitchell,
 S.D.
 Robert Oscar Rydell, Jr., St. Paul
 Norbert Donald Schmitt, Jr., Austin
 Daniel Stuart Schoeneman, B.A.,
 Owatonna

Donald James Schulte, A.A., Pine
 Island
 John Andre Sund, Rochester
 Richard Vincent Swenson, Mandan,
 N.D.
 John Wayne Thibodo, Stephen
 Richard Glenn Tollefsbol, Minne-
 apolis
 Floyd Daniel Trautmann, A.A.,
 Hastings
 Richard Perry Walters, La Crosse,
 Wis.
 Donald Lee Weinrich, Rochester
James Herbert Wittnebel, Glenwood,
 WITH HIGH DISTINCTION
 Henry Comstock Youngman, Barron,
 Wis.
 Paul Eric Zehngraft, Minneapolis
 William Robert Ziminski, Minne-
 apolis

Doctor of Dental Surgery

Dennis Wayne Anderson, Minne-
 apolis
 Maynard Charles Anderson, B.A.,
 Minneapolis
 John William Beavens, B.A.E., B.A.,
 St. Paul
 John Charles Bengtson, B.S., Dassel
 Sheldon Marvin Bernick, B.S., St.
 Paul
 William Henry Brinkman, B.S., St.
 Paul
 Robert Bruce Browning, Anaconda,
 Mont.
 Charles Frederick Bungum, Rochester
 James Duncan Burbidge, B.S., Stanley,
 N.D.
 Dennis Rae Carlson, B.S., Clinton
 Fredrick Denny Carlson, B.S., Tri-
 mont
 Gary Leroy Carlson, B.A., St. Louis
 Park
 James Edwin Carlson, B.S., Alexan-
 dria
 Arnold Benson Carver, Minneapolis
 Carl Christian Caspersen, B.A.,
 Minneapolis

Gary Manuel Dahl, Minot, N.D.
 Melvin Eugene Dale, B.S., Mora
 James Roy Folske, B.S., Bowman,
 N.D.
 Gary Luell Gage, B.S., Lewiston,
 Idaho
 Allan Robert Garvis, B.A., Minne-
 apolis
 Thomas Richard Gebeck, B.S., Min-
 neapolis
 Roger Henry Gerloff, B.S., Le Roy
 Richard Wayne Gross, B.S., Luck,
 Wis.
 Lawrence George Gunner, B.S.,
 White River, S.D.
 Curtis Harold Hattstrom, Robbins-
 dale
 James Victor Herrick, Austin
 Kent Arthur Hove, Kimberly, Idaho
 James Erling Indrehus, B.S., Minne-
 apolis
 Paul Walter Johnson, St. Paul
 Thomas Keith Johnson, New Brighton
 Walter Courtney Johnson, St. Louis
 Park
 Eugene Russell Kaplan, St. Paul

Gene Samuel Kelley, B.S., Garden City
 Walter Stanley Krawczyk, B.S., Minneapolis
 Richard Charles Lang, B.S., Paynesville
 Joseph Michael Lapinski, B.S., Minneapolis
 Jary Jay Larson, B.S., Rochester
 Richard Ptak Lundgren, Minneapolis
 Gary Robert MacCarthy, Minneapolis
 Herbert Sheldon Malmson, St. Paul
 James Ludwig Mayerle, Keewatin
 Rodney Frederick Meyer, Kenyon
 William David Middleton, Crosby
 Stewart Allen Moss, St. Louis Park
 John Allen Muenzhuber, Willmar
 Michael Anthony Neary, B.S., Minneapolis
 Thomas Dee Ockey, B.S., Salt Lake City, Utah
 Lynn Willard Odne, St. Thomas, N.D.
 Richard Gayus Ogle, B.S., Marshall
 Robert Douglas Olson, B.A., Hanley Falls
 James Nicholas Peters, Little Falls
 Ronald William Pflieger, B.S., Sturgis, S.D.
 Paul Albert Poss, B.A., St. Paul
 David John Reeder, Rapid City, S.D.
 Gary William Rene, Pembina, N.D.
 Thomas Hayes Risbrudt, Jamestown, N.D.
 Robert Oscar Rydell, Jr., St. Paul
 Eugene Hersh Scherling, B.S., Minneapolis
 Eric Gordon Schleder, B.S., M.S., Winona

Ronald Paul Schmidt, B.S., Mt. Horeb, Wis.
 David Hedges Schroeder, A.A., B.S., Rochester
 Donald James Schulte, A.A., Pine Island
 Richard Williamson Scott, B.S., Eau Claire, Wis.
 Thomas William Stacy, Minneapolis
 Joseph Peter Steiner, B.S., Minneapolis
 Robert Emil Substad, B.S., Minneapolis
 John Andre Sund, Rochester
 Carl William Svare, B.S., Minneapolis
 Ralph Dale Swenson, B.S., Robbinsdale
 Richard Vincent Swenson, Mandan, N.D.
 Dean Thomas Teusaw, B.S., Minneapolis
 Robert Wayne Tjossem, B.S., Worthington
 Terrance Lawrence Tri, B.S., Hastings
 Donald Lee Weinrich, Rochester
 Herbert Neal Weisman, B.S., Minneapolis
 Irwin Earl Weiss, B.A., St. Paul
 James Herbert Wittnebel, Glenwood
 Norman Lyle Wolseth, B.S., Fargo, N.D.
 Henry Comstock Youngman, Barron, Wis.
 Paul Eric Zehngraff, B.S., Minneapolis
 Walter Marshall Zierman, B.S., Little Falls
 John Henry Zimmer, Jr., B.S., Minneapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing Administration

Ethel Jean Potter Beske, Stillwater,
 WITH DISTINCTION

Evelyn Ann Heil, Darwin

Bachelor of Science

- Lynn Bette-Ann Ahlin, Marshall,
Physical Therapy
- John David Anderson, B.A., M.D.,
Minneapolis, Medicine
- Jeffrey Allan Arenson, B.A., St. Paul,
Medicine
- Eileen Sherry Auerbach, Minne-
apolis, Occupational Therapy
- Mary Truelsen Aultfather, G.N., St.
Paul, Public Health Nursing, WITH
DISTINCTION
- Joanne Audrey Austvold, Herman,
Public Health Nursing
- John Winslow Balkins, Minneapolis,
Medicine
- Martha Joann Bang, Philadelphia, Pa.,
Physical Therapy
- Jon Herbert Bayers, Minneapolis,
Medicine
- Janice Carolyn Benson, A.A., St. Paul,
Physical Therapy
- Ralph William Bergstrom, Jr., B.A.,
Hutchinson, Medicine
- Stuart Howard Borken, Minneapolis,
Medicine
- Diane Moschogianis Boyce, Minne-
apolis, Physical Therapy
- Betty Ella Brandt, Ladysmith, Wis.,
Physical Therapy, WITH HIGH DIS-
TINCTION
- Theodore Joseph Buselmeier, Buffalo,
Medicine
- Conrad Stuart Butwinick, B.A., St.
Louis Park, Medicine
- Catherine Ann Cairncross, St. Paul,
Occupational Therapy, WITH DIS-
TINCTION
- Joy Janelle Carll, Austin, Medical
Technology, WITH DISTINCTION*
- Nancy Marie Carlson, St. Paul, Medi-
cal Technology*
- Dorothy Brunn Clapp, St. Paul, Pub-
lic Health Nursing
- Carolyn Elizabeth Collins, Minne-
apolis, Medical Technology*
- Larry Melvin Colman, B.A., Minne-
apolis, Medicine
- Emily Ann Conrath, St. Paul, Public
Health Nursing
- Robert Warren Conroy, Minneapolis,
Medicine
- Lucile Conley Cook, Wichita, Kan.,
Public Health Nursing, WITH DIS-
TINCTION
- Eileen Annette Dahlin, Minneapolis,
Occupational Therapy, WITH DIS-
TINCTION
- Judith Rae Johnson Damerow, Elk
River, Physical Therapy, WITH DIS-
TINCTION
- Judith Coons D'Andrea, Hibbing, Oc-
cupational Therapy, WITH HIGH
DISTINCTION
- Dorothy Elizabeth Dederich, Baraboo,
Wis., Public Health Nursing
- Patricia Ann DeMars, Minneapolis,
Occupational Therapy
- Roger Anthony Dreyling, St. Paul,
Medicine
- Steven Richard Drosman, B.A., Fair-
mont, Medicine
- Francis J. Eason, B.A., Minneapolis,
Medicine
- Doris Ann Eliason, A.L.A., Minne-
apolis, Physical Therapy
- Arlene Mavis Erickson, St. Paul, Pub-
lic Health Nursing
- Hashem Fatemi, Iran, Medicine
- Gayle Marie Fellingner, St. Paul, Medi-
cal Technology, WITH DISTINCTION*
- James Arthur Fischer, Linton, N.D.,
Medicine
- Bonnie Jean Fjeld, Morris, Occupa-
tional Therapy
- Mary Margaret Flynn, Fairmont,
Medicine
- David Ross Foreman, B.A., Paynes-
ville, Medicine
- Nils Rune Forsen, Stockholm,
Sweden, Medicine
- Joan Darleen Foss, Sandstone, Physi-
cal Therapy, WITH DISTINCTION
- Melvin Julius Frisch, Virginia, Medi-
cine

* These degrees are conferred subject to the completion of practical work prior to December 19, 1964.

- Eleanore Claudia Funk, Richfield, Occupational Therapy, WITH DISTINCTION*
- Robert Cole Gloss, B.A., Duluth, Medicine
- John Sherwin Godes, B.A., St. Paul, Medicine
- John Richard Goetz, B.A., Minneapolis, Medicine
- Gary Alan Gustason, Minneapolis, Medicine
- Lonnie Lee Hammargren, Rush City, Medicine
- Barbara Rose Hanson, White Bear Lake, Medical Technology*
- Betty Jean Hanson, Bristol, S.D., Public Health Nursing, WITH DISTINCTION
- Susan Jane Harmer, Duluth, Occupational Therapy, WITH DISTINCTION
- Karen Rosalie Hasti, Osseo, Occupational Therapy
- Sandra Lee Haug, Minneapolis, Physical Therapy
- Neil Robert Hoffman, B.A., Minneapolis, Medicine
- Betty Ann Holmquist, Gibbon, Medical Technology, WITH DISTINCTION*
- Terrence Paul Horrigan, Virginia, Medicine
- Holly Hunt, St. Paul, Medical Technology*
- Ronald Eugene Jacobson, Hibbing, Physical Therapy, WITH HIGH DISTINCTION
- William Earl Jacott, B.A., Duluth, Medicine
- Clayton A. Johnson, B.A., Chisholm, Medicine
- Glenn Erick Johnson, A.A., West St. Paul, Physical Therapy
- Roger Alan Johnson, B.A., Minneapolis, Medicine
- Sarah Lynn Johnson, St. Paul, Occupational Therapy, WITH DISTINCTION
- Loren Roger Keldahl, B.A., Bloomington, Medicine
- Kenneth Dean Kerr, Hibbing, Medical Technology*
- David Neol Kettleleson, B.A., St. Paul, Medicine
- Viola Fernetta Schaible Knapp, R.N., Coon Rapids, Public Health Nursing
- LaMonte Peter Koop, Cold Spring, Medicine
- Jane Bertha Krueger, North Branch, Occupational Therapy, WITH DISTINCTION
- Richard Buro Langer, B.A., Minneapolis, Medicine
- Robert James LaPerriere, B.A., St. Louis Park, Medicine
- Darlene Joan Laroche, Mahtomedi, Physical Therapy
- Elsie Sunsdahl Latawicz, Minneapolis, Public Health Nursing, WITH DISTINCTION
- Kathleen Jo Laughlin, St. Cloud, Occupational Therapy
- Richard Phelps Linden, Hibbing, Medicine
- Geza Locsey, Minneapolis, Medicine
- Chun Kyu Loh, B.A., Seoul, Korea, Medicine
- Jerry Lee Long, A.A., Fort Dodge, Iowa, Physical Therapy
- Lois Mae Lundemo, Elk River, Public Health Nursing
- Anita Louise Lussier, Redby, Public Health Nursing
- Carol Kay March, St. Paul, Physical Therapy
- Mary Kay Mart, Minneapolis, Medical Technology*
- Judith Belle Martinson, A.L.A., St. Paul, Physical Therapy, WITH DISTINCTION
- Janet Marie Masonick, Browerville, Medical Technology, WITH DISTINCTION*
- Judith Eileen McDaniel, Placerville, Calif., Occupational Therapy
- Thomas Owen McNamara, Minneapolis, Medicine
- Barbara Hope Miller, Minneapolis, Medical Technology*

* These degrees are conferred subject to the completion of practical work prior to December 19, 1964.

- Jerrold Marshall Milstein, B.A., Minneapolis, Medicine
- Susan Janette Mittelstaedt, Minnetonka, Occupational Therapy
- Judie Kay Mull, Brainerd, Medical Technology*
- Marilyn Joyce Nelsen, R.N., North St. Paul, Public Health Nursing
- Judith Anne Nelson, St. Paul, Medical Technology*
- Clifford Dale Nielsen, Duluth, Medicine
- George Philip Norbeck, B.A., Redfield, S.D., Medicine
- Leonard Andrew Nordstrom, St. Louis Park, Medicine
- Donald Warren Oines, B.A., Volga, S.D., Medicine
- Donna Messerli Olson, St. Paul, Medical Technology, WITH HIGH DISTINCTION*
- Grayson R. Osteraas, B.A., Willmar, Medicine
- Robert David Ostrow, B.A., Minneapolis, Medicine
- Carol Mae Ott, Minneapolis, Medical Technology*
- Carolyn Martha Over, Minneapolis, Physical Therapy
- Mary Lynn Parker, Detroit Lakes, Medical Technology*
- Aaron Eaton Parkhurst, Albert Lea, Medicine
- Hugo Robert Paulson, Duluth, Medicine
- William Lance Pedersen, Anoka, Occupational Therapy
- Antoinette Marie Perko, Biwabik, Medical Technology*
- Betty Jean Person, Bagley, Occupational Therapy
- Jerome DuMont Poland, B.A., Minneapolis, Medicine
- James Peter Polga, B.A., Hastings, Medicine
- Ruth Bryant Purtilo, St. Paul, Physical Therapy, WITH HIGH DISTINCTION
- Roger Alan Rabold, South St. Paul, Medicine
- Marcia Jean Ray, Little Falls, Physical Therapy, WITH HIGH DISTINCTION
- Kaye Vivian Reiersen, Hopkins, Occupational Therapy
- John Calvin Remsberg, Tracy, Medicine
- Jack Steven Resnick, St. Paul, Medicine
- Jeanne Carol Rice, Milaca, Medical Technology*
- Caroline Robertson, Lahore, West Pakistan, Public Health Nursing
- Gerald F. Ronning, B.A., Minneapolis, Medicine
- Thomas Joseph Rose, B.A., St. Paul, Medicine
- Hanan Joseph Rosenstein, B.A., St. Louis Park, Medicine
- Philip Norman St. Louis, Northome, Medical Technology*
- Mary Gail Sanford, St. Paul, Medical Technology, WITH HIGH DISTINCTION*
- Ann Jean Schissel, Adams, Occupational Therapy, WITH HIGH DISTINCTION
- James Robert Shanks, B.A., Minneapolis, Medicine
- Alvin Shemesh, B.A., Minneapolis, Medicine
- Charlotte Ann Sherwood, Springfield, Occupational Therapy, WITH HIGH DISTINCTION
- Barry Freed Silverman, A.A., B.A., Minneapolis, Medicine
- Patricia Ellen Skoog, Minneapolis, Medical Technology*
- Primus J. Skumatz, Jr., Eveleth, Medicine
- Stephen Addison Smith, B.A., Edina, Medicine
- Clinton Fuller Snyder, B.A., Minneapolis, Medicine
- Jo Ann Sorenson, Wheaton, Public Health Nursing
- Sheridan Sterling Haynes Stevens, B.A., Minneapolis, Medicine

* These degrees are conferred subject to the completion of practical work prior to December 19, 1964.

- John Wells Stewart, B.A., Lead, S.D.,
Medicine
- M. Thomas Stillman, B.A., Minne-
apolis, Medicine
- June Elizabeth Swanson, Minneapolis,
Occupational Therapy
- Thomas Raymond Swanson, B.A.,
Richfield, Medicine
- Susan Jean Tankersley, Grand Rapids,
Physical Therapy
- Edwin Gustaf Tegenfeldt, B.A., St.
Paul, Medicine
- Richard Frank Thompson, A.A., B.A.,
Rochester, Medicine
- James John Tiede, B.A., Le Center,
Medicine
- Rachel Eta Weiner Trockman, B.A.,
Minneapolis, Medicine
- Gary Eugene Underhill, Minnetonka
Village, Medicine
- Marcia Jean Uttley, Duluth, Physical
Therapy
- Leo Joseph Van Keulen, B.A., Minne-
apolis, Medicine
- Neal Richard Vanstrom, B.Phys. with
distinction, Bemidji, Medicine
- Gerald Joseph Vosika, Minneapolis,
Medicine
- Jon Eugene Wallestad, Amboy, Medi-
cine
- Murray Algee Warmath, Jr., Edina,
Medicine
- David Max Weston, Minneapolis,
Medicine
- Dexter D. Whittemore, Jr., B.A.,
Bemidji, Medicine
- William Michael Wiencke, Minne-
apolis, Medicine
- Jane Louise Will, International Falls,
Occupational Therapy
- Jo Ann Mattson Wilson, Minneapo-
lis, Physical Therapy
- Kent Shannon Wilson, Bemidji,
Medicine
- Judith Ann Wold, Thief River Falls,
Occupational Therapy
- Judith Rae Wyatt, Urbana, Ill., Medi-
cine
- Marshall Jay Zamansky, St. Paul,
Medicine

Master of Hospital Administration

- David Lowell Bjornson, B.S., Moor-
head
- Kenneth Mundahl Boyum, B.A.,
M.S.W., Minneapolis
- John L. Carr, B.S.B., Byers, Kan.
- Harold Allan Dahl, B.A., Aurora, Ill.
- Allan Eugene Davis, B.S.B., Kansas
City, Mo.
- Frank Donald Davis, B.S.B., Gallatin,
Tenn.
- Charles Joseph Ederer, B.A., Albu-
querque, N.M.
- John Lawrence Gildner, B.A., Austin
- Paul Edward Graff, B.A., Britton,
S.D.
- David Kenneth Hamry, B.S.B., Min-
neapolis
- Garth Edwin Hinderman, B.A., M.A.,
Owatonna
- Glenn Morris Johnson, B.A., Minne-
apolis
- James Arnold Kretschmar, B.A.,
Fulda
- Ronald William Labott, B.B.A., Mil-
waukee, Wis.
- Thomas Seymour LaMotte, Har-
lingen, Tex.
- Richard Ralph Lansing, B.A., St.
Cloud
- Carl Thomas Larson, B.S.B., Noko-
mis, Ill.
- Thomas Ryden Mattison, B.A., Min-
neapolis
- William E. Osborne, B.S., Elkhart,
Ind.
- Edward Carlin Peddie, B.S., Bristol,
Fla.
- James Roscoe Petersdorf, B.S.B., Aus-
tin
- Robert Emery Raitz, B.B.A., M.B.A.,
Toledo, Ohio
- Stephen Rogness, B.A., St. Paul

James Edward Sauer, Jr., B.S.B., Graf-
ton, N.D.
Gerald Roy Sauter, B.A.B.A., Excel-
sior
Gerald Ernest Schley, B.S.B., Wau-
kesha, Wis.
Michael Robinson Schwartz, B.A.,
St. Louis, Mo.

Kent Bryce Sherwood, B.S.B., Minne-
apolis
Robert James Taylor, B.S.B., Minne-
apolis
Bruce Delbert Wilhelm, B.S., Phoe-
nix, Ariz.

Master of Nursing Administration

Robert James Johnson, B.N.A.,
Sleepy Eye

Marie Ellen Manthey, B.S.,
Minneapolis

Master of Public Health

Golamali Akhavan-Leyliabadi, M.D.,
Tehran, Iran
Ronald Dwain Anderson, B.S.,
D.V.M., Halstad
John Wentworth Arthur, B.S., M.S.,
Robbinsdale
Ejigou Ayenew, B.S., Addis Ababa,
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Daniel Ray Bain, B.A., Benton, Ill.
Irving Lee Bell, B.S., Frankfort, Ky.
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Sylvia Kent Bohlayer, B.A., Canton,
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Robert Milton Brice, B.Ch.E., Min-
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Willis Charles Bruton, B.S., Roches-
ter, N.Y.
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Wash.*
Badruddin Chaudhary, Lahore, Pak-
istan
William Allen Coey, B.S., Seattle,
Wash.
Trenton Cooper, B.S., M.S., Hugo,
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Charles Francis Cummins, B.S., Lo-
gan, Ohio
Sandler H. Dickson, B.C.E., West
Palm Beach, Fla.
John Robert Dilley, B.S., New Lon-
don*

Virgil Roy Edwards, B.S., Poplar
Bluff, Mo.*
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Conn.
Charles Edward Fuller, B.S., D.V.M.,
Patrick AFB, Fla.
Charles James Gimbrone, B.S., Barker,
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Curtis Aldin Golden, B.S., M.S.,
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Julius Ernest Haes, Jr., B.A., Minne-
apolis
Clarence Victor Hall, B.S., Kirkland,
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Nathan Charles Hanson, B.S., M.S.,
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Cleon Vinton Kimberling, B.S.,
D.V.M., St. Paul
Robert LeRoy Liljegren, B.S., Des
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Paul J. McMichael, B.S., Imperial,
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John Oglethorpe McNellis, D.V.M.,
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John Thomas Melbourn, B.S., High-
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* These degrees are conferred subject to the completion of field work prior to August 21, 1964.

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apolis
Louis Raymond Scott, B.S., Pierre,
S.D.
Gideon Silberman-Ziv, B.S., Israel
Jerome John Smith, B.S. Pharm., St.
Paul

Roger Elsworth Smith, B.A., Tacoma,
Wash.
Sri Soewasti Soesanto, C.E., Indonesia
Duane Carl Sommers, B.S., Spokane,
Wash.
Walter Edgar Stanley, Jr., B.A.,
Dover, Del.
Richard Edward Stedman, B.S., Des
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Kenneth J. Taylor, B.S., Thief River
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Doctor of Medicine

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John Gordon Bergstrom, B.S., Cokato
Ralph William Bergstrom, Jr., B.A.,
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Samuel Irving Berman, B.A., Minne-
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Thomas Godfrey Bieter, B.S., St. Paul
Dennis Gerald Biros, B.S., Minne-
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Robert Michael Blase, B.S., Minne-
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Garfield William Brown, B.A., Min-
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Richard Charles Brown, B.S., Minne-
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Robert Savage Brown, B.A., St. Paul
Brooks Allen Butler, B.S., Robbins-
dale

Conrad Stuart Butwinick, B.A., St.
Louis Park
Robert Scott Cairns, B.S., Redwood
Falls
Thomas Marshall Canfield, B.S.,
Rockford, Ill.
David Jon Carlson, B.A., St. Peter
Leo Wai-Kuo Cheng, B.S., Minne-
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Craig Everett Christensen, B.A.,
Plentywood, Mont.
Roger Alfred Christgau, B.S., Minne-
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Robert Warren Conroy, B.S., Minne-
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Jackie Medford Cooper, B.A., Poplar
Bluff, Mo.
Bart Stanley Cuderman, B.A., B.S.,
Aitkin
Roy Emil Daumann, B.S., Minne-
apolis
Jan Peter Dawson, B.S., Buhl
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Allan Lee Dewald, B.A., B.S., Tripp,
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* These degrees are conferred subject to the completion of field work prior to August 21, 1964.

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 Paul Leo Eneboe, B.S., Bozeman, Mont.
 Carl Bertil Erling, B.S., Frewsburg, N.Y.
 Gary Ray Feigal, B.S., Pine Island
 Jon Stuart Fredlund, B.S., Minneapolis
 Roger Lee Frerichs, B.S., Wilmot, S.D.
 David Irvin Friedman, B.A., Minneapolis
 William Henry Fritsche, B.A., M.A., New Ulm
 Gary E. Garvis, B.S., Minneapolis
 David Allan Gehlhoff, B.S., Minneapolis
 Gary Frans Gilbertson, B.S., Minneapolis
 David Earl Glass, B.S., Duluth
 Robert Cole Gloss, B.A., Duluth
 John Sherwin Godes, B.A., St. Paul
 Daniel Will Goodwin, B.A., B.S., Grand Forks, N. D.
 William John Gundlach, B.S., Cheyenne, Wyo.
 William Martin Hagen, B.A., St. Paul
 Lonnie Lee Hammargren, B.A., M.A., Rush City
 Bruce Arthur Hanson, B.A., St. Paul
 Robert Charles Hauck, B.A., Sauk Centre
 Robert D. Henry, B.S., Onamia
 Clarence Roger Herbrandson, B.S., D.V.M., Alcester, S.D.
 Stephen Frederic Hodgson, B.S., Rochester
 Neil Robert Hoffman, B.A., Minneapolis
 John R. Huberty, B.S., Sleepy Eye
 William Earl Jacott, B.A., Duluth
 Clayton A. Johnson, B.A., Chisholm
 Daniel Anton Johnson, B.A., Tyler
 Randall L. Johnson, B.A., B.S., Robbinsdale
 Richard Vincent Johnson, B.A., Minneapolis
 Lawrence D. Jones, B. S. Pharm., B.S., Carlton
 Martin Berk Kaplan, B.A., B.S., Minneapolis
 John Wistrom Karrow, B.A., Mankato
 John Henry Kersey, B.A., Minneapolis
 David Noel Kettleison, B.A., St. Paul
 Charles G. Koski, B.S., Virginia
 Thomas Philip Lake, B.S., Rochester
 Richard Buro Langer, B.A., Minneapolis
 Dennis M. Leahy, B.S., Maple Lake
 James Donald Lehmann, B.S., Luverne
 John Michael Leonard, B.S., Minneapolis
 Elmer Wesley Lippmann, Jr., B.A., Hutchinson
 David Dale Lucas, B.S., Detroit Lakes
 Donald Stanley Masler, B.S., Minneapolis
 Todd Charles Miller, B.A., Minneapolis
 Jerrold Marshall Milstein, B.A., Minneapolis
 Bernard Leo Mirkin, Ph.D., New York City, N.Y.
 Allen William Moberg, B.A., Detroit Lakes
 Joel David Nash, B.A., B.S., St. Paul
 David Wallace Nelson, B.A., Minneapolis
 George J. Nemanich, B.S., Soudan
 George Philip Norbeck, B.A., Redfield, S.D.
 Donald Warren Oines, B.A., Volga, S.D.
 Earl Joseph Orth, Jr., B.S., St. Paul
 Grayson R. Osteraas, B.A., Willmar
 Thomas Arthur Otter, B.A., Minneapolis
 Janna Zoe Peake, B.A., North Oaks
 James Arthur Pederson, B.S., Willmar
 Rene W. Pelletier, B.A., B.S., Langdon, N.D.
 Ralph E. Pesonen, B.S., Aurora
 Donald Walter Peterson, B.S., Duluth
 Evan H. Peterson, Jr., B.B.A., Minnetonka

Michael Brian Pliam, B.A., Minneapolis
 Phillip John Ranheim, B.A., Moorhead
 John Albert Reichert, B.S., Minneapolis
 Robert Hugo Richardson, B.A., Bemidji
 Gerald Francis Ronning, B.A., Minneapolis
 Thomas Joseph Rose, B.A., St. Paul
 Harvey Elliot Rosen, B.A., B.S., Minneapolis
 Rudolph James Rosenquist, B.A., Duluth
 Hanan Joseph Rosenstein, B.A., St. Louis Park
 Michael Clark Rost, B.A., Sioux Falls, S.D.
 Alvin Shemesh, B.A., Minneapolis
 Barry Freed Silverman, A.A., B.A., Minneapolis
 Lawrence Julian Singher, B.S., St. Paul
 Clyde William Smith, B.S., Bismarck, N.D.
 Clinton Fuller Snyder, B.A., Minneapolis
 Sheridan Sterling Haynes Stevens, B.A., Minneapolis

John Wells Stewart, B.A., Lead, S.D.
 M. Thomas Stillman, B.A., Minneapolis
 Jon Lloyd Stolte, B.A., Minneapolis
 Richard Gordon Strate, B.A., Minneapolis
 Eugene S. Strout, B.S., Excelsior
 Joseph Francis Sullivan, B.A., Motley
 Wayne Earl Tate, B.S., South St. Paul
 Edwin Gustaf Tegenfeldt, B.A., St. Paul
 Francis Thornton Thomas, B.S., Hibbing
 Jon Roland Thorshov, B.S., Minneapolis
 James John Tiede, B.A., Le Center
 William Bryan Torp, B.S., M.A., Minneapolis
 Neal Richard Vanstrom, B.Phys. with distinction, Bemidji
 Robert Alfred Van Tassel, B.S., Watertown
 Stephen Charles Weisberg, B.A., B.S., Minneapolis
 Mary Sue Hiebert Wester, B.A., Topeka, Kan.
 James Francis Wunder, B.A., B.S., Bison, S.D.
 Robert Maris Zimmers, B.S., Duluth

GRADUATE SCHOOL

Master of Arts

Eula Maxine Anderson, Wausau, Wis.
 B.B.A. '49, University of Wisconsin. Field of Concentration: Industrial Relations.

Gifford Elliott Axdahl, Duluth
 B.S. '50, Stout State College. Field of Concentration: Curriculum and Instruction.

James Ernest Bailey, Bloomington
 B.S. '57, University of Minnesota. Field of Concentration: Physical Education.

Virginia Lucia Bailey, Boulder, Colo.
 B.A. *summa cum laude* '61, Morningside College. Field of Concentration: Library Science.

Mary Murray Beernink, Redwood Falls
 B.S. '55, Mankato State College. Field of Concentration: Educational Psychology.

Luann Ada Bergman, Superior, Wis.
 B.Mus. '56, University of Rochester. Field of Concentration: Music.

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

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- George Raymond Bloom, St. Paul
B.A. '57, College of St. Thomas. Field of
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- Joanne Helen Boelke, Sanborn
B.A. *cum laude* '60, University of Minnesota.
Field of Concentration: Library Science.
- Robert Emmett Boyd, Port Edwards,
Wis.
B.A. '56, Hamline University. Field of Con-
centration: Educational Psychology.
- Gordon Adin Braatz, Fergus Falls
B.A. '62, University of Minnesota. Field of
Concentration: Psychology.
- George Henry Bridgman, Minneapolis
B.A. *summa cum laude* '61, Hamline Univer-
sity. Field of Concentration: Mathematics.
- Eskil Broburg, St. Paul
B.A. '55, University of Minnesota. Field of
Concentration: Greek.
- James Warren Buchanan, Duluth
B.S. '57, Bemidji State College. Field of Con-
centration: Education.
- Henry Clement Byerly, St. Paul
B.A. *magna cum laude* '57, University of Min-
nesota. Field of Concentration: Mathematics.
- Barbara Jo Canatsey, Indianapolis,
Ind.
B.A. '61, Butler University. Field of Concen-
tration: Home Economics.
- Carleton Lloyd Carlson, Bloomington
B.S. '59, University of Minnesota. Field of
Concentration: Physical Education.
- David Russell Chabot, Bristol, Conn.
B.A. *magna cum laude* '62, Fordham Univer-
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chology.
- Josephine Su-ning Chen, Ta-lin,
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B.A. '60, National Taiwan University (China).
Field of Concentration: Library Science.
- Dwayne Charles Cole, Pecatonica,
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B.A. *magna cum laude* '61, Northwestern Col-
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- Thomas Edward Collins, Anoka
B.S. '51, Mankato State College. Field of Con-
centration: Curriculum and Instruction.
- Nancy Louise Moe Crewe, St. Paul
B.A. *magna cum laude* '61, University of Min-
nesota. Field of Concentration: Psychology.
- Elaine Lisbeth Davidson, Peekskill,
N.Y.
B.A. '60, Syracuse University. Major: Psych-
ology. Minor: Child Psychology. Thesis: The
Interactive Effect of Two Personality Varia-
bles on Moral Attitudes.
- John Henry Deardorff, Mankato
B.A. '54, Mankato State College; M.A. '55,
B.S. '56, University of Minnesota. Field of
Concentration: Library Science.
- Wayne Anthony DeJohn, St. Louis,
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B.A. '61, St. Ambrose College. Field of Con-
centration: History.
- Gretchen C. S. DeMeules, Minne-
apolis
B.A. '62, University of Minnesota. Field of
Concentration: Journalism.
- Robert William Eichinger, Jr., New
Ulm
B.A. '62, University of Minnesota. Field of
Concentration: Psychology.
- Charles William Fiecker, Carlinville,
Ill.
B.A. '62, MacMurray College. Field of Con-
centration: History.
- Bernice Margaret Folz, Marshfield,
Wis.
B.B.A. with honors '56, University of Wis-
consin. Field of Concentration: Curriculum
and Instruction.
- Wesley Louis Franzmeier, Hastings
B.A. '54, Macalester College. Field of Con-
centration: Speech and Theatre Arts.

Herbert Irving Freedman, Winnipeg,
Manitoba, Canada

B.Sc. '62, University of Manitoba. Major:
Mathematics. Minor: Physics. Thesis: Some
Results of Perturbation Theory.

Milton Bruce Fuller, Grey Eagle

B.A. '53, University of Minnesota. Major:
Sociology. Minor: Social Work. Thesis: An
Aberrant Community: A Four Generation
Study.

Thomas Joseph Gazda, Minneapolis

B.S. '62, College of St. Thomas. Field of Con-
centration: Industrial Relations.

Erwin D. H. Gloss, Princeton

B.A. '60, Macalester College. Field of Concen-
tration: Educational Psychology.

Ruth K. Goldberg, Minneapolis

B.A. '58, State University of Iowa. Field of
Concentration: Educational Psychology.

Charles Anderson Graver, Santa Ana,
Calif.

B.A. with high honor '62, University of Cali-
fornia, Santa Barbara College. Major: Statistics.
Minor: Mathematics. Thesis: Optimum Selection
of Difficulty Levels for Test Items.

Kenneth Arnold Hanninen, Cloquet

B.S. '59, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Mohamed Ezzat Selim Hegazy,
Cairo, Egypt

B.A. '53, Cairo University (Egypt). Major:
Sociology. Minor: Anthropology. Thesis: Ven-
detta: Social Control in a Semi-Closed Peasant
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Gretchen Ann Holm, Pleasant Valley,
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B.A. *cum laude* '60, Augustana College. Ma-
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chology. Thesis: Imitation of Self Reinforce-
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Jane Mitchell Huntington, Long Lake

B.A. '54, University of Minnesota. Major:
Psychology. Minor: Philosophy. Thesis: In-
formation Requirements Necessary for Control
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lability of a Six-Degree-of-Freedom Problem.

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James Richard Johnson, Duluth

B.S. '51, University of Minnesota. Field of
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Robert Glenn Johnson, Minneapolis

B.S. '57, University of Minnesota. Field of
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B.A. *cum laude* '62, University of Minnesota.
Field of Concentration: French.

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apolis

B.A. '37, State University of Iowa. Field of
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Kathryn Sandvold Jurkovic, Minne-
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B.S. in Nurs. *magna cum laude* '57, St. Olaf
College. Major: Philosophy. Minor: Psychol-
ogy. Thesis: An Analysis of Kierkegaard's Use
of "Reality."

Bradlee Karan, Harwick, Pa.

B.A. with highest distinction '60, Pennsylv-
ania State University. Major: Political Science.
Minor: Anthropology. Thesis: The Farmer in
Politics: A Study in Minnesota Farm Group
Members.

Elwood Charles Karwand, Beloit, Wis.

B.A. '57, Hamline University. Major: Journal-
ism. Minor: Education. Thesis: An Analysis of
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gram: The First Four Years.

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- Wolfgang Siegfried Kraft, Minneapolis
B.A. '61, B.S. '61, University of Minnesota.
Field of Concentration: German.
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- Francis LeRoy Lamppa, Babbitt
B.S. '56, University of Minnesota. Field of
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- Robert Clark Langdon, Columbus,
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B.Sc. '61, Ohio State University. Major: Child
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sponse Patterning of Children in a Two Choice
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- Dorothy Elaine Layton, Cuba, Mo.
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Concentration: Curriculum and Instruction.
- John Thomas Leslie, Tomahawk, Wis.
B.Ed. '50, Wisconsin State College (White-
water). Field of Concentration: Education.
- Richard Ernst Liljedahl, Duluth
B.A. '55, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Elizabeth Ann Long, Minneapolis
B.A. in Educ. with distinction '60, University
of Kansas City. Field of Concentration: Cur-
riculum and Instruction.
- Gargi Luthra, Delhi, India
B.A. '46, University of the Punjab; M.A. '50,
Lucknow University (India). Field of Con-
centration: Educational Administration.
- Charles Arthur McConville, Minne-
apolis
B.S. '58, University of Minnesota. Field of
Concentration: Curriculum and Instruction.
- Aloysius Elliott McCormick, St. Paul
B.S. '36, United States Military Academy.
Field of Concentration: Industrial Relations.
- Erwin Duane Mickelberg, Minne-
apolis
B.A. '54, Augsburg College. Field of Concen-
tration: Curriculum and Instruction.
- Michael E. Murphy, St. Paul
B.A. '61, St. John's University. Field of Con-
centration: English.
- Joan Roehrich Nadon, St. Paul
B.S. with distinction '54, University of Min-
nesota. Field of Concentration: Library Sci-
ence.
- Paul August Negri, Minneapolis
B.S. '51, St. Cloud State College. Field of
Concentration: Curriculum and Instruction.
- Donald Wills Nelson, Park Forest,
Ill.
B.A. '62, Lawrence College. Field of Concen-
tration: History.
- Karin LuAnn Nelson, Minneapolis
B.A. with high distinction '61, University of
Minnesota. Field of Concentration: Educa-
tional Psychology.
- Norman George Nelson, Hopkins
B.S. '33, Hamline University. Field of Con-
centration: Educational Administration.
- Grant Chauncey North, Edina
B.S. '59, Mankato State College. Field of Con-
centration: Curriculum and Instruction.
- Deborah Reid Oehler, White Bear
Lake
B.A. '62, Smith College. Field of Concentra-
tion: Library Science.
- Thomas Ralph Owens, Duluth
B.S. '51, West Texas State College. Field of
Concentration: Curriculum and Instruction.
- Loretta Anne Panian, St. Paul
B.S. '57, College of St. Teresa. Field of Con-
centration: Curriculum and Instruction.
- Randall Hill Patton, Marine on St.
Croix
B.S. '57, Bemidji State College. Field of Con-
centration: Educational Administration.
- Richard Stanley Paul, Whitefish,
Mont.
B.A. '63, Montana State University. Field of
Concentration: History.
- Janis Gale Podoloff, Minneapolis
B.A. '60, Northwestern University. Field of
Concentration: Education.

Ronald Eugene Putz, Minneapolis
B.A. '56, St. John's University. Field of Concentration: Industrial Relations.

Betty Ruth Raygor, St. Paul
B. of Ed. '44, University of Toledo. Field of Concentration: Educational Psychology.

Judith Ann Richardson, Minneapolis
B.A. '61, University of Minnesota. Field of Concentration: Psychology.

Edis Flowerday Risser, Minneapolis
B.A. *summa cum laude* '61, Macalester College. Field of Concentration: English.

Irma Encida Roca, San Juan, Puerto Rico
B.A. with high honor '62, University of Puerto Rico. Field of Concentration: Psychology.

Frank Manning Rosekrans III, Wayzata
B.A. '59, University of Minnesota. Major: Area Studies: Northwest Europe. Thesis: The Isolation of Berlin.

Robert Sween Rudder, Long Beach, Calif.
B.A. '59, University of Redlands. Field of Concentration: Spanish.

Joanna Isabel Sasso, Port Washington, N.Y.
B.A. '62, University of Rochester. Major: Child Psychology. Minor: Educational Psychology. Thesis: The Effects of Isolation Upon Children's Performance for Social Reinforcement.

William John Schafer, Richmond, Ind.
B.A. with honor '59, Earlham College. Field of Concentration: English.

Paul Gilbert Schee, Olivia
B.A. '52, Concordia College; B.C.E. '55, University of Minnesota. Field of Concentration: Educational Administration.

Carolyn Olson Schmidt, Worthington
B.A. *cum laude* '62, Macalester College. Field of Concentration: Journalism.

Marilyn Rae Schroeder, St. Paul
B.S. '60, University of Minnesota. Field of Concentration: Speech Pathology.

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

Joseph Paul Schwebel, St. Paul
B.A. '61, St. Mary's College. Field of Concentration: Mathematics.

Harlan Merle Shuck, Wendell
B.S. '58, B.A. '58, Moorhead State College. Field of Concentration: English.

Gordon Donald Simons, Jr., St. Louis Park
B.A. *magna cum laude* '60, University of Minnesota. Field of Concentration: Mathematics.

Sister Mary Florenze Bouchard, Dubuque, Iowa
B.A. '58, Clarke College. Field of Concentration: Curriculum and Instruction.

Sister Mary Ruth Ewens, North Lake, Wis.
B.A. '60, Rosary College. Field of Concentration: American Studies.

Sister Mary Theodore Boesen, Dubuque, Iowa
B.A. '63, Clarke College. Field of Concentration: Curriculum and Instruction.

Sister Miriam Clare O'Hara, St. Paul
B.A. '55, College of St. Catherine. Field of Concentration: French.

William Xiste Smith, Waterloo, Iowa
B.A. '61, State College of Iowa. Field of Concentration: History.

Anna Marie Tollefson Sollid, Minneapolis
B.A. '62, Antioch College. Field of Concentration: Psychology.

Barbara Colena Spross, Toledo, Ohio
B.A. '61, Ohio Wesleyan University. Field of Concentration: Botany.

Kenneth Meritt Steger, Washington, D.C.
B.A. '55, Michigan State University. Major: Philosophy. Minor: Psychology. Thesis: Hume's Account of Belief.

Jay Sucre, Newport

B.S. '51, Iowa State University. Field of Concentration: Industrial Education.

James Charles Sylvester, Red Wing

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

Dickran Levon Tashjian, Melrose, Mass.

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

Barbara Ann Theobald, Sherburn

B.A. '55, Colorado State College of Education. Field of Concentration: Curriculum and Instruction.

Beverly Jayne Troyer, Crosby

B.S. *cum laude* '61, University of Minnesota. Field of Concentration: Physical Education.

Robert Bradley Tucker, Minneapolis

B.A. '60, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Public Health on Minnesota's Iron Range: The Development of Services and Attitudes.

Tom Dean Turner, Maywood, Ill.

B.S. with distinction '59, Pennsylvania State University. Major: Mathematics. Minor: Physics. Thesis: Duality in Elliptic Differential Geometry.

Joanne Marie Walgreen, Minneapolis

B.A. *cum laude* '62, University of Minnesota. Field of Concentration: Psychology.

Patricia Phinney Will, Minneapolis

B.S. in Educ. '51, Wayne University. Field of Concentration: Educational Psychology.

Elwood John Young, Hopkins

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

Master of Arts in Public Administration

Richard Julius Jorgensen, Minneapolis

B.S. '47, M.Ed. '50, University of Minnesota. Major: Public Administration. Thesis: The Use of Special Assessments in Financing Park Improvements in Minneapolis.

Paul Erich Menge, Madison, Wis.

B.A. '59, St. John's University. Major: Public Administration. Thesis: Organization and Policy Formulation in the Approach to Disarmament, 1953 to 1961.

Robert Allen Miller, Eugene, Ore.

B.A. '57, Bemidji State College. Major: Public Administration. Thesis: School Finances in the Unorganized School Territory of St. Louis County—A Case Study.

Tjoek Soejono Soemodiredjo, Djakarta, Indonesia

Diploma '55, School of Police Science and Administration. Major: Public Administration. Thesis: Governmental Action to Influence Ethical Standards of Public Officials in Indonesia.

Master of Business Administration

Willis James Dombrowske, Minneapolis

B.A. '51, St. John's University. Field of Concentration: Business Administration.

Louis Allen Domian, St. Louis Park

B.A. *cum laude* '51, Macalester College. Field of Concentration: Business Administration.

Wendy Noreen Gaunt, Winnipeg, Manitoba, Canada

B.Sc. in Eng. (Civil) '60, University of Manitoba. Field of Concentration: Business Administration.

Lewis Walter Johnson, Fridley

B.B.A. with distinction '51, University of Minnesota; B.S. '54, Pennsylvania State University. Field of Concentration: Business Administration.

Charles McIntyre Webster, Minneapolis

B.A. *cum laude* '57, Amherst College. Field of Concentration: Business Administration.

Master of Fine Arts

James Herman Ehlke, Minneapolis
B.A. '60, Hamline University. Field of Con-
centration: Art.

Richard John Haas, West Allis, Wis.
B.S. with honors '59, University of Wisconsin.
Field of Concentration: Art.

Harold Reed Langland, St. Paul
B.A. '61, University of Minnesota. Field of
Concentration: Art.

Master of Forestry

Ivan Dwayne Miller, Duluth
B.S. '62, University of Minnesota. Field of
Concentration: Forestry.

Ralph Harold Olson, Grand Rapids
B.S. in For. '56, Montana State University.
Field of Concentration: Forestry.

Master of Science

Allan David Adley, Montreal, Que-
bec, Canada
B.S. '60, McGill University. Major: Inorganic
Chemistry. Minor: Organic Chemistry. Thesis:
Reactions of Vanadium Tetrachloride with
Some Oxygen Donors.

Osama Adham Al-Zand, Baghdad,
Iraq
Diploma '59, University of Baghdad (Iraq).
Field of Concentration: Agricultural Econo-
mics.

Frances Jean Anderson, Redfield, S.D.
B.S. with highest honors '59, South Dakota
State College. Major: Physics. Minor: Mathe-
matics. Thesis: An Experimental Study of the
Properties of the Water-Ice Potential During
Freezing.

Wayne Robert Brumm, East Bruns-
wick, N.J.
B.S. with distinction '59, Pennsylvania State
University. Major: Physics. Minor: Mathe-
matics. Thesis: Investigation of Several Rare
Gases in Metals.

Aldo R. Castaneda, Guatemala,
Guatemala
M.D. '58, University of San Carlos of Guate-
mala; Ph.D. '63, University of Minnesota.
Major: Physiology. Minor: Physiological
Chemistry. Thesis: Hemodynamic Effects of
Hexadimethrine Bromide.

Yong Sung Choi, Kwangju, Korea
M.D. '61, Seoul National University (Korea).
Major: Physiological Chemistry. Minor: Mi-
crobiology. Thesis: Calcium Binding Studies of
Ribonucleic Acids.

Adrian Corcondilas, Athens, Greece
M.D. '58, University of Paris (France). Major:
Physiology. Minor: Medicine. Thesis: Studies
on the Capacity Vessels: Effects of Carotid
Occlusion and of Hypervolemia.

Alfred Dietz, Aschaffenburg, Ger-
many
B.S. in Educ. '61, University of Kansas. Ma-
jor: Entomology. Minor: Agricultural Bio-
chemistry. Thesis: Causes of Nutrient Defi-
ciency in Stored Pollen for the Development
of Newly Emerged Honeybees.

Meenakshi Shankarrao Dighe, Baroda,
India
B.Sc.(Home) '60, M.S. University of Baroda
(India). Major: Home Economics. Minor:
Statistics. Thesis: A Study of the Effects of
Perspiration on Certain Properties of White
Cotton Fabric Suitable for Cholis.

Glen Eugene Ertel, Hammond, Wis.
B.S.(Ag.Ed.) '62, Wisconsin State College
(River Falls). Field of Concentration: Dairy
Husbandry.

Franklin Turner Ferguson, Salt Lake
City, Utah
B.F.A.(Arch) with honors '61, B.Arch. '63,
University of Utah. Field of Concentration:
Architecture.

Martin Paul Fricke, Philadelphia, Pa.
B.S. '61, Drexel Institute of Technology. Ma-
jor: Physics. Minor: Mathematics. Thesis:
Analysis of the Elastic and Inelastic Scattering
of 40 Mev Protons.

David Morgan Gardner, Bloomington
B.S.C. '58, State University of Iowa. Major: Business Administration. Minor: Psychology. Thesis: An Exploratory Investigation of Bales' Interaction Process Analysis as it Relates to Consumer Behavior.

Herbert John Hatcher, Minneapolis
B.A. '53, University of Minnesota. Major: Microbiology. Minor: Physiological Chemistry. Thesis: Studies on Products Formed by *Aspergillus Flavus* in Relation to Nitrification.

James LeRoy Haynes, Millington,
Tenn.
B.S. '58, Tennessee A and I State College. Major: Agricultural Biochemistry. Minor: Physical Chemistry. Thesis: Some Factors Which Affect the Distribution of Amino Acids Between Their Aqueous Solutions and a Strong Cation Exchange Resin.

Eldon Leigh Heidt, Silver Creek,
N.Y.
B.S. '59, Cornell University. Field of Concentration: Business Administration.

Ramanathan Jambunathan, Madras,
India
B.Sc.(Hons) '57, M.A. '58, University of Madras (India). Major: Physics. Minor: Mathematics. Thesis: The Mechanism for the Reactions Be^0 (Li^0 , an) B^{10*} and Be^0 (Li^0 , 2a) Li^{7*} .

Arjun Kumar Jhangiani, New Delhi,
India
B.A. '60, University of Delhi (India). Field of Concentration: Business Administration.

Raymond Eugene Kary, Mandan,
N.D.
B.S. '58, Jamestown College. Field of Concentration: Public Health.

Dennis Robert Keefe, St. Paul
B.A. '59, St. John's University. Field of Concentration: Agricultural Economics.

Sheldon Howard King, Minneapolis
B.Phys. with distinction '62, University of Minnesota. Field of Concentration: Physics.

Larry LeRoy Kirkwold, Starbuck
B.S. '62, University of Minnesota. Field of Concentration: Forestry.

Edward Griffin Kline, Williston, N.D.
B.A. '62, University of Minnesota. Field of Concentration: Business Administration.

Mahesh Chandra Kumar, Patna,
India
B.V.Sc.&A.H. '58, Bihar University (India). Field of Concentration: Veterinary Bacteriology.

Kwang Woo Lee, Taegu, Korea
B.S. in Agric. '60, Seoul National University (Korea). Major: Soil Science. Minor: Agricultural Biochemistry. Thesis: The Effect of Phosphorus on RNA and DNA Content of Soybeans.

Paulina Yu Wang Li, Chiangsu,
China
B.S. in Agric. '59, Taiwan Provincial College of Agriculture (China). Major: Soil Science. Minor: Agricultural Biochemistry. Thesis: The Oxidation of Elemental Sulfur in Soil.

Lloyd John Lundeen, Markesan, Wis.
B.S. in For. '61, Montana State University. Field of Concentration: Forestry.

Virginia Margaret Mahannah, St. Paul
B.S. '61, University of Minnesota. Major: Home Economics. Minor: Education. Thesis: The Effect of Selected Forms of Antiperspirants and Synthetic Perspiration on the Whiteness Retention and Tear Strength of a Cotton Fabric.

Mary Joanne Marks, Canton, Mo.
B.S. in Home Ec. '61, University of Missouri. Major: Home Economics. Minor: Statistics. Thesis: Effect of Light on Laminated and Non-Laminated Fabrics as Measured by Four Colorimeters.

Thomas Edward Miller, Minneapolis
B.A. '62, University of Minnesota. Major: Microbiology. Minor: Physiological Chemistry. Thesis: Enzymatic Activation of Nucleohistones and Its Role in Innate Resistance.

Maynard Gardner Moody, Auburn-
dale, Mass.
B.C.E. '60, Rensselaer Polytechnic Institute. Field of Concentration: Public Health.

Edith Morean, Minneapolis
B.A. *magna cum laude* '61, B.S. with distinction '61, University of Minnesota. Field of Concentration: Zoology.

Manohar Lal Muttreja, New Delhi,
India

B.Arch. '59, Delhi University (India). Field
of Concentration: Architecture.

Carla Christina Nelson, Minneapolis

B.A. '61, Carleton College. Field of Con-
centration: Zoology.

Festus Ogada, Nairobi, Kenya

B.Sc. '62, Imperial Ethiopian College of Agri-
cultural and Mechanical Arts. Field of Con-
centration: Genetics.

Diane Jean Palmer, Minneapolis

B.S. with high distinction '62, University of
Minnesota. Major: Home Economics. Minor:
Education. Thesis: A New Basal Medium De-
signed for the Study of Amino Acid Interre-
lationships in *Leuconostoc Mesenteroides* P-60.

Timothy Trow Palmer, Albert Lea

B.A. '60, Carleton College. Field of Concen-
tration: Zoology.

Richard Ewert Pogue, Jr., Watertown

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

Fernando José Quintana, Bahía
Blanca, Argentina

Diploma '47, National University of La Plata
(Argentina). Field of Concentration: En-
tomology.

Paul William Romig, Mundelein, Ill.

B.S.(Phar.) '55, University of Colorado. Ma-
jor: Pharmaceutical Technology. Minor: Phar-
macology. Thesis: Effect of Micellar Solu-
bilization on the Hydrolysis of Procaine.

Kenelm Winslow Russell, Iron Moun-
tain, Mich.

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

Vincente Lapid Saplala, Pampanga,
Philippines

B.Sc. in Agric. '54, University of the Philip-
pines. Major: Entomology. Minor: Plant
Pathology. Thesis: The Biology of the Pine
Tussock Moth, *Dasychira Plagiata* (Walker)
(Lymantriidae: Lepidoptera).

William Chris Scharf, Milwaukee,
Wis.

B.S. '61, Wisconsin State College (Stevens
Point). Major: Entomology. Minor: Botany.
Thesis: A Taxonomic Study of the Genera
Cuculiphilus, *Falcophilus*, and *Aegypiphilus*
(Mallophaga: Menoponidae).

Robert George Schwab, Park Rapids

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

Dennis Donald Seefeldt, Wittenberg,
Wis.

B.S. '61, Wisconsin State College (River
Falls). Major: Soil Science. Minor: Agricul-
tural Engineering. Thesis: Shear Strength of
Webster Clay Loam Aggregates.

Bijon Sharma, Shillong, India

B.Sc. '58, M.Sc. '60, Banaras Hindu Uni-
versity. Major: Geophysics. Minor: Physics. The-
sis: The Vertical Gradient of Gravity in Gravi-
tational Interpretation.

Donald Eugene Soholt, Spooner, Wis.

B.S. '60, University of Wisconsin. Major:
Geology. Minor: Geophysics. Thesis: Meta-
morphitic Facies of the Groveland Mine,
Northern Michigan.

Richard Paul Sunderman, Grey Eagle

B. of Math. with high distinction '61, Uni-
versity of Minnesota. Major: Mathematics. Minor:
Physics. Thesis: A Discussion of Direct Meth-
ods for Inverting Sparse Matrices, in Partic-
ular the Square Root Method.

Jon Richard Swanson, Plainfield, Ill.

B.S.M.E. '60, State University of Iowa. Field
of Concentration: Public Health.

James Ronald Taylor, Burlington,
Iowa

B.B.A. with distinction '60, State University
of Iowa. Major: Business Administration. Min-
or: Psychology. Thesis: The Number of Al-
ternatives and the Role It Plays in Decision
Making.

William Arthur Thomas, Jr., Chilli-
cothe, Ohio

B.S. in For. with distinction '60, Purdue Uni-
versity. Field of Concentration: Forestry.

Robert D. Thompson, St. Paul

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

Orville Lee Weiszhaar, Minneapolis
B.A. '59, State University of South Dakota.
Field of Concentration: Business Administration.

Sheng-Hsu Zee, Pinghu, Chekiang,
China

B.S. '53, Ordnance Engineering College
(China). Major: Organic Chemistry. Minor:
Physical Chemistry. Thesis: Vinylindole Syn-
thesis of Carbazoles; with Dimethyl 1-Methyl-
indole-3-Fumarate.

LoAnn Eleanor Ziebarth, Green Bay,
Wis.

B.S.(Nurs.) '57, University of Wisconsin. Field
of Concentration: Public Health.

Master of Science in Aeronautical Engineering

Robert James Mack, Minneapolis

B.A.E. '59, University of Minnesota. Major:
Aeronautical Engineering. Minor: Astronomy.
Thesis: Flow Analysis of Combustion Products
from a Central-Port Solid Propellant Grain.

Master of Science in Agricultural Engineering

John Connor Drissel, Washington,
D.C.

B.S. '61, B.S.C.E. '62, University of Maryland.
Field of Concentration: Agricultural Engineering.

Edmund Lawrence Wegscheid, Min-
neapolis

B.S. with distinction '62, University of Minne-
sota. Major: Agricultural Engineering. Minor:
Statistics. Thesis: A Study of the Raked Tooth
and Its Application in the Analysis of the Soil
Forces Acting on Rotary Hoes.

Master of Science in Chemical Engineering

Charles Edward Buxton, Corvallis,
Ore.

B.S. '62, Oregon State University. Major:
Chemical Engineering. Minor: Mathematics.
Thesis: Empirical Correlations and Reaction
Mechanisms for Gamma-Ray Induced Recombi-
nation of Hydrogen and Oxygen in the Pre-
sence of Water Vapor.

Nirankar Nath Kapoor, Kanpur,
India

B.Sc. '55, Agra University (India). Major:
Chemical Engineering. Minor: Industrial En-
gineering. Thesis: Strain Recovery in Vis-
coelastic Fluids in a Circular Tube.

Kazuo Kunioka, Tokyo, Japan

B.Eng. '59, Osaka University (Japan). Major:
Chemical Engineering. Minor: Mechanical En-
gineering. Thesis: Combustion Zones Stabilized
by Backflows in Swirling Air.

Master of Science in Civil Engineering

Shih-Jung Chang, Republic of China
B.S. in Eng. '58, National Taiwan University (China). Field of Concentration: Civil Engineering.

Greg Don-Fan Chung, Shanghong, Fukien, China
B.S. in Agric. '58, National Taiwan University (China). Field of Concentration: Civil Engineering.

John Martin Davis, Engadine, Mich.
B.S. '61, United States Naval Academy. Field of Concentration: Civil Engineering.

Lawrence Frank Feldsien, Montrose
B.S.C.E. '62, University of Minnesota. Field of Concentration: Civil Engineering.

Fred John Gientke, Detroit, Mich.
B.C.E. '62, University of Detroit. Field of Concentration: Civil Engineering.

Reynold Albert Hokenson, Jr., Minneapolis
B.C.E. '63, University of Minnesota. Field of Concentration: Civil Engineering.

Agustin Leon-Guim, Guayaquil, Ecuador, South America
B.S. '60, University of Guayaquil (Ecuador). Field of Concentration: Civil Engineering.

Power Pong-Chuen Poon, Hong Kong, China
B.S.C.E. '58, Chu Hai College (China). Field of Concentration: Civil Engineering.

Ramachandra Adishesappa Rao, Bangalore, Mysore, India
B.E.(Civil) '60, University of Mysore (India). Major: Civil Engineering. Minor: Civil Engineering. Thesis: A Study of Vortex Motion in an Emptying Container.

Charles Lee Tsui, China
B.S. in Eng. '60, National Taiwan University (China.) Field of Concentration: Civil Engineering.

Paul Chester Voxland, Erskine
B.S. '62, University of Minnesota. Field of Concentration: Civil Engineering.

Richard Joseph Wallace, Cleveland, Ohio

B.S. '61, United States Naval Academy. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Monte Bruce Curtis, Boise, Idaho
B.S. '58, D.D.S. '58, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: A Study of the Effect of Koagamin, Premarin, Kutapressin and Local Use of Dilute Epinephrine on the Bleeding in Oral Surgical Procedures.

Fanny Nusia Freund-Borgen, Minneapolis
B.S. '54, D.D.S. '56, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Early Serial Extraction Effects Studies by Means of Metallic Implants.

Paul Wayne Jorgensen, Minneapolis
B.S. '59, D.D.S. '59, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Investigation of the Effects of Experimental Rickets on Controlled Tooth Movement in the Hamster.

Duane William Loudon, Aberdeen, S.D.
B.S. '58, D.D.S. '60, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Effects of Expansion and Contraction Appliances on the Zygomatico Maxillary Suture in the Guinea Pig.

Ronald Anthony Mayerle, Keewatin

D.D.S. '60, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Root Resorption as Affected by Continuous and Intermittent Forces Plus Other Factors in the Hamster.

Wesley John Streed, Duluth

B.S. with distinction '60, D.D.S. '62, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Method of Measuring Clinical Orthodontic Tooth Displacement.

Jerry Franklin Zimring, Los Angeles,
Calif.

B.S. '58, D.D.S. '60, Western Reserve University. Major: Dentistry. Minor: Anatomy. Thesis: A Quantitative Investigation of the Skeletal Readjustment Subsequent to Rapid Maxillary Expansion.

Master of Science in Dermatology

Dee Martin Rasmussen, Salt Lake
City, Utah

B.S. '56, M.D. '60, University of Utah. Major: Dermatology. Minor: Pathology. Thesis: Shrinkage Temperature and Isometric Contraction of Dermal Collagen in Relation to Age and Pathologic Conditions.

Master of Science in Electrical Engineering

Alan H. Eiler, Minneapolis

B.E.E. with distinction '55, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Electrical Conduction in Fe_2O_3 Containing Titanium.

Robert Edward Lang, Minneapolis

B.S. '60, University of Wisconsin. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of a Force Servo and Its Contamination.

Masahiro Toki, Hirosaki, Aomori-
Ken, Japan

B.S. in Eng. '60, Yokohama National University (Japan). Major: Electrical Engineering. Minor: Mathematics. Thesis: A Piezo-Junction Experimental Microphone.

Turgut Osman Ucer, Istanbul, Turkey

B.S.E.E. '54, Robert College (Turkey). Major: Electrical Engineering. Minor: Mechanical Engineering. Thesis: The Phenomena of Ferro and Subharmonic Resonance and Their Occurrence in Long Radial Electric Power Transmission Lines.

Master of Science in Industrial Engineering

Henry Raymond Radosevich, Minne-
apolis

B.S. '61, University of Minnesota. Field of Concentration: Industrial Engineering.

Chintalapani Sudhaker Reddy,
Damera, Andhra, Pradesh, India

B.A. '60, M.A. '61, Osmania University (India). Field of Concentration: Industrial Engineering.

Master of Science in Mechanical Engineering

Alan D. Ackerman, Rochester

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

Gene William Bunde, St. Paul

B.M.E. '60, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Gas Evolution From a Solid Propellant Surface During a Pressure Transient.

John Frank Evert, Minneapolis
B.S. with distinction '62, University of Minnesota. Field of Concentration: Mechanical Engineering.

Lee Truman Magnuson, Bagley
B.S.M.E. '59, University of North Dakota. Field of Concentration: Mechanical Engineering.

John Albert Malina, North Riverside,
Ill.

B.M.E. '61, General Motor's Institute. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Variable-Property, Constant-Property, and Entrance-Region Heat Transfer Results for Turbulent Flow of Water and Oil in a Circular Tube.

Master of Science in Medicine

Stanley Jarl Alexander, Los Angeles,
Calif.

M.D. '59, University of Southern California. Major: Medicine. Minor: Pathology. Thesis: Electron Microscopy of Skin Punch Biopsy Specimens of Patients with Lupus Erythematosus and Rheumatoid Arthritis.

Alfred Eichenholz, Minneapolis

M.D. *magna cum laude* '51, University of Munich (Germany). Major: Medicine. Minor: Pathology. Thesis: Nature of Acid-Base Disturbance in Salicylate Intoxication.

Rafael Fernandez Fernandez, Jr.,
Philippines

M.D. '55, University of Santo Tomas. Major: Medicine. Minor: Pathology. Thesis: The Clinical Application of the SU4885 Intravenous Test (II B-Hydroxylase Inhibitor). A Test of Pituitary ACTH Reserve.

Robert Kirschen, Chicago, Ill.

B.A. '52, M.D. '56, University of Chicago: Major: Medicine. Minor: Physiology. Thesis: Significance of the Urinary Amylase Following Pancreatic Stimulation: Comparative Value of Urinary Amylase, Serum Amylase, and Duodenal Drainage in the Diagnosis of Pancreatic Disease.

Robert Oscar Mulhausen, Minneapolis

B.S. '51, M.D. '55, University of Illinois. Major: Medicine. Minor: Pathology. Thesis: Effect of High CO₂ Tension on Banked ACD Blood.

Richard C. Stalzer, Chicago, Ill.

M.D. '60, Loyola University. Major: Medicine. Minor: Hematology. Thesis: The Hematological Effects of 5-Fluorouracil in Man: Observations with the Light and Electron Microscope.

Master of Science in Metallurgical Engineering

Steven Willis Clark, Crookston

B.S. with distinction '61, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Adsorption of Calcium, Magnesium, and Sodium Ion by Quartz.

Master of Science in Mineral Engineering

Brian Roger Stephenson, Nottingham,
England

B.Eng. (Hons.) '60, University of Sheffield (England). Major: Mineral Engineering. Minor: Physics. Thesis: Measurement of Dynamic Force Penetration Characteristics in Indiana Limestone.

Aleksandar Stojisic, Srebrenica, Yugo-
Slavia

Diploma '56, University of Belgrade (Yugo-
slavia). Field of Concentration: Mineral En-
gineering.

Thomas Maynard Tweed, Minneapolis
B.S. with distinction '54, B.Min.E. with dis-
tinction '54, University of Minnesota. Field of
Concentration: Mineral Engineering.

Master of Science in Neurosurgery

Warren Clark Boop, Jr., Knoxville,
Tenn.

M.D. '56, University of Tennessee. Major:
Neurosurgery. Minor: Anatomy. Thesis: Cen-
tral Nervous System Control of Pituitary-Thy-
roid Function.

Master of Science in Orthopedic Surgery

Ramon Balgoa Gustilo, Minneapolis

M.D. '57, University of the Philippines. Major:
Orthopedic Surgery. Minor: Anatomy. Thesis:
The Effect of Intramedullary Nailing on the
Blood Supply of the Diaphysis in Mature
Dogs.

Master of Science in Radiology

George H. Holmes, Jr., Indianapolis,
Ind.

B.A. '52, Iowa State Teachers College; M.D.
'56, State University of Iowa. Major: Radi-
ology. Minor: Pathology. Thesis: Coarctation
of the Aorta: A Roentgenologic and Patho-
logic Study.

Master of Science in Surgery

William Robert Scott, Eustis, Fla.

M.D. '49, Columbia University. Major: Surg-
ery. Minor: Pathology. Thesis: Extraperiosteal
Plombage Thoracoplasty.

Roger Lyle von Heimburg,
Marinette, Wis.

B.A. '51, M.D. '55, Johns Hopkins University.
Major: Surgery. Minor: Pathology. Thesis:
Infarction of the Left Colon.

Master of Social Work

- Carol Mary Anderson, Minneapolis
B.A. '61, University of Minnesota. Field of Concentration: Social Work.
- Janice Arndt Anderson, Owatonna
B.A. '62, Wartburg College. Field of Concentration: Social Work.
- Gary B. Carter, Britton, S.D.
B.A. '58, University of South Dakota. Field of Concentration: Social Work.
- Alice Coudroglou, Salonika, Greece
B.A. '62, College of St. Benedict. Field of Concentration: Social Work.
- Carol Louise Danger, Minneapolis
B.A. '58, Hamline University. Field of Concentration: Social Work.
- Dennis Dean Eikenberry, Rapid City, S.D.
B.S. '62, Dakota Wesleyan University. Field of Concentration: Social Work.
- Mary Jo Eikenberry, Brookings, S.D.
B.A. '62, Dakota Wesleyan University. Field of Concentration: Social Work.
- Judith Patricia Fletcher, Menomonie, Wis.
B.A. '59, Wisconsin State College (Eau Claire). Field of Concentration: Social Work.
- Charles Bernard Gadbois, Coon Rapids
B.A. *cum laude* '54, St. John's University. Field of Concentration: Social Work.
- June Ann Hall, Fayetteville, N.C.
B.A. '62, Woman's College of the University of North Carolina. Field of Concentration: Social Work.
- Margaret I. Hanson, Minneapolis
B.A. '35, University of Minnesota. Field of Concentration: Social Work.
- James Arthur Hickman, Swanville
B.A. '62, St. Cloud State College. Field of Concentration: Social Work.
- Jane Evelyn Antoine Hynes, St. Paul
B.A. *magna cum laude* '60, University of Minnesota. Field of Concentration: Social Work.
- Jack Kaufman, New York, N.Y.
B.A. '60, University of Chicago. Field of Concentration: Social Work.
- Chaiman Kim, Seoul, Korea
B.A. '59, Kook Min College (Korea). Field of Concentration: Social work.
- Taeyul Kim, Taejon, Korea
B.A. '59, Ewha Womans University (Korea). Field of Concentration: Social Work.
- Stanley Richard Koski, St. Paul
B.A. '58, University of Minnesota. Field of Concentration: Social Work.
- Clarice Cochran Mattson, St. Paul
B.A. '57, University of Minnesota. Field of Concentration: Social Work.
- Bruce Gordon McBeath, Minneapolis
B.A. '62, University of Minnesota. Field of Concentration: Social Work.
- Saejin Nam, Taegu, Korea
B.A. '58, Kyungpook University (Korea); M.A. '60, Seoul National University. Field of Concentration: Social Work.
- Loris Hazel Nelson, St. Paul
B.A. '57, Macalester College. Field of Concentration: Social Work.
- Sheldon Hy Olkon, Minneapolis
B.A. '62, University of Minnesota. Field of Concentration: Social Work.
- Curtis Miller Paulsen, Minneapolis
B.A. *cum laude* '62, St. Olaf College. Field of Concentration: Social Work.
- Marcia Anne Rafinski, Minneapolis
B.A. *magna cum laude* '61, University of Minnesota. Field of Concentration: Social Work.
- Harriet Nadell Rosenzweig, Paterson, N.J.
B.A. *magna cum laude* '59, University of Minnesota. Field of Concentration: Social Work.
- Janet Gayle Falk Rovick, Minneapolis
B.A. '62, University of Minnesota. Field of Concentration: Social Work.

Rodney Gene Schofield, Duluth
B.A. '62, University of Minnesota. Field of Concentration: Social Work.

Edith Mae Schuppel, Minneapolis
B.A. *cum laude* '62, University of Minnesota. Field of Concentration: Social Work.

Marian Jean Shur, Oakland, Calif.
B.A. '62, University of California. Field of Concentration: Social Work.

Grace Helen Slagowski, Winona
B.A. '52, College of St. Teresa. Field of Concentration: Social Work.

Evelyn Syvertsen, Jacksonville Beach, Fla.
B.A. with high honors '62, University of Florida. Field of Concentration: Social Work.

Clarence William Walker, St. Paul
B.A. '58, University of Minnesota. Field of Concentration: Social Work.

Sharon Holscher Weiszhaar, Minneapolis
B.A. '62, University of Minnesota. Field of Concentration: Social Work.

Carolyn Fay Wilhelm, Lancaster, Pa.
B.A. '62, St. Olaf College. Field of Concentration: Social Work.

Dennis Allen Wynne, Bemidji
B.S. '62, Bemidji State College. Field of Concentration: Social Work.

Elizabeth Zimmermann, Minneapolis
B.A. '62, Carleton College. Field of Concentration: Social Work.

Certificate for Specialist in Education

John Elmer Kunelius, Waterville
B.S. '41, Winona State College; M.A. '55, University of Minnesota. Field of Concentration: Educational Administration.

Doctor of Philosophy

Jack Lynn Armstrong, Springfield, Ill.
B.A. '58, William Jewell College; M.Ed. '59, University of Illinois. Major: Educational Psychology. Minor: Psychology. Thesis: The Interrelationships Among Self and Occupational Concepts of Male College Students in Three Stages of Vocational Preparation. Major Advisers: Profs. C. G. Wrenn and R. E. Wilk.

Paul Anthony Banas, Norwich, Conn.
B.A. '51, University of Connecticut; M.A. '59, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Investigation of Transsituational Moderators. Major Adviser: Prof. H. P. Longstaff.

James Bucklin Basingthwaighte, Toronto, Ontario, Canada
B.A. '51, M.D. '55, University of Toronto. Major: Physiology. Minors: Mathematics and Medicine. Thesis: Dispersion of Indicator in the Plasma of Circulating Blood. Major Adviser: Dr. E. H. Wood.

George Marston Blake, Missoula, Mont.
B.S.(For.) '57, University of Idaho; M.S. '59, University of Minnesota. Major: Forestry. Minors: Botany and Genetics. Thesis: Clone Identification and Delineation in the Aspens. Major Adviser: Prof. S. S. Pauley.

Robert Wayne Blanchar, Fox Lake
B.A. '58, Macalester College; M.S. '61, University of Minnesota. Major: Soil Science. Minor: Agricultural Biochemistry. Thesis: A Study of Mechanisms for the Effect of Ammonium on the Availability of Fertilizer Phosphorus to Plants. Major Adviser: Prof. A. C. Caldwell.

Charles Howard Blomquist, Rockford, Ill.
B.S. '55, University of Illinois. Major: Physiological Chemistry. Minor: Zoology. Thesis: Studies of Embryonic Chick Heart Cells in Tissue Culture. Major Adviser: Dr. W. D. Annstrom.

Alvin Boderman, St. Paul

B.A. '50, M.A. '54, University of Minnesota. Major: Sociology. Minor: Philosophy. Thesis: Feelings of Powerlessness and Political and Religious Extremism. Major Adviser: Prof. D. A. Martindale.

Franklyn George Bonn, Jr., St. Paul

B.A. *summa cum laude* '54, M.A. '57, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: The Idea of Political Party in the Thought of Thomas Jefferson and James Madison. Major Adviser: Prof. M. Q. Sibley.

William Conrad Bruncke, St. Paul

B.S. '58, M.S.E.E. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Thermal Noise in Field-Effect Transistors. Major Adviser: Prof. Aldert van der Ziel.

William Richard Burch, Jr.,
Vancouver, Wash.

B.S. '55, M.S. '57, University of Oregon. Major: Sociology. Minor: Speech and Theatre Arts. Thesis: Nature as Symbol and Expression in American Social Life: A Sociological Exploration. Major Adviser: Prof. G. P. Stone.

Gordon Colquhoun Carney, Darling-
ton, England

B.S. in Agric. '57, M.S. '60, University of Durham (England). Major: Entomology. Minor: Agricultural Biochemistry. Thesis: The Effects of Ionizing Radiation on the Sarcosomes of Housefly Flight Muscle. Major Advisers: Profs. F. G. Holdaway and F. A. Spurrell.

Austin Baldwin Caswell, Jr., Minne-
apolis

B.A. '53, Amherst College; M.A. '57, University of Minnesota. Major: Music. Minor: History. Thesis: The Development of 17th-Century French Vocal Ornamentation and Its Influence Upon Late Baroque Ornamentation-Practice. Major Adviser: Prof. Johannes Riedel.

Dale Amandus Chelberg, Braham

B.A. '50, Gustavus Adolphus College; M.A. '58, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: An Ecological Study of the Life History of the Fairy Shrimp *Chirocephalopsis Bundyi* (Forbes 1876) Linder 1941. Major Advisers: Profs. S. S. Eddy and J. C. Underhill.

Arthur Nethaway Collins, Albany,
N.Y.

B.A. *magna cum laude* '48, New York State College for Teachers; M.A. '51, University of Minnesota. Major: English. Minor: Philosophy. Thesis: Images of the Hero: Meredith and His Biographers, 1909-1959. Major Adviser: Prof. G. R. Stange.

Joseph Benedict Connors, Minne-
apolis

B.A. *summa cum laude* '37, College of St. Thomas; M.A. '47, University of Minnesota. Major: English. Minor: History. Thesis: The Victorian Reappraisal of the Eighteenth Century. Major Adviser: Prof. S. H. Monk.

James Walter Cusick, Fullerton,
Calif.

B.S. '49, Montana State College; M.A. in Educ. '53, Washington State College. Major: Education. Minor: Educational Psychology. Thesis: An Analysis of Chemical Bond Principles in an Experimental Introductory Chemistry Course. Major Adviser: Prof. C. H. Boeck.

Thomas James D'Andrea, Keewatin

B.A. *cum laude* '57, University of Minnesota. Major: Psychology. Minor: Mathematics. Thesis: Extinction After Several Reinforcement Schedules in a Multi-Operant Behavior Sequence. Major Adviser: Prof. Kenneth MacCorquodale.

Richard Ernest Dierks, Flandreau,
S.D.

B.S. '57, D.V.M. '59, University of Minnesota. Major: Veterinary Bacteriology. Minor: Agricultural Biochemistry. Thesis: Serological Studies and Characterization of Avian Mycoplasma. Major Adviser: Prof. B. S. Pomeroy.

John David Erickson, Minneapolis

B.A. *magna cum laude* '58, M.A. '61, University of Minnesota; M.A. '59, Harvard University. Major: French. Minor: English. Thesis: The Illusion of Reality in the Novels of Francois Mauriac. Major Adviser: Prof. Aram Vartanian.

Jay Paul Fillmore, Minneapolis

B.S. with high distinction '60, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: On Macaulay Modules and Abstract Hilbert Polynomials. Major Adviser: Prof. Helmut Rohrl.

Merle Norman Follstad, Elm Grove,
Wis.

B.S. '55, University of Wisconsin; M.S. '61, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Identification, Characteristics, and Biology of *Pullubaria Pullulans* (De Bary) Berkhout, a Common Fungus on Barley Grains. Major Adviser: Prof. C. M. Christensen.

Keith Fort, Washington, D.C.

B.A. *optime merens* '55, University of the South; M.A. '61, University of Minnesota. Major: Comparative Literature. Minor: English. Thesis: Beyond Despair a Comparative Study of Four Novels. Major Adviser: Prof. J. D. Hurrell.

Rudolph Thomas Franklin, Asheville,
N.C.

B.A. '50, Emory University; M.S. '55, University of Georgia. Major: Entomology. Minor: Plant Pathology. Thesis: The Influence of Soil Fertility and Resistance on Injury to Corn by the European Corn Borer. Major Adviser: Prof. F. G. Holdaway.

William Arthur Gibson, Austin

B.A. '55, M.A. '59, University of Minnesota. Major: English. Minor: Art. Thesis: A Preface to the Study of the Relations of Literature and Architecture, 1650-1750. Major Adviser: Prof. S. H. Monk.

Patricia Schwarz Goralski, St. Paul

B.S. with high distinction '47, M.A. '56, University of Minnesota. Major: Education. Minor: History and Philosophy of Education. Thesis: Creativity: Student Teachers' Perceptions of Approaches to Classroom Teaching. Major Advisers: Profs. G. M. A. Mork and E. P. Torrance.

Ruth Eleanor Hall, Deerwood

B.S. '38, M.S. '50, Iowa State University. Major: Education. Minor: Home Economics. Thesis: The Place of Textiles and Clothing in the Required Curriculum and in Selected Specializations in Home Economics. Major Adviser: Prof. R. R. Ford.

Roger Gordon Hanson, New Richmond, Wis.

B.S. '57, Wisconsin State College (River Falls); M.S. '61, University of Minnesota. Major: Soil Science. Minor: Horticulture. Thesis: An Investigation of Fertilizer Nitrogen Losses to the Atmosphere from Three Minnesota Soils. Major Adviser: Prof. J. M. MacGregor.

Rajinder Bir Hora, New Delhi, India

B.A. '47, M.A. '50, Panjab University (India). Major: Statistics. Minor: Mathematics. Thesis: Fiducial Probability Theory for Distributions with a Group Structure. Major Adviser: Prof. R. J. Buehler.

Po-Fang Hsieh, Tainan, Formosa

B.S. '59, National Taiwan University (China); M.S. '61, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: A Turning Point Problem for a System of Linear Ordinary Differential Equations of the Third Order. Major Advisers: Profs. Yatsutaka Sibuya and H. L. Turrittin.

Wayne Vincent Huebner, Glyndon

B.A. *cum laude* '50, M.A. '52, University of Minnesota. Major: English. Minor: French. Thesis: Convention and Innovation in the Satirical Treatment of Women by the Major Satirists of the Early Eighteenth Century. Major Adviser: Prof. S. H. Monk.

Perry Eugene Jacobson, Jr., Fergus
Falls

B.A. '59, Hamline University; M.S. '61, Iowa State University. Major: Sociology. Minor: Biostatistics. Thesis: The Dynamics of Inter-Faith Marriages. Major Adviser: Prof. D. A. Martindale.

DeWayne Carl Johnson, Brainerd

B.S. with high distinction '57, M.S.E.E. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Diffraction of Slow Electrons by Magnesium Oxide. Major Adviser: W. T. Peria.

Mahmood Haj Kasim, Mosul, Iraq

B.Sc. in Agric. '56, Agricultural College of Iraq; M.S. '60, University of Minnesota. Major: Genetics. Minor: Plant Pathology. Thesis: The Analyses of Yield and Its Components and Seed Quality Characteristics in Diallel Crosses Among Ten Varieties of Flax. Major Adviser: Prof. W. M. Myers.

Robert Frank Klay, Shonkin, Mont.

B.S. in Agric. with honors '52, Montana State College; M.S. in Agric. '58, Washington State University. Major: Animal Husbandry. Minor: Veterinary Physiology and Pharmacology. Thesis: Some Effects of Level of Dietary Protein on Lysine Metabolism of Growing Pigs. Major Adviser: Prof. R. J. Meade.

Adam Francis Koble, Rugby, N.D.

B.S. '57, M.S. '59, North Dakota State University. Major: Genetics. Minor: Botany. Thesis: Comparative S₁ Line and Top-Cross Performance of Corn (Zea Mays). Major Adviser: Prof. E. H. Rinke.

David Robert Kvistberg, Minneapolis

B. of Chem. with distinction '59, University of Minnesota. Major: Physiological Chemistry. Minor: Anatomy. Thesis: Model Studies on the Staining Reaction of Beta Cells of the Islets of Langerhans by Aldehyde Fuchsin. Major Adviser: Dr. C. P. Barnum, Jr.

Alfred Arnold Lease, St. Cloud

B.S. '50, M.S. '58, St. Cloud State College. Major: Education. Minor: Curriculum and Instruction. Thesis: An Experimental Comparison of Linear Program and Standard Textbook in Learning Basic Electronics. Major Adviser: Prof. H. F. Nelson.

Siang-Hui Lin, Canton, China

B.S. in Eng. '54, National Taiwan University (China); M.S.M.E. '59, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Radiant Interchange in Cavities and Passages with Specularly and Diffusely Reflecting Surfaces. Major Adviser: Prof. E. M. Sparrow.

Ardell Chester Linnerud, Whitehall, Wis.

B.S. '53, Wisconsin State College (River Falls); M.S. '62, University of Minnesota. Major: Dairy Husbandry. Minor: Animal Husbandry. Thesis: The Secretion Rate of Milk and Milk Components as Affected by Intervals of Milking. Major Advisers: Profs. J. D. Donker and C. E. Gates.

Wei-Kao Lu, China

B.Sc. '57, Cheng Kung University (China). Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Interfacial Movements in Iron Oxide Reduction. Major Adviser: Prof. Gust Bitsianes.

Richard Colton Lyon, Chapel Hill, N.C.

B.A. with honors '51, University of Texas; B.A. '53, University of Cambridge; M.A. '58, University of Connecticut. Major: American Studies. Thesis: Charles Francis Adams, Jr., and the Age of Steam. Major Adviser: Prof. J. C. Levenson.

Robert Wesley Macdonald, Winnipeg, Manitoba, Canada

B.A. '48, University of Manitoba; B.S.W. '49, M.S.W. '56, University of British Columbia. Major: Social Work. Minor: Sociology. Thesis: Intergenerational Family Helping Patterns. Major Adviser: Prof. J. C. Kidneigh.

Margaret Joyce MacInnes, Minneapolis

B.A. *summa cum laude* '51, M.A. '53, University of Minnesota. Major: English. Minor: Art. Thesis: Color Imagery in the Landscapes of the Faerie Queene: An Aspect of the Renaissance Visual Imagination. Major Adviser: Prof. Huntington Brown.

Stuart T. McComas, Milwaukee, Wis.

B.M.E. '56, Marquette University; M.S.M.E. '60, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Heat Transfer and Pressure Drop in Laminar Flow Through a Circular Tube Under Continuum and Rarefied Conditions. Major Adviser: Prof. E. R. G. Eckert.

Lucy Belle Jones McIntosh, St. Paul

B.S. '44, Hampton Institute; M.A. '47, University of Minnesota. Major: Education. Minor: Home Economics. Thesis: The Pre-Service Preparation of Home Economics Teachers for Work with Adults. Major Adviser: Prof. R. R. Ford.

Richard James Milgram, South Bend, Ind.

B.S. '61, M.S. '61, University of Chicago. Major: Mathematics. Minor: Physics. Thesis: The Homology Ring of Symmetric Products of Moore Spaces. Major Adviser: Prof. Eugenio Calabi.

Robert Harold Miller, Fremont, Wis.

B.S. '58, Wisconsin State College (River Falls); M.S. '61, University of Minnesota. Major: Soil Science. Minor: Microbiology. Thesis: Intact Assimilation of Amino Acids from Sterile Soil by *Phaseolus Vulgaris*. Major Adviser: Prof. E. L. Schmidt.

Yoshimasa Naitoh, Yamaguchi, Japan

B.A. '53, Yamaguchi University; M.A. '56, University of Minnesota. Major: Psychology. Minor: Neurology. Thesis: Effect of Whole Brain Co-60 Gamma Irradiation on Cortical Arousal in the Burro. Major Adviser: Prof. G. T. Heistad.

Grier Nicholl, Minneapolis

B.A. '51, Wesleyan University; M.A. '56, Teachers College, Columbia University. Major: American Studies. Thesis: The Christian Social Novel in America, 1865-1918. Major Adviser: Prof. M. C. Turpie.

Janis Louise Pallister, Rochester

B.A. *cum laude* '46, M.A. '48, University of Minnesota. Major: French. Minor: English. Thesis: The World View of Beroalde De Ver-ville Expressed Through Satirical Baroque Style in *Le Moyen De Parvenir*. Major Adviser: Prof. A. A. Renaud.

Gerald Leslie Park, Minneapolis

B.M.E. with distinction '55, University of Minnesota; M.S. '58, Stanford University. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Optimal Control of Linear Systems Subject to Random Load and Observation Disturbances. Major Adviser: Prof. E. B. Lee.

Lyle Perry Pederson, Fulda

B.C.E. '52, B.S. '52, M.S.C.E. '56, University of Minnesota. Major: Civil Engineering. Minor: Geology. Thesis: An Investigation of the Durability of Silty Soils Stabilized with Bituminous Materials. Major Adviser: Prof. M. S. Kersten.

Thomas Vere Philbrook, Minneapolis

B.A. '58, M.A. '60, University of Minnesota. Major: Sociology. Minor: Statistics. Thesis: Industrialization in the Small Community: A Study of Three Newfoundland Communities. Major Adviser: Prof. D. A. Martindale.

Judson Samuel Pond, St. Paul

B.M.E. '43, B.B.A. '55, University of Minnesota. Major: Inorganic Chemistry. Minor: Chemistry. Thesis: An Investigation of the Feasibility of Employing Trisulfur Dichloride in Cyclization Condensation Reactions with Primary Organic Amines. Major Adviser: Prof. R. C. Brasted.

Gurbachan Singh Ranhotra, Gorakhpur, India

B.V.Sc.&A.H. '58, M.V.Sc. '60, Agra University (India). Major: Animal Husbandry. Minor: Physiological Chemistry. Thesis: Protein and Energy Requirements of Lambs, Weaned at Six Weeks of Age, as Determined by Growth and Digestion Studies. Major Adviser: Prof. R. M. Jordan.

Richard Clayton Rank, Minneapolis

B.S. '57, M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: The Assessment of Counselor-Trainee Perceptions of Interview Protocols Before and After an Intensive Practicum Experience. Major Adviser: Prof. W. E. Dugan.

Richard Joseph Rose, Fairmont

B.A. *cum laude* '57, University of Minnesota. Major: Psychology. Minor: Biostatistics. Thesis: Preliminary Study of Three Indicators of Arousal: Measurement, Interrelationships, and Clinical Correlates. Major Adviser: Prof. D. T. Lykken.

Allan Michael Salzberg, Cumberland, Md.

B.A. '60, Cornell University. Major: Physical Chemistry. Minor: Mathematics. Thesis: Statistical Thermodynamics of the One Dimensional Plasma and Related Systems. Major Adviser: Prof. Stephen Prager.

Harland Ebbie Samson, Madison, Wis.

B.S. '53, M.A. '56, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Critical Requirements for Distributive Education Teacher-Coordinator. Major Adviser: Prof. R. G. Price.

Charles Herbert Sederberg, St. Paul

B.S. with distinction '54, M.A. '58, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of Mathematics Teaching Methods for Average and Below-Average Ninth Grade Pupils. Major Adviser: Prof. O. E. Domian.

Sheldon Weiss Simon, Washington, D.C.

B.A. *summa cum laude* '58, University of Minnesota; M.P.A. '60, Princeton University. Major: Political Science. Minor: History. Thesis: The International Labor Organization and Foreign Policies: An Interlevel Analysis Focusing on the Relation Between International Consensus Formation and National Political Development. Major Adviser: Prof. C. H. McLaughlin.

Vijai Bahadur Singh, Ballia, India

B.V.Sc.&A.H. '58, U. P. Veterinary College (India); M.S. '63, University of Minnesota. Major: Veterinary Bacteriology. Minor: Dairy Husbandry. Thesis: Studies on the Etiology of a Transmissible Disease Causing Infertility in Female Turkeys. Major Adviser: Prof. B. S. Pomeroy.

Chaturbhuj Singh Sisodia, Meerut,
India

B.V.Sc&A.H. '58, Agra University (India);
M.S. '60, Michigan State University. Major:
Veterinary Pharmacology and Physiology.
Minor: Agricultural Biochemistry. Thesis: The
Mechanism of Excretion of Various Drugs in
the Bovine Milk. Major Adviser: Prof. C. M.
Stowe.

Max Joseph Skidmore, Washington,
D.C.

B.S. '56, B.S. in Educ. '56, Southwest Mis-
souri State College; M.Ed. '56, University of
Missouri. Major: American Studies. Thesis:
Reconciliation by Rhetoric: An Examination of
the Conflict Between Practice and Ideology in
the United States as Illustrated by the Re-
action to Social Security. Major Adviser: Prof.
M. Q. Sibley.

Thomas Ewin Smith, Mobile, Ala.

B.A. '57, M.A. '61, University of Alabama;
M.S. in Educ. '58, Hunter College of the City
of New York. Major: Sociology. Minor: Psy-
chology. Thesis: Social Class and Adolescents'
Attitudes Toward Adopting or Rejecting Their
Fathers' Frames of Reference. Major Adviser:
Prof. R. L. Hill, Jr.

Ronald Lee Taylor, Hayward, Calif.

B.A. with distinction '60, San Jose State Col-
lege; M.S. '62, University of Minnesota. Ma-
jor: Entomology. Minor: Botany. Thesis: In-
tegumentary Changes During Moulting of
Arthropods with Special Reference to the Sub-
cuticle and Ecdysial Membrane. Major Adviser:
Prof. A. G. Richards.

John Ingram Thornby, Minneapolis

B.A. '49, M.A. '51, University of Minnesota.
Major: Statistics. Minor: Economics. Thesis:
A Study of Two Ranking Criteria for Selecting
a Subset Containing the Best of k Bivariate
Normal Populations. Major Adviser: Prof. Mil-
ton Sobel.

James Rodney Throckmorton, St.
Paul

B.S. '58, M.S. '60, University of Idaho. Major:
Organic Chemistry. Minor: Chemistry. Thesis:
The Preparation and Reactions of 1-Ethoxy-7,
7-Dichlorobicyclo-(4.1.0.)Heptane and 1-Eth-
oxy-7,7-Dibromobicyclo-(4.1.0.)Heptane. Major
Adviser: Prof. W. E. Parham.

John Aron Toews, Winnipeg, Mani-
toba, Canada

B.A. with great distinction '47, University of
Saskatchewan; M.A. '57, University of Mani-
toba. Major: History. Minor: Philosophy.
Thesis: Sebastian Franck: Friend and Critic of
Early Anabaptism. Major Adviser: Prof. R. E.
Giesey.

Roland Van Zandt, New York, N.Y.

B.A. '40, Rutgers University. Major: American
Studies. Thesis: Catskill Mountain Classic.
Major Adviser: Prof. M. Q. Sibley.

Elwood Edward Wedman, Ames,
Iowa

D.V.M. '45, Kansas State College; M.P.H.
'57, University of Minnesota. Major: Veteri-
nary Bacteriology. Minor: Public Health.
Thesis: GEL Double Diffusion Studies for
Tuberculosis in Bovine Serum. Major Adviser:
Prof. B. S. Pomeroy.

Paul Francis Wernimont, Carroll,
Iowa

B.S. '59, M.S. '61, Iowa State University. Ma-
jor: Psychology. Minor: Educational Psychol-
ogy. Thesis: Intrinsic and Extrinsic Factors in
Job Satisfaction. Major Adviser: Prof. M. D.
Dunnette.

Howell Kenneth Wilson, Savannah,
Ga.

B.S. with highest honors '60, Georgia Institute
of Technology. Major: Mathematics. Minor:
Physics. Thesis: A Boundary Value Problem
in Ordinary Differential Equations on the
Structure of Solutions to the Karman Swirl-
ing Flow Problem and a Canonical Form for
Linear Transformations of E_n Under Non-
linear Substitutions. Major Adviser: Prof. J.
B. Serrin.

Aston Sylvester Wood, Kingston, Ja-
maica, West Indies

B.S. '59, The Agricultural and Technical Col-
lege of North Carolina; M.S. '61, University
of Minnesota. Major: Dairy Husbandry. Minor:
Agricultural Biochemistry. Thesis: A Study of
the Progressive and Total Digestibility of
Three Skim Milks Fed to Young Calves. Ma-
jor Adviser: Prof. J. B. Williams.

William Worrell Wootten, Tempe,
Ariz.

B.A. '50, University of Chicago; M.A. '54, State University of Iowa. Major: History. Minor: Art. Thesis: A Study of Henry I, King of England, 1068-1107. Major Adviser: Prof. R. S. Hoyt.

Abdel-Hamid Ibrahim Zaki, Alexan-
dria, Egypt

B.Sc. '58, Alexandria University. Major: Plant Pathology. Minor: Agricultural Biochemistry. Thesis: Some Physiological Studies on Healthy and Rust-Infected Bean Plants. Major Adviser: Prof. Helen Hart.

Doctor of Philosophy in Medicine

Morton Donald Blaufox, New York,
N.Y.

M.D. '59, State University of New York. Major: Medicine. Minor: Pathology. Thesis: Studies of Renal Function and Experimental Hypertension: (1) Single Injection Clearance (2) the Radioisotope Renogram (3) Experimental Hypertension (4) Partial Nephrectomy and Hypertension (5) Electron Microscopy in Experimental Hypertension. Major Adviser: Dr. C. A. Owen, Jr.

Richard Bradley Davis, St. Paul

B.S. '49, Yale University; M.D. '53, State University of Iowa. Major: Medicine. Minor: Anatomy. Thesis: Studies of Alterations in 5-Hydroxytryptamine and Blood Platelets Caused by Pulmonary Embolism and Bacterial Endotoxin. Major Adviser: Dr. C. J. Watson.

Carlos Evans Harrison, St. Louis, Mo.

B.A. '53, Dartmouth College; M.D. '56, Washington University. Major: Medicine. Minor: Physiology. Thesis: The Kinetics of Degradation, Distribution, and Excretion of H³-Digoxin in Experimental Animals. Major Adviser: Dr. C. A. Owen, Jr.

Doctor of Philosophy in Neurosurgery

Shelley Nien-chun Chou, Golden
Valley

B.S. '46, St. John's University (China); M.D. '49, University of Utah; M.S. in Neurosurgery '54, University of Minnesota. Major: Neurosurgery. Minor: Pathology. Thesis: Microelectrode Investigations of the Cerebral Cortex in the Cat. Major Adviser: Dr. L. A. French.

Doctor of Philosophy in Surgery

Eugene Felix Bernstein, Minneapolis

M.D. '54, State University of New York. Major: Surgery. Minor: Physiology. Thesis: Some Physiological Responses to Intravenous Diatrizoates, and Their Application to Intravenous Aortography. Major Adviser: Dr. O. H. Wangenstein.

Henry Gans, Minneapolis

M.D. '51, University of Utrecht; D.M.Sc. '55, University of Nymegen. Major: Surgery. Minor: Physiological Chemistry. Thesis: Study of Fibrinolytic and Anticoagulant Mechanisms Following Thrombin Infusions in Normal and Reversed Eck Fistula Dogs. Major Adviser: Dr. R. C. Varco.

Bernard Goott, Minneapolis

M.B.,B.Ch. '54, University of the Witwatersrand (South Africa). Major: Surgery. Minor: Physiology. Thesis: Studies on the Effect of Carbon Dioxide Inhalation Upon Extracellular and Intracellular pH, the Sympatho-Adrenal System, Potassium Movement and Cardiac Rhythm. Major Adviser: Dr. R. C. Lillehei.

Summary of Degrees Conferred by the University During the Academic Year 1963-64

Conferred July, August and December 1963; March 1964	3252*
Conferred June 1964 (subject to completion of requirements)	<u>3305</u>
Total degrees conferred 1963-64	6557

*Includes 222 conferred at Duluth.

Academic Costume

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

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

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

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

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

(In the order of march)

General Extension Division	orange and drab
General College	crimson and white
College of 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 insignia may be easily secured anywhere in the world. And it is always worn proudly and with distinction—for ours is a great University.



UNIVERSITY OF MINNESOTA

July Commencement, 1964

THURSDAY EVENING, JULY 16, 8:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

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

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Gerald W. Heaney, Duluth

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable 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 thirteenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded nearly 174,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 35,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

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

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

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

sible for the Variety Club Heart Hospital and the great Mayo Memorial Building to be constructed. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and 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.

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

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

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

The summary financial statement of 1962-63 showed that the University's current income amounted to \$105,901,883.19 and the current expenditures, transfers, and adjustments amounted to \$105,901,163.82. Of the total received, \$10,262,589.66 came from student tuition and fees; \$13,751,922.36 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,719,876.49 from intercollegiate athletics; \$16,056,223.10 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$5,443,465.52 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$19,314,903.22 came from the federal government for instruction, research, and agricultural extension. The state provided \$36,257,644.42 or 34.2 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 \$6,184,253.

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Charles Forsberg, Graduate Student. 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 7:30 to 8:00 p.m., Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Associate Professor George J. McCutcheon, Ph.D., General College, Faculty Marshal, will carry the Mace into the auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal McCutcheon 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:

Voluntary in D Major - - - - - Purcell

ON THE STAGE: The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Marshal McCutcheon; Professor Rodney C. Loehr, Ph.D., College of Liberal Arts, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Captain Linton C. Beasley, U.S.A., Assistant Professor of Military Science; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Dean Robert J. Keller, Ph.D., College of Education; Captain Donley D. Eyolfson, U.S.A.F., Assistant Professor of Air Science; Dean E. W. Ziebarth, 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; The Honorable Bjarne E. Grottum, Regent of the University of Minnesota; President Sidney A. Rand, D.D., St. Olaf College, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Assistant Vice President Donald K. Smith, Ph.D., Academic Administration; The Reverend Gordon Dahl, Adviser to Lutheran students and staff members on the St. Paul Campus of the University; Assistant Dean John C. Haugland, Ph.D., Graduate School; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Assistant Dean Mitchell V. Charnley, M.A., University College; Lieutenant George C. Greene, U.S.N., Assistant Professor of Naval Science; Associate Dean Alfred L. Vaughan, Ph.D., General College; Associate Professor John A. Goodding, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; First Vice President Edwin A. Willson, B.A., Minnesota Alumni Association; Dean George P. Hager,

Ph.D., College of Pharmacy; Professor Howard F. Nelson, Ed.D., College of Education, Marshal; Professor Robert M. Jordan, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture, Marshal.

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

THE NATIONAL ANTHEM: The entire audience and Professor Schuessler, soloist.

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

INVOCATION: The Reverend Gordon Dahl.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson.

COMMENCEMENT ADDRESS: Dr. Sidney A. Rand, "The Encouragement of Inequality."

CONFERRING OF ROTC CERTIFICATES: Dr. Smith will introduce Captain Linton C. Beasley, U.S.A., Assistant Professor of Military Science; Lieutenant George C. Greene, U.S.N., Assistant Professor of Naval Science; and Captain Donley D. Eyolfson, U.S.A.F., Assistant Professor of Air Science, who will present the candidates for commissions in their respective branches of the Armed Services. The certificates of ROTC completion will be presented by President Wilson.

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 the order of their introduction: Associate Dean Vaughan for the General College; Dean Ziebarth for the College of Liberal Arts; Assistant Dean Charnley for the University College; Associate Dean Verbrugge for the Institute of Technology; Associate Professor Goodding for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Keller for the College

of Education; Dean Grambsch for the School of Business Administration; Associate Dean Cavert for the College of Medical Sciences; Assistant Dean Haugland 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: Mr. Edwin A. Willson.

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

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

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

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

POSTLUDE: Associate Professor Fleischer, organist.

Festival March - - - - - Handel

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

*Candidates for Commissions*_____

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Adjutant General Corps

William C. Olson, Hastings

Second Lieutenant, Army Intelligence and Security

Daniel W. Christman, St. Louis Park

DEPARTMENT OF NAVAL SCIENCE

Ensign, SC, USNR

William H. Thomas, Wayzata

Second Lieutenant, USMC

Harry E. Jensen, St. Paul

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Kenneth D. Gustafson, St. Cloud
Michael G. McCluney, St. Paul

John R. Plotnicky, Minneapolis
Storm C. Rhode III, 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

Roy Lee Allen, Jr., Minneapolis	Richard Wilton Lofstrand, Minneapolis
Michael John Ayers, Stillwater	Stephen Lloyd Maxwell III, St. Paul
Darlene Mary Burns, Richfield	Richard Earl Miller, Minneapolis
Henry Cronfel-Kawas, Tegucigalpa, Honduras	Marvin Kenneth Mirsky, St. Paul
Pamela Ann Dean, Minneapolis	Ronald Leslie Moore, Minneapolis
Glenn Merle Eriksen, Minneapolis	Charles Eldridge Morgan, St. Paul
Jerry Hugh Garman, Willmar	Roger Alan Olson, Minnetonka
James Michael Grobe, Minneapolis	John Ernest Petroskey, Minneapolis
Bruce Everett Hagberg, Mound	Douglas Rugh Platt, Minneapolis
Marlene Kay Hillsdale, Minneapolis	Charlotte Anne Reed, Minneapolis
Nancy Lee Holland, St. Paul	Diane Lucille Rossing, Minneapolis
Ronald Kenneth Knies, Minneapolis	Dale Roger Van Sickler, St. Paul
Jeanny Ann Kuczek, Minneapolis	John Lawrence Weidt, Minneapolis
Kenneth Trebus Loberg, Milwaukee, Wis.	

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Grace Lydia Brown, Odessa	Calvin Charles Korth, New Ulm
Sharon Magdolene Green, Minneapolis	Paul Edward Nymark, Minneapolis

Bachelor of Arts

Noel Edward Allard, North St. Paul	George Sverdrup Bergh, Jr., Minneapolis
Jairo Amaris, Bogota, Colombia, S.A.	David Lloyd Bluhm, International Falls
William Andrew Anderson, Ely	Robert Benson Boeder, Minneapolis
James William Becker, Minneapolis	Gordon Gill Bowers, Jr., Excelsior
John David Becker, Minneapolis	
Owen Adolph Berg, Red Wing	

Donna Lee Bright, Minneapolis
 Kay Esther Broderius, A.A., Minneapolis
 Peter Hill Brown, Edina
 Robert Allan Bunch, St. Paul
 Paul Douglas Campbell, Minneapolis
 John Alan Chesterman, Albert Lea
 Richard Michael Cihoski, St. Louis Park
 Susan Guettel Cole, East Orange, N.J., MAGNA CUM LAUDE
 Brian Manning Crook, Minneapolis
 Lynn Marie Cross, Hinckley, CUM LAUDE
 William George Demopoulos, Jr., Buffalo, N.Y.
 James Clayton Dodge, Edina
 Mary Murdock Donohue, St. Paul
 James Howard Douglas, Minneapolis
 Joseph David Dwyer, Minneapolis
 Burgess Martin Eberhardt, Minneapolis
 Cynthia Helen Fisher, Minneapolis
 Jon Orrin Flom, Minneapolis
 Mary Counsell Fogelstrom, A.A., Omaha, Neb.
 Betty Jean Foster, A.L.A., Minneapolis
 Louise Anne Foy, Minneapolis
 Maureen Kay Ross Franz, Cherokee, Iowa
 Philip Justin Frisk, Minneapolis
 Gloria Louise Goetzke, Monticello
 Gloria Ann Greenlee, A.A., Buhl
 Kenneth Dean Gustafson, St. Cloud
 Darryl Dale Hagman, Minneapolis
 Marcia Leigh Hansen, Richfield
 Donald Joseph Haugen, Minneota
 Marie Esther Henderson, Nashwauk
 Andrea Elizabeth Hinding, St. Paul
 Mark Bertrand Hirsch, Wabasso
 Paul Michael Hoagberg, Minneapolis
 Kevin Watson Hoidale, Wayzata
 Carol Margaret Hynes, Minneapolis
 Robert Dean Janssen, Worthington
 Harry Eugene Jensen III, St. Paul
 Kathryn A. Chermak Johnson, Minneapolis
 Richard Albert Johnson, Minneapolis
 Sandra Ione Judd, St. Paul
 Risa Ileen Kahn, Minneapolis

Barbara Kirby Kennedy, St. Paul
 Mary Helen Killeen, Minneapolis
 Gale Charles Kingdon, Maynard
 Marshall Kent Kittelson, A.M.S., Minneapolis
 Emily May McDiarmid Klaus, Rochester
 Gerald Eddie Korbel, Mahnomon
 Kathleen Erin Kromer, Mound
 Judy Karen Kuusisto, Minneapolis
 Gail Sharon Lagemann, Minneapolis
 Robert William Lange, St. Paul
 Jay Warren Larson, Albert Lea
 Richard Allan Larson, A.A., Willmar
 Sharlene Helga Laughton, Minneapolis, CUM LAUDE
 David Edward Lyons, Minneapolis
 James Robert Mariner, Minneapolis
 David Richard Maxner, Minneapolis
 Davis Cecile McDaniel, Lakeville
 Anne McDiarmid, St. Paul
 Philip Kent McInay, Minneapolis
 Oksana Mensheha, Minneapolis, MAGNA CUM LAUDE
 Larry Wayne Middleton, Fort Scott, Kan.
 Gretchen Elizabeth Miller, Edina
 Phyllis J. Ohm Miska, A.L.A., St. Louis Park
 Jay Haden Moor, St. Paul
 Thomas Paul Morton, Bovey
 Terrence Sullivan Nagle, Minneapolis
 George Samuel Obong, Minneapolis
 Rochelle Katharine Olsen, Robbinsdale
 Robert Carl Martin Olson, Minneapolis
 Harlow Beck Osteboe, Waseca
 Douglas Dale Page, St. Paul
 Charles Holly Pattison, North St. Paul
 Jerald Earl Pederson, St. Paul
 Janet Sue Pelton, St. Louis Park
 Curtis Ira Peterson, Edina
 Todd Elmer Peterson, Willmar
 Catherine Ann Pewters, Minneapolis
 Joanne Mizuire Pinchard, Hilo, Hawaii
 Thomas Joseph Pohl, St. Paul
 John Warren Riddle, Minneapolis
 James Elliot Roberts, B.B.A., Minneapolis

Kenneth William Roy, North St.
Paul
Carol W. Andree Safer, A.A., St. Paul
Nancy Morrison Sauer, Rochester
Richard Joseph Schieffer, Wayzata
Priscilla Mary Sedgwick, Minneapolis
Keith Ervin Simons, St. Louis Park
Kathleen Joyce Smith, Richfield
Bonnie Ellen Somers, Lincolnshire,
Ill.

Nickolaos E. Speliotis, Greece
Gayle Stebbins, Minneapolis
William Harry Thomas, Wayzata
Russell Clarence Thompson, Minne-
apolis
Thomas Fremond Turcotte, Brainerd
Michael J. Welch, Minnesota Lake
James John Welsh, Virginia
Donald Sylvester Woelfel, New
Holstein, Wis.

UNIVERSITY COLLEGE

Bachelor of Arts

Marshall Jay Besikof, St. Paul
Thomas Leibold Heenan, Minne-
apolis

Jeanne Louise Lindstrom, St. Paul

INSTITUTE OF TECHNOLOGY

Bachelor of Science

David Frank Groebner, Faribault,
WITH DISTINCTION
John Richard Kraska, Minneapolis,
WITH DISTINCTION

Ted George Merry, Minnetonka
Merlin Emil Scharfe, Redwood Falls
Richard Anthony Vomela, St. Paul,
WITH DISTINCTION

Bachelor of Aeronautical Engineering

John Walter Wohlwend, Minneapolis

Bachelor of Chemical Engineering

Edwin Dennis Arnott, Minneapolis

Vernon Harland Batdorf, Wayzata

Bachelor of Chemistry

John Donald Hudson, West St. Paul
Glen Wilson Skewes, St. Cloud,
WITH DISTINCTION

Kenneth Blaine Stokes, A.A., Minne-
apolis

Bachelor of Civil Engineering

Dwight Frank Jennings, Minneapolis

Bachelor of Electrical Engineering

Robert Roy Black, St. Paul
Dean Lester Luedtke, Grantsburg,
Wis.
Rodney Bernard Maas, Dassel

Thomas Frank Salmon, St. Paul
James Ronald Schoolmeesters, La
Crescent

Bachelor of Geological Engineering

William LeRoy Shaffer, Pine City

Bachelor of Mathematics

Lawrence Thomas Gentilini, A.A., Virginia

Bachelor of Mechanical Engineering

William Harrison Edlund, Minneapolis

Bachelor of Physics

Thomas David Martin, St. Louis Park Neil Basil Schulte, St. Paul

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

Bachelor of Science

David Lee Anderson, B.A., Ghent,
Forestry
Roger Paul Camerer, Austin, Forestry
Naomi Alice Broderius Carlson,
Hector, Home Economics
Mary Elizabeth Chapman, Minne-
apolis, Agriculture, WITH DISTINC-
TION
Dennis John Erickson, Golden Valley,
Forestry
Larry Bruce Everson, Ortonville,
Agriculture
Richard Wallace Herberg, Richfield,
Forestry
Clark Peter High, Minneapolis,
Forestry
Julie Marguerite Homme, Granite
Falls, Home Economics
Norma Leona Korngiebel, Hutchin-
son, Home Economics

Larry Dean Larson, Sargeant,
Agriculture
Pamela Anne Leino, Minneapolis,
Home Economics, WITH DISTINC-
TION
James Robert March, Markesan, Wis.,
Agriculture, WITH DISTINCTION
Martin Ray McCleery, Waseca,
Forestry
Bruce Wallace Palm, Grove City,
Agriculture, WITH DISTINCTION
Anne Isabel Peterson, St. Paul, Home
Economics
Donald Dwight Roberts, A.A., Min-
neapolis, Agriculture, WITH DIS-
TINCTION
James Lee Sparke, Mankato, Forestry
Corinne Annette Tucholke, Bloom-
ington, Home Economics

COLLEGE OF EDUCATION

Bachelor of Science

- Zona Marie Arch, A.A., Rochester
Kari Liv Belgum, B.A., Minneapolis
Glenn Roger Belleful, Minneapolis
Alice Suzanne Bennett, Windsor, Ill.
Joan Traxler Black, Minneapolis
Marlys Jean Bluml, Minneapolis
Ronald Terry Buhrt, Minneapolis
Ethel Carlson Burke, St. Louis Park
Gary Ross Callister, B.B.A.,
Bloomington
Judith Marie Lineer Carney, White
Bear Lake
Nicholas Joseph Covelli, Kenosha,
Wis.
Dolores Zimpel Dale, Minneapolis
Helene Schrader Delzer, Minneapolis
Ethyle Alice Dickinson, Blaine
Frances Linnea Dirks, B.A., Savage
John Charles Duck, B.A., M.A., St.
Louis Park
Gary Gene Erickson, Mora
Marie Majel Nelson Erickson, St. Paul
Bella Mae Eske, Aberdeen, S.D.
Pearl Williams Ewing, Minneapolis
Judith Berniece Felth, Minneapolis
Colin Lee Fong, B.A., Port Elizabeth,
South Africa
Gunnar Oystein Fosker, Oslo, Norway
Mary Ann Freeman, B.A., Minne-
apolis
Herman John Froehle, Cold Spring
Nancy Voss Gmitro, B.A., Minne-
apolis
*Kathleen Dawkins Goldman, Min-
neapolis, WITH DISTINCTION*
Neva Joyce Green, Minneapolis
Robert Stanley Griffin, South St. Paul
Thomas John Griffiths, A.A., Minne-
apolis
Emalie Sue Hagen, A.A., Minne-
tonka
Louis B. Hauser, B.A., St. Paul
Ellsworth Roy Holm, B.A., Min-
neapolis
Patricia Kay Hopkins, Villard
Vance Lauteen Huntsinger, A.A.,
B.A., St. Paul
Harriet Lorraine Iverson, Richfield
Charlene Johnson Jassim, B.A.,
Minneapolis
Ethel S. Olson Johnson, Minneapolis
Valerie Litchke Jorgens, Minneapolis
Carolyn Alida Kron, B.A., Minne-
apolis
Margaret Joan Kylander, Minneapolis
Stephen Charles Lindquist, Minne-
apolis
Diane Marie Loftsgaarden, B.A., Min-
neapolis
Alice Elizabeth Logeland, Minneapolis
Mabel Ruth Marks, B.A., Redwood
Falls
Mary Louise Martig, Rochester
James Torrence Matthews, B.A.,
Minneapolis
Laura Mengelkoch, Minneapolis
*Kathleen Fariday Mobraten, Min-
neapolis, WITH DISTINCTION*
Bernice Taylor Morehead, Forest
Lake
Frederick Morgen Negaard, Minne-
apolis
Paul Carl Norlander, St. Paul
Dennis Patrick O'Keefe, St. Paul
Dorothy Elaine Brock Olson, Min-
neapolis
*Sophie Storvik Olson, Bloomington,
WITH DISTINCTION*
*Allen Victor Peterson, Two Harbors,
WITH DISTINCTION*
*Carol Lynn Peterson, Minneapolis,
WITH HIGH DISTINCTION*
*Judith Lillian Peterson, White Bear
Lake, WITH DISTINCTION*
Karen Maxine Peterson, St. Paul
Robert Raymond Prawdzyk, Berwyn,
Ill.
Deanna Lucille Prince, Minneapolis
Donald Arthur Randall, B.A., Min-
neapolis

Richard Robert Rausch, Robbinsdale,
WITH DISTINCTION
Donald Joseph Reardon, St. Paul
Margaret Louise Roff, B.A., Min-
neapolis
Georgia Shaw Rosenblum, B.A. cum
laude, St. Paul
Judith Gale Rubinsky, B.A., Min-
neapolis
Susan Oreen Saunders, Richfield
Mary Ellen Schomburg, Minneapolis
Shirley Ann Shodahl, Minneapolis

Carol Ann Sorenson, Hopkins
Lyman Kent Steil, A.L.A., Albert Lea
Clifton Raymond Thompson, B.A.,
Bruno
Mary Margaret Tjosvold, Minneapolis
Pamela Grace Waller, Algona, Iowa
Linda Gail Washburn, St. Paul
Maren Kinney Welles, Duluth
Mariam Tenenbaum Zamansky, St.
Paul
James Fredrick Zuelow, St. Paul

Master of Education

Ray Rudolph Kelley, B.S., Minne-
apolis
Betty Rae Krabbe, B.S., Amarillo,
Tex.

Robert Mueller, B.S., Minneapolis
Lee Scott Pettersen, B.S., Minneapolis
Carol Jean Willits, B.S. with high
distinction, Sibley, Iowa

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

Bachelor of Science

Judy Lyn Erskine, Staples, Home
Economics Education
Murna Lorraine Carlson Hansemann,
Fosston, Home Economics Educa-
tion
Carol Jean Hanson, Ellendale, Home
Economics Education, WITH
DISTINCTION
Donald Lee Klein, Fisher, Agricul-
tural Education
Nancy Louise Peterson, Minneapolis,
Home Economics Education

Darrel Marvin Rupp, New London,
Agricultural Education
Kathleen May Salisbury, Minneapolis,
Home Economics Education
Mary Jo Sieg, Minneapolis, Home
Economics Education
David Elwood Ufford, Kelliher,
Agricultural Education
Mavis Ethleen Meyer Waterman,
Sanborn, Home Economics Educa-
tion
Judith Ann Watrud, Minneapolis,
Home Economics Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

David Charles Anderson, Lake City
Richard Michael Brewer, Minneapolis

Charles Owen Buirge, Minneapolis
Albert Paul Dorich, A.L.A., Duluth

Dennis Ray Dougherty, Austin
Lawrence Willard Elfstrom, Min-
neapolis
Alvin Raymond Gill, Minneapolis
Randall Gary Godeke, Pease
David Allen Goldfarb, St. Paul
Bradford Hamilton Gran, Le Sueur
Douglas Edmund Johnson, Mora
Richard Cleon Lidbom, Minneapolis
Patrick Eugene Malloy, B.C.E.,
Stewartville
Edward Julius Otremba, Pierz

Myron Papiz, B.A., Minneapolis
David Townsend Peterson, B.A.,
Minneapolis
Phillip Curtis Purdy, Minnetonka
Gareth Franklin Rahman, A.A.,
Rochester
Raymond Robert Rauch, Minneapolis
William Henry Traiser, New Rich-
mond, Wis.
Kenneth David Wethe, Minneapolis
Thomas James Wilford, St. Paul

Bachelor of Science in Economics

Mark Thomas Cook, Minneapolis

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

Bachelor of Agricultural Business Administration

Caroll Clair Kameron Hall, Mason
City, Iowa

Leland Paul Johnson, Dassel
John Reid Plotnicky, Minneapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Inez Ann Edwall Nelson, Minne-
tonka, Public Health Nursing
Verla Jean Nelson, Minneapolis,
Public Health Nursing, WITH
DISTINCTION

Alice Fagstad Parmelee, R.N., Min-
neapolis, Public Health Nursing

Master of Public Health

Idunn Heldal Haugen, Oslo, Norway
Alan Chao-Hsien Hu, B.S.C.E.,
Anhwei, China
Kenneth Lewis Johnson, B.S.,
Cincinnati, Ohio

Lawrence Henry Meskin, D.D.S.,
M.S.D., St. Louis Park
Soebagio Poerwodihardjo, M.D.,
Indonesia

GRADUATE SCHOOL

Master of Arts

Nazima Salman Al-Dulaimi, Iraq

B.A. '51, Queen Aliya College (Iraq). Field of Concentration: Curriculum and Instruction.

Charles Arthur Austad, North Branch

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

John Bernell Bastolich, Minneapolis

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

Monte Rae Blair, Oskaloosa, Iowa

B.A. '62, University of Florida. Major: Sociology. Minor: Statistics. Thesis: The Social Areas of Minneapolis.

Grady Evans Brooks, Clarkesville, Ga.

B.A. '63, University of South Florida. Field of Concentration: History.

Bruce Peter Carlson, Minneapolis

B.A. '62, North Park College. Field of Concentration: History.

Julie Chou, Taiwan, China

B.A. '61, Tamkang College of Arts and Sciences (China). Field of Concentration: Library Science.

Charles Edmund Coskran, Minneapolis

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

Ruth Marlowe Duncan, Winnipeg, Manitoba, Canada

B.A. '36, University of Manitoba; B.Sc. with distinction '51, McGill University. Field of Concentration: Curriculum and Instruction.

Ezzat Sayed El-Alfi, Manial, Cairo, Egypt

B.S. in Econ. '64, University of Minnesota. Field of Concentration: Economics.

Judith Frances Feinleib, New York, N.Y.

B.A. '61, Hunter College. Major: Area Studies: Russian. Thesis: Plekhanov vs Lenin: Evolution vs Revolution.

Floyd Edwin Folven, Minneapolis

B.A. '59, University of Minnesota. Field of Concentration: Industrial Relations.

Florence Mabel Friedman, Silver Spring, Md.

B.A. '62, Northwestern University. Field of Concentration: American Studies.

John Edward Going, Lancaster, Pa.

B.A. cum laude '58, Catholic University of America. Field of Concentration: Speech and Theatre Arts.

Gary Jule Green, Minot, N.D.

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

Richard Leroy Greenstreet, St. Cloud

B.A. cum laude '62, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Simulation of a Sequential Nonparametric Procedure.

Bernard Niel Harvey, Fort William, Ontario, Canada

B.Sc. with honors '62, University of Ottawa. Major: Mathematics. Minor: Philosophy. Thesis: An Investigation of the Relation " \leq ".

Pauline Irvin John Kelton, Minneapolis

B.S. '48, Purdue University; B.S. '62, University of Minnesota. Field of Concentration: Library Science.

Leon Paul King, Rochester

B.S. '52, Winona State College. Field of Concentration: Library Science.

Denis Allison Lape, Milford, Conn.

B.A. '61, Yale University. Field of Concentration: English.

Helen B. Lemmer, Ely

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

Gene Joseph Lohman, Austin

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

Ralph Warren Martinsen, Elkton

B.A. '51, Hamline University; B.A. '55, Augsburg College. Field of Concentration: Educational Administration.

Peter Evans Meintsma, Minneapolis

B.S. '51, Bob Jones University. Field of Concentration: History.

Leon Joseph Meuwissen, St. Paul

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

Joseph Arthur Miller, Minneapolis

B.A. *cum laude* '55, M.A. '57, University of Minnesota. Field of Concentration: Library Science.

Marion Lois Gronvall Milner,
Longview, Wash.

B.S. with distinction '42, University of Minnesota. Field of Concentration: Library Science.

Richard David Murphy, Denver,
Colo.

B.A. '61, University of Colorado. Major: Physics. Minor: Mathematics. Thesis: Ground-State Properties of Bose Gas Mixtures.

Harold Edwin Nelson, St. Paul

B.A. '60, University of Minnesota. Major: Anthropology. Minor: History. Thesis: A Cross-Cultural Examination of Dissonance Theory as Applied to the Study of Magico-Religious and Magico-Political Movements.

Donald Duane Olsen, Minneapolis

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

Joan Lilla Pabst, Chicago, Ill.

B.A. '62, De Pauw University. Field of Concentration: Psychology.

Ellen Quirk Pahl, St. Paul

B.A. '58, College of St. Catherine. Field of Concentration: Political Science.

Chandler Fremont Pauling, Minneapolis

B.A. '53, University of Minnesota. Major: Philosophy. Minor: Greek. Thesis: The Problem of Evil in the Late Classical Period.

Orville Forseth Peterson, St. Paul

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

Tatiana Prokopov, St. Paul

Diploma '41, State Pedagogical Institute of Stalino. Field of Concentration: German.

Paul Richard Rebelein, Minneapolis

B.A. *cum laude* '59, Wartburg College. Field of Concentration: Mathematics.

Loren Dean Reichert, Minneapolis

B.A. '61, Carleton College. Major: Sociology. Minor: Anthropology. Thesis: Petty Crime in the Changing City: A Study of Its Distribution.

Kay Frances Reinartz, Rose Creek

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

Blandine Mareschal Rickert,
Pontarlier, France

Diploma '61, University of Besancon (France). Field of Concentration: French.

Sally Lee Roberson, Tucson, Ariz.

B.A. '61, University of Arizona. Field of Concentration: Speech and Theatre Arts.

Edwin Jeffrey Saugestad, Minneapolis

B.A. *cum laude* '59, Augsburg College. Field of Concentration: Physical Education.

Erich Henry Sievert, New Ulm

B.S. in Educ. '63, Dr. Martin Luther College. Field of Concentration: Curriculum and Instruction.

Roberta Lee Silverstein, Chicago, Ill.

B.A. '61, University of Minnesota. Major: Anthropology. Minor: Sociology. Thesis: Acculturation in a Moshav Olim: A Study of Three Generations of Moroccan Immigrants in a Cooperative Settlement in Israel.

Roopnarine John Singh, British
Guiana

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

Sister Sarah Smedman, Duluth

B.A. *summa cum laude* '53, College of St. Scholastica. Field of Concentration: English.

William George Sommer, Pekin, Ill.
B.S. '58, M.D. '62, University of Illinois. Field
of Concentration: Speech and Theatre Arts.

Clifford Dennis Strom, Louisburg
B.A. *cum laude* '61, University of Minnesota.
Major: Scandinavian. Minor: Political Science.
Thesis: Decadence as a Theme in the Writ-
ings of Arne Garborg from 1875 to 1890.

Ludmila Stupnitsky, Kharkov, Russia
B.A. '61, University of Minnesota. Field of
Concentration: Spanish.

Barbara Anne Tedder, Minneapolis
B.A. '59, College of St. Catherine. Field of
Concentration: Speech and Theatre Arts.

Claire Arlene Teitelbaum, Bronx, N.Y.
B.A. *summa cum laude* '62, Barnard College.
Major: Child Psychology. Minor: Psychology.
Thesis: The Role of Verbal Mediation in In-
ferential Behavior.

Alveris Bonnell Van Fleet, Minne-
apolis
B.Mus. '60, University of Michigan. Field of
Concentration: Music Education.

Carolyn Louise Vogland, Minneapolis
B.S. with distinction '54, University of Min-
nesota. Field of Concentration: History.

John Montgomery Wilson, Minne-
apolis
B.A. '55, St. Olaf College. Field of Concen-
tration: Art.

Marie Ethel Wilson, Elmore
B.S. with distinction '60, University of Min-
nesota. Field of Concentration: Art Education.

Master of Arts in Public Administration

Benedito Eurico DeFreitas Madeira,
Rio de Janeiro, Brazil
Diploma '53, University of Brazil. Major:
Public Administration. Thesis: The Social
Security Systems of the United States and
Brazil.

Chan-Chai Ungbhakorn, Bangkok,
Thailand

B. of Pol. Sci. '59, Chulalongkorn University
(Thailand). Major: Public Administration.
Thesis: Central Control of Local Administra-
tion in Thailand.

Marion Keith Putman, Salem, Ore.
B.A. '55, Willamette University. Major: Pub-
lic Administration. Thesis: Problems of the
Categorical Approach to Federal Financial
Participation in Public Assistance.

Master of Business Administration

Arthur Lloyd Christensen, Minne-
apolis
B.B.A. '59, University of Minnesota. Field of
Concentration: Business Administration.

Robert Allyn Kierlin, Winona
B.M.E. '62, University of Minnesota. Field of
Concentration: Business Administration.

Robert William Olmen, St. Paul
B.S. with distinction '49, University of Minne-
sota. Field of Concentration: Business Admin-
istration.

Robert John Schueth, Bloomington
B.A. *magna cum laude* '55, Loras College.
Field of Concentration: Business Administra-
tion.

Everett Pascoe Stephens, Turtle Lake,
N.D.

B.B.A. '49, University of Minnesota. Field of
Concentration: Business Administration.

Marold Clarence Strand, Camarillo,
Calif.

B.A. *cum laude* '52, Gustavus Adolphus Col-
lege. Field of Concentration: Business Admin-
istration.

Robert Albert Tuma, Jr., Minneapolis

B.S. '57, St. John's University. Field of Con-
centration: Business Administration.

Master of Fine Arts

Timothy Michael Crane, Minneapolis

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

Mary Towley Swanson, Hopkins

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

Master of Science

Li-pen Chao, Taipei, China

B.S. in Agric. '57, Taiwan Provincial College
of Agriculture (China). Major: Agricultural
Biochemistry. Minor: Organic Chemistry. The-
sis: Autoactivation Studies of Pork Trypsino-
gen in the Presence and Absence of Calcium.

John David Clem, Everett, Wash.

B.S.C.E. '60, University of Washington. Field
of Concentration: Public Health.

Willie Rogers Curtis, LaCrosse, Wis.

B.S. '56, North Carolina State College. Field
of Concentration: Forestry.

Roger Lee DeRoos, Springfield, S.D.

B.S.C.E. '63, South Dakota State College.
Field of Concentration: Public Health.

Joseph Terrence Greve, Cincinnati,
Ohio

B.S. '62, University of Cincinnati. Field of
Concentration: Organic Chemistry.

John McDonell Halloin, Green Bay,
Wis.

B.S. '60, University of Wisconsin. Major: Ag-
ricultural Plant Physiology. Minor: Botany.
Thesis: The Competition of Wild Oats with
Wheat, Barley and Oats for Phosphorus and
Potassium.

Anne Elizabeth Hammill, Minneapolis

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

Claus Leitzmann, Minneapolis

B.S. '62, Capital University. Major: Micro-
biology. Minor: Agricultural Biochemistry.
Thesis: Variations in Nucleotide Pools During
Sporulation in *Bacillus Licheniformis*.

James Bernard Mehl, Minneapolis

B.Phys. with distinction '61, University of
Minnesota. Major: Physics. Minor: Mathema-
tics. Thesis: A Study of an Oscillating Porous
Medium Immersed in Superfluid Liquid Hel-
ium.

Neil Wayne Miles, Forest Lake

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

Su-shu Pan, China

B.S. in Agric. '59, National Taiwan University
(China). Major: Soil Science. Minor: Micro-
biology. Thesis: Estimation of Keto Acids
Occurring in Soils.

Edwin Robert Poore, Mt. Ayr, Iowa

B.S. with distinction '60, University of Min-
nesota. Field of Concentration: Agricultural
Economics.

James Martin Rosen, Minneapolis

B.Phys. with distinction '62, University of
Minnesota. Major: Physics. Minor: Mathe-
matics. Thesis: The Vertical Distribution of
Dust in the Atmosphere.

John Clausen Schwarz, New York,
N.Y.

B.A. '62, Carleton College. Field of Concen-
tration: Business Administration.

Yueh Shan, Taiwan, China

B.S. '55, National Taiwan University (China).
Major: Physics. Minor: Mathematics. Thesis:
On the Hartree Calculations for the Ground
State of Noble Gas Crystals.

K. P. Sivaramakrishnan, India

B.Sc. '58, M.Sc. '60, University of Bombay
(India). Major: Organic Chemistry. Minor:
Physical Chemistry. Thesis: Alkylation of 3-
Methylindoles with Arylmethylcarbonium Ions.

Master of Science in Chemical Engineering

Ronald Floyd Christenson, St. Paul

B.Ch.E. with distinction '61, University of
Minnesota. Major: Chemical Engineering.
Minor: Physical Chemistry. Thesis: Mass
Transfer in Agitated Liquid-Solid Systems.

Gabriel Garcia-Moreno, Mexico City,
Mexico

Diploma '60, National University of Mexico.
Major: Chemical Engineering. Minor: Indus-
trial Engineering. Thesis: Mass Transfer Co-
efficients in Agitated Solid-Liquid Suspensions.

Frank Thomas Vikingstad, St. Paul

B.Ch.E. '61, University of Minnesota. Major:
Chemical Engineering. Minor: Mathematics.
Thesis: Droplet Interaction in Organic-Dis-
persed Liquid Systems.

Master of Science in Civil Engineering

John Wilbur Bird, Minneapolis

B.C.E. '56, University of Minnesota. Major:
Civil Engineering. Minor: Agricultural Engi-
neering. Thesis: The Development of Models
to Demonstrate Some of the Principles of the
Dynamics of Structures.

Floyd Lee Matthew, Carthage, S.D.

B.S.C.E. with high honors '60, South Dakota
School of Mines and Technology. Field of
Concentration: Civil Engineering.

Shu Ping Han, Peiping, China

B.Sc. '59, Cheng Kung University (China).
Field of Concentration: Civil Engineering.

Parshuram Padmapani Pandit,
Bombay, India

B.E. (Civil) '54, University of Poona (India).
Field of Concentration: Civil Engineering.

Ning-Sheng Huang, Hualien,
Taiwan, China

B.S. in Eng. '60, National Taiwan University
(China). Field of Concentration: Civil Engi-
neering.

Satwant Singh Rihal, New Delhi,
India

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

Donald William Ringrose, Minne-
apolis

B.S. with high distinction '62, University of
Minnesota. Field of Concentration: Civil Engi-
neering.

Master of Science in Electrical Engineering

Jar-Mo Chen, China

B.Sc. '59, National Taiwan University
(China). Major: Electrical Engineering.
Minor: Mathematics. Thesis: Anomalous
Photovoltaic Effects in Germanium Films.

Satish Kharabanda, Delhi, India

B.S. (Hons) '57, University of Delhi; Diplo-
ma '60, Indian Institute of Science (India).
Major: Electrical Engineering. Minor: Me-
chanical Engineering. Thesis: Transmission
(A.C.) Extra Long Distance—Extra High Vol-
tage with Particular Consideration of Corona.

Nicholas Alex Patrin, Minneapolis

B.S. with distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Microwave Study of Electron Inertia Effects in the Transport Properties of the Semiconductor N-Silicon.

William Andrew Plice, Minnetonka

B.S.E.E. '51, Illinois Institute of Technology. Field of Concentration: Electrical Engineering.

Richard Albert Strom, Minneapolis

B.E.E. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Metal-Oxide-Semiconductor Capacitors.

Master of Science in Industrial Engineering

William S. Kerwin, Minneapolis

B.M.E. '63, University of Minnesota. Major: Industrial Engineering. Minor: Statistics. Thesis: A Study of Standard Data Development and Application in a Selected Industry.

Master of Science in Mechanical Engineering

Muhammad Anwer Malik, Quetta,
Pakistan

B.Sc. '61, University of the Panjab (India).
Field of Concentration: Mechanical Engineering.

Gideon Shavit, Raanana, Israel

B.S. in Ag. Eng. '59, Technion Institute of Technology (Israel); M.S. in Ag. Eng. '62, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Measurements of the Developing Laminar Flow and Pressure Drop in a Rectangular Duct with Aspect Ratio 5:1.

Master of Science in Physical Therapy

Martin Orlen Mundale, Minneapolis

B.A. '48, St. Olaf College; B.S. '52, University of Minnesota. Major: Physical Therapy. Minor: Anatomy. Thesis: A Study of the Relationship of Endurance During Isometric Exercise to Strength of Isometric Contraction of the Muscles of Hand Grip.

Certificate of Specialist in Education

Alex Najeb Kadrie, St. Paul

B.A. '57, University of Minnesota; M.Ed. '60, Harvard University. Field of Concentration: School Psychological Services.

Neil Bradley Sandberg, Minneapolis

B.S. '51, M.A. '57, University of Minnesota. Field of Concentration: Elementary School Administration.

Doctor of Philosophy

Mary Abrahamsen, Silver Spring, Md.

B.S. '59, University of Wisconsin; M.S. '62, University of Minnesota. Major: Agricultural Plant Physiology. Minor: Agricultural Biochemistry. Thesis: Some Aspects of the Carbohydrate Metabolism of Germinating Soybean Seedlings in Relation to Levels of Carbohydrates and Carbohydrate Precursors. Major Adviser: Prof. T. W. Sudia.

Milton Altschuler, St. Paul

B.A. '53, M.A. '56, University of California. Major: Anthropology. Minor: Geography. Thesis: The Cayapa: A Study in Legal Behavior. Major Adviser: Prof. E. A. Hoebel.

Donald Lloyd Anderson, Reseda, Calif.

B.A. *cum laude* '52, M.A. '54, University of Minnesota. Major: Business Administration. Minor: History. Thesis: Depreciation Accounting in the Public Utility Industries: A Reconsideration. Major Adviser: Prof. R. G. Berryman.

Paul Martin Anderson, Jackson

B.S. with distinction '59, University of Minnesota. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: The Interaction with Proteins and Enzymatic Cleavage of S-(1,2-Dichlorovinyl)-L-Cysteine. Major Adviser: Prof. M. O. Schultz.

Robert John Bose, Cloverdale, British Columbia, Canada

B.S.A. '55, M.S.A. '57, University of British Columbia. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Periodate Oxidation of Fructans and Related Compounds. Major Adviser: Prof. Fred Smith.

John Robert Christianson, Mankato

B.A. with honors '56, Mankato State College; M.A. '59, University of Minnesota. Major: History. Minors: Art and Geography. Thesis: Cloister and Observatory: Herrevad Abbey and Tycho Brahe's Uraniborg. Major Adviser: Prof. J. B. Wolf.

Harold Set Chung, Hong Kong, China

B.S. with distinction '59, University of Minnesota. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Some Aspects of the Equilibrium Theory of the Liquid State. Major Adviser: Prof. J. S. Dahler.

Charles Egolf Clifton, Jr., Los Altos, Calif.

B.A. '60, Stanford University. Major: Psychology. Minor: Child Psychology. Thesis: Syntactic Generalization: Affirmation-Negation. Major Adviser: Prof. J. J. Jenkins.

James Ronald Deason, Mt. Vernon, Ill.

B.S. in Educ. '58, Illinois State Normal University; M.A. '60, Southern Illinois University. Major: Organic Chemistry. Minor: Chemistry. Thesis: Stereochemistry of Steroidal Sulfur Compounds in Two Parts: Part I—Free Radical Additions, Part II—Absolute Configurations of Sulfoxides. Major Adviser: Prof. R.M. Dodson.

Bruce Flagg Duncombe, Arlington, Va.

B.A. '59, Amherst College. Major: Economics. Minor: History. Thesis: Interregional Multipliers. Major Adviser: Prof. J. M. Henderson.

Charles Nord Dunn, St. Paul

B.S. with high distinction '58, M.S.E.E. '60, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Electrical Charge Transport Phenomena in Gases. Major Adviser: Prof. H. J. Oskam.

Melvin Ivon Dyer, Plummer, Idaho

B.S. '55, University of Idaho; M.S. '61, University of Minnesota. Major: Zoology. Minors: Botany and Geology. Thesis: Radar and Morphometric Studies on Transient Red-Winged Blackbird Populations. Major Adviser: Prof. D. W. Warner.

Maurice O. Elvekrog, Madison

B.A. *magna cum laude* '56, College of St. Thomas. Major: Psychology. Minor: Psychiatry. Thesis: The Development of Measures of Three Response Styles and Their Relationships to Test and Non-Test Variables. Major Adviser: Prof. W. A. Russell.

Wayne E. Engel, St. Paul

B.A. '54, Capital University; M.Ed. '59, Kent State University. Major: Educational Psychology. Minor: Education. Thesis: Some Personality Functions Associated with Ability-Achievement Discrepancy Levels of Elementary School Children. Major Advisers: Profs. W. E. Dugan and C. J. Hoyt.

Abram M. I. Fiskin, Denver, Colo.

B.A. '36, University of Manitoba; M.A. '41, University of Minnesota. Major: English. Minor: Linguistics and Comparative Philology. Thesis: Eugene O'Neill: The Study of a Developing Creed Through the Medium of Drama. Major Adviser: Prof. J. D. Hurrell.

Richard Bryan Forbes, Sibley, Iowa

B.A. *cum laude* '58, University of South Dakota; M.S. '61, University of New Mexico. Major: Zoology. Minor: Botany. Thesis: Ecological Studies of the Eastern and Least Chipmunks. Major Adviser: Prof. J. C. Underhill.

Roberta Kay Gardner, Hyattsville, Md.

B.A. *summa cum laude* '58, Gustavus Adolphus College; M.S. '61, University of Minnesota. Major: Microbiology. Minor: Physiological Chemistry. Thesis: Studies of the Instability of Pertussis Antigen in Diphtheria-Tetanus-Pertussis-Polio Vaccine. Major Adviser: Dr. L. C. McLaren.

Robert Philip Goldstein, Binghamton, N.Y.

B.Ch.E. '60, Rensselaer Polytechnic Institute. Major: Chemical Engineering. Minor: Mathematics. Thesis: An Analytical Study of the Steady State and Transient Behavior of One- and Two-Phase Polymerization Reactors. Major Adviser: Prof. N. R. Amundson.

Norman Russell Gould, New Berlin, N.Y.

B.Ch. '54, Clarkson College of Technology; M.S. '57, Iowa State University. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: A Study of the Active Site of Enzymes Sulfhydryl. Major Adviser: Prof. I. E. Liener.

Larry Charles Grove, Dawson

B.A. *summa cum laude* '60, M.A. '61, University of Minnesota. Major: Mathematics. Minor: Philosophy. Thesis: Tensor Products of H^* -Algebras. Major Adviser: Prof. B. R. Gelbaum.

Benjamin Leslie Hart III, Excelsior

B.S. with distinction '58, D.V.M. '60, University of Minnesota. Major: Veterinary Anatomy. Minor: Psychology. Thesis: Studies on Spinal Sexual Reflexes in the Male Dog and Their Relation to Sexual Behavior. Major Adviser: Prof. R. L. Kitchell.

Charles Enger Johnson, Lanesboro

B.A. '57, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Exploratory Study of Individual Patterns of Leisure-Time Activities. Major Adviser: Prof. L. H. Lofquist.

Terry Charles Johnson, St. Paul

B.S. '58, Hamline University; M.S. '61, University of Minnesota. Major: Microbiology. Minor: Agricultural Biochemistry. Thesis: Production and Characterization of Interferon Produced by Human Amnion Cells. Major Adviser: Dr. L. C. McLaren.

Betty Goetz Lall, Ithaca, N.Y.

B.A. *magna cum laude* '47, M.A. '49, University of Minnesota. Major: Political Science. Minors: Social Work and Sociology. Thesis: The Foreign Policy Program of the League of Women Voters of the United States: Methods of Influencing Government Action, Effects on Public Opinion and Evaluation of Results. Major Adviser: Prof. C. H. McLaughlin.

Lawrence James Lardy, Sentinel Butte, N.D.

B.S. '57, Dickinson State Teachers College; M.S. '59, University of North Dakota. Major: Mathematics. Minor: Philosophy. Thesis: Tensor Products Involving Semigroup Algebras. Major Adviser: Prof. B. R. Gelbaum.

John Gay Manlove, Portland, Ore.

B.A. '55, Reed College; M.A. '60, De Pauw University. Major: Speech and Theatre Arts. Minor: Music. Thesis: The Dramaturgy of Shakespeare and Verdi: A Study of Form. Major Adviser: Prof. K. L. Graham.

George Donald Marx, Antigo, Wis.

B.S. '58, Wisconsin State College (River Falls); M.S. '60, South Dakota State College. Major: Dairy Husbandry. Minor: Zoology. Thesis: Immunological and Cytological Responses of the Bovidae to Intramammary Infection on Antigens. Major Adviser: Prof. E. F. Graham.

Hawkins Valliant Maulding, Jr., Foreman, Ark.

B.S. in Pharm. '58, University of Arkansas. Major: Pharmaceutical Chemistry. Minor: Organic Chemistry. Thesis: Synthesis of Some Basically Substituted Dioxanes and Dioxolanes. Major Adviser: Prof. Ole Givold.

**Herbert Charles Morton, Bethesda,
Md.**

B.A. *cum laude* '42, M.A. '50, University of Minnesota. Major: Business Administration. Minor: Journalism. Thesis: Government and the Worker: The Impact of Federal Activities on Private Employment Public Contract and Private Wages: Experience Under the Walsh-Healey Act. Major Adviser: Prof. H. G. Heneman, Jr.

Norman Newman, Brooklyn, N.Y.

B.S. '59, Brooklyn College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Preparation and Reactions of Optically Active Sulfoxides. Major Adviser: Prof. R. M. Dodson.

Reuben Magnus Olson, Minneapolis

B.M.E. with high distinction '39, M.S.M.E. '41, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Experimental Studies of Turbulent Flow in a Porous Circular Tube with Uniform Mass Transfer Through the Tube Wall. Major Adviser: Prof. E. R. G. Eckert.

James Burchard Preus, St. Paul

B.S. '53, M.A. '59, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Effect of Four Student Personnel Services on the Academic Performance of Underachieving Arts College Freshmen. Major Adviser: Prof. R. F. Berdie.

**Gadde Syamasundara Rao,
Masulipatam, India**

B.V.Sc. '52, University of Madras (India). Major: Veterinary Anatomy. Minor: Dairy Husbandry. Thesis: An Investigation of Pain Pathways in Sheep. Major Adviser: Prof. R. L. Kitchell.

**Lawrence Emil Rudberg, Warren,
Mich.**

B. of Educ. '34, M.A. '50, University of Minnesota. Major: Business Administration. Minor: Sociology. Thesis: An Analysis and Appraisal of Unfair Sales Acts. Major Adviser: Prof. E. H. Lewis.

**Mary Bell Willis Schneider,
Manhattan, Kan.**

B.A. with high distinction '49, M.A. '52, State University of Iowa. Major: English. Minor: Classics. Thesis: The Classical Poetry of Matthew Arnold. Major Adviser: Prof. G. R. Stange.

Lotte Seidler, Minneapolis

B.A. '51, Gothenburg University (Sweden); M.A. '52, University of Minnesota. Major: International Relations. Thesis: Seven Papers Cover the 1960 United Nations General Assembly: A Study of News Selection, Emphasis, and Treatment. Major Adviser: Prof. R. B. Nixon.

Thomas Frederick Siess, St. Paul

B.A. '57, Valparaiso University. Major: Psychology. Minor: Educational Psychology. Thesis: Personal History Factors and Their Relation to Vocational Preferences. Major Adviser: Prof. L. H. Lofquist.

Robert Alan Stebbins, Minneapolis

B.A. '61, Macalester College; M.A. '62, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: The Jazz Community: The Sociology of a Musical Sub-Culture. Major Adviser: Prof. D. A. Martindale.

**James Travis, Winnipeg, Manitoba,
Canada**

B.Sc. '58, M.Sc. '60, University of Manitoba. Major: Agricultural Biochemistry. Minor: Organic Chemistry. Thesis: Physico-Chemical Studies of Porcine Trypsin. Major Adviser: Prof. I. E. Liener.

Alvah Forrest Troyer, Mankato

B.S. '54, Purdue University; M.S. '56, University of Illinois. Major: Genetics. Minor: Botany. Thesis: The Inheritance of Long First Internode in Corn. Major Adviser: Prof. W. M. Myers.

**Robert White Weik, Morgantown,
W. Va.**

B.S. in Agric. '55, West Virginia University; M.S. '57, University of Minnesota. Major: Dairy Industries. Minor: Agricultural Biochemistry. Thesis: A Study of Cheddar Cheese Hardness and Some Associated Physical Characteristics. Major Adviser: Prof. H. A. Morris.

James William Yackel, Sanborn

B.A. *cum laude* '58, M.A. '60, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: Semi-Markov Processes. Major Adviser: Prof. Steven Orey.

Hoon Yu, Seoul, Korea

Diploma '54, Diploma '57, Seoul National University (Korea); M.A.P.A. '59, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: The Budgetary Process in Korea. Major Adviser: Prof. G. A. Warp.

Edmund Anthony Zottola, Grants
Pass, Ore.

B.S. '54, M.S. '58, Oregon State College.
Major: Dairy Industries. Minor: Agricultural
Biochemistry. Thesis: Thermal Destruction
Studies on Staphylococcus Aureus in Milk
Using Short Time Exposures. Major Adviser:
Prof. J. J. Jezeski.

Doctor of Philosophy in Surgery

Norman Bernard Ackerman, New
York City, N.Y.

B.A. '52, Harvard University; M.D. '56, Uni-
versity of Pennsylvania. Major: Surgery. Minor:
Pathology. Thesis: The Diagnosis of Gastric
Cancer by the Detection of Increased Con-
centrations of Radioactive Phosphorus with In
Vivo Radioautography. Major Adviser: Dr.
O. H. Wangenstein.

Academic Costume

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

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

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

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

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

(In the order of march)

General 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 Medical Sciences	green
Graduate School	black

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

*President's Reception*_____

JULY, 1964

- The members of the graduating class, their families and friends are invited to attend the President's Reception immediately after the commencement exercises. The reception will be held on the terrace of the Coffman Memorial Union. In case of rain the ballroom will be used.
- Those in the receiving line will be President and Mrs. Wilson; Dr. and Mrs. Rand; Mr. George W. Berquist, Vice President, Minnesota Student Association; and Mr. James Rosenbaum, Coffman Union Board of Governors.
- Assisting in the Reception are members of the Union Board of Governors, and members of the following honorary societies: Arrowhead, Chimes, Grey Friars, Innocents, Iron Wedge, Mortar Board, and Silver Spur.
- Refreshments will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.



UNIVERSITY OF MINNESOTA

August Commencement, 1964

THURSDAY EVENING, AUGUST 20, 8:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

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

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Gerald W. Heaney, Duluth

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable 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 thirteenth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen—to name only some of the careers for which we offer preparation. Since its founding, the University has awarded nearly 174,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 35,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

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

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

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

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

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

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

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

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

The summary financial statement of 1962-63 showed that the University's current income amounted to \$105,901,883.19 and the current expenditures, transfers, and adjustments amounted to \$105,901,163.82. Of the total received, \$10,262,589.66 came from student tuition and fees; \$13,751,922.36 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts and the sale of bulletins and agricultural products; \$1,719,876.49 from intercollegiate athletics; \$16,056,223.10 from such services as the dormitories and dining halls, printing, the laundry, the University of Minnesota Press, the Department of Concerts and Lectures, and the Health Service; and \$5,443,465.52 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, scholarships, and the care of the sick. Also \$19,314,903.22 came from the federal government for instruction, research, and agricultural extension. The state provided \$36,257,644.42 or 34.2 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 \$6,184,253.

Commencement marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund and the various Special Project Programs including scholarships, medical and technological research, and college service funds which are administered by the Department of University Relations, 217 Morrill Hall, on the Minneapolis Campus.

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Steve Gentile, Jr., CLA '65, Assistant Carillonneur. Admission to the August Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

ORGAN PRELUDE: From 7:30 to 8:00 p.m., Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Professor Willis E. Dugan, Ph.D., College of Education, Faculty Marshal, will carry the Mace into the Auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Dugan 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 - - - - - Gluck

ON THE STAGE: The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Marshal Dugan; Professor W. Edwin Emery, Ph.D., College of Liberal Arts, Marshal; Assistant to the Recorder Charles F. Liesenfelt, M.S., Admissions and Records; Professor Robert S. Hancock, Ph.D., School of Business Administration; Captain Daniel R. Zenk, U.S.A., Assistant Professor of Military Science; Professor Donald R. Torbert, Ph.D., University College; Dean William J. Lockhart, S.J.D., Law School; Dean Horace T. Morse, Ph.D., General College; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Francis M. Boddy, Ph.D., Graduate School; The Reverend Clyde Steckel, Campus Minister, United Campus Christian Fellowship; The Honorable Bjarne E. Grottum, Regent of the University of Minnesota; Sir Douglas Logan, D.C.L., Principal, University of London; President O. Meredith Wilson, Ph.D., University of Minnesota; Vice President William G. Shepherd, Ph.D., Academic Administration; The Honorable Daniel C. Gainey, Regent of the University of Minnesota; Dean Willard L. Thompson, Ph.D., Summer Session; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Associate Dean Marcia Edwards, Ph.D., College of Education; Dean George P. Hager, Ph.D., College of Pharmacy; Dean Athelstan Spilhaus, D.Sc., Institute of Technology; Dean Robert B. Howard, M.D., College of Medical Sciences; Lt. Colonel James Suttie, U.S.A.F., Professor of Air Science; Professor Roy A. Schuessler, M.M., College of Liberal Arts; Professor Edwin

L. Haislet, Ed.D., Executive Director of the Minnesota Alumni Association; Associate Professor Morris Smithberg, Ph.D., College of Medical Sciences; Professor Milo J. Peterson, Ph.D., College of Education, Marshal; Professor Raymond G. Price, Ed.D., College of Education, Marshal.

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

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

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

INVOCATION: The Reverend Clyde Steckel.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson.

COMMENCEMENT ADDRESS: Sir Douglas Logan, "Education Today and Tomorrow."

CONFERRING OF ROTC CERTIFICATES: Vice President Shepherd will introduce Captain Zenk and Colonel Suttie, who will present the candidates for commissions in their respective services. Certificates of ROTC completion will be presented by President Wilson.

PRESENTATION OF CANDIDATES: Vice President Shepherd will introduce the deans of the several colleges or their representatives who will present to President Wilson the candidates for certificates and degrees. They are, in order of their introduction: Dean Morse for the General College; Dean Ziebarth for the College of Liberal Arts; Professor Torbert for the University College; Dean Spilhaus for the Institute of Technology; Assistant Dean McFarland for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean Edwards for the College of Education; Professor Hancock for the School of Business Administration; Dean Hager for the College of Pharmacy; Dean Lockhart for the Law School; Dean Howard for the College of Medical Sciences; Associate Dean Boddy for the Graduate School.

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

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

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

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

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

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

POSTLUDE: Associate Professor Fleischer, organist.

Chaconne in E Minor - - - - - Buxtehude

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

Candidates for Commissions _____

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Army Intelligence and Security

John A. Boler, Minneapolis

Second Lieutenant, Infantry

Robert W. Kesler, Minneapolis

Second Lieutenant, Signal Corps

Melvin B. Aanerud, Minneapolis

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Michael D. Ahlberg, Minneapolis

Robert G. Priest, Jr., Minneapolis

Candidates for Graduation ---

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

GENERAL COLLEGE

Associate in Arts

Joan Carrie Amundson, Alexandria	Charles Lawrence Kampa, Minneapolis
Gary Luther Boster, Mora	Catherine Mary Leadholm, Minneapolis
Lee Edward Ciampi, St. Paul	Bruce Alan Lindsey, Golden Valley
Peter Allen Crooker, Eau Claire, Wis.	Harvey Henry Mills, White Bear Lake
Paul Lee Crump, Minneapolis	Glen Stuart Peterson, Minneapolis
James Felix Eischen, Sleepy Eye	Richard Francis Scherman, St. Paul
Sherwood Michael Fein, Minneapolis	Richard Robbins Shull, St. Paul
Richard Clay Heer, Minneapolis	Joseph Charles Sifferle, Minneapolis
Ronald Clifford Hustvedt, Minneapolis	Mary Ann Pauline Zylla, St. Nicholas
Rene Oda Jeremiason, Porter	
Richard Leif Johnson, Minneapolis	

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Robert Chilton Amundson, Minneapolis	Timm Neil Norgard, Brainerd
Heike Berkenhoff, Minneapolis	Steven Barry Permuth, St. Paul
Darla Dawn Kruger, St. Paul	Raymond Robert Vierow, St. Paul

Bachelor of Arts

Harvey Alan Abrams, Minneapolis	David James Arnold, Mahtomedi
Michael Donald Ahlberg, Minneapolis	John King Avery, Edina
James Virgil Alexander, Pittsville, Wis.	Helen Lorraine Cole Bakotic, St. Paul
Ellen A. Herda Anderson, Rochester	Marilyn Louise Pratt Bankole, Minneapolis
Leroy Roger Anderson, Hibbing	Ernst Gottfried Becker, A.A., Rochester
James Elliott Archer, Minneapolis	

Josephine Porcher Bell, Minneapolis
 Wilber Guy Bemis, Jr., Minneapolis
 Constance Fraser Bigelow, A.A.,
 White Bear Lake, CUM LAUDE
 James Russell Blackman, Eagle Grove,
 Iowa, CUM LAUDE
 Charles Wilson Boggs, Minneapolis
 William Wallace Bowers III, Minne-
 apolis
 Elaine Marie Callahan, Verndale
 William Hull Chesley, Mankato
 Susan Adair Christie, Minneapolis
 Allan Stuart Cohen, Sioux City, Iowa
 Michael Walter Conway, St. Paul
 Kathleen Joyce Cooper, New Brighton
 Barbara Joyce Craig, Bloomington
 Dianne Mary Crandall, Monticello
 Gerald Richard Cullinan, Wayzata
 Janet Carolyn Dahl, Aberdeen, S.D.
 Robert Arthur Daigle, Minneapolis
 John Julius Dallman, Hutchinson
 Linda Ann Davis, Wayzata
 Joseph Maynard Eastman, St. Paul
 Peggy Jean Eckhardt, A.A., White
 Bear Lake
 Carl Julian Ekberg, St. Paul
 Helen Toivonen Falk, Minneapolis
 Stephen Thomas Fisher, Robbinsdale
 Peter Tryan Foley, Willmar
 Donna Mae Stewart Fredrickson,
 Minneapolis
 David Sanderson George, Robbinsdale
 Brian Edward Golberg, Rochester
 Carol JoAnn Ingle Graf, West
 St. Paul
 Judy Ellyn Guetz, St. Paul
 James Walter Guilfoile, Delano
 Charles Arthur Haislet, Minneapolis
 Anne Elisabeth Hancock, Minneapolis
 Elaine Jean Handelman, St. Paul
 Irvin Lewis Handelman, St. Paul
 Burton Randall Hanson, Benson
 Daniel Peter Harrington, Sioux Falls,
 S.D.
 David Drake Hartung, St. Paul
 Thomas Meskell Hauser, St. Paul
 Orion Donald Hegre, Minneapolis
 Jean Ann Hella, St. Paul

Dianne Elizabeth Hennessy, Minne-
 apolis
 Patricia Ann Maria Herbert, Minne-
 apolis
 Andrea Elizabeth Hinding, St. Paul,
 SUMMA CUM LAUDE
 David Thomas Hoffman, Rochester
 Delores Jane Ingvaldson, Benson,
 MAGNA CUM LAUDE
 Keith William Jacobson, Cambridge
 Janice Louise Johnson, Minneapolis
 Mary Lou Ringhofer Johnson, Owa-
 tonna
 Nancy Ann Jordan, A.A., Austin
 Gale Betty Kaplan, Minneapolis
 Joanne Golden Kaplan, Chicago, Ill.
 Robert Willard Kesler, A.A., Minne-
 apolis
 John Robert Khasenyne, Kenya
 Gordon William Kingston, Minne-
 apolis
 Kathleen Burns Kleven, St. Paul
 Irene Louise Kropp, St. Cloud
 Douglas Luverne Krueger, South St.
 Paul
 Roger Allan Laine, Cloquet
 Roberta Gay Balstad Lange, A.L.A.,
 Minneapolis
 Janet Kay Larson, Hibbing
 Kristin Helen Larson, Minneapolis
 Robert Fred Lehman, Minneapolis
 Charles Roger Litecky, Minneapolis
 Daniel Charles Lobash, Minneapolis
 Michael John MacLean, Rochester
 Rebecca Lou Jones Mayo, Edina
 Roger Elwood McVeety, Minneapo-
 lis*
 Oksana Mensheha, Minneapolis
 Leon Thomas Meuwissen, Chaska
 George Eldon Michaelson, Luverne
 Sandra Jean Thornby Moe, Minne-
 apolis
 John Andrew Mogen, Dodge Center
 Barbara Jean Nave, Minneapolis
 Howard Duraine Nelson, Minneapolis
 George William Nieman, St. Paul
 Allan Paul Olson, Litchfield
 Thomas F. Olson, Roseau

* Degree conferred as of June 13, 1964.

Marston Ronald Opel, St. Paul
 John Hugo Pearson, Minneapolis
 Chloe E. Vigness Polzin, Anoka
 Robert Gaylord Priest, Jr., Minneapolis
 Francis Joseph Pucci, Minneapolis
 Linda Lee Quall, Minneapolis
 Clayton Allen Reed, Austin
 Stanley John Reynolds, White Bear Lake
 Roger Kent Risbrudt, St. Paul
 Kern Gregory Rodeberg, Montevideo
 Linda Olive Ruud, Minneapolis
 John Arthur Ryan, Minneapolis
 Jerald Charles Sadoff, Minneapolis
 Ann Adele Sartell, Faribault
 Mark Stephen Saxton, Lake City
 Gary Owen Schmalzbauer, St. Paul
 Mary Lyn Schwartz, Sleepy Eye
 Perry Bruce Schwartz, Minneapolis
 Stephen M. Simon, St. Louis Park
 Marlene Singer, St. Paul
 Thomas Paul Skoog, Minneapolis
 Kathleen Margaret Slattery, St. Paul
 Suzanne Jenn Smith, Minneapolis
 Mary Carol Snyder, St. Paul
 Barbara Gail Baldwin Sorenson, St. Paul
 John Walter Sorflaten, Minneapolis

Eileen Loretta Spark, Coraopolis, Pa.
 Jill Evan Spector, Minneapolis
 Richard Franklin Staley, Huron, S.D.
 Paul J. Stam, St. Paul
 Gerlinde Sigrun Strehmel, Appleton, Wis.
 Gale Struthers, Minneapolis
 Theodore Carl Strycharz, Minneapolis
 Jan Downs Stuurmans, Minneapolis
 Mary Frances Sutherland, St. Paul
 Sharon Marion Taylor, A.A., Minneapolis
 Caroline Brooks Thompson, Hoyt Lakes
 Sharon Barbara Thompson, A.L.A., Minneapolis
 Kenneth Dalane Torno, St. Paul
 Laurie Jane Tyson, Minneapolis, CUM LAUDE
 Simon William Walker, St. Paul
 Mary Hove Warling, Minneapolis
 Delores Jean Westman, Browns Valley
 L. Anthony Williams, St. Paul
 Peter Michael Wilson, Park Rapids
 Donna Mae Woizeschke, Windom, CUM LAUDE
 Naomi Beth Zabrok, St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Judith Dorayne Calin, Minneapolis
 Thomas Madison Holmes, Minneapolis

Margaret Douglas Kempe, St. Paul
 Karen Elaine Martz, Marshall
 David DeWitt PeKarna, A.A., St. Paul

INSTITUTE OF TECHNOLOGY

Bachelor of Science

Paul Alan Anderson, Edina, WITH DISTINCTION
 William Scott Meyer, Minneapolis, WITH HIGH DISTINCTION

Robert Andrew Tomisak, Minneapolis, WITH DISTINCTION

Bachelor of Chemical Engineering

James William McCarville, Ortonville

Bachelor of Chemistry

James Riley Adams, Minneapolis
Kirk Carl Aune, Winona
Richard Francis, St. Paul

Duane Dennis Hakarine, Virginia
William John Mueller, Winona

Bachelor of Electrical Engineering

James Harry Stewart, Anoka

Bachelor of Mathematics

Jon Lee Conner, Three Forks, Mont.

Bachelor of Mechanical Engineering

John Thomas Appelen, B.Ag.E.,
Porter
William Edgar Clark III, Rochester,
WITH DISTINCTION
Duane Louis Engel, A.A., Hollandale,
WITH DISTINCTION

Bruce Robert Kindseth, Kenyon
Arvie Adrian Lake, Jr., Nashwauk
Andrew Pakalns, Minneapolis
William Petrosewich, Minneapolis

Bachelor of Physics

Robert Allen Buckwald, Minneapolis
David George Gray, Minneapolis

Charles Edward Woods, Minneapolis

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

Bachelor of Science

Nancy Bishop Campbell, St. Louis
Park, Home Economics
Donald Gary Cheeley, Richfield, For-
estry
Georgene Marie Franik, Duluth,
Home Economics
Elizabeth Louise Heen, Minneapolis,
Home Economics

Colleen Margaret Kreidler, Duluth,
Home Economics
Elaine Carol Markison, West St. Paul,
Home Economics
Judith Ann Mitera, Minneapolis,
Home Economics
Beverly Jeanne Potts, Richfield, Home
Economics

Sandra Jean Smith, Minneapolis,
Home Economics
Mary Ann Fobbe Stellmach, Maple
Lake, Home Economics
Dwayne Donald Stiebler, Austin, Agri-
culture

Wayne Luvern Stockland, Lake
Lillian, Agriculture
Carl Dennis Wegner, Minneapolis,
Forestry
Monica Anne Weidenborner, A.A.,
Shooks, Home Economics

COLLEGE OF EDUCATION

Bachelor of Science

Cecily June Abram, Cleveland, Ohio
Ronald Lloyd Allen, B.A., Minne-
apolis
Carol Dennis Arthur, Colville, Wash.
Marcia Halverson Awsumb, St. Paul
Donna Mae Bening, Ceylon*
Michael Jerome Best, Minneapolis,
WITH DISTINCTION
Susan Adele Birnberg, St. Paul
David Harold Boettcher, Farmington
Floyd Paul Bohn, Robbinsdale
*Angela Michelle Borowicz, Minneapo-
lis,* WITH HIGH DISTINCTION
Kathleen Joyce Cooper, New Brighton
David Robert Dryg, Richfield
Janet Margaret Russell Duncan, Blue
Earth
Ernest Harvey Ecklund, A.A., Deer-
wood
Perry Fred Finck, A.A., St. Paul
Robert Rose Goodrich, Pine City
Kenneth Roman Heitz, St. Bonifacius
Lucille Anderson Helseth, Richfield
Sharen DuFresne Hilliard, Richfield
James Henry Hoiby, B.A., Robbins-
dale
Julie Ann Holmes, Minneapolis
Marianne Holtz, Trimont
Marilee June Jackson, St. Paul
Jacklyn Flett Johnson, Cloquet
Marilyn Ann Johnson, Benson
*Marlys Joanne Nelson Johnson, Sav-
age,* WITH DISTINCTION
Mary Jane Johnson, St. Paul, WITH
DISTINCTION

Roger Elliot Johnson, Minneapolis
David Gordon Jones, Minneapolis
Valerie Litchke Jorgens, Minneapolis
Noreen Cecilia Kell, St. Paul
Margaret Aberle Krech, Minneapolis
Patricia Kurimay, Minneapolis, WITH
DISTINCTION*
Carolyn Mae Laroche, St. Paul
Marian Lee Larson, Minneapolis
Ruth Lorraine Larson, Minneapolis
Mary Topka Lathrop, Hopkins
Fay Gertrude Marcus, Renville
Robert Joseph Mertz, B.A., St. Paul
Linda Enid Miller, Minneapolis
Bernice Taylor Morehead, Forest Lake
Charles Daniel Morrow, Faribault
Donald Ralph Mulvihill, St. Paul
John Richard Nelson, B.A., Clinton
Irma Swanson Oberg, Bloomington
Susan Grannis O'Brien, South St. Paul
Carolyn Edna Marie Olsen, Minne-
apolis
June Ingrid Olson, Minneapolis
Marie Ellen Ortendahl, Minneapolis
Maia Pank, Minneapolis
Sandra Lee Perrin, Minneapolis
Barbara Ann Person, Minneapolis
Joan Marie Peterson, Negaunee, Mich.
Marlene June Peterson, Richfield,
WITH DISTINCTION
Mildred Ann Peterson, Clear Lake
Sandra Louise Peterson, Minneapolis
Rebecca Ann Stanfield Powers, St.
Paul
Patricia Marilyn Reagan, Hopkins

* Nursing Education Curriculum.

Corinne Quast Retzlaff, Minneapolis,
WITH HIGH DISTINCTION
Karen Rushing, B.A., Edina
Leon L. C. Sanders, Clay Center, Kan.
Anne McEvoy Schmid, St. Paul
Frances H. Schommer, Jordan
Joyce Blanche Schottler, Austin
Mary Genevieve Stack, B.A., St. Paul
Shirley Smith Stanley, Findlay, Ohio,
WITH DISTINCTION

Wayne William Steffenhagen, Lake City
Noreen Ruth Heyneker Teachout, Minneapolis
Helmut Tetzlaff, Minneapolis
David Stanley Tomlinson, Minneapolis
Robert John Unze, St. Paul
Peter Curtis Vollmers, Red Wing
Larry Dean Yore, Delavan

Master of Education

Paul Richard Barrington, B.S., St. Paul
Judith Loomer Boman, B.S.N., Minneapolis
Maline Balian Broburg, B.S., St. Paul
John Winfield Graber, B.A., Minneapolis
Marion Grant Griebenow, Jr., B.A., B.S., St. Paul
Marian Gladyce Holmgren, B.S., Pennock
Phyllis Katherine Hullett, B.S., Minneapolis
Sharol Faye Jacobson, B.S.N., Hopkins
Margie May Janssen, B.A., M.S., Manson, Iowa
Beverly McElmurry LaBelle, B.S., Zion, Ill.

Ralph John Larson, B.S., Minneapolis
Marguerite Louise Muggli, B.A., Roscoe
Lois Florence Nelson, B.S.N., St. Paul
Sylvia Eleanora Nissila, B.S., St. Paul
Karen Jean Nyholm, B.S., Racine, Wis.
Rose Maureen Omodt, B.S., St. Peter
Margaret Pauline Parren, B.S., Minneapolis
Eleanore Elizabeth Pearson, B.S., Maxwell, Calif.
Sister M. Bonaventure Hoffman, B.S., Aberdeen, S.D.
Sister Mary Laetitia Slater, B.S., Rochester
Anne Colletta Verderber, B.S.N., Cleveland, Ohio

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

Bachelor of Science

Ann Seefeldt McChesney, B.S., St. Paul, Home Economics Education

Luann Vinkemeier Peterson, Watertown, Home Economics Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Raymond Donald Anderson, A.A.,
Minneapolis
Geoffrey Willard Cauffman, Minne-
apolis
Thomas Christoffel, Jr., St. Paul
John Raymond Dahl, Minneapolis
James Richard Foote, Stewartville
Roger Edwin Forberg, Edina
Gerald Henry Haider, West St. Paul,

WITH HIGH DISTINCTION

James Nicholas Hemann, Minneapolis
James Philip Henninger, Minneapolis
Gerald Evans Heron, St. Paul
Richard Thomas Ince, Minneapolis
Roy Clifford Jones, Northfield
David Alfred Kelm, St. Paul
Albert Yen Sin Koh, Singapore

David Bruce Kollitz, Thief River Falls
Myron Charles Martin, Anoka
Thomas Lee Olchefske, New Brighton
James Roger Peterson, Albert Lea
Leroy Wendell Peterson, St. Paul
Paul Richard Purtell, B.A., St. Paul
Richard Allen Ryberg, St. Paul
Richard Leslie Sjowall, Minneapolis
David Theodore Stall, Minnetonka
Martin V. Stoesser, St. Paul
Joseph Lewis Stoops, Morenci, Mich.
Warren Walter Teigen, St. Cloud,
WITH DISTINCTION
Terrance Raymond Teitscheid, St.
Paul
Ronald Gilbert Wenzel, St. Paul
Thomas William Zosel, Wadena

Bachelor of Science in Economics

John Miller Christensen, St. Louis
Park

Gerald Walter Quill, Redwood Falls
James Franklin Rollins, Albert Lea

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

Bachelor of Agricultural Business Administration

Clayton Albert Parker, Long Prairie

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Gary Carl Perala, Owatonna

LAW SCHOOL

Bachelor of Laws

Charles Patrick Carroll, B.A., Minneapolis

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Mary Joyce Austin, St. Paul, Medical
Technology*

Nancy Galloway Hale, St. Paul, Medi-
cal Technology*

June Elizabeth Swanson, Minneapolis,
Occupational Therapy

Master of Nursing Administration

Lorena Chesnut Argo, B.S., Minne-
apolis

Thelma V. Hemmes, B.S., Humboldt

Kathryn Jean Howland, B.S., St. Paul

Ruth Marie Lunde, B.A., Minneapolis

Minna Emma Moehring, B.S., St.

Paul

Sister Lawrence Marie Freeberg, B.S.,
Chicago, Ill.

Sister Marie Camille Heinz, B.S.,
Minneapolis

Sister Mary Roger Andert, B.S.N.A.,
R.N., St. Joseph

Sister Mary Richaea Campion,
Rochester

Master of Public Health

Therese Anne Mathes, B.S.N., Mar-
tinsville, Va.

Naomi Leona Quinnell, B.S., North-
field

Ruby Elnora Shoemaker, B.S.N.,
Vienna, Ill.

DeLanne Adele Simmons, B.S., Deni-
son, Iowa

Joyce O. Stickney, B.S., East Thet-
ford, Vt.

Juan Miguel Zeberio, B.S., Caracas,
Venezuela

* These degrees are conferred subject to the completion of practical work prior to December 19, 1964.

GRADUATE SCHOOL

Master of Arts

Mary Ann Ackermann, St. Paul

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

Dennis Lyle Anderson, Duluth

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

Robert Augustus Atwood, Oconomowoc, Wis.

B.S. in Educ. '57, Concordia Teachers College. Field of Concentration: Curriculum and Instruction.

Nagat Ahmad Awad, Helowan, Egypt

B.A. '53, Cairo University; Diploma '54, Diploma '60, Ain Shams University (India). Field of Concentration: Curriculum and Instruction.

Thomas David Bacig, St. Paul

B.A. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Steven Latimer Bates, Columbus, Ohio

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

Robert William Beery, Minneapolis

B.S. with high distinction '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Mervyn Owen Bergman, Cook

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

Dean Gilbert Berntsen, Minneapolis

B.S. with distinction '60, University of Minnesota. Field of Concentration: Industrial Education.

William Frederick Bicanich, Chisholm

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

David Allen Bilderback, Gilmanton, Wis.

B.S. '56, Wisconsin State College (Eau Claire). Field of Concentration: Educational Administration.

Robert Blanchard, Minneapolis

B.A. magna cum laude '59, Northwestern College. Field of Concentration: English.

Judith Holcomb Bogard, Minneapolis

B.A. magna cum laude '61, Miami University. Field of Concentration: Curriculum and Instruction.

Richard Sherman Bragaw, Birmingham, Mich.

B.A. cum laude '62, Dartmouth College. Field of Concentration: English.

Robert H. Brookshire, Lake Preston, S.D.

B.A. '61, Huron College. Major: Speech Pathology. Minor: Psychology. Thesis: The Effect of Electric Shock Punishment Upon the Frequency of Stuttering Behaviors in an Extended Series of Trials.

Denis Marshall Brown, Minneapolis

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

Bruce Bailey Burnes, New Brighton

B.S. '60, Macalester College. Field of Concentration: Curriculum and Instruction.

Rosalyn Mary Carroll, Minneapolis

B.A. '60, College of St. Catherine. Field of Concentration: French.

Weiching Chang, Hsinchu, Formosa

B.A. '60, National Taiwan University (China). Major: Philosophy. Minor: Psychology. Thesis: 'Meaning.'

Cheng-Khee Chee, Penang, Malaysia

Diploma '60, Nanyang University (China). Field of Concentration: Library Science.

Roger Frank Claesgens, St. Paul

B.S. '59, St. John's University. Field of Concentration: Music.

James William Conaway, St. Louis, Ill.

B.S. '62, Washington University. Field of Concentration: Educational Psychology.

John Burrell Cook, Des Moines, Iowa
B.S. '61, University of Minnesota. Field of
Concentration: Education.

Carlos Jose Cruz-Betancourt, New
York, N.Y.

B.A. with honors '62, University of Puerto
Rico. Field of Concentration: Psychology.

Marit Dahl, Oslo, Norway

University of Oslo (Norway). Field of Con-
centration: Educational Psychology.

Burton Norman Danet, Jerusalem,
Israel

B.A. '60, Yale University. Major: Psychology.
Minor: Psychiatry. Thesis: Prediction of Men-
tal Illness on the Basis of "Non-Psychiatric"
MMPI Profiles.

Carlyle Conrad Dewey, Minneapolis

B.A. '62, University of Minnesota. Field of
Concentration: Political Science.

Donald Glen Dittus, Western Springs,
Ill.

B.S. '56, Iowa State University. Field of Con-
centration: Educational Psychology.

Julia Coley Duncan, Alexander City,
Ala.

B.A. '62, Agnes Scott College. Field of Con-
centration: Child Psychology.

Gary Lee Dziuk, Cloquet

B.S. with honors '59, St. Cloud State College.
Field of Concentration: Education.

Catherine Delia Eagen, Minneapolis

B.S. '58, Winona State College. Field of Con-
centration: Curriculum and Instruction.

Vernon Erick Eilola, Two Harbors

B.S. *cum laude* '58, University of Minnesota.
Field of Concentration: Curriculum and In-
struction.

Alan Birger Eke, Mankato

B.S. with distinction '58, Stout State College.
Field of Concentration: Industrial Education.

Susan Jean Everson, St. Paul

B.A. *summa cum laude* '61, St. Olaf College.
Field of Concentration: English.

Dennis James Fallon, Redfield, S.D.

B.S. '62, Bemidji State College. Field of Con-
centration: Physical Education.

Judith Eiken Farley, Wilmington,
Del.

B.S. '60, University of Minnesota. Field of
Concentration: Curriculum and Instruction.

Florence May Felknor, Minneapolis

B.S. '48, University of Louisville. Field of
Concentration: Educational Psychology.

Chester Jerome Flack, Elbow Lake

B.A. '58, Concordia College. Field of Con-
centration: Educational Administration.

Larry Allyn Foley, Kelliher

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

William Joseph Francis, Hurley, Wis.

B.S. '50, University of Wisconsin. Field of
Concentration: Education.

Robert Stewart Fredrickson, Minne-
apolis

B.A. '61, DePauw University. Field of Con-
centration: English.

Warren Charles Galbus, Mineola,
N.Y.

B.S. *cum laude* '59, C. W. Post College. Field
of Concentration: Educational Administration.

Clifford Ainsley Gilbertson, Barnes-
ville

B.S. '55, Moorhead State College. Field of
Concentration: Curriculum and Instruction.

Ruth Jeanette Gillis, Minneapolis

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

Donald George Grimstad, Minnetonka

B.S. '55, Mankato State College. Field of Con-
centration: Educational Administration.

William Robert Hachey, Coleraine

B.S. '56, Bemidji State College. Field of Con-
centration: Curriculum and Instruction.

Stephen Peter Hall, Crystal

B.A. '62, Carleton College. Field of Concen-
tration: English.

Gerald Allen Hansen, Minneapolis

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

Elizabeth Louise Harris, River Falls,
Wis.

B.Ed. '36, University of Wisconsin (Milwaukee). Field of Concentration: Art Education.

John Edward Haugo, Park Rapids

B.S. '57, Moorhead State College. Field of Concentration: Educational Administration.

David Alan Hecker, Minot, N.D.

B.S. '61, Minot State Teachers College. Field of Concentration: Educational Administration.

Clarence Julius Heine, Bismarck, N.D.

B.S. '56, University of Minnesota. Major: Speech and Theatre Arts. Minor: English. Thesis: A Study of the Evaluation of Speakers by High School Students Before and After Speech Training.

Paul Francis Heyerdahl, Orfordville,
Wis.

B.Mus.Ed. '57, Milton College. Field of Concentration: Music Education.

Everett Nicholas Hickman, Renton,
Wash.

B.S. '54, Hamline University; B.S. '59, University of Minnesota. Field of Concentration: Education.

Supreecha Hirunro, Bangkok, Thailand

B.Arch. '59, Chulalongkorn University (Thailand). Field of Concentration: Industrial Education.

Andrew John Hoiland, Bloomington

B.A. '55, B.S. '59, University of Minnesota. Field of Concentration: Industrial Education.

Walter John Houk, Minneapolis

B.S.B. '62, University of Minnesota. Field of Concentration: Industrial Relations.

Lillian Moen Howe, Minneapolis

B.S. '32, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Marcia Jean Humphrey, Salem, Ore.

B.A. *cum laude* '61, Willamette University. Field of Concentration: Psychology.

Charles Marshall Jahn, Circle Pines

B.S. '58, St. Cloud State College. Field of Concentration: Industrial Education.

Helen Christofferson Johnson, Hibbing

B.S. '61, Bemidji State College. Field of Concentration: Curriculum and Instruction.

Leighland Ellsworth Johnson, Minneapolis

B.A. '47, State University of Iowa. Field of Concentration: Educational Psychology.

Neoma Jean Johnson, Minneapolis

B.S. in Educ. '57, Drake University. Field of Concentration: Curriculum and Instruction.

Eleanore Sharon Jones, Holdrege,
Neb.

B.S. '61, Ottawa University. Field of Concentration: Mathematics.

John Gordon Stuart Kaberry, New
Westminster, British Columbia,
Canada

Diploma '58, University of Durham (England). Field of Concentration: Geography.

Deane L. Kapanen, Virginia

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

Daniel Carl Kieselhorst, Minneapolis

B.A. '60, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: The Political Ideology of Segregation.

Richard Paul Klassen, St. Paul

B.S. with honors '53, Mankato State College. Field of Concentration: Physical Education.

Robert Edward Knudson, Braham

B.S. with honors '60, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

Richard Lowell Knutson, Minneapolis

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

Robert George Kraft, Fargo, N.D.

B.A. *cum laude* '61, St. John's University. Field of Concentration: English.

Jesse Kay Lair, St. Paul

B.A. '48, University of Minnesota. Major: Journalism. Minor: Educational Psychology. Thesis: Minneapolis 1962 Newspaper Strike: Some Economics and Advertising Effects.

Shirley Grace Larson, Minneapolis

B.S. '57, Wheaton College. Field of Concentration: Home Economics Education.

Gordon Thomas LeBoutillier, LeCenter

B.S. in Educ. '51, General Beadle State Teachers College. Field of Concentration: Educational Administration.

Judy Lindquist Lewandowski, Menasha, Wis.

B.Mus. magna cum laude '63, Lawrence College. Field of Concentration: Music.

Matilda Ann Longabaugh, St. Louis Park

B.S. with distinction '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Per Otto Loseth, Chicago, Ill.

B.A. '62, Trinity College. Major: Philosophy. Minor: Humanities. Thesis: Don Juan, Faust, and the Wandering Jew: A Study of Søren Kierkegaard's Aesthetic Personality Types.

Charles Henry Luedtke, Minneapolis

B.S. with distinction '63, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Donna Jane Maas, Minneapolis

B.S. in Educ. '55, Valparaiso University. Field of Concentration: Curriculum and Instruction.

Gerald Roger Martinson, Pine City

B.A. '58, Hamline University. Field of Concentration: Educational Administration.

Mary Kenevan McConnon, Winona

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

William James McKenzie, Virginia

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

Edna Lindstrom McLarty, Mora

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

Margaret Ann McQueen, Winona

B.S.Elem.Ed. '56, Macalester College. Field of Concentration: Curriculum and Instruction.

Jayne Hall Mitchell, Bismarck, N.D.

B.S. '56, Dickinson State College. Field of Concentration: English.

Calvin David Mortensen, Minneapolis

B.A. '62, Bethel College. Major: Speech and Theatre Arts. Minor: Journalism. Thesis: A Content Analysis of Leadership Communication in Small, Task-Oriented Discussion Groups.

Raymond Robert Muskat, Duluth

B.A. '51, St. John's University. Field of Concentration: Curriculum and Instruction.

Bernard Carl Nelsen, Wadena

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

Camilla Anita Nelson, Clinton

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

Jerold Arthur Nelson, Minneapolis

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

Bob Newcomb, Rowena, S.D.

B.A. '57, Augustana College. Field of Concentration: Educational Psychology.

Nancy Carolyn Newman, Kalamazoo, Mich.

B.A. with high honors '63, Ohio Wesleyan University. Major: Sociology. Minor: Psychology. Thesis: Institutionalization, Interaction, and Self-Conception in Aging.

Lois Arline Nichols, Saco, Me.

B.A. with high distinction '60, University of Maine. Field of Concentration: Child Psychology.

Lila Martha Niemi, Aurora

B.S. with distinction '54, University of Minnesota. Field of Concentration: Library Science.

Verna Salmela Norha, Duluth

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

Mitchell Okun, Brooklyn, N.Y.

B.A. '61, Brooklyn College. Field of Concentration: English.

Nicholas Andrew Olsen, Roseville

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

Elizabeth Ann Oman, Chisholm

B.A. '62, Carleton College. Field of Concentration: Music.

Robert Cyril Panian, Duluth

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

Edward James Payne, Minneapolis

B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Robert Sidharthan Perinbanayagam, Manipay, Ceylon

B.A. '59, University of Ceylon. Major: Sociology. Minor: Anthropology. Thesis: Caste, Community, and Personality.

Paul Rudolph Peterson, Great Falls, Mont.

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

Owen Lynn Plauda, White Bear Lake

B.S. '56, University of Minnesota. Field of Concentration: Art Education.

Janice Elaine Podany, Minneapolis

B.S. '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Joseph Rajbansee, Manzanilla, Trinidad, West Indies

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

Laverne Gregor Ramler, Richmond

B.S. '60, St. Cloud State College. Field of Concentration: Educational Administration.

Mary Elizabeth Reinecke, Miami Shores, Fla.

B.A. '62, DePauw University. Major: Child Psychology. Minor: Psychology. Thesis: Peers and Adults as Reinforcing Agents Under Two Incentive Conditions.

Mary Ladner Riley, St. Paul

B.A. '49, College of St. Catherine. Field of Concentration: Art Education.

Charles Walter Roepke, Circle Pines

B.S. '55, St. Cloud State College. Field of Concentration: Industrial Education.

Jane Carolyn Rohrer, Madison Lake

B.S. with high distinction '62, University of Minnesota. Field of Concentration: English.

Janice Ann Root, Hutchinson

B.S. '60, Mankato State College. Field of Concentration: Curriculum and Instruction.

John A. Sanchez, Minneapolis

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

Lyle Fredric Santelman, Bloomington

B.A. '51, St. Olaf College. Field of Concentration: Curriculum and Instruction.

William Robert Scarborough, Parkers Prairie

B.A. '49, Augsburg College. Field of Concentration: Educational Administration.

Myrtle Grendahl Schumann, Long Lake

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

Donald Peter Schwab, Minneapolis

B.B.A. with high distinction '60, University of Minnesota. Field of Concentration: Industrial Relations.

William Shragg, Golden Valley

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

Selmer Norman Simonson, Wayzata

B.A. '58, Concordia College. Field of Concentration: Educational Psychology.

Sister Mary John Bosco Houle, DuBuque, Iowa

B.A. '59, Mundelein College. Field of Concentration: English.

Yum Tong Siu, Hong Kong, China

B.A.(Hons.) '63, University of Hong Kong (China). Major: Mathematics. Minor: Physics. Thesis: Composition of Quadratic Forms over Fields of Characteristic not Equal to Two*.

Everett Leroy Smith, Jr., Minneapolis

B.S. '62, University of Minnesota. Field of Concentration: Physical Education.

Beata Claire Sowka, Stevens Point, Wis.

B.S. '62, Wisconsin State College (Stevens Point). Field of Concentration: Speech and Theatre Arts.

David Charles Stark, Virginia

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

Charles William Stelling, St. Paul

B.S. in Educ. '59, Concordia Teachers College. Field of Concentration: Library Science.

Peter Allison Stitt, Minneapolis

B.A. '62, University of Minnesota. Field of Concentration: English.

Jean Schacht Stromberg, Minneapolis

B.A. with honors '60, Wheaton College. Field of Concentration: English.

Jean Anne Strothman, Minneapolis

B.A. '63, Wells College. Field of Concentration: Library Science.

Barbara Anderson Subak, Richfield

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

Arnold William Sunnarborg, Proctor

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

Lyle Kenneth Swanson, St. Paul

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

Conchita Abella Tan, Rizal, Philippines

B.S.E.Ed. *magna cum laude* '57, Philippine Normal College; M.A. '61, Philippine Women's University. Field of Concentration: Educational Psychology.

Janet Kennedy Thomas, Minneapolis

B.S. '60, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Robert Philip Thorpe, Minneapolis

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

Susan Tiktin, New York, N.Y.

B.A. *cum laude* '62, Barnard College. Major: Child Psychology. Minor: Psychology. Thesis: Sociometric Status as Related to the Reinforcing Effectiveness of Peers.

Joel George Tormoen, Bethel, Kan.

B.S. in Educ. '58, University of Kansas. Field of Concentration: Education.

Vera Hope Bakken Townsend, St. Paul

B.S. '39, University of Minnesota. Field of Concentration: Music Education.

Joa-Mai Treude, Minneapolis

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

Richard Phillip Ugland, Minneapolis

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

Edward Charles Votruba, Rice Lake, Wis.

B.A. '61, St. John's University. Field of Concentration: Industrial Relations.

Richard Carl Wallin, Duluth

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

Donald Theodore Warn, Superior, Wis.

B.S. '56, Wisconsin State College (Superior). Field of Concentration: Educational Psychology.

Dean David Weber, Minneapolis

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

Francis Henry Wettstein, Aitkin

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

John Harvis Williams, Prentiss, Miss.

B.S. '53, Jackson State College. Field of Concentration: Educational Administration.

Claudia Macdonald Woker, St. Paul

B.Sc.H.Ec. '57, University of Manitoba. Field of Concentration: Home Economics.

Master of Business Administration

Lawrence Eugene Micheline, Detroit, Mich.

B.S.E.(M.E.) '58, University of Michigan. Field of Concentration: Business Administration.

Gerhard W. R. Puerckhauer, Maplewood

Regensburg College (Germany); Ph.D. '56, Purdue University. Field of Concentration: Business Administration.

Master of Science

In Chun Chang, Seoul, Korea

B.S. '60, Yonsei University (Korea). Field of Concentration: Organic Chemistry.

Connie Clark, St. Paul

B.A. '55, Iowa State Teachers College; M.A. '58, Colorado State College. Major: Microbiology. Minor: Agricultural Biochemistry. Thesis: Growth of *Nitrosomonas Europaeae* in Pure and Mixed Culture.

Roland Eugene Curtis, Hopkins

B.S. '62, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Kilocycle Range Frequency Dependence of Anelasticity in NaCl.

Florine Ann Eicher, Seymour, Ind.

B.S.H.E. with distinction '61, Purdue University. Major: Home Economics. Minor: Sociology. Thesis: Changes in Chromaticity of Certain Twist Carpetings Resulting from Use and Cleaning.

Robert Eugene Evenson, Minnesota Lake

B.A.B.A. with high distinction '61, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Changes in the Minnesota Grain Processing and Terminal Elevator Industries.

Joan Ruth Foreman, York, Neb.

B.S. in Nurs. '61, University of Omaha. Field of Concentration: Public Health.

James Donald Froyd, St. Paul

B.S. '61, Denison University. Major: Plant Pathology. Minor: Entomology. Thesis: Studies of the Biology of Hypoxylon Canker of Aspen.

Patricia Miller Gullede, Houston, Tex.

B.S. in Nurs. '57, University of Kansas. Field of Concentration: Public Health.

Larry Alfred Haas, Minneapolis

B.A. '57, University of South Dakota. Field of Concentration: Inorganic Chemistry.

John Henry Herath, Portland, Ore.

B.S.(Pharm.) '54, University of Colorado. Field of Concentration: Pharmaceutical Technology.

Katherine Hopkins Holmberg, Mankato

B.S.H.E. '30, Iowa State University. Major: Home Economics. Minor: Social Work. Thesis: The Relationship of Parental Power and Support to Family Power Structure, Child-Rearing Practices, and Adolescent Personality.

John Arnold Johnson, Minneapolis

B.A. '51, University of Minnesota. Major: Organic Chemistry. Minor: Physiological Chemistry. Thesis: Biosynthesis of the Colchicum Alkaloids.

Sally Elizabeth Jorgensen, Minneapolis

B.A. with honors '59, Wellesley College. Major: Physiological Chemistry. Minor: Microbiology. Thesis: A New Deoxyribonuclease from *Escherichia Coli*.

William Herschel Kaufman, Minneapolis

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

Virginia Morgan Lang, St. Paul

B.S. '62, University of Minnesota. Major: Home Economics. Minor: Physiological Chemistry. Thesis: Observations on Manganese Balance in College Men.

Perry Bert Lonnes, St. Paul

B.S. with distinction '63, University of Minnesota. Field of Concentration: Public Health.

Rafael Lopez, Manizales, Colombia, South America

Diploma '60, University of Caldas (Colombia). Major: Plant Pathology. Minor: Genetics. Thesis: Pathogenicity and Phenotypic Variability Within Race 38 and Related Races of *Puccinia Graminis* F. Sp. Tritici.

Barbara Jannach Lyon, Minneapolis

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

Isabel Therese McGarry, New Haven, Conn.

B.S.P.H.N. '57, University of Michigan. Field of Concentration: Public Health.

Karl Henrik Mikkelsen, Vollebakk, Norway

Agricultural College of Norway. Field of Concentration: Genetics.

Joseph George Moosally, Damascus,
Syria

Diploma '60, University of Damascus (Syria).
Field of Concentration: Business Administration.

Carol Monica Russell, Minot, N.D.

B.S. '58, College of St. Catherine. Field of
Concentration: Public Health.

James William Schmoker, St. Paul

B.Phys. with high distinction '62, University
of Minnesota. Major: Physics. Minor: Mathe-
matics. Thesis: Low Energy Electron Flux in
the Cosmic Radiation.

Gerald Frederick Schnepf, Rock
Rapids, Iowa

B.S. in For. '62, Iowa State University. Field
of Concentration: Forestry.

Robert Earl Shoemaker, Highland,
Ind.

B.A. '61, Carleton College. Major: Botany.
Minor: Geology. Thesis: Fossil Leaves of the
Hell Creek and Tullock Formations of Eastern
Montana.

Richard Edwin Siefert, Minneapolis

B.S. with distinction '62, University of Min-
nesota. Major: Fisheries and Wildlife. Minor:
Statistics. Thesis: The Early Life History of
the White Crappie (*Pomoxis Annularis Ra-
finisque*) in Lewis and Clark Lake, South
Dakota.

Margaret Hamilton Smithberg, St.
Paul

B.S. '48, Douglass College. Major: Horticul-
ture. Minor: Botany. Thesis: Patterns of Vari-
ation Among Certain Climactic Races of Red-
Osier Dogwood.

Jesusa Villanos Valdez, Quezon City,
Philippines

B.S. cum laude '61, University of the Philip-
pines. Major: Physics. Minor: Mathematics.
Thesis: The Variation of the Primary Cosmic
Ray Alpha Component During the Forbush
Decrease of July 16, 1959.

Master of Science in Aeronautical Engineering

Richard Owen Strom, Plymouth

B.S. '62, University of Minnesota. Major:
Aeronautical Engineering. Minor: Mechanical
Engineering. Thesis: An Experimental Investi-
gation of the Starting Mechanism of Vortex
Street Formation Behind a Circular Cylinder.

Master of Science in Anesthesiology

Maurice Simeon Albin, Cleveland,
Ohio

B.A. '52, New York University; M.D. '58,
University of Mexico. Major: Anesthesiology.
Minor: Physiology. Thesis: Selective Cooling
of the Spinal Cord Utilizing Subarachnoid
Perfusion.

Master of Science in Chemical Engineering

Yung-Hua Chen, Kaohsiung, Taiwan,
China

B.S.Ch.E. '58, National Taiwan University
(China). Major: Chemical Engineering.
Minor: Mechanical Engineering. Thesis: Con-
traction Coefficient Studies.

Master of Science in Civil Engineering

Mohamad Younus Bhatti, Pakistan

B.Sc. in Eng. '58, University of the Punjab (India). Field of Concentration: Civil Engineering.

Danforth Gordon Bodien, Minneapolis

B.S. with distinction '63, University of Minnesota. Field of Concentration: Civil Engineering.

Joong Choon Lee, Seoul, Korea

B. of Arch. '62, Oklahoma State University. Field of Concentration: Civil Engineering.

Cam-Nang Ly, Saigon, Viet-Nam

B.S. in Agric. '61, National Taiwan University (China). Field of Concentration: Civil Engineering.

James Vincent Waskiewicz, Rockford, Ill.

B.S.C.E. '60, Iowa State University. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Robert Alfred Brolling, Moorhead

B.S. '55, D.D.S. '55, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Anatomy and Physiology of the Cranio-mandibular Articulation as a Basis for Functional Restorative Therapy.

Ronald Erving LaBelle, Duluth

B.S. '56, D.D.S. '58, University of Minnesota. Major: Dentistry. Minors: Anatomy and Pathology. Thesis: The Effect of Cortisone and Induced Local Factors on the Periodontal Structures of the Albino Rat.

Master of Science in Electrical Engineering

David Peter Gregorich, Eveleth

B.S. with distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Transistors with Both Junctions Forward Biased.

Leonard George Rosner, Cleveland

B.S. with distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Evaporated Thin Film Hard Superconductors.

Richard Alan Pedersen, Farmington

B.S. with high distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Search for Electron Emission from a Sharply Bent Superconductor.

William Bruce Shepherd, Minneapolis

B.Eng.Phys. '62, Cornell University. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Effect of Sodium Overlayers on the Work Function of Pyrolytic Graphite.

Gerald Edward Riach, Osseo

B.S. with high distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Low Energy Electron Diffraction Study of the (110) Face of a Cadmium Fluoride Single Crystal.

Master of Science in Mechanical Engineering

John Raymond Zimmerschied, St. Louis Park

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

Master of Science in Medicine

Roger Sherman Colton, Tonawanda,
N.Y.

B.A. '54, Middlebury College; M.D. '58, University of Vermont. Major: Medicine. Minor: Physiology. Thesis: Comparison of Renal Urate Clearances and Ratios in Gouty, Chronic Hyperuricemia, and Nongouty Individuals.

Henry Buchen Head, Chicago, Ill.

B.A. '55, Amherst College; M.D. '59, Northwestern University. Major: Medicine. Minor: Pathology. Thesis: Gastric Cytology: A Review of the Literature and an Analysis of the Results Obtained in 410 Cases.

Richard David Wagoner, Rochester

B.A. '52, Carleton College; M.D. '56, Cornell University. Major: Medicine. Minor: Physiology. Thesis: Evaluation of a Single Injection Isotope Technique for the Measurement of Effective Renal Plasma Flow.

Master of Science in Ophthalmology

Rolando Legaspi Udasco, Cavite City,
Philippines

M.D. '54, University of Santo Tomas (Philippines). Major: Ophthalmology. Minor: Anatomy. Thesis: Quantitation of the Retinal Vessels of Patients with Hypertension.

Master of Science in Psychiatry

Bruce Harold Hiller, Minneapolis

B.A. '57, B.S. '60, M.D. '60, University of Minnesota. Major: Psychiatry. Minor: Psychology. Thesis: A Comparison of Psychiatric Evaluations Based on a Psychiatric Interview.

Loran Fred Pilling, Rochester

B.Sc. '52, M.D. '56, University of Alberta. Major: Psychiatry. Minor: Basic Neurologic Sciences. Thesis: Study of Pain in Patients Referred for Psychiatric Consultation.

Master of Social Work

Franz X. Kamps, St. Paul

University of Munich (Germany). Field of Concentration: Social Work.

Certificate of Specialist in Education

Milton Walter Jahn, St. Paul

B.A. '41, Macalester College; M.A. '49, University of Minnesota. Field of Concentration: Educational Administration.

Doctor of Philosophy

Sara Armstrong Allen, Downers Grove, Ill.

B.A. *cum laude* '54, Knox College; M.A. '63, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Children's Performance as a Function of Task Difficulty and Verbal Reinforcement. Major Adviser: Prof. H. W. Stevenson.

Ronald Clement Althouse, Moorhead

B.A. '60, Pennsylvania State University; M.A. '61, University of Minnesota. Major: Sociology. Minor: History. Thesis: The Intellectual Career of F. Stuart Chapin: An Examination of the Development and Contribution of a Pluralistic Behaviorist. Major Adviser: Prof. D. A. Martindale.

Anker Valdemar Andersen, Minneapolis

B.B.A. with distinction '55; M.B.A. '57, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: Relevant Accounting Data for the Investor in Listed Common Stocks. Major Adviser: Prof. R. G. Berryman.

Robert Arnold Anderson, St. Paul

B.S. '52, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: Mathematical Student Achievement of Third Form (Ninth Grade) Students in London and St. Paul-Minneapolis Metropolitan Areas. Major Advisers: Profs. R. H. Beck and R. J. Keller.

Donald Bruce Armstrong, Minneapolis

B.S. with distinction '59, M.S.E.E. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Charge Carrier Inertia Effects in Silicon and Germanium. Major Adviser: Prof. K. S. Champlin.

Roger Edwin Baldwin, Hilo, Hawaii

B.S. '51, M.S. '53, Oregon State College. Major: Education. Minor: Botany. Thesis: The Development and Evaluation of Voluntary-Choice Programmed Instruction in Mathematics. Major Adviser: Prof. C. H. Boeck.

Benny Moses Benjamin, Bombay, India

B.Ch.E. '60, University of Bombay (India). Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: Recombination of Hydrogen and Oxygen in the Presence of Water Vapor Under the Influence of Radiation. Major Adviser: Prof. H. S. Isbin.

Philip Alexander Boyazoglu, Johannesburg, South Africa

B.V.Sc. '61, University of Pretoria (South Africa). Major: Animal Husbandry. Minor: Dairy Husbandry. Thesis: Sulfur-Selenium-Vitamin E Interrelationships in the Nutrition of Sheep. Major Adviser: Prof. R. J. Meade.

Richard Nunez Cardozo, Minneapolis

B.A. '56, Carleton College; M.B.A. with distinction '59, Harvard University. Major: Business Administration. Minor: Psychology. Thesis: An Experimental Study of Consumer Effort, Expectation, and Satisfaction. Major Adviser: Prof. R. J. Holloway.

John Max Crowley, Readstown, Wis.

B.S. (Agric.) with high honors '57, University of Idaho; M.S. '60, University of Minnesota. Major: Geography. Minor: Botany. Thesis: Ranches in the Sky: A Geography of Livestock Ranching in the Mountain Parks of Colorado. Major Adviser: Prof. E. C. Mather.

James Charles Dickinson, Minneapolis

B.A. '55, Miami University; M.A. '57, Ohio University. Major: Educational Psychology. Minor: Psychology. Thesis: The Effects of Drive Level and Instructions Upon the Performance of Concept Attainment and Figure Coding Tasks. Major Adviser: Prof. R. E. Wilk.

Melvyn Luverne Fahning, Wells

B.S. '58, M.S. '60, University of Minnesota. Major: Dairy Husbandry. Minor: Veterinary Physiology and Pharmacology. Thesis: Some Chemical Analysis of Bovine Uterine Fluid and Blood Serum. Major Adviser: Prof. E. F. Graham.

Donald Clarence Fair, Edmonton, Alberta, Canada

B. of Educ. '55, M.A. '59, University of Alberta. Major: Psychology. Minor: Educational Psychology. Thesis: Life History Correlates of Selected Vocational Interests. Major Adviser: Prof. R. F. Berdie.

Joanne Marcia Kowalski Floyd, Detroit, Mich.

B.A. with distinction '60, University of Michigan. Major: Psychology. Minor: Child Psychology. Thesis: Effects of Amount of Reward and Friendship Status of the Other on the Frequency of Sharing in Children. Major Adviser: Prof. W. A. Russell.

John Kelly Gruenfelder, Mankato

B.A. with honors '54, Mankato State College; M.A. '60, University of Minnesota. Major: History. Minor: Geography. Thesis: The Use of the Royal Prerogative in Summoning and Dissolving Parliament 1603-1642. Major Adviser: Prof. D. H. Willson.

George Donald Hanrahan, St. Louis, Mo.

B.S. '54, Marquette University; M.A. '58, University of Minnesota. Major: Economics. Minor: Statistics. Thesis: Three Econometric Monetary Models of the United States, 1952-1960. Major Adviser: Prof. O. H. Brownlee.

Gilbert Nikolai Hanson, Columbia Heights

B.A. '58, M.S. '62, University of Minnesota. Major: Geology. Minor: Physical Chemistry. Thesis: The Effect of Contact Metamorphism on Mineral Ages in the Snowbank Lake Area, Minnesota, and in the Beartooth Mountains, Wyoming. Major Adviser: Prof. P. W. Gast.

Dean Everett Hinmon, St. Paul

B.S. '52, M.A. '56, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of Catholic Parents' Characteristics and Opinions Concerning the Need for Catholic Elementary Schools. Major Adviser: Prof. L. L. Cunningham.

Darrel Dean Joel, Wood Lake

B.S. with high distinction '56, D.V.M. '58, University of Minnesota. Major: Veterinary Pathology. Minor: Agricultural Biochemistry. Thesis: Studies on Lymph and Lymphopoiesis in the Calf and the Relationship to S-(Dichlorovinyl)-L-Cysteine Toxicity. Major Adviser: Prof. J. H. Sautter.

Freeman Keith Johnson, Richfield, Utah

B.A. '56, Brigham Young University; M.S. '61, University of Minnesota. Major: Genetics. Minor: Botany. Thesis: The Use of Chromosomal Interchanges to Locate Genes for Certain Quality and Agronomic Characters in Barley (*Hordeum Vulgare L.*). Major Adviser: Prof. C. R. Burnham.

Richard William Joos, Cologne

B.S. cum laude '58, College of St. Thomas. Major: Physiological Chemistry. Minor: Physical Chemistry. Thesis: Calcium Binding to Phospholipids and Phospholipid-Protein Complexes. Major Adviser: Dr. C. W. Carr.

Kathleen Margaret Keenan, St. Paul

B.A. '56, College of St. Catherine; M.S. '58, University of Minnesota. Major: Biostatistics. Minor: Public Health. Thesis: Some Aspects of a Statistical Approach to Environmental Microbiological Sampling. Major Adviser: Dr. J. E. Bearman.

Karl Keller, Manti, Utah

B.A. with honors '58, M.A. '59, University of Utah. Major: English. Minor: German. Thesis: The Metaphysical Strain in Nineteenth-Century American Poetry. Major Adviser: Prof. C. H. Foster.

Perry William Kirklin, Jr., Feasterville, Pa.

B.S. cum laude '57, Westminster College. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: An Electron Nuclear Double Resonance Study of a Hole Center in Magnesium Oxide. Major Adviser: Prof. J. E. Wertz.

John Henry Kruger, Jr., Minneapolis

B.Min.E. '55, M.A. '58, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: A Study of Union Performance of Selected Manpower Management Functions. Major Adviser: Prof. H. G. Heneman, Jr.

John Ki Lim, Seoul, Korea

B.S. '58, M.S. '60, University of Minnesota. Major: Genetics. Minor: Botany. Thesis: Association Tests Between Chromosomal Translocations of Maize and the Multiple-Ear Character. Major Adviser: Prof. E. H. Rinke.

Larry James Littlefield, Spiro, Okla.

B.S. '60, Cornell University; M.S. '62, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Translocation in Fungi: *Rhizoctonia Solani* and *Lentinus Tigrinus*. Major Adviser: Prof. R. D. Wilcoxson.

Gerald Wayne Lundeen, Minneapolis

B.S. '59, University of Wisconsin. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: Experimental Study of Chemiluminescence. Major Adviser: Prof. R. S. Livingston.

Donald Gregory MacEachern, Minneapolis

B.A. with great distinction '48, B.Ed. with distinction '51, University of Saskatchewan; M.A. '59, University of Minnesota. Major: Statistics. Minor: Educational Psychology. Thesis: Confidence Intervals from the Bayesian Viewpoint. Major Adviser: Prof. R. J. Buehler.

John Cameron MacLeod, Toronto,
Ontario, Canada

B.Sc.(Hons.) '58, M.Sc. '60, University of British Columbia. Major: Fisheries and Wildlife. Minor: Zoology. Thesis: Effects of Suspended Paper Wood Fiber on Oxygen Consumption and Swimming Endurance of the Fathead Minnow, *Pimephales Promelas*. Major Adviser: Prof. L. L. Smith, Jr.

William Hall Christie Maxwell, Port-
rush, North Ireland

B.Sc. '56, M.Sc.C.E. '58, Queen's University. Major: Civil Engineering. Minor: Mathematics. Thesis: Linearized, Two-Dimensional, Hydrodynamic Theory for the Lift and Moment on a Non-Cavitating Hydrofoil with an Oscillating Flap in a Channel of Limited Depth. Major Adviser: Prof. Edward Silberman.

John Vorley Milligan, Bonaccord, Al-
berta, Canada

B.Sc. '58, M.Sc. '60, University of Alberta. Major: Physiology. Minor: Physical Chemistry. Thesis: Factors Affecting the Loss and Recovery of the Ability of Frog Striated Muscle to Produce Potassium Contractures. Major Adviser: Dr. Charles Edwards.

James Robert Morehead, Owatonna

B.A. '55, Grinnell College; M.A. '57, Williams College. Major: Anatomy. Minor: Zoology. Thesis: The Effects of Androgen on the Mammalian Testis Following the Cryptorchid State. Major Advisers: Drs. C. F. Morgan and Anna-Mary Carpenter.

Joseph Philip Mundi, Bessemer, Ala.

M.A. '49, St. Louis University. Major: Sociology. Minor: Psychology. Thesis: Variations in the Opinions, Practices and Attitudes of Selected Samples of Minnesota Catholic College Students Toward Catholicism in America. Major Advisers: Profs. E. D. Monachesi and A. M. Rose.

Glenn Irving Nelson, Westbrook

B.A. '55, St. Olaf College; M.A. '60, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Social Change, Reference Groups and the Self Concept: A Study of Change in Rural Churches. Major Adviser: Prof. A. M. Rose.

Harold Rasmus Oaks, North Ogden,
Utah

B.A. '60, M.A. '62, Brigham Young University. Major: Speech and Theatre Arts. Minor: Education. Thesis: An Interpretative Study of the Effects of Some Upper Mid-West Productions of *Uncle Tom's Cabin* as Reflected in Local Newspapers Between 1852 and 1860. Major Adviser: Prof. A. H. Ballet.

Penelope Brooks Odom, Abilene, Tex.

B.A. '61, University of Texas. Major: Psychology. Minor: Educational Psychology. Thesis: Syntactic Generalization: Queries. Major Adviser: Prof. J. J. Jenkins.

Kenneth Malcolm Old, Hull, England

B.Sc.(Hons.) '61, University of Nottingham (England). Major: Plant Pathology. Minor: Genetics. Thesis: Fungistatic Effects of Bacteria on Root Rotting Fungi. Major Adviser: Prof. Thor Kommedahl.

James Joseph Papike, Eveleth

B.S. in Geol.E. with high honors '59, South Dakota School of Mines and Technology. Major: Geology. Minor: Physical Chemistry. Thesis: The Crystal Structure and Crystal Chemistry of Scapolite. Major Adviser: Prof. Tibor Zoltai.

Donald Walter Parson, Duluth

B.S. '60, University of Minnesota; M.S. '61, University of Wisconsin. Major: Speech and Theatre Arts. Minor: History. Thesis: The Rhetoric of Isolation: A Burkeian Analysis of the America First Committee. Major Adviser: Prof. R. L. Scott.

John Joseph Peterka, Charleston, Ill.

B.S. in Educ. with honors '58, Eastern Illinois University; M.S. '61, University of Wisconsin. Major: Fisheries and Wildlife. Minor: Botany. Thesis: The Characteristics of a Population of Whitefish as Affected by Commercial Fishing in Red Lakes, Minnesota. Major Adviser: Prof. L. L. Smith, Jr.

Herbert Charles Preul, Minneapolis

B.S.C.E. '50, University of Iowa; M.S.C.E. '55, University of Minnesota. Major: Civil Engineering. Minors: Chemical Engineering and Public Health. Thesis: Travel of Nitrogen Compounds in Soils. Major Adviser: Prof. G. J. Schroepfer.

P. J. Pushpavati, Tenali, India

B.Sc. '53, M.Sc. '54, Andhra University (India); M.S.E.E. '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Theory of Noise in Field Emission Devices. Major Adviser: Prof. Albert van der Ziel.

Amir Rafat, Tehran, Iran

Diploma '56, University of Geneva (Switzerland); M.A. '58, University of Nebraska. Major: Political Science. Minor: French. Thesis: Expropriation of the Private Property of Aliens in Recent International Law: Iran, Egypt, Indonesia, and Cuba. Major Adviser: Prof. C. H. McLaughlin.

Kammula Ganga Raju, Elura, India

B.V.Sc. '57, University of Madras (India); M.S. '61, University of Minnesota. Major: Dairy Husbandry. Minor: Physiological Chemistry. Thesis: Electrolyte Balances in Normal and Diarrheic Dairy Calves. Major Adviser: Prof. J. D. Donker.

**Henry Joseph Richards, Trinidad,
West Indies**

B.S. '59, M.A. '61, Marquette University. Major: Spanish. Minor: Area Studies: Latin America. Thesis: True and Perverted Idealism in the Works of Emilia Pardo Bazán. Major Adviser: Prof. W. T. Pattison.

Ronald Clair Roberts, Meadville, Pa.

B.S. '57, Pennsylvania State University. Major: Agricultural Biochemistry. Minor: Physical Chemistry. Thesis: Studies on the Proteins of Soybean: Isolation and Characterization of the 7S Component of the Globulin Fraction. Major Adviser: Prof. D. R. Briggs.

David Lewis Russell, Toronto, Ontario, Canada

B.A. '60, Emmanuel Missionary College. Major: Mathematics. Minor: Physics. Thesis: Analytic Simplification of Second Order Systems with Transition Points. Major Advisers: Profs. W. A. Harris, Jr. and H. L. Turrittin.

Ronald Leslie Sack, Minneapolis

B.S. '57, M.S.C.E. '58, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: The Elastic and Elasto-Plastic Instability of Plane Frames. Major Adviser: Prof. W. T. Graves.

Donald Roy Salper, St. Paul

B.A. '51, University of Minnesota; M.A. '52, Northwestern University. Major: Speech and Theatre Arts. Minor: English. Thesis: A Study of an Oral Approach to the Appreciation of Poetry. Major Adviser: Prof. D. W. Thompson.

Michael Robert Schweisthal, Faribault

B.A. *cum laude* '58, Luther College. Major: Anatomy. Minor: Zoology. Thesis: Differentiation and Growth of the Fetal Rat Pancreas *In Vitro*. Major Adviser: Dr. L. J. Wells.

Charles James Scott, Rosemount

B.S. with distinction '51, M.S.Aero.E. '54, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Influence of Turbulent Base Pressure and Heat Transfer of Distributed Mass Addition into the Near-Wake Region of a Supersonic Body of Revolution. Major Adviser: Prof. E. R. G. Eckert.

Barkur Shambhushanker Shetty, India

B.S. '51, Karnatak University; D.I.H. '52, University of Madras; M.S. '59, University of Minnesota. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: Effects of Polyethylene Firm Mulches and Sawdust on the Vegetative and Reproductive Behavior of Red Rich Strawberry Plants. Major Adviser: Prof. A. E. Hutchins.

Bhanu Pratap Singh, Jaunpur, India

B.V.Sc. & A.H. '58, M.V.Sc. '61, Agra University (India). Major: Animal Husbandry. Minor: Genetics. Thesis: Evaluation of Performance of Breeds of Sheep at the Crossbred Level. Major Adviser: Prof. W. E. Rempel.

Raghib Singh, Punjab, India

B.Sc. '52, M.Sc. '55, Panjab University (India). Major: Agronomy. Minor: Agricultural Plant Physiology. Thesis: Physiological Response of Alfalfa and Weeds to 4-(2,4-DB) Applications. Major Advisers: Profs. Richard Behrens and A. R. Schmid.

Joan Van Rensselaer Smith, Minneapolis

B.A. '50, Montana State University. Major: Art. Minor: History. Thesis: Nicolas Largillier: A Painter of the Régence. Major Adviser: Prof. H. A. Thomas.

Wayne William Sorenson, St. Paul

B.B.A. '59, M.A. '61, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Configurational Scoring of Biographical Items for Predicting Sales Success. Major Adviser: Prof. M. D. Dunnette.

Roy Elmer Stafford, Imperial, Neb.

B.S. in Agric. with honors '53, Kansas State College. Major: Genetics. Minor: Agricultural Plant Physiology. Thesis: Inheritance and Association of Several Characters in Flax Populations Treated with MCPA. Major Adviser: Prof. W. M. Myers.

Frederick William Stehr, Athens, Ohio

B.S. with high honors '54, Ohio University; M.S. '58, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: A Revision of the Genus *Malacosoma* Hubner (Lepidoptera: Lasiocampidae) in North America. Major Adviser: Prof. E. F. Cook.

Leif Sundheim, Ulnes, Norway

Diploma '61, Agricultural College of Norway. Major: Plant Pathology. Minor: Botany. Thesis: Epidemiology, Ecology, and Host-Parasite Relationships of *Leptosphaerulina Briosiana* on *Medicago Sativa*. Major Adviser: Prof. R. D. Wilcoxson.

John Allen Trentman, London, Ontario, Canada

B.A. *magna cum laude* '56, M.A. '58, University of Minnesota. Major: Philosophy. Minor: Scandinavian. Thesis: Simple Supposition and Ontology: A Study in Fourteenth-Century Logical Theory. Major Adviser: Prof. G. B. Matthews.

Robert Bernard van Huystee, Canada

B.A. '59, M.A. '61, University of Saskatchewan. Major: Horticulture. Minor: Agricultural Biochemistry. Thesis: Cold Acclimation and Accompanying Metabolic Changes in Red-Osier Dogwood with Emphasis on Proteins. Major Adviser: Prof. L. C. Snyder.

James Robert Waller, Long Prairie

B.A. '57, St. John's University; M.S. '60, University of Minnesota. Major: Microbiology. Minor: Agricultural Biochemistry. Thesis: Studies on the Transport and Accumulation of Biotin by Cells of *Lactobacillus Arabinosus*. Major Adviser: Dr. H. C. Lichstein.

Robert Hickman Weber, Hamilton, N.Y.

B.A. '37, M.A. '40, University of Nebraska. Major: English. Minor: Linguistics and Comparative Philology. Thesis: A Comparative Study of Regional Terms Common to the Twin Cities and the Eastern United States. Major Adviser: Prof. H. B. Allen.

David Algot Wicklund, Minneapolis

B.A. '60, M.A. '63, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: Paired-Associate Learning in Children as a Function of Free Association Strength and Type of Associative Response Hierarchy at Four Grade Levels. Major Advisers: Profs. D. S. Palermo and J. C. Wright.

Brandon Helmholtz Wiers, Grand Rapids, Mich.

B.A. '57, Calvin College. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: LCAO MO Studies of Permanganate. Major Adviser: Prof. W. L. Reynolds.

Lawson Lowell Winton, Ontario, Calif.

B.S. '57, University of California. Major: Forestry. Minor: Botany. Thesis: Microsporogenesis and Early Pollen Forcing in a White X Black Spruce Hybrid and Its Parental Species. Major Adviser: Prof. S. S. Pauley.

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
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 _____

AUGUST, 1964

- The members of the graduating class, their families and friends are invited to attend the President's Reception immediately after the commencement exercises. The reception will be held on the terrace of the Coffman Memorial Union. In case of rain the ballroom will be used.
- Those in the receiving line will be President and Mrs. Wilson; Dean and Mrs. Thompson; Mr. James Wm. Rustad, President, Minnesota Student Association; and Mr. Daniel F. Paskewitz, President, Coffman Union Board of Governors.
- Assisting in the Reception are members of the Union Board of Governors, and members of the following honorary societies: Arrowhead, Chimes, Grey Friars, Innocents, Iron Wedge, Mortar Board, and Silver Spur.
- Punch will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the punch tables.



UNIVERSITY OF MINNESOTA

December Commencement, 1964

SATURDAY EVENING, DECEMBER 19, 8:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents ---

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

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

The Honorable Daniel C. Gainey, Owatonna

The Honorable Bjarne E. Grottum, Jackson

The Honorable Gerald W. Heaney, Duluth

The Honorable Robert E. Hess, White Bear Lake

The Honorable Fred J. Hughes, St. Cloud

The Honorable A. I. Johnson, Benson

The Honorable Lester A. Malkerson, Minneapolis

The Honorable William K. Montague, Duluth

The Honorable 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 thirteenth 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 177,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to more than 38,000 students annually on its Minneapolis, St. Paul, Duluth, Morris, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

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

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

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

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

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

As it meets the needs of present students, the University must also make plans for those of the future. The 38,403 students currently attending the University represent 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 will institute an admissions policy based on controlled growth of total enrollment. This change in admissions requirements will hold 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 1963 LEGISLATURE granted the University \$63,502,050 for general operations and maintenance during the 1963-65 biennium. In addition, the University received \$8,028,242 for University Hospitals; \$5,309,483 for special appropriations, including special extension and research activities; \$12,478,700 for new buildings, land, and for the rehabilitation of existing buildings; and \$964,135 for University of Minnesota, Morris.

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

The summary financial statement of 1963-64 showed that the University's current income amounted to \$120,996,183.65 and the current expenditures, transfers, and adjustments amounted to \$120,997,307.99. Of the total received, \$11,695,702.92 came from student tuition and fees; \$15,601,446.97 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; \$1,597,684.93 from intercollegiate athletics; \$17,881,472.49 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 \$8,117,653.39 from corporations, foundations, individuals, and endowment income for instruction, research,

prizes, scholarships, and the care of the sick. Also \$26,591,688.27 came from the federal government for instruction, research, and agricultural extension. The state provided \$39,510,534.68 or 32.7 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 \$10,134,063.

Commencement marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund and the various Special Project Programs including scholarships, medical and technological research, and college service funds which are administered by the Department of University Relations, 217 Morrill Hall, on the Minneapolis Campus.

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Minneapolis Campus of the University this evening from 7:15 to 7:45 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Philip C. Brunelle, Graduate Student, Carillonneur. Admission to the December Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

ORGAN PRELUDE: From 7:30 to 8:00 p.m., Associate Professor of Music and University Organist Heinrich Fleischer, Ph.D., will play.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 8:00 p.m., Professor Walter K. Vivrett, Ph.D., School of Architecture, Faculty Marshal, will carry the Mace into the Auditorium, heralding the arrival of the academic procession of candidates for degrees. Marshal Vivrett, 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:

Prelude in C Major - - - - - Bach

ON THE STAGE: The curtain will be opened when the Mace Bearer enters. Seated on the stage, from left to right, are: Marshal Vivrett; Associate Professor Fredric R. Steinhauser, Ph.D., General College, Marshal; Recorder True E. Pettengill, M.S., Admissions and Records; Dean Horace T. Morse, Ph.D., General College; Captain Daniel R. Zenk, U.S.A., Assistant Professor of Military Science; Associate Dean Francis M. Boddy, Ph.D., University College; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Lt. Colonel James Suttie, U.S.A.F., Professor of Air Science; Assistant Dean Keith N. McFarland, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Associate Dean H. Mead Cavert, M.D., College of Medical Sciences; Assistant Vice President Donald K. Smith, Ph.D., Academic Administration; The Reverend Roy C. Lepak, M.A., Chaplain of the Newman Club on the St. Paul Campus of the University; President Oscar A. Anderson, LL.D., Augsburg College, Commencement Speaker; President O. Meredith Wilson, Ph.D., University of Minnesota; Dean Bryce L. Crawford, Jr., Ph.D., Graduate School; Dean Edmund G. Williamson, Ph.D., Dean of Students; Vice President Laurence R. Lunden, LL.D., Business Administration; Vice President Stanley J. Wenberg, M.A., Educational Relationships and Development; Dean George P. Hager, Ph.D., College of Pharmacy; Associate Dean Frank Verbrugge, Ph.D., Institute of Technology; Dean Robert J. Keller, Ph.D., College of Education; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Captain Edward M. Morgan, U.S.N., Professor of Naval Science; Profes-

sor Roy A. Schuessler, M.M., College of Liberal Arts; Dean Willard L. Thompson, Ph.D., General Extension Division; Mr. Charles Judd Ringer, President of the University of Minnesota Alumni Association; Professor Albert K. Wickesberg, Ph.D., Graduate School of Business Administration, Marshal; Professor Samuel T. Coulter, Ph.D., College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture, Marshal.

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

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

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 Reverend Roy C. Lepak.

SPEAKING FOR THE UNIVERSITY: President O. Meredith Wilson.

COMMENCEMENT ADDRESS: Dr. Oscar A. Anderson, "Toward the Era of Education."

CONFERRING OF ROTC CERTIFICATES: Dr. Smith will introduce Captain Zenk, Captain Morgan, and Colonel Suttie, 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 Thompson for the General Extension Division; Dean Morse for the General College; Dean Ziebarth for the College of Liberal Arts; Associate Dean Boddy for the University College; Associate Dean Verbrugge for the Institute of Technology; Assistant Dean McFarland for the College of Agriculture, Forestry, and Home Economics of the Institute of Agriculture; Dean Keller for the College of Education; Dean Grambsch for the School of Business Administration; Dean Hager for the College of Pharmacy; 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: Mr. Charles Judd Ringer.

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

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

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

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

POSTLUDE: Associate Professor Fleischer, organist.

Fugue in C Major - - - - - Bach

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

Candidates for Commissions _____

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Adjutant General Corps

Robert W. Greenman, St. Paul

Second Lieutenant, Army Intelligence and Security

John A. Boler, Minneapolis

Ronald L. DeJohn, St. Louis, Mo.

Second Lieutenant, Artillery

Alan J. Druskin, Minneapolis

Raymond W. Harman, Osage, Iowa

Second Lieutenant, Infantry

Daniel J. Guider, Jr., St. Paul

Second Lieutenant, Medical Service Corps

John R. Strehlow, Minneapolis

Second Lieutenant, Signal Corps

Stephen G. Hoiland, Luverne

Girts U. Jatnieks, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Second Lieutenant, USMC

James Craig Perso, Minneapolis

DEPARTMENT OF AIR SCIENCE

Second Lieutenant, USAF Reserve

Kenneth D. Gustafson, St. Cloud
Jerome I. Levey, Duluth

Jose A. Lopez, Denver, Colo.
Charles C. Nelson, 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

Roger Lee Blain, South St. Paul
Ambrose Marshall Gonshorowski, St.
Paul

Vincent Thomas Graupmann, St.
Paul

Electrical Engineering Aide Certificate

Robert James Conklin, Minneapolis

Engineering Science Certificate

Clarence Stanford Decker, Minne-
apolis

Clifford Douglas Swedenburg, St. Paul

Industrial Engineering Certificate

Louis Eugene Waters, Minneapolis

GENERAL COLLEGE

Associate in Arts

Merle Roy Abrahamson, St. Paul
Edna Eleanor Erstad Anderson, Lake
Wilson
Ellen Louise Anderson, Minneapolis
John Guy Aschittino, St. Paul
Bruce Douglas Barkosky, Minneapolis
Louise Christine Begg, Edina
Gerald Paul Bender, St. Paul
Lowell Paul Bialick, Minneapolis
John Magnus Bjergen, Minneapolis

Sandra Jean Bower, Richfield
Patricia Diane Bowes, St. Paul
Gaylon Harris Brandt, Chisago City
Larry Herman Braufman, Minneapolis
Joyce Mercedes Braun, Cologne
Marilyn Louise Johnson Bubbers,
Caledonia
Gerald Stanley Buckska, Minneapolis
Patrick Joseph Buttell, Richfield
Gregory J. Cain, Minneapolis

Michael Childs Cain, Minneapolis
 Kay Leslie Carlson, Minneapolis
 Linda Diane Carlson, Minneapolis
 Wilfred Jay Carlson, Minneapolis
 Jane Elizabeth Carroll, Bloomington
 William Avery Coan, St. Paul
 Arthur Raymond Coates, Minneapolis
 Mary Patricia Cook, Minneapolis
 Georgeanne Priscilla Coverdale, St. Paul
 Andrew Emory Creager, St. Paul
 Ronald Jay Crocker, Hopkins
 Judith Kay Dahlberg, Minneapolis
 Dana Lynn Danielson, Minneapolis
 Thomas Moore Devoy, Minneapolis
 Paul William Dotty, St. Paul
 Robert Clarence Ellis, Edina
 Kent Michael Evans, Minneapolis
 Sherwood Michael Fein, Minneapolis
 James Richard Fillmore, St. Paul
 Myron Bruce Finne, Minneapolis
 Gerald John Fischer, Minneapolis
 Robert Thomas Flesher, St. Paul
 Bertel Irvin Gimmestad, St. Paul
 Robert Charles Gove II, Wayzata
 Arden Zelig Greenberg, Minneapolis
 James Hollis Habeck, Minneapolis
 Bruce Henry Hagstrom, St. Paul
 Donald Alexander Ham, Minneapolis
 James Elmer Hansen, Minneapolis
 Bruce Norman Hanson, Richfield
 Michael Alan Hanson, Minneapolis
 David Oliver Hargreaves, Edina
 Thomas Bradley Hays, Long Lake
 Susan Diane Helgerud, Hopkins
 Gerald Wayne Hemp, Minneapolis
 Alfred Arnold Herman, West St. Paul
 Richard Fredric Herman, Luverne
 Gary Allan Heutmaker, Minneapolis
 Leonard Ira Horowitz, St. Paul
 Kenneth Henry Huber, Shakopee
 Robert Lloyd Huberty, St. Paul
 Hubert Hubin, Minneapolis
 Thomas J. Huebner, Hastings
 Arthur Clarence Iverson, Jr., Minneapolis
 Douglas Allen Jensen, Willmar
 Leon Vernon Jensen, Fergus Falls
 Waldo Earl Johnson, Minneapolis
 Maryse Rebecca Jungbluth, St. Paul
 Carolyn Elizabeth Kaplan, St. Louis Park
 Lawrence Herschel Kaplan, Minneapolis
 Michael Thomas Kellett, Minneapolis
 John Angus Kennedy, St. Paul
 Ralph Benjamin Kersten, Jr., Edina
 Roland Benjamin Knapton, St. Paul
 John James Koblas, Minneapolis
 Robert John Kramlinger, St. Paul
 Jerilyn Krause, Minneapolis
 David Edwin Kriebel, Minneapolis
 Michael Monroe Kronstedt, St. Paul
 Bruce Harold Kruger, Minnetonka
 Patricia Ann Lang, Lexington, Ohio
 Jim Marvin Larson, Minneapolis
 Albert Malcom Lewison, Randolph
 Merlyn Albert Lieske, Mankato
 Richard Alan Lindholm, Moose Lake
 Thomas Charles Lively, St. Paul
 Richard Everett Lyngholm, Minneapolis
 Marvin Lawrence Mausolf, St. Paul
 Roberta Alice McKeegan, Minneapolis
 Richard Cleveland McKenney, St. Paul
 Charles John McNamara, St. Paul
 Frank Robert Merry, New Brighton
 James Paul Metzen, South St. Paul
 Francis Anthony Meuers, Minneapolis
 Richard Leroy Meyer, Columbia Heights
 Philip Everett Miller, Waseca
 Marva Irene Moe, St. Paul
 Diane Marian Morsefield, Minneapolis
 Thomas Houston Mosher, Minneapolis
 Peter Joseph Mueller, St. Louis Park
 Nicholas Francis Mydra, North St. Paul
 Halyna Myroniuk, St. Paul
 Thomas Larry Nelson, Wayzata
 Patrick Rene O'Brien, Minneapolis
 Gregory Braden O'Connor, St. Paul
 Rodney Lowell Olsen, Robbinsdale
 Robert James Olson, Lakeville
 Esther Marie Orf, St. Paul
 Marlys Carol Ostrow, St. Louis Park

Christine Eleanor Oustad, Minneapolis
 Laraine Anne Painter, Minneapolis
 Nancy Jane Palmer, St. Paul
 Linda Faye Passon, Duluth
 Richard Alfred Peterson, Superior, Wis.
 John Whitney Peyton, Minneapolis
 John William Poulos, Minneapolis
 Otto George Pries, Belle Plaine
 Thomas Michael Quinn, St. Paul
 Jerry Oliver Quinnell, Faribault
 Roland Paul Racine, Jr., White Bear Lake
 Judith Ann Ratcliff, Minneapolis
 George Gary Rautio, Mahtowa
 Sandra Jo Rebehn, Dent
 Susan Elizabeth Reuper, Columbia Heights
 Francis Gerald Richards, Jordan
 Bruce Duane Richardson, Minneapolis
 James A. Ristine, St. Paul
 Jerome Sylvester Robertson, St. Paul
 Richard Leo Rother, Hastings
 Gerald Jose Roy, Minneapolis
 Judith Elizabeth Russell, Wayzata
 Mary Virginia Ryman, Minneapolis
 Dean Olaf Sabby, Fridley
 Donald Steven Schibel, Virginia
 Frederick Julian Schjolberg, Minneapolis
 John Clare Schweitzer, Richfield

Dale Robert Schwie, Richfield
 Thomas Edward Sechrest, Detroit, Mich.
 Marita Evelyn Shisler, St. Paul
 James Michael Shultis, Minneapolis
 Anthony Silverman, St. Paul
 Daryl Lester Sipe, Minneapolis
 Robert Terry Spicer, St. Louis Park
 Mary Katherine Spinner, Minneapolis
 Gary Miles Standish, Bloomington
 Margaret Ann Strand, Bloomington
 Nina Mae Sudduth, Minneapolis
 Patrick Joseph Taillefer, Brooklyn Park
 Stephen Back Taylor, Minneapolis
 David Ross Toushin, St. Paul
 Raymond Robert Tuchner, St. Paul
 Richard Edward Tuttle, Minneapolis
 Roger Ben Ueltschi, Minneapolis
 Eileen Mary Ulrich, White Bear Lake
 John Rue VanArsdale, Hopkins
 David Edwin Voss, St. Paul
 Jerome Valentine Wagnild, Minneapolis
 George Osborn Weber, Rochester
 Paul Kevin Weimelt, Bloomington
 Dwight Perry Wells, New Brighton
 Robert McLeod Wells, St. Paul
 Michael Peter Wesp, St. Paul
 John David Wharton, Minneapolis
 Roy Douglas Williams, Minneapolis
 Richard Frank Wolens, St. Paul
 Carolyn Jane Zarembinski, St. Paul

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Gary Peter Arndt, Pine Island
 Barbara Louisa Collier, Minneapolis
 Marsha Joyce Glisan, Minneapolis
 Mary Louise Gruber, St. Paul
 Kathleen Joanne Highfield, Minneapolis
 Albert Arthur Holmes, Minneapolis
 Darlene Marilyn Jones, St. Paul
 Timothy Ray Melin, Fridley

Stig Carl Adolph Ringenson, Stockholm, Sweden
 Kerry Jane Robinson, Tulsa, Okla.
 Kathleen Ellen Rono, Sleepy Eye
 Dennis Wayne Schulstad, Minneapolis
 Ronald Wayne Selstad, Blooming Prairie
 Dennis Stanley Zylla, Minneapolis

Bachelor of Arts

- James Dennis Acers, Minneapolis
Robert Kenneth Adams, Mound
Robert Paul Albright, Minneapolis
Judith Karen Anderson, Minneapolis
Karl Henning Anderson, Gaylord
Mark George Anderson, Minneapolis
*William Ward Anderson, West St.
Paul, CUM LAUDE*
Robin Madeline M. Andrews, Minneapolis, CUM LAUDE
Ann-Christin Haynez Arndt, Stockholm, Sweden
Larry Wayne Asche, Raymond
Gerald Robert Ashbach, St. Paul
Howard Francis Bach, Minnesota Lake
Curtis Herman Beckman, Minneapolis
Thomas Richard Behr, Minneapolis
Donald Frank Blasl, Casselton, N.D.
Jane Joanne Olson Bonander, Minneapolis
Richard Phillip Borne, Richfield
Penelope Boyer, Minneapolis
Eunice Carolla Palmberg Bratt, A.A., Valley Springs, S.D.
*Darrel Bratten, Littlefork, MAGNA
CUM LAUDE*
Michele S. Bregman, Minneapolis
Gerald Eugene Brennan, Minneapolis
Ronald Douglas Brown, Des Moines, Iowa
Wesley Rudolph Carlson, Ludington, Mich.
Richard Albert Cecil, Rochester
Dennis Francis Cerkvenik, Mt. Iron
Karen Lorraine Chapman, Shell Lake, Wis.
Chung Fai Chung, Hong Kong
Charles Warren Clarke, Minneapolis
Allan Stuart Cohen, Sioux City, Iowa
Barbara Ann Cole, Minneapolis
Dean Joseph Coleman, Willmar
William Lester Conley, Bayport
Patrick Joseph Connolly, Minneapolis
Larry Frederick Cooperman, St. Louis Park
Barbara Gail Corbett, Minneapolis
Douglas John Culhane, Minneapolis
- Gregory Vernon Delin, Minneapolis
Carole Angeline DeMaster, Lakeville
Gary Stanley DeNault, St. Paul
Diane Leslie Deutsch, Minneapolis
Carmen Rae Doren, Minneapolis
Paul Joseph Ducharme, Moorhead
Clyde Ronald Ellingson, Minneapolis
Clement Charles Engen, Minneapolis
Doris Sue Epstein, Sioux City, Iowa
Orrin Schuler Estebo, Minneapolis
Catharine Morton Finck, St. Paul
John Francis Fisher, Minneapolis
Jay Everett Forsman, Minneapolis
Helen LeBlond Frey, Edina
Andrew Gamble, St. Paul
*Diane Marie Filby Gillespie, Cloquet,
SUMMA CUM LAUDE*
Robert Victor Gliner, Altadena, Calif.
Michael Clements Goess, St. Paul
Sandra Eileen Golob, Minneapolis
Eva Lynne Richardson Gorgos, St. Paul
James Alden Gray, Minneapolis
Robert Wolcott Greenman, Jr., St. Paul
Richard William Grefe, Anoka
Robert Caryl Gunderson, St. Louis Park
Ralph Wesley Hale, Mobridge, S.D.
Dorothy Kay Hammers, Aberdeen, S.D.
Dean Cyrus Hansen, Minneapolis
Gloria Jean Hanson, St. Paul
Helene Elizabeth Hanson, Minneapolis
Barbara Karen Harmon, Richfield
Ralph William Harmon, St. Paul
Barbara Ann Held, Minneapolis
Maureen Hennessy, Austin
Emily Margaret Hermanson, Minneapolis
Marilyn Lily Hertel, Little Falls
Frederic Charles Hoffman, Minneapolis
Kay JoAnne Holcomb, Valley City, N.D.
Michael Earl Holmberg, Minneapolis
Sandra Lee Hopfenspirger, Mankato
David Ansgar Hult, Minneapolis

Russell David Hunt, St. Paul
 Carole Jean Onstrom Jerpbak, St.
 Louis Park
 Mary Lou Larson Jhangiani, A.L.A.,
 St. Paul
 Beverly June Johnson, St. Paul
 Carol Jean Jorgensen, Richfield
 Carol Jane Judd, Edina
 Dallas John Karl, Shakopee
 Karen Marie Knudsen Kelley, St.
 Paul Park
 Cornelius James Keppel, Hoyt Lakes
 Patricia Ann Keller Kiland, Tracy
 Ruth Ann Kopp, Mound
 David Vincent Lamm, Minneapolis
 Ralph James Larson, Minneapolis
 Ernest Theodore Lindberg, Jr., St.
 Paul
 Thomas Lee Loosbrock, Lismore
 Dennis Thomas Lowry, A.A., Wright
 Sandra Kay Lukas, Minneapolis
 Mary Susan Lynch, St. Paul
 Judith Anne Mann, Richfield
 Paul Nelson Martinson, Minneapolis
 Lowell Foster Mattson, Minneapolis
 Kathleen Patricia McCarthy, Minne-
 apolis
 Michael Anthony McCool, Minne-
 apolis
 Duncan Stuart McGregor, White
 Bear Lake
 Richard Charles McMillen, Water-
 ville
 Wayne Clinton Mesker, Minneapolis
 Harold Chamney Messenheimer,
 Minneapolis
 Joseph Clement Meyer, Le Sueur
 Margaret Snyder Miller, Wayzata
 Gerry Emery Moen, St. Paul
 Dennis Duane Moyer, A.A., Lake
 City
 Judith Ann Neby, St. Paul
 Bonna Leah Christians Neff, Wayzata
 Anette Elna Nelson, Lindstrom
 Charles Carter Nelson, Minneapolis
 Leslie Ann Johnson Neumeier,
 Minneapolis
 David Lowell Nyhus, Minneapolis
 Craig Steven Nystrom, Minneapolis
 Michael Dennis O'Brien, Minneapolis
 Richard Joseph O'Connell, St. Paul

Ellen Claire O'Connor, St. Paul
 Mary Catherine O'Connor, St. Paul
 Richard Brian O'Dea, Mahtomedi
 Gary Warren Ostedt, St. Paul
 Robert Wallace Passi, Minneapolis
 Thomas David Patterson, St. Paul
 Charles Terence Peterson, Minne-
 apolis
 Jolyon David Peterson, Minneapolis,
 MAGNA CUM LAUDE
 Ronald Keith Peterson, St. Paul
 Stephen William Plumb, Minneapolis
 Mary Ann Rademacher, St. Paul
 Tiit Raid, Prior Lake
 Robert Barlett Ramsey, St. Paul
 Sylvia Lynn Alexander Reed, St. Paul
 John Calvin Remsberg, Tracy
 James Elliot Roberts, B.B.A., Minne-
 apolis
 Robert Alan Rocklin, Minneapolis
 Joseph Lawrence Roettger, Jr., Rich-
 mond
 Leigh Duval Rolph, Minneapolis
 James Frank Romaniak, Minneapolis
 Donald Rolf Rye, Blooming Prairie
 Miriam Ruth Black Sadoff, Minne-
 apolis
 Clinton Earl Sanborn, Albert Lea
 Phyllis Ellen Thomas Sattar, Minne-
 apolis
 Karen Lois Schoeller, White Bear
 Lake
 John Nicholas Schoen, Wayzata,
 MAGNA CUM LAUDE
 Sandra Lee Hardwick Schramm,
 Delano, SUMMA CUM LAUDE
 Jerome Stanley Seliger, Minneapolis
 Ramon I. Selleg, Minneapolis
 Rowena Nedda Sigal, Minneapolis,
 CUM LAUDE
 Peninnah German Silverberg, St. Paul,
 MAGNA CUM LAUDE
 Donna Mae Jack Smith, Richfield
 Robert Frederick Smith, Edina
 Sherry M. Smith, Edina
 Gary McKelvey Soule, Minneapolis
 Mary Ann Soulsby, Minneapolis
 Kay Lynne Spake, Richfield
 Cynthia Margaret Spencer, Minne-
 apolis

Thomas George Stavros, A.A.,
Rochester
James Michael Stinziani, West St.
Paul
Charlotte Stockdale, Minneapolis
John Richard Strehlow, Minneapolis
Bonnie Lee Tarnoff, Omaha, Neb.
Rosalie Charlotte Terry, Glenwood,
Iowa
John Daniel Thomas, Minneapolis

Arvi Tiit Treude, Minneapolis
Clement Okafor Udeze, Nigeria*
Charles Titus Ueland, Rosemount
Harriet Moulton Ueland, Minneapolis
Robert Emmert Wagner, Minneapolis
Donald Michael Warren, Minne-
apolis
Evelyn June West, Coral Gables, Fla.
Catherine Anne Wilson, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Wendy Code Goodro, Rochester
Rhaelah Maree Hart, Minneapolis

Jerome Irwin Levey, Duluth
Howard David Root, Anoka

Bachelor of Science

Nevada Cozette Egge, St. Paul

INSTITUTE OF TECHNOLOGY

Bachelor of Science

John G. Claybourn, Ann Arbor, Mich.
Girts Usins Jatnieks, Minneapolis,
WITH HIGH DISTINCTION
Harold Rudolph Kokal, Eveleth

Richard James McDonald, Bismarck,
N.D.
David Ervin Nelson, Trimont, WITH
DISTINCTION

Bachelor of Aeronautical Engineering

Timothy Phillip Traynor, St. Paul

Bachelor of Architecture

Craig George Andersen, St. Paul
Murray Paul Casserly, B.S., St. Paul
Jimmy William Cox, Minneapolis
Clinton Ivan Johnson, A.A., Red
Wing

Wilford Fredrick Johnson, Mitchell,
S.D.
Robert Alan Melting, B.A., Albert
Lea, WITH DISTINCTION
Bradley H. Miller, West Salem, Wis.

* Degree conferred as of March 21, 1964.

Frank Daniel Nemeth, Bloomfield,
N.J.

George Robert Parker, Jr., Denver,
Colo.
Robert Fredrick Pauly, Minneapolis

Bachelor of Chemistry

David LeRoy Schamer, Winona

Bachelor of Civil Engineering

Wayne Edward Kilker, Britton, S.D.

Bachelor of Electrical Engineering

Victor Charles Arnold, Excelsior
David Alan Baron, Minneapolis
Lawrence John Lopp, Jr., Brainerd

Rodger Lee Schlagel, Aitkin
William Douglas Schweiger, Edina

Bachelor of Mathematics

Allan Robert Errington, Northfield

Kenneth Duane Larson, A.A., Dexter

Bachelor of Mechanical Engineering

Thomas Richard Andresen, Crystal
Ronald Charles Attema, Worthington
Curtis Leland Barsness, Soudan
Erwin Francis Chatras, Minneapolis
James Craig Perso, Minneapolis

Kenneth David Riesberg, Minneapolis
Gilmore Jonathan Sem, Underwood
Richard Joseph Stillinger, Albion,
Neb.

Bachelor of Mineral Engineering

Thomas Carlyle Kalil, Minneapolis

Bachelor of Physics

John Matthew Norman, Virginia,
WITH DISTINCTION

Lawrence Alfred Rivers, Minneapolis,
WITH HIGH DISTINCTION

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

Bachelor of Science

Karen Marie Anderson, Long Prairie,
Home Economics

Karen Virginia Blomberg, Hopkins,
Home Economics

Richard Michael Cashman, Mankato, Agriculture	Sandra Lee Mason, Golden Valley, Home Economics
Richard Leroy Collins, Nelson, Agri- culture	Gary Richard Nordstrom, Lanesboro, Forestry
Julia Belle Davis, St. Paul, Home Economics	Gary Anthony Olander, St. Paul, Forestry
Timothy Edward Donovan, St. Paul, Forestry	Linda Joan Peery, Minneapolis, Home Economics, WITH DISTINCTION
Gary Alonzo Elftmann, South St. Paul, Forestry	Karen Lee Peterson, Edina, Home Economics
Janet Carrie Finkelson, St. Paul, Home Economics	Kermit William Piper, Marine on St. Croix, Agriculture
Barbara Ann Fransen, Pennock, Home Economics	Paul Eugene Ray, St. Paul, Agricul- ture, WITH DISTINCTION
Helen Ruth Gatheridge, Minneapolis, Home Economics	Gary Aubrey Reineccius, Cambridge, Agriculture, WITH DISTINCTION
Warren William Gerber, Ortonville, Agriculture	Russell Howard Roberts, Cass Lake, Forestry, WITH DISTINCTION
David Ivan Grigg, St. Paul, Agricul- ture	John Anthony Rosenberger, St. Paul, Agriculture
Cynthia Balfour Grossman, South Pasadena, Calif., Home Economics	David Scott Schreiner, Minneapolis, Forestry
James Roger Grover, Minneapolis, Agriculture	Edward James Smith, West Concord, Agriculture
Clify Lucille Holme, Bloomington, Home Economics	Thomas Eugene Straw, Roseville, Agriculture, WITH HIGH DISTINC- TION
Henry Roy Johnson, Minneapolis, Forestry	Melvin Eugene Sunquist, Morris, Agriculture
Diane Louise Widsten Kelsey, St. Paul, Home Economics	Jerome Thorvald Thayer, Bagley, Forestry
Charles Goodwin Kjos, Roseville, Agriculture	David Patrick Joseph Tucci, St. Paul, Forestry
Alan Roger Knaeble, Northome, Forestry	Michael Edward Zins, Nicollet, Agri- culture

COLLEGE OF EDUCATION

Bachelor of Science

Sandra Jean Ahlfors, Alexandria	Sharon Rose Blomquist, Minneapolis
Robert Richard Anderson, B.A., Robbinsdale	Mary Patricia Carlin, B.A., Minne- apolis
Ronald Sandford Bannack, St. Louis Park, WITH DISTINCTION	June Marie Carlson, Minneapolis
Gayle Evelyn Barker, Hopkins	Sheila Ann Berman Charney, Duluth, WITH HIGH DISTINCTION
Judy Kay Bekken, White Bear Lake	Linda Ann Christman, St. Paul, WITH DISTINCTION
Nancy Genevieve Bengtson, St. Paul	Dianne Rustelle Colberg, Minneapolis
Janet Charleen Blehrud, Minneapolis	

Carol Miller Collins, Long Lake
 Audrey Bernice Cox, Robbinsdale
 Floyd Raymond Dahlberg, A.A.,
 Minneapolis
 Constance Ruth Daugherty, Willmar
 Arthur Willard Davis, Jr., Richfield
 Catharine Rae Dicks, St. Paul
 Marcia Mary Neubeiser Donde-
 linger, B.A., Portage Des Sioux,
 Mo.
 Gretchen Elizabeth Dornfeld, White
 Bear Lake
 Virginia Cross Engen, B.A., Minne-
 apolis
 Bonnie Joyce Ott England, Minne-
 apolis
 Barbra Elizabeth Essen, A.A., Minne-
 apolis
 Allan Frank Forsyth, Blue Island, Ill.
 Gunnar Oystein Fosker, Oslo, Norway
 Roxie Harriet Nemer Freedman, St.
 Paul
 Rochelle Eloise Greenberg, Minne-
 apolis
 Bruce Paul Gustafson, St. Paul
 Mary Louise Hadley, A.A., Minne-
 apolis
 Helene Mee Hansen, St. Paul, WITH
 HIGH DISTINCTION
 Elizabeth Caroline Hanson, Crystal
 Aletha Elisa Hawkins, Wells
 Jacquelyn Jill Heacock, Edina
 Lawrence George Hennen, Shakopee
 Gerald Keith Hollom, Minneapolis
 Marianne Holtz, Trimont
 Merideth Ann Hougén, Minneapolis,
 WITH DISTINCTION
 Janet Dreón Jacobson, St. Paul
 Charlene Johnson Jassim, B.A.,
 Minneapolis
 Dennis David Johnson, Richfield
 Joanne Hockaday Johnson, St. Paul,
 WITH HIGH DISTINCTION
 Sandra Rae Kahan, St. Paul, WITH
 DISTINCTION
 Miriam Richter Kelley, B.A., St. Paul
 Virginia Dunlevy Kessler, Redwood
 Falls, WITH DISTINCTION
 Gail Rose Suzanne Kishish, Minne-
 apolis, WITH HIGH DISTINCTION
 Larry Richard Kjeldseth, Volin, S.D.
 Edward John Klanchnik, Minneapolis,
 WITH DISTINCTION
 Ione Jo Klima, Albert Lea, WITH
 DISTINCTION
 Judith Ann Krasner, Minneapolis
 Marcia Elaine Kulbeck, Big Sandy,
 Mont.
 Madeline Esther Kurrasch, B.A.,
 Minneapolis
 Linda Carothers Lack, Minneapolis
 Donald Leroy Lane, Detroit Lakes
 Margaret Joyce Leddin, Benson, WITH
 HIGH DISTINCTION
 William Henry Lieb, A.A., Minne-
 apolis, WITH DISTINCTION
 William Howard Loughmiller, Jr.,
 B.A., St. James
 Charles Harold Lund, St. Paul
 Janet Mary McCarter, Rochester
 Carolyn Ruth McIver, Lowry
 Sally Magnuson Meeks, Minneapolis
 Judith Helen Miernik, Minneapolis
 Karlind Theodore Moller, St. Paul
 Gale Francis Mord, B.A., Minne-
 apolis
 Martha McFarland Murphy, Minne-
 apolis
 Mildred Mae Nezzér, Gibbon
 Mary Prince Noll, Minnetonka
 Barbara Ann Odden, Edina
 Janice Marrietta Oram, Minneapolis
 Jo Ann Priebe Otte, Randolph
 Gregory Antonio Pedersen, A.A.,
 Minneapolis
 John Peter Perkovich, South St. Paul
 Nancy Ross Petersen, Forest Lake
 Deanna Rae Prohofsky, St. Paul
 Bonnie Mae Morrill Pugh, Minne-
 apolis
 Paul Richard Ramseth, Redwood
 Falls, WITH DISTINCTION
 William Robert Robinson, A.A.,
 Minneapolis
 Janice H. Roemhildt, A.L.A., Waseca
 Loretta Jane Rubis, Duluth
 Sandra Jane Salmela, Cokato
 Karen Kathleen Sasek, Columbia
 Heights
 Michael Whitney Scanlon, Minne-
 apolis

Carol Marie Wetzberger Schmalz,
Minneapolis
Mary Lou Hughes Schmitt, St. Paul
Lloyd Louis Scholer, Wayzata
Mary Ruth Walker Sjowall, Albert
Lea
Carole Rae Snyder, International
Falls
Mary Ann Soulsby, Minneapolis,
WITH DISTINCTION
Kathryn Dianne Strain, Cloquet
Mildred Swenson, Fulda

Thomas Lowell Swenson, Redwood
Falls
Margaret Carroll Thomson, B.A.,
Minneapolis
Jean Anne Ulrich, B.A., Rochester
Jane Rehn Von Korff, Minneapolis
Sonja Sandahl Hansen Walker, A.A.,
Tyler
Roy Michael Whitehill, A.A., Minne-
apolis, WITH DISTINCTION
Gloria Jane Wiens, Minneapolis
Paula Vernell Wood, St. Paul

Master of Education

Audrey Mae Engelstad, B.S., Minne-
apolis
Vivian Victoria Hasselberg, B.S.,
Minneapolis

Elsa Karen Johansen, B.S., Ivanhoe
Robert Dean Nelson, B.S., Richfield
Ester Paula Nyjordet, B.A., Minne-
apolis

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

Bachelor of Science

Diane Allred, St. Paul, Home
Economics Education
Judy Kay Oukrop, Minneapolis,
Home Economics Education
Jane Ellen Plihal, Hutchinson, Home
Economics Education, WITH HIGH
DISTINCTION

Martha Jean Soeder, Richfield, Home
Economics Education
John Bennett Swanson, Cokato,
Agricultural Education

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

James Carl Aamot, Brainerd
Russell Bennett Alberg, New Brighton
Gerald Reuben Anderson, Upsala
Jon Charles Bell, Minneapolis
Robert Groves Benjamin, Minneapolis

John Paul Bohach, Minneapolis
Thomas Wilbert Busse, Chicago, Ill.
Patrick Louis Dillon, B.A., Irving,
Tex.
Glen James Dobson, Minneapolis

Marvin Jerome Eickhoff, A.A.,
 Rochester
 Charles David Fenrick, Truman
 David Ralph Fischer, Brainerd
 John Paul Forberg, St. Paul
 Darrel Wayne Froland, Montevideo
 Bruce Myron Geary, Red Wing
 Daniel John Guider, Jr., St. Paul
 Courtland Otto Haugen, A.A.,
 Henning
 Dennis L. Helgoe, Minneapolis
 Richard Hilton Hoffman, Red Wing
 Stephen Garfield Hoiland, Luverne
 Kathleen Ellen Hurley, North Oaks
 Donald LeRoy Irgens, Glenwood
 Karleen Eloise Johnson, Edina
 Rudolph J. Kalan, Ely
 David Allen Krahn, Warroad
 William Earl Krueger, A.A., Austin,
 WITH DISTINCTION
 Robert Francis Kummer, Hastings
 Tor Hjelmaas Larsen, Haugesund,
 Norway
 Gary Lowell Larson, Dexter
 Jose Angel Lopez, Minneapolis
 David Charles Lothner, Red Wing
 Glenn Edward Mahler, Waseca
 Gary Neal McKinley, Redwood Falls
 Jennings Dugal McLellan, Jr., St. Paul

William Arthur McNally, Grants-
 burg, Wis.
 Thomas Martin Newinski, Minne-
 apolis
 Dean Walton Nordahl, Minneapolis
 Leonard Orville Oleson, St. Paul
 Wayne Jeffrey Overbagh, Rochester
 Joseph Thomas Peterson, Northfield
 Gary Edward Polaczyk, Minneapolis
 David Bruce Rose, Minneapolis
 Roland Raymond Rosebrock, A.A.,
 St. Paul
 William James Schnellman, Minne-
 apolis
 Dale Henry Scott, Bird Island
 Dewayne Gene Sedlacek, Radium
 Cary Michael Shaich, Minneapolis
 Gayle E. Smith, A.L.A., St. Paul
 Joseph Leo Spurrier, St. Paul, WITH
 HIGH DISTINCTION
 Gerry Odell Sweet, Minneapolis
 Rand Steven Uner, Minneapolis
 Gary Erling Utoft, Tyler
 John William Vandermyde, Minne-
 apolis
 Aaron Foerst Wahlin, A.A., Minne-
 apolis
 Knute LeRoy Wevley, Morris

Bachelor of Science in Economics

Arthur Allan Anderson, Montevideo

Lawrence Earnest Gaylord, St. Paul

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

Bachelor of Agricultural Business Administration

Owe Martin Gerhard Bergh, Malmo,
 Sweden
 John Martin Bruegger, Wabasha
 Paul Leonard Collins, Revere

Clyde Geoffrey Swenson, Scandia
 Larry John Wipf, Windom, WITH
 HIGH DISTINCTION

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Thomas Carl Olson, Mora

SCHOOL OF DENTISTRY

Doctor of Dental Surgery

Ronald Duane Fletcher, La Crosse, Wis.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

Joan Karen Ekbohm, Litchfield,
Medical Technology*

Sandra Lee Gould, Monticello,
Medical Technology*

Jeanne Marie Kiley, St. Paul, Medical
Technology*

Nancy Joanne Mueller, Hopkins,
Medical Technology*

Patricia Mary Nevius, Richfield,
Medical Technology*

Sharon Ann Ohrmann, Claremont,
Medical Technology*

Rosalie Constance Rocchio, Hibbing,
Medical Technology*

Eugene Isaac Saltzer, B.A., Los
Angeles, Calif., Medicine

Linda Carol Waters, Minnetonka,
Medical Technology*

Master of Public Health

Joan Mary Boas, B.S., Seattle, Wash.

Wirat Hutangkura, B.S., Bangkok,
Thailand

Helen Rattray Murray, B.S., Salem,
Ore.

Ann Marie Poswistilo, B.S.N., West
Easton, Pa.

Shirley Ann Ross, B.S.N., Indian-
apolis, Ind.

Nazih Mohammed Shalbak, B.S.,
Jordan

* These degrees are conferred subject to the completion of practical work prior to March 20, 1965.

GRADUATE SCHOOL

Master of Arts

Anne Marie Aanden, Minneapolis

B.A. *summa cum laude* '56, Concordia College. Major: English. Minor: English (American Literature). Thesis: The Place-Names of Polk County, Minnesota.

Helen Marie Allenson, Vining

B.A. *cum laude* '61, Concordia College. Field of Concentration: Curriculum and Instruction.

Marylin Rose Anderson, St. Paul

B.S.P.T. '59, University of Minnesota. Field of Concentration: Physical Education.

Betty Bjordahl Bakkum, Mountain Iron

B.S. with honors '61, St. Cloud State College. Field of Concentration: Educational Psychology.

Donald Dean Baustian, Staples

B.S. '50, University of Minnesota. Field of Concentration: Agricultural Education.

Thomas Charles Behan, Rochester

B.S. '57, Winona State College. Field of Concentration: Curriculum and Instruction.

Jean Marian Belden, Minneapolis

B.S. with distinction '60, Cornell University. Field of Concentration: International Relations.

Fred Paul Berndt, St. Paul

B.S. '54, University of Minnesota. Field of Concentration: Industrial Education.

Bahir Mehmet Bilgin, Ankara, Turkey

B. of Adm. Sc. with high honors '62, Middle East Technical University (Turkey). Field of Concentration: Economics.

Raymond Thomas Blacklock, Edmonton, Alberta, Canada

B. of Educ. '56, University of Alberta. Field of Concentration: Curriculum and Instruction.

Gordon Eugene Bock, Wheaton

B.S.B.A. *cum laude* '55, Macalester College. Field of Concentration: Educational Psychology.

Judy Ann Branscom, Fort Madison, Iowa

B.A. '61, State College of Iowa. Field of Concentration: Library Science.

Marilyn Irene Brockmeier, Newton, Mass.

B.S. '60, Cornell University; B.S. '62, University of Minnesota. Field of Concentration: Home Economics.

John Edwin Buegel, Minneapolis

B.A. '57, Concordia Theological Seminary. Field of Concentration: Zoology.

Vesta Lydia Buetow, Cadott, Wis.

B.A. '45, University of Dubuque. Field of Concentration: Physical Education.

Charles Joseph Burbach, St. Paul

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

Andrew John Burgess, St. Paul

B.A. *summa cum laude* '58, St. Olaf College. Major: Philosophy. Minor: Greek. Thesis: The Proof From Contingency of the Existence of God in the Philosophy of Franz Brentano.

Tom Buttrey, Minneapolis

B.S. '61, B.S. '62, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Lorene Mae Candor, Minneapolis

B.A. '54, Morris Harvey College; B.S. Elem. Ed. *cum laude* '57, Macalester College. Field of Concentration: Curriculum and Instruction.

Judith Eleanor Carls, Minneapolis

B.M. with highest honors '62, Wheaton College. Field of Concentration: Music.

Ralph Einar Carlson, Clinton, Wis.

B.A. '54, Bethel College. Field of Concentration: Curriculum and Instruction.

Robert Alfred Carlson, New Brighton

B.S. '52, Moorhead State College. Field of Concentration: Educational Psychology.

Nadia Margaret Christensen, Minneapolis

B.A. *magna cum laude* '59, Augsburg College. Field of Concentration: Comparative Literature.

Richard Yo Chuang, Taipei, Taiwan, China

B.A. in Law '61, National Taiwan University (China). Field of Concentration: International Relations.

Thomas William Clark, St. Paul

B.A. '62, College of St. Thomas. Field of Concentration: Latin.

Ronald Dennis Cohen, Los Angeles, Calif.

B.A. '62, University of California. Major: History. Minor: English. Thesis: Forgotten Founder: William Coddington of Rhode Island.

Harry Thomas Collins, St. Paul

B.A. '55, Macalester College. Field of Concentration: Curriculum and Instruction.

Larry Lee Collins, Taylors Falls

B.A. '62, B.S. '62, University of Minnesota. Field of Concentration: Spanish.

Stephen Peter Collins, Spring Valley

B.A. '60, St. Mary's College. Field of Concentration: Educational Administration.

William Wallace Conley, St. Paul

B.S. *magna cum laude* '58, Nyack Missionary College. Major: Anthropology. Minor: Linguistics and Comparative Philology. Thesis: A Preliminary Study of the Indonesian Forge.

William Pendleton Cooke, Orlando, Fla.

B.A. '58, Rollins College. Field of Concentration: Spanish.

Lawrence William Copithorne, Cochrane, Alberta, Canada

B.Sc. '62, University of Alberta. Field of Concentration: Economics.

Ruth Harriet Schlagenhauf Crandall, Edina

B.S. '63, University of Minnesota. Field of Concentration: Library Science.

Thomas Edward Crepeau, St. Paul

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

Romeo Clarence Cyr, Red Lake Falls

B.S. '62, University of Minnesota. Field of Concentration: Agricultural Education.

Claribel D. Darr, Hopkins

B.A. '38, Lawrence College. Field of Concentration: Museology.

Robert Allen De Young, Rochester

B.S. '56, Winona State College. Field of Concentration: Library Science.

Stephen Charles Dodge, New Brighton

B.A. '63, University of Dubuque. Major: History. Minor: Political Science. Thesis: The Peace Corps in Venezuela.

John Dudley Downs, Two Harbors

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

Sharon Lee Dunne, Vesta

B.S. with special honors '58, Mankato State College. Field of Concentration: English.

George William Egerton, Winnipeg, Manitoba, Canada

B.A. '63, University of Manitoba. Field of Concentration: History.

Richard Sanford Elster, Bloomington

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

Michael Charles Emery, Minneapolis

B.A. '62, University of Minnesota. Field of Concentration: Journalism.

Robert Louis Eue, Wabasso

B.S. '60, College of St. Thomas. Field of Concentration: Curriculum and Instruction.

Dorothy Ann Cairns Evans, St. Paul

B.S. with high distinction '60, University of Minnesota. Field of Concentration: Educational Psychology.

Sandra Jean Evers, Davenport, Iowa

B.S. '60, Iowa State University. Field of Concentration: Home Economics.

Malte Michael Faber, Duesseldorf, Germany

Free University of Berlin (Germany). Field of Concentration: Economics.

Daniel Joseph Fiedler, Minneapolis
B.A. '50, College of St. Thomas. Field of Concentration: Educational Administration.

Vernon Wilbur Fredeen, Minneapolis
B.S. with distinction '59, University of Minnesota. Field of Concentration: Industrial Education.

Karen Jeannine Garvin, Janesville, Wis.
B.A. cum laude '61, St. Olaf College. Major: Speech and Theatre Arts. Minor: Educational Psychology. Thesis: Billy Graham in Minneapolis, 1961: A Study in Audience Adaption.

Richard Allyn Genck, St. Paul
B.S. with distinction '56, University of Minnesota. Field of Concentration: Educational Administration.

Marjorie Jane Ginn, St. Paul
B.A. '61, Hamline University. Field of Concentration: Library Science.

Roy Ira Godfrey, Jr., Minneapolis
B.S. '51, University of Minnesota. Field of Concentration: Industrial Education.

Lane David Grant, Rochester
B.A. '56, Luther College. Field of Concentration: Education.

Janet Gieseking Grottodden, Fort Wayne, Ind.
B.S. '62, Purdue University. Field of Concentration: Educational Administration.

Fred Richard Hagen, Minnetonka
B.A. '58, Hamline University. Field of Concentration: Curriculum and Instruction.

William Otto Haldy, Minneapolis
B.S. '50, Mankato State College. Field of Concentration: Physical Education.

Robert Eugene Hallquist, St. Paul
B.A. '58, Hamline University. Field of Concentration: Music Education.

Richard Walter Hansink, Lynwood, Calif.
B.A. '62, University of California. Field of Concentration: History.

Betty Ruth Mattson Hardle, Coon Rapids
B.S. with distinction '58, University of Minnesota. Field of Concentration: Educational Psychology.

Phyllis June Harrington, St. Paul
B.S. '51, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Lawrence Frank Helt, Mohall, N.D.
B.S. '55, North Dakota State University. Field of Concentration: Agricultural Education.

John Arthur Hennen, Minneapolis
B.S. '60, University of North Dakota. Field of Concentration: Psychology.

Clark Gilbert Hilden, Forest Grove, Ore.
B.A. '62, University of Oregon. Field of Concentration: Geography.

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

Ned Joseph Hogan, New Orleans, La.
B.S. cum laude '60, St. Michael's College. Field of Concentration: Educational Administration.

William Edward Hohenhaus, Jackson
B.S. '60, University of Minnesota. Field of Concentration: Agricultural Education.

Ragnar Holen, Oslo, Norway
Diploma '61, University of Oslo (Norway). Field of Concentration: Speech and Theatre Arts.

Kent Alfred Holliday, St. Paul
B.A. magna cum laude '62, Hamline University. Major: Music. Minor: English. Thesis: Cantata on Poems into Darkness.

Richard Rollins Hulbert, Minneapolis
B.A. '31, Carleton College. Field of Concentration: Curriculum and Instruction.

Jane Mitchell Huntington, Long Lake
B.A. '54, University of Minnesota. Major: Psychology. Minors: Mathematics and Philosophy. Thesis: Information Requirements Necessary for Control and Display to Obtain Stability and Controllability of a Six-Degree-of-Freedom Problem.

Bruce Gordon Iverson, St. Paul

B.A. '62, Hamline University. Major: Music. Minor: Sociology. Thesis: Symphony No. I.

Joseph Martin Jacoby, Riverton, N.J.

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

John Fred Januschka, Winona

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

Valija Jaunlinins, Minneapolis

Graduate '48, University of Heidelberg (Germany). Field of Concentration: German.

Philip Murray Johnston, Mapleton

B.S. '51, Mankato State College. Field of Concentration: Industrial Education.

Amy Sprague Jonsson, Minneapolis

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

Ruta Inara Kalnins, Minneapolis

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

Yoon Hough Kim, Pusan, Korea

LL.B. '58, Dong Ah University (Korea). Major: Sociology. Minor: Social Work. Thesis: Social Reality and Ideology in Communist China: A Study in Ideological Tension.

Andrew Arthur King, St. Paul

B.A. '59, University of Minnesota. Major: Speech and Theatre Arts. Minor: Sociology. Thesis: A Study of the Relations Between Critical Thinking and Listening Comprehension.

Christian Herbert Koch, Milwaukee, Wis.

B.A. '59, Northwestern College. Field of Concentration: Music.

Richard Barnell Koch, St. Louis Park

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

Eileen Casserly Kordahl, Mahtomedi

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

Walter Roger Kranz, St. Paul

B.S. in Bus. Ed. '57, College of St. Thomas. Field of Concentration: Curriculum and Instruction.

Armondo Paul Lanari, Virginia

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

Chuen-mei Lee, Republic of China

B.A. in Econ. '61, National Taiwan University (China). Field of Concentration: Economics.

Darel John Leopold, Minneapolis

B.S. '62, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Francis Anthony Lonsway, Chaska

B.A. '61, Dayton University; B.A. '63, Assumption Seminary and College. Field of Concentration: Educational Administration.

Anthony Stevens Lord, Eau Claire, Wis.

B.A. '61, University of Minnesota. Major: Anthropology. Minor: Sociology. Thesis: Some Aspects of Lexeme Lists in Relation to Glot- tochronological and Lexicostatistical Studies.

Mae Jeannette Lundblad, Lowry

B.S. '56, University of Minnesota. Field of Concentration: Educational Psychology.

John Thomas Lynch, St. Cloud

B.A. '57, St. John's University. Field of Concentration: Educational Psychology.

Dorothy A. Magnuson, Minneapolis

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

William Gust Makela, Duluth

B.A. *magna cum laude* '62, University of Minnesota. Major: Sociology. Minor: Social Work. Thesis: Politics, Family, and Personality.

Erma Ellerbreek McGuire, St. Paul

B.S. with distinction '59, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Joshua Sisia Meena, Moshi, Tanganyika

B.A. '63, Augsburg College. Field of Concentration: History.

Anjali Dhawal Mehta, Baroda,
Gujarat, India

B.Sc.(Home) '58, M.Sc.(Home) '60, Maharaja Sayajirao University of Baroda (India). Major: Child Psychology. Minors: Educational Psychology and Sociology. Thesis: Debilitating and Facilitating Anxiety as Predictors of Academic Grades in Senior High School.

Dhawal Mehta, Baroda, Gujarat, India
B.Com. '59, M.Com. '62, Maharaja Sayajirao University of Baroda (India). Field of Concentration: Economics.

Terry Bernard Milostan, Minnetonka
B.A. '56, University of Notre Dame. Field of Concentration: English.

Katharine Westphal Monfils, Minneapolis
B.S. '52, Wisconsin State College (Oshkosh). Field of Concentration: Curriculum and Instruction.

Susannah Harlan Moninger, Glencoe, Ill.
B.A. with distinction '61, University of Rochester. Field of Concentration: Psychology.

James Michael Moore, Minneapolis
B.A. cum laude '62, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Small Sample Power of Some Asymptotically Optimum Rank Tests.

Hattie Woods Moreland, Minneapolis
B.S. '55, Prairie View Agricultural and Mechanical College. Field of Concentration: Educational Psychology.

Ernesto Enrique Moreno, Minneapolis
Diploma '45, University of Havana. Field of Concentration: Spanish.

Willard Clarence Nauman, Northfield
B.S. with high distinction '58, University of Minnesota. Field of Concentration: Agricultural Education.

Gerald Owen Nelson, St. Paul
B.A. '61, Northwest Nazarene College. Field of Concentration: Music.

Laila Predmore Nelson, Rochester
B.A. magna cum laude '63, University of Minnesota. Field of Concentration: Library Science.

Betty Anne Ohrt, Regina, Saskatchewan, Canada

B.S. '55, University of Saskatchewan. Field of Concentration: Educational Psychology.

Don Roger Okerson, Osseo
B.S. '57, St. Cloud State College. Field of Concentration: Curriculum and Instruction.

Bernice Z. Parks, Minneapolis
B.S. '49, University of Chicago. Field of Concentration: Library Science.

Erik Charles Paul, Oslo, Norway
B.A. '63, University of Minnesota. Field of Concentration: French.

Daniel Merle Pearson, Lindsborg, Kan.
B.A. cum laude '63, Bethany College. Major: History. Minor: Political Science. Thesis: Swedish Immigrants and the Early Populist Movement in Kansas.

Marian Josephine Peck, Excelsior
B.S. '52, University of Minnesota. Field of Concentration: Music Education.

John Charles Peterson, Chisago City
B.S. '57, Gustavus Adolphus College. Field of Concentration: Educational Administration.

Joyce Elaine Peterson, Albert Lea
B.S. '51, Winona State College. Field of Concentration: Physical Education.

Martin Quigley Peterson, Madison, Wis.
B.A. '59, University of Minnesota. Major: Anthropology. Minor: Sociology. Thesis: The Estimation of Relationship and Biological Distance Between Selected Minnesota Prehistoric Indian Groups.

Stanley John Peterson, Lake Crystal
B.S. '49, University of Minnesota. Field of Concentration: Industrial Education.

Lila Mae Pineles, Beloit, Wis.
B.A. '39, Macalester College. Field of Concentration: Library Science.

William Dewey Reber, Minneapolis
B.A. magna cum laude '52, Gustavus Adolphus College. Field of Concentration: Speech and Theatre Arts.

Harold Omer Reeves, Milford, Ill.

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

Florence Charlotte Reinertson, Minneapolis

B.S. '58, South Dakota State University. Field of Concentration: Educational Psychology.

Ralph Lee Vurne Rickgarn, Hadley

B.A. *cum laude* '60, University of Minnesota. Major: Political Science. Minor: Area Studies: Russian. Thesis: Eichmann and International Law.

Dale Jerome Roffers, Minneapolis

B.A. '61, University of Minnesota. Field of Concentration: Educational Psychology.

Roger Alan Rood, Plymouth, Mich.

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

Robert Wayne Rose, Minneapolis

B.A. '49, Macalester College. Field of Concentration: Educational Administration.

Dorothy Mae Ruth, Robbinsdale

B.S. '45, Iowa State University. Field of Concentration: Curriculum and Instruction.

Jerrold Allan Saastad, Fergus Falls

B.A. *cum laude* '56, Augsburg College. Field of Concentration: English.

Gertrude Elizabeth Scheller, St. Paul

B.S. '50, College of St. Catherine; M.Ed. '57, University of Minnesota. Field of Concentration: Psychology.

Donna Anderson Schlorf, Minneapolis

B.A. *cum laude* '55, Augsburg College. Field of Concentration: Physical Education.

Elizabeth Scully, Bottineau, N.D.

B.A. '63, University of North Dakota. Field of Concentration: Library Science.

Ronald Orlando Serum, Wheaton

B.S. '54, Moorhead State College. Field of Concentration: Educational Psychology.

James Albert Shults, Minneapolis

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

Sommai Simargool, Bangkok, Thailand

B.Eng.(Elec.) '58, Chulalongkorn University (Thailand). Field of Concentration: Industrial Education.

Morton Sipress, Brooklyn, N.Y.

B.A. '61, City College of New York. Major: Political Science. Minor: History. Thesis: Congressional Committee Staffs in the Legislative Process.

Sister Patrick Collins, St. Paul

B.A. '56, College of St. Catherine. Field of Concentration: English.

John William Smaby, Minneapolis

B.S.L. '54, University of Minnesota. Major: Philosophy. Minor: Political Science. Thesis: Some Problems with Treating the Political Organization as a "Means" for Controlling Social Conflict.

Sheldon Alan Sper, Rochester, N.Y.

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

Cornelia Mae Squibb, Morton

B.S. '55, Mankato State College. Field of Concentration: Curriculum and Instruction.

Eugene Joseph Stelman, Richfield

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

Michael Christopher Stratford, Staten Island, N.Y.

B.A. '62, Harpur College. Major: Political Science. Minor: Philosophy. Thesis: Nationalism in Modern Political Theory.

Burton Levi Sundberg, Isanti

B.S. '52, St. Cloud State College. Field of Concentration: Library Science.

Charlotte Miller Taplin, St. Paul

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

Walter John Targ, St. Paul

B.Mus. with honors '44, New England Conservatory of Music. Field of Concentration: Music.

Connie Mae Thompson, Olympia, Wash.

B.A. in Educ. '59, Pacific Lutheran University. Field of Concentration: Educational Psychology.

Kathryn Jean Townsend, Minneapolis
B.S. '50, University of Minnesota. Field of Concentration: Curriculum and Instruction.

Joe Allen Trammell, Byron
B.S. '55, South Dakota State College. Field of Concentration: Agricultural Education.

Beatrice M. Undine, Minneapolis
B.S. '28, University of Minnesota. Field of Concentration: Educational Psychology.

Dwain Norris Vangsness, Adams
B.S. with distinction '58, University of Minnesota. Field of Concentration: Agricultural Education.

Nicolás Vazquez-Torres, Monterrey, Mexico
Diploma '62, Institute of Technology in Monterrey (Mexico). Major: Industrial Relations. Minors: Business Administration and Sociology. Thesis: A Comparison of Two Approaches to Factor Weighting in the Point System of Job Evaluation.

Harriet Erika Viksna, Minneapolis
B.A. *summa cum laude* '61, Augustana College. Field of Concentration: German.

Earl Lindall Vitalis, Jr., Minneapolis
B.B.A. '62, University of Minnesota. Field of Concentration: Industrial Relations.

Fraine Eugene Whitney, Minneapolis
B.A. '63, University of Minnesota. Major: Sociology. Minor: Educational Psychology. Thesis: An Experimental Test of the Theory of Complementary Needs in Mate Selection.

Felix Donald Wirz, Basel, Switzerland
B.A. '62, Jamestown College. Field of Concentration: German.

Caroline Mary Wolf, Minneapolis
B.A. '62, College of St. Catherine. Major: Political Science. Minor: History. Thesis: Republican Party Activity in Minnesota's Non-partisan Legislative Politics.

Farida I. Youssef, Alexandria, Egypt
B.A. '59, University of Minnesota. Major: Library Science. Minor: Curriculum and Instruction. Thesis: Problems in the Administration and Organization of Public Libraries in the United Arab Republic: A Case Study of the Alexandria Municipal Library.

Carolyn Jean Zahn, Sturgeon Bay, Wis.
B.A. '62, University of Wisconsin. Major: Child Psychology. Minor: Educational Psychology. Thesis: The Effects of Observing Responses on Discrimination Learning Under Delayed Reinforcement.

John Paul Zdechlik, Minneapolis
B.S. '60, University of Minnesota. Major: Music. Minor: Education. Thesis: Symphony for Winds.

Master of Arts in Public Administration

Elwood Wayne Drehmel, Edina
B.S. in Econ. '58, University of Minnesota. Major: Public Administration. Thesis: A Statistical Analysis of the Relationship Between Assessor's Values and the Market Value of Minnesota Real Property.

Winston Edward Folkers, Lansing, Mich.
B.A. *cum laude* '57, Hamline University. Major: Public Administration. Thesis: Transitions in Urban Renewal.

Robert Martin Hammel, Rosemount
B.A. '54, University of Minnesota. Field of Concentration: Public Administration.

Master of Business Administration

Roger E. Earle, St. Paul
B.B.A. with distinction '61, University of Minnesota. Field of Concentration: Business Administration.

David Miller Gilman, Minneapolis
B.B.A. '61, University of Minnesota. Field of Concentration: Business Administration.

Robert Hicok Healy, Minneapolis

B.A. cum laude '57, College of St. Thomas.
Field of Concentration: Business Administration.

**Peter William Homes, Appleton,
Wis.**

B.S. '63, Marquette University. Field of Concentration: Business Administration.

**Dhawal Mehta, Baroda, Gujarat,
India**

B.Com. '59, M.Com. '62, Maharaja Sayajirao
University of Baroda (India). Field of Concentration: Business Administration.

Wesley Claude Sampson, Terril, Iowa

B.C.S. '50, Drake University. Field of Concentration: Business Administration.

Master of Forestry

**Robert Hector Lamont, Winnipeg,
Manitoba, Canada**

B.S.F. '61, University of British Columbia.
Field of Concentration: Forestry.

Master of Science

Syed Mahboob Ali, Hyderabad, India

B.Sc. (Agric.) '49, Osmania University (India).
Field of Concentration: Genetics.

**Fikry Abdel Halim Khalil Badawi
Zagazig, United Arab Republic**

B.Sc. '59, A'in Shams University (Egypt).
Major: Analytical Chemistry. Minor: Physical
Chemistry. Thesis: Electrochemical Studies in
Anhydrous Ethylenediamine.

Robert Howard Callender, St. Paul

B.A. '63, University of Minnesota. Major:
Physics. Minor: Mathematics. Thesis: Neutron
Monitor and High Altitude Ion Chamber
Observations During 1954-1965 Solar Cycle.

**Martha Kaiser Canner, Baltimore,
Md.**

B.A. *summa cum laude* '61, Hood College.
Major: Microbiology. Minor: Agricultural Bio-
chemistry. Thesis: The Effects of Mutagenic
Agents on *Bacillus Subtilis* Deoxyribonucleic
Acid *In Vitro*.

**Isabel Ling Chan, Saigon, South
Vietnam**

B.Sc. '59, Taiwan Provincial Cheng Kung
University (China). Major: Architecture.
Minor: Civil Engineering. Thesis: A Chinese
Opera House for Saigon-Cholon, South Viet-
nam.

**Amarjit Singh Chawney, New Delhi,
India**

B.Arch. '61, University of Delhi (India).
Major: Architecture. Minor: Art. Thesis:
Civic Center for Delhi.

William Joseph Cooney, Minneapolis

B.A. '60, University of Minnesota. Major:
Microbiology. Minor: Agricultural Biochemis-
try. Thesis: Studies on Streptomycetes: Ana-
lyses of Total Cell Proteins and the Cell Wall.

**Richard James Dancey, Plymouth,
England**

B.Sc. (Hons.) '55, University of Nottingham
(England). Field of Concentration: Agricul-
tural Economics.

**James Frederick DiMarco, Racine,
Wis.**

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

Bernice Mary Doyle, Madison, Wis.

B.S. in Nurs. '63, State University of Iowa.
Field of Concentration: Public Health.

Arrilla B. Fedde, Manhattan, Kan.

B.S. '57, Kansas State University. Major: Vet-
erinary Bacteriology. Minor: Physiological
Chemistry. Thesis: Hematological Response to
Infectious Sinusitis in Turkeys.

Daniel Rinde Field, Minneapolis

B. of Phys. with distinction '61, University
of Minnesota. Field of Concentration: Physics.

Sandra B. Galitski, Shenandoah, Pa.

B.S. '62, University of Delaware. Major: Or-
ganic Chemistry. Minor: Inorganic Chemistry.
Thesis: A Study of the Action of Fuming
Nitric on 1-Carbethoxypiperidine: Synthesis of
3 Substituted Piperidines.

Norman W. Gill, Duluth

B.A. *cum laude* '61, University of Minnesota. Major: Organic Chemistry. Minor: Analytical Chemistry. Thesis: Reaction of 1-Cyclopentyl Phenyl Sulfide with Dichlorocarbene.

Josephine Louise Graham, Jacksonville, Fla.

B.S. in Nurs. Ed. '60, Florida State University. Field of Concentration: Public Health.

Stephen Jay Harr, New York City, N.Y.

B.A. '62, Hunter College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: A Vinylogous Plancher Rearrangement: In the Sidechain of a 3-Vinylindole.

Sato Hashizume, Portland, Ore.

B.S. '55, University of Oregon. Field of Concentration: Public Health.

Rita Lucille Hoeschen, Denver, Colo.

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

Julian James Hook, Robbinsdale

B.S.B. '63, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: The Evolution of Department Store Retail Sales in the Metropolitan Twin Cities From 1890 to 1964 and Predictions of the Future Department Store by 1980.

Trilochan Singh Hora, New Delhi, India

B.Sc.(Agric.)(Hons.) '54, University of Delhi (India). Major: Soil Science. Minor: Plant Pathology. Thesis: Nitrification by Soil Fungi.

John Clifton Huneke, Hanford, Calif.

B.S. *summa cum laude* '61, University of Redlands. Major: Physics. Minor: Mathematics. Thesis: The Diffusion of Rare Gases in the Bruderheim Meteorite.

Anwar Iqbal, Sialkot, West Pakistan

B.Sc.(Hons.) '59, M.Sc. '60, University of Karachi (Pakistan). Field of Concentration: Botany.

Daniel Lyle Jensen, Hutchinson

B.A. *magna cum laude* '62, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: The Financial Policy of Rural Electric Cooperatives.

Young Hee Kim, Seoul, Korea

B.S. '61, Ewha Womans University (Korea). Field of Concentration: Zoology.

William Patrick Knox, Oceanside, N.Y.

B.A. '57, Dartmouth College. Major: Geophysics. Minor: Physics. Thesis: A Comparison of the Schlumberger and Wenner Geoelectrical Sounding Systems.

Chin-chao Koh, Hwaiian, Kiangsu, China

B.S. '48, National Central University (China). Field of Concentration: Forestry.

Le Van Ky, Saigon, Vietnam

Certificate '45, University of Hanoi (Vietnam). Field of Concentration: Forestry.

John Gen Lee, Taichung, Taiwan, China

B.S. in Agric. '55, Taiwan Provincial College of Agriculture (China); M.S. '61, Rutgers University. Field of Concentration: Biostatistics.

Richard Allen Leo, Phoenix, Ariz.

B.S. with high distinction '61, Arizona State University. Major: Physics. Minor: Electrical Engineering. Thesis: Measurements of Cosmogenic Argon Concentrations in Parts of the Iron Meteorites Carbo and Grant and Comparison to C1³⁶ Concentrations.

Barbara Berry Leonard, St. Paul

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

Richard Phillip Linnell, Minneapolis

B.S.B. '62, University of Minnesota. Major: Business Administration. Minor: Speech and Theatre Arts. Thesis: The Marketing of Encyclopedias.

Howard Hunghsin Lo, Hsinchu, Formosa, China

B.S. '60, National Taiwan University (China). Field of Concentration: Geology.

Murli Manohar, Jodhpur, India

B.V.Sc.&A.H. '60, University of Rajasthan (India). Field of Concentration: Veterinary Bacteriology.

Robert Kingsley Maxwell, Winona

B.A. '60, University of Minnesota. Major: Soil Science. Minor: Physics. Thesis: Temperature Measurements and the Calculated Heat Flux in the Soil.

Phillip Lowden Miller, Chicago, Ill.

B.A. '60, Middlebury College. Field of Concentration: Organic Chemistry.

Carl Ames Mohn, Red Wing

B.S. '60, University of Minnesota. Major: Forestry. Minor: Genetics. Thesis: A Study of Techniques for Overcoming Basswood Seed Dormancy.

Arvid Monroe Monson, Pequot Lakes

B.S. with distinction '59, University of Minnesota. Major: Plant Pathology. Minor: Genetics. Thesis: Infection of Potato Tubers by *Phytophthora Infestans*.

Anil Chandra Rae, Lucknow, India

B.Sc.(Hons.) '62, University of Lucknow (India). Major: Physics. Minor: Mathematics. Thesis: The Problem of the Boundary in Landau Diamagnetism.

Jon Edward Sanger, Minneapolis

B.S. '61, University of Minnesota. Field of Concentration: Botany.

David Bruce Sauer, Akron, Ohio

B.A. '61, Kent State University. Major: Plant Pathology. Minor: Entomology. Thesis: Microbiological Studies of Wheat Stored at Moisture Contents of 12-16 Percent.

Hugh Selig Seidman, Brooklyn, N.Y.

B.S. *cum laude* '61, Polytechnic Institute of Brooklyn. Major: Physics. Minor: Mathematics. Thesis: A Perturbation Calculation of the Ground State Energies of Solid H_2, D_2 , and the Noble Gases.

Abdel-Rahim Hashim Shehata,
Meet-Miragga, Egypt

B.Sc.(Agric.) '59, University of Cairo (Egypt). Major: Genetics. Minor: Agricultural Plant Physiology. Thesis: Fatty Acid Composition in Flax Seed Oil Genetic Speculation.

Sister M. Baptiste Fish, Rochester

B.A. '50, College of St. Teresa. Field of Concentration: Business Administration.

Sister Sigrid Hutcheson, St. Joseph

B.A. '62, College of St. Benedict. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Studies of Alkylgermanium Compounds with Coordination Number Greater Than Four.

Gene Dale Sokol, Havre De Grace,
Md.

B.S.M.E. with high honors '62, University of Maryland. Field of Concentration: Mechanics and Materials.

Roger Carl Splinter, Stillwater

B.S. '59, Hamline University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Addition Compounds of Oxobis (Acetylacetonato) Vanadium (IV) with Oxygen Donors.

Juergen August Hermann Stobbe,
Landstuhl, Germany

B.S. '51, University of Berlin; M.D. '59, University of Louisville. Major: Pathology. Minor: Hematology. Thesis: Primary Gastric Lymphoma and Its Grades of Malignancy.

Joyce Irene Stuelpnagel, Hartington,
Neb.

B.S. '58, South Dakota State College. Field of Concentration: Public Health.

Robert Charles Sundahl, Jr., Minneapolis

B.S. '58, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: Local Atomic Arrangements in Silver-Lithium Alloys.

Susan Jean Thorud, Lindstrom

B.S. with high distinction '61, University of Minnesota. Field of Concentration: Home Economics.

Charles Dean Tschetter, Fairmont

B.A. '62, Northwestern University. Major: Physics. Minor: Mathematics. Thesis: The Neutral Composition of the Upper Atmosphere From 100 to 200 Kilometers.

Robert Lewis Warner, North Redwood

B.S. with distinction '62, University of Minnesota. Major: Agronomy. Minor: Agricultural Biochemistry. Thesis: Fixation of $C^{14}O_2$ by Alfalfa During Cold Acclimation.

Phyllis Marie Webb, Paw Paw, Mich.
B.S. with honors '57, Michigan State University. Major: Microbiology. Minor: Physiological Chemistry. Thesis: Quantitative Studies on the Normal Bactericidal Antibodies in Maternal Serum, Colostrum, and Newborn Serum of the Pig.

Dennis William Whitson, St. Cloud
B.S. '61, North Dakota State University. Field of Concentration: Physics.

Donald George Young, Rochester
B.S. '53, Carleton College (Canada); M.D.C.-M. '57, McGill University. Major: Pathology. Minor: Hematology. Thesis: A Histopathologic Study of Pituitary Adenomas Associated with Acromegaly.

Jane Tsy-r-Jen Yu, Taipei, Republic of China

B.S. '62, National Taiwan University (China). Major: Organic Chemistry. Minor: Agricultural Biochemistry. Thesis: Reactions of Thietane, Thietane Oxide and Thietane Dioxide with Base.

Cesario Siasoco Zamora, Marikina, Rizal, Philippines

D.V.M. '59, University of the Philippines. Major: Veterinary Anatomy. Minor: Zoology. Thesis: Cytological Studies on the Adrenal Medulla of the Ox.

Master of Science in Aeronautical Engineering

Lelan Ray Jamison, Jr., Hopkins

B.S. with distinction '62, University of Minnesota. Major: Aeronautical Engineering. Minor: Mechanical Engineering. Thesis: Experimental Measurements of the Drag on Spheres in a Low Density, Low Supersonic Flow.

Master of Science in Chemical Engineering

Paul Shang-Hsien Chow, Tainan, Taiwan, China

B.S. '60, Taiwan Provincial Cheng Kung University (China). Major: Chemical Engineering. Minor: Mathematics. Thesis: A Generalized Drag Coefficient-Reynolds Number Plot for Non-Spherical Particles.

Koji Fujita, Ashiya, Japan

B.Eng. '62, Osaka University (Japan). Major: Chemical Engineering. Minor: Mathematics. Thesis: The Effect of Surface Properties on Boiling Heat Transfer.

Benjamin Joe McCoy, LaVale, Md.

B.S.Ch.E. with distinction '63, Illinois Institute of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Drop Size Distributions in Stirred Liquid-Liquid Systems.

John Howard Striegler, Strawn, Tex.

B.S. (Ch.E.) with honors '62, Agricultural and Mechanical College of Texas. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Design and Operation of a Centrifugal Gas-Liquid Separator.

Master of Science in Civil Engineering

Mohamad Younus Bhatti, Pakistan

B.Sc.Eng. '58, University of the Punjab (Pakistan). Field of Concentration: Civil Engineering.

Hak Soon Chang, Seoul, Korea

B.S. in Eng. '50, Seoul National University (Korea). Field of Concentration: Civil Engineering.

Fang Hui Chou, Shanghai, China

B.S. in Eng. '61, National Taiwan University (China). Field of Concentration: Civil Engineering.

John Herges Dahlmeier, Aberdeen,
S.D.

B.S. in Arch. Eng. '58, University of Nebraska.
Major: Civil Engineering. Minor: Mathematics.
Thesis: Experimental Stress Analysis of a Single Cylindrical Shell with Edge Beams.

Jackson B. E sisi, Ikeja, Nigeria

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

George Gregory Hebaus, St. Paul

B.S. with high distinction '60, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: An Experimental Study of the Transition From Full Flow to Open Channel Flow in a Rectangular Conduit.

Wayne Dennis Johnson, Becker

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

Raymond Vance Knutson, Rochester

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

Campbell Hall Steketee, Jr., Salem,
Ore.

B.E. '60, Yale University. Field of Concentration: Civil Engineering.

Master of Science in Dentistry

Nabil Fouad Bissada, Cairo, Egypt

B.D.S. with honors '58, Cairo University (Egypt). Major: Dentistry. Minor: Pathology. Thesis: Histopathological Changes in the Peridontium of Alloxan Diabetic Rats With and Without Local Irritating Factors.

Clyde Danforth Marlow, Clearwater,
Fla.

D.D.S. '58, University of Maryland. Major: Dentistry. Minor: Pathology. Thesis: Sensory Innervation of the Human Tongue.

John Mitchell Grewe, Eau Claire,
Wis.

B.S. '60, D.D.S. '62, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Reasons for Loss of Human Teeth.

Master of Science in Dermatology

Richard Wayne Fardal, Bismarck,
N.D.

B.A. '54, M.D. '58, University of Minnesota. Major: Dermatology. Minor: Pathology. Thesis: Deoxyribonucleic Acid Hypersensitivity in Cutaneous Disease.

Master of Science in Electrical Engineering

Kazutoshi Asano, Hakodate, Japan

B. of Eng. '59, Yamagata University (Japan). Major: Electrical Engineering. Minor: Physics. Thesis: A Study of the Gaseous Anodization of Tantalum.

David Edward Garfin, Minneapolis

B.S. with distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Factors Influencing the Enhanced Mode of Electron Emission from Superconductors.

Henry Earnest Halladay, Minneapolis
B.S. with high distinction '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Excess Noise in Field Effect Transistors.

Audun Hordvik, Hordvik, Norway
Diploma '61, Technical University of Norway. Major: Electrical Engineering. Minor: Mathematics. Thesis: Field Patterns in a Ruby Laser.

Alexander Jakobschuk, Winnipeg, Manitoba, Canada
B.Sc. in Eng. '61, University of Manitoba. Major: Electrical Engineering. Minor: Mathematics. Thesis: High-Frequency Noise in Transistors.

Kirk Henning Johnson, Duluth
B.S. with distinction '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Transistor Noise at High Injection Levels.

Herbert McGlashan Juneau, Edina
B.S. '61, Swarthmore College. Major: Electrical Engineering. Minor: Mathematics. Thesis: Unijunction Transistor Theory.

Paul Arnold Lindfors, St. Paul
B.S.E.E. '62, Stanford University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Numerical Methods in Brune Synthesis.

John David Linnerooth, St. Paul
B.S. with distinction '62, University of Minnesota. Field of Concentration: Electrical Engineering.

Timothy Albert Newman, Minneapolis
B.E.E. '62, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Microwave Magneto-Resistance of Germanium Spheres.

Master of Science in Industrial Engineering

Ali Khalaf Ali Hassan, Heliopolis, Egypt
B.Sc. '60, Ain Shams University (Egypt).
Field of Concentration: Industrial Engineering.

Master of Science in Mechanical Engineering

Wayne Arthur Ebert, Minneapolis
B.S. with distinction '63, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Analysis of Rarefied Gas Flow Through Non-Circular Ducts.

David Carl Peterson, Austin
B.S. with distinction '62, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Experimental Investigation of Laminar and Transition Heat Transfer to Mercury.

Master of Science in Medicine

Richard James Frink, Tama, Iowa
B.S. '51, Iowa State University; M.D. '58, State University of Iowa. Major: Medicine. Minor: Pathology. Thesis: Coronary Calcification and Stenosis: A Clinical-Radiologic-Pathologic Correlative Study.

J. Marshall Garrett, Chattanooga, Tenn.
B.A. '55, University of Chattanooga; M.D. '58, University of Tennessee. Major: Medicine. Minor: Physiology. Thesis: Intraluminal Detection of Electrical Activity of Canine and Human Small Intestine.

Fredric Lee Hildebrand, Neenah, Wis.
B.A. '56, University of Wisconsin; M.D. '60, University of Pennsylvania. Major: Medicine. Minor: Hematology. Thesis: The Absorption of Radioiron From the Intestine of the Adult Rat Utilizing the Technique of Whole-Body Counting.

William Edgar Rawls, Mesa, Ariz.
B.A. '55, Arizona State College; M.D. '58, University of Tennessee. Major: Medicine. Minor: Microbiology. Thesis: Growth and Characterization of Placentally Derived Fibroblasts and Their Potential Use in Virology.

William Arthur Reynolds, Missoula, Mont.
B.A. '52, Montana State University; M.D. '56, Washington University. Major: Medicine. Minor: Pathology. Thesis: A Clinical Pathologic Study of Kaposi's Sarcoma with Particular Reference to Its Relationship to the Reticulo-endothelial System.

Carlo Marcello Veneziale, Philadelphia, Pa.
B.A. '54, Haverford College; M.D.; '58, University of Pennsylvania. Major: Medicine. Minor: Physiological Chemistry. Thesis: Serum Haptoglobin Studies Including a New Modified Method and Its Clinical Application.

Master of Science in Neurosurgery

Paul James Pitlyk, St. Louis, Mo.
B.S. '55, M.D. '59, St. Louis University. Major: Neurosurgery. Minor: Basic Neurologic Sciences. Thesis: Localization of Brain Lesions by I^{131} -Polyvinylpyrrolidone.

Master of Science in Obstetrics and Gynecology

Charles Arthur Field, Rochester
B.A. '42, Cornell College; M.D. '45, University of Iowa. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Small Cell Carcinoma of the Cervix.

Master of Science in Ophthalmology

William Duane Backer, Luverne
B.A. '52, B.S. '54, M.D. '58, University of Minnesota. Major: Ophthalmology. Minor: Biophysics. Thesis: Pupillary Response to Prisms and Fusional Movements.

Richard Donald Cunningham, Rochester
B.S. '57, M.D. '57, University of Minnesota. Major: Ophthalmology. Minor: Biophysics. Thesis: An Evaluation of a Derivative of Hematoporphyrin in the Detection and Management of Intraocular Tumors.

Master of Science in Orthopedic Surgery

Grady S. Clinkscales, Jr., Atlanta, Ga.
B.A. '52, Vanderbilt University; M.D. '56, Emory University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Radioactivity and Osteogenic Sarcoma with Particular Reference to Radium.

D. Ross Halliday, Kenmare, N.D.
B.A. '53, B.S. '55, University of North Dakota; M.D. '57, McGill University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Torn Cervical Ligaments: Necropsy Examination of the Dorsal Ligaments of the Normal Cervical Region of the Spinal Column.

Paul Arthur Reszel, Larchmont, N.Y.
M.D. '54, New York University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Liposarcoma of the Extremities.

Master of Science in Otolaryngology

A. Leonard Zimmerman, Palo Alto, Calif.

B.S. '54, Bucknell University; M.D. '58, University of Pittsburgh. Major: Otolaryngology. Minor: Pathology. Thesis: Histoplasmosis of the Oral Cavity, Pharynx and Larynx.

Master of Science in Radiology

Richard Charles Gasser, Rochester
B.A. '57, Morningside College; M.D. '60, State University of Iowa. Major: Radiology. Minor: Pathology. Thesis: Pulmonary Hamartoma: A Roentgenologic Appraisal.

Walter Eugene Miller, Great Falls, Mont.

B.A. '54, B.S. '58, M.D. '58, University of Minnesota. Major: Radiology. Minor: Pathology. Thesis: Roentgenological Manifestations of Malignant Tumors of the Nasopharynx.

Michael M. Missakian, Los Angeles, Calif.

B.A. '54, University of California at Los Angeles; M.D. '58, University of Southern California. Major: Radiology. Minor: Pathology. Thesis: Mammography in Bilateral Carcinoma of the Breast.

Donald William Sherrick, Springfield, Ill.

B.A. '52, Knox College; M.D. '56, Yale University. Major: Radiology. Minor: Pathology. Thesis: The Roentgenologic Diagnosis of Primary Gastric Lymphoma.

Master of Science in Surgery

Dallas Donald Glick, Mountain Lake
B.S. '50, Bluffton College; M.D. '54, University of Chicago. Major: Surgery. Minor: Pathology. Thesis: Primary Localized Malignant Lymphomas of the Colon and Appendix.

Donald John Vandertoll, Rochester

B.A. '55, Hope College; M.D. '59, University of Louisville. Major: Surgery. Minor: Pathology. Thesis: The Role of Gastric and Esophageal Muscle in Gastroesophageal Competence: An Experimental Study.

Master of Science in Urology

Willy Feinzaig, San Jose, Costa Rica
B.S. '49, University of Costa Rica; M.D. '58, University of Mexico. Major: Urology. Minor: Pathology. Thesis: Multicystic Dysplastic Kidney: A Clinical and Pathological Study of 29 Cases.

Master of Social Work

Edith Rosa Schmidt, Schweinfurt,
Germany

'47, Munich School of Social Welfare for
Women (Germany). Field of Concentration:
Social Work.

Certificate of Specialist in Education

Karin LuAnn Nelson, Minneapolis

B.A. with highest distinction '61, M.A. '64,
University of Minnesota. Field of Concentra-
tion: School Psychological Services.

Richard Charles Rademacher, St. Paul

B.S. '53, St. Cloud State College; M.A. '60,
University of Minnesota. Field of Concentra-
tion: Elementary School Administration.

Doctor of Philosophy

John Cameron Ahart, Tiffin, Ohio

B.A. *magna cum laude* '54, Marietta College;
M.A. '55, University of Illinois. Major: Speech
and Theatre Arts. Minors: German and Scan-
dinavian. Thesis: An Investigation of the Spa-
tial Relationship Between the Actor and the
Audience in Selected Productions of Okhlop-
kov, Reinhardt and Tyrone Guthrie. Major Ad-
viser: Prof. K. L. Graham.

Stanley Jerome Brodsky, St. Paul

B. of Phys. with high distinction '61, Univer-
sity of Minnesota. Major: Physics. Minor:
Mathematics. Thesis: The Radiative Corre-
ctions to the Hyperfine Structure in Hydrogen.
Major Adviser: Prof. D. R. Yennie.

Marion Walter Anders, Alden, Iowa

D.V.M. '60, Iowa State University. Major:
Pharmacology. Minor: Agricultural Biochemis-
try. Thesis: Studies on the Mechanism of the
Inhibition of Drug Metabolism by SKF 525-A
(2-Diethylaminoethyl 2, 2-Diphenylvalerate
HCl) and Related Compounds. Major Ad-
viser: Dr. G. J. Mannering.

Elizabeth Jerabek Cahoon, Sauk
Rapids

B.A. *summa cum laude* '55, University of Min-
nesota. Major: Botany. Minors: Geology and
Zoology. Thesis: Lower Cretaceous Pollen and
Spores From the Southern Black Hills. Major
Adviser: Prof. J. W. Hall.

Richard Dudley Baertsch, Almelund

B.E.E. with distinction '59, M.S.E.E. '61,
University of Minnesota. Major: Electrical Engi-
neering. Minor: Mathematics. Thesis: Noise
in Double Base Diodes. Major Adviser: Prof.
Aldert van der Ziel.

John Paul Campbell, Westside, Iowa

B.S. '59, M.S. '60, Iowa State University. Ma-
jor: Psychology. Minor: Educational Psychol-
ogy. Thesis: The Use and Evaluation of an
Iterative Multiple Regression Technique for
Enhancing the Prediction of Academic Success
by Criterion Grouping. Major Adviser: Prof.
M. D. Dunnette.

Leonard David Bart, Minneapolis

B.A. '54, M.A. '61, University of Minnesota.
Major: Speech and Theatre Arts. Minor:
Journalism. Thesis: An Investigation of the
Relative Comprehensibility of Print and Broad-
cast News as Measured by Cloze Procedure.
Major Adviser: Prof. E. W. Ziebarth.

Donald Arthur Carlson, Duluth

B.A. *cum laude* '58, M.A. '60, University of
Minnesota. Major: History. Minor: Political
Science. Thesis: Great Britain and the Abol-
ition of the Slave Trade to Latin America.
Major Adviser: Prof. J. L. Altholz.

Howard Louis Bissonnette, St. Paul

B.S. '52, College of St. Thomas; M.S. '58,
University of Minnesota. Major: Plant Pat-
hology. Minor: Botany. Thesis: The Effect
of Soil Mycoflora on the Seedling Diseases of
Sugar Beets. Major Adviser: Prof. T. H. King.

Wing-Cheng Chan, Oakland, Calif.

B.S. with honors '60, University of California.
Major: Chemical Engineering. Minor: Mathe-
matics. Thesis: Heat and Mass Transfer Across
Fluid Interfaces in Wave Motion. Major Ad-
viser: Prof. L. E. Scriven.

Tsong-Ming Chen, Chia-yi, Taiwan, China

B.S. in Eng. '56, National Taiwan University (China). Major: Electrical Engineering. Minor: Mathematics. Thesis: Photon Noise in Noisy Light Sources. Major Adviser: Prof. Aldert van der Ziel.

Robert Edgar Coffman, Minneapolis

B.S. with highest honors '53, University of Illinois; M.S. '55, University of California. Major: Chemical Physics. Thesis: A Study of the E_g Ground States of Cr(II) and Cu(II) in MgO by the Method of Paramagnetic Resonance. Major Adviser: Prof. J. E. Wertz.

Harley Cohen, Winnipeg, Manitoba, Canada

B.Sc. '56, University of Manitoba; M.S. '58, Brown University. Major: Mechanics and Materials. Minor: Mathematics. Thesis: A Non-linear Theory of Elastic Surfaces. Major Adviser: Prof. C. N. De Silva.

Soren Franklin Cox, Orem, Utah

B.A. with honors '52, M.A. '56, Brigham Young University. Major: Education. Minor: English. Thesis: A Study of the Teaching of Mass Communication in the Freshman Composition/Communication Course. Major Advisers: Profs. H. B. Allen and S. B. Kegler.

Clifford John Cremers, Minneapolis

B.S. with distinction '57, M.S.M.E. '61, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Spectrometric Measurement of the Temperature Field in an Arc with a Transpiration Cooled Anode. Major Adviser: Prof. E. R. G. Eckert.

Joseph George Cvancara, Minneapolis

B.S. '55, North Dakota State University; M.S. '57, University of Minnesota. Major: Education. Minor: Agricultural Economics. Thesis: Input-Output Relationships Among Selected Intellectual Investments in Agriculture. Major Advisers: Profs. M. J. Peterson and G. I. Swanson.

Dale Curtis Dahl, St. Paul

B.S. '57, M.S. '59, South Dakota State College. Major: Agricultural Economics. Minor: Law. Thesis: Employment and Income in the Agribusiness Sector of the Minnesota Economy. Major Adviser: Prof. D. F. Fienup.

Morton Mace Denn, Paterson, N.J.

B.S.E. with high honors '61, Princeton University. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Optimization of Complex Systems. Major Adviser: Prof. N. R. Amundson.

Craig William Deutsche, Minneapolis

B.S. *summa cum laude* '60, Yale University; M.A. '62, Harvard University. Major: Physical Chemistry. Minor: Mathematics. Thesis: The Transmission of Light Through a Spatially Dispersive Medium. Major Adviser: Prof. C. A. Mead.

James Earl Faulkner, Orem, Utah

B.S. '50, Utah State University; M.S. '52, Kansas State University. Major: Biostatistics. Minor: Mathematics. Thesis: A Stochastic Model for Immunological Experimentation on Spontaneous Mammary Tumors in Inbred Mice. Major Adviser: Dr. R. B. McHugh.

Gilbert Henry Fechner, Fort Collins, Colo.

B.S. '47, M.S. '55, Colorado State College. Major: Forestry. Minors: Botany and Genetics. Thesis: The Reproductive Cycle in *Picea pungens* Engelmann. Major Adviser: Prof. S. S. Pauley.

George Chi-Chien Feng, Minneapolis

B.S. in Eng. '55, National Taiwan University (China); M.S. '62, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Analysis of Certain Two-Dimensional Rolling and Contact Stresses. Major Adviser: Prof. L. E. Goodman.

Joseph Don Fenstermacher, Worthington

B.A. *cum laude* '56, Augustana College; M.S. '59, Michigan State University. Major: Physiology. Minor: Zoology. Thesis: The Osmotic Flow of Water Across the Blood Brain Barrier. Major Adviser: Dr. J. A. Johnson.

Richard Lee Floyd, Pontiac, Mich.

B.S. with honors '60, University of Michigan. Major: Psychology. Minor: Child Psychology. Thesis: Paired-Associate Learning: Relative Contributions of Differentiation and Association. Major Adviser: Prof. J. J. Jenkins.

George Rousetos Gavalas, Athens,
Greece

Chemical Engineer '58, National Technical University of Athens (Greece); M.S.Ch.E. '62, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Analysis of Continuous Reactions and Variational Problems Arising From Chemical Reaction Systems. Major Adviser: Prof. N. R. Amundson.

Sushila Jashansing Gidwani, Bombay,
India

B.Sc.(Hons.) '51, University of Bombay (India); M.B.A. '60, University of Minnesota. Major: Economics. Minor: Business Administration. Thesis: Economic Causes and Effects of Technological Growth: A Case Study of the Petroleum Refining Industry of the United States of America. Major Adviser: Prof. F. M. Boddy.

Theodore Edward Gram, Minneapolis

B.S. in Pharm. '57, M.S. '61, University of Minnesota. Major: Pharmacology. Minor: Physiological Chemistry. Thesis: Some Aspects of the Biochemical Pharmacology of Metaraminol in Rabbits. Major Adviser: Dr. H. N. Wright.

Andrew James Grimes, Pawtucket,
R.I.

B.S. '60, University of Rhode Island; M.B.A. '62, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: The Evaluation of Hogs in Selected Meat Packing Companies. Major Adviser: Prof. R. K. Gaumnitz.

Nathaniel Grossman, Aurora, Ill.

B.S. '58, California Institute of Technology. Major: Mathematics. Minor: Mechanics and Materials. Thesis: Geodesics on Hilbert Manifolds. Major Adviser: Prof. L. W. Green.

Louis Andrew Haak, Stillwater

B.S. in Phy.Ed. '54, College of St. Thomas; M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Educational Administration. Thesis: An Investigation of the Validation Characteristics of Four Statistical Techniques in the Prediction of Certain Educational Achievement Variables. Major Adviser: Prof. R. O. Collier, Jr.

Robert William Hamilton, Jr., Austin,
Tex.

B.A. '51, University of Texas; M.S. '58, Agricultural and Mechanical College of Texas. Major: Physiology. Minor: Biophysics. Thesis: Carbon Dioxide, Oxygen, and Acidity: The Interaction and Independent Effects on Breathing of These Factors in the Arterial Blood. Major Advisers: Drs. E. B. Brown, Jr. and M. B. Visscher.

John Patrick Hanton, St. Paul

B.S. with high distinction '57, M.S.E.E. '59, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Intrinsic Coercive Force of Some Rare Earth Iron Garnets Near the Compensation Temperature. Major Adviser: Prof. A. H. Morrish.

Richard Brant Hart, California, Pa.

B.S. '60, Franklin and Marshall College. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Acidic Rearrangement of Salts of 5-Nitro-6-Substituted-2-Norbornenes. Major Adviser: Prof. W. E. Noland.

William Phillip Helman, Grand
Junction, Colo.

B.S. in Science '58, M.S. '60, California Institute of Technology. Major: Physical Chemistry. Minor: Physics. Thesis: Studies of the Luminescence of Solutions of Benzene and Some Simple Benzene Derivatives. Major Adviser: Prof. Sanford Lipsky.

Joseph William Hernandez, Hato Rey,
Puerto Rico

B.A. '58, M.A. '60, Fordham University. Major: Sociology. Minor: Area Studies: Latin America. Thesis: The Sociological Implications of Return Migration in Puerto Rico: An Exploratory Study. Major Adviser: Prof. R. G. Francis.

Bartholomew Po-chen Hsi, Taichung,
Taiwan, China

Certificate '56, Chinese Government; M.A. '62, University of Minnesota. Major: Biostatistics. Minor: Statistics. Thesis: Some Statistical Aspects of Quality Control in the Clinical Laboratories. Major Adviser: Dr. B. W. Brown, Jr.

Joannes Nguyen Khac Huyen, Dalat, Vietnam

B.A. '57, Ohio Wesleyan University; M.A. '59, Western Reserve University. Major: Political Science. Minor: History. Thesis: The Juridical Status and Functions of Consuls in Recent International Law and Practice. Major Adviser: Prof. C. H. McLaughlin.

David Allan Jackisch, Oshkosh, Wis.

B.S.(Ch.E.) '59, University of Wisconsin. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Effect of Vibration on Mass Transfer From Bubbles. Major Adviser: Prof. G. W. Preckshot.

Hugo Herman John, Nampa, Idaho

B.S. with distinction '59, M.S. '61, University of Minnesota. Major: Forestry. Minor: Statistics. Thesis: Comparative Precision Levels in Forest Inventory Estimating Using Sampling with Probability Proportional to Frequency and Sampling with Probability Proportional to Size. Major Adviser: Prof. M. P. Meyer.

Lily Ann Jones, Remer

B.A. '60, M.S. '63, University of Minnesota. Major: Microbiology. Minor: Genetics. Thesis: Life Cycle and Structure of an Actinophage for *Streptomyces Venezuelae*. Major Adviser: Dr. S. G. Bradley.

Ronald Oliver Kagel, Wauwatosa, Wis.

B.S. '58, University of Wisconsin. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Vibrational Intensity Studies. Major Adviser: Prof. B. L. Crawford, Jr.

Fa-ten Kao, Hankow, China

B.S. '55, National Taiwan University (China). Major: Genetics. Minor: Botany. Thesis: Effects of Recurrent Irradiation in Diploid, Tetraploid, and Hexaploid *Triticum* Species. Major Adviser: Prof. R. S. Caldecott.

Robert Bruce Kaul, Owatonna

B.S. with distinction '57, M.A. '59, University of Minnesota. Major: Botany. Minor: Geography. Thesis: A Phylogenetic Study of the Flowers of the Butomaceae and the Hydrocharitaceae. Major Adviser: Prof. E. C. Abbe.

Jerry Robert Kline, Minneapolis

B.S. with distinction '57, M.S. '60, University of Minnesota. Major: Soil Science. Minor: Analytical Chemistry. Thesis: An Investigation of Copper and Other Selected Elements in Soils Utilizing Gamma Radiations Induced by Thermal Neutron Activation. Major Adviser: Prof. R. H. Rust.

Pao-Kuang Kuo, Taiwan, China

B.S. '57, National Taiwan University (China). Major: Physics. Minor: Mathematics. Thesis: Radiative Corrections to Electron-Induced Processes. Major Adviser: Prof. D. R. Yennie.

John Charles LeBlanc, Haverhill, Mass.

B.A. with honors '58, M.A. '59, Emerson College. Major: Speech and Theatre Arts. Minor: Education. Thesis: An Investigation of the Use of Hypnosis as a Method for Improving Speech Confidence. Major Adviser: Prof. R. W. Wendahl.

Wen-Yung Lee, China

B.S. in Agric. '55, Taiwan Provincial College of Agriculture; M.S. '59, National Taiwan University (China). Major: Entomology. Minor: Plant Pathology. Thesis: A Study of the Development of the Masculature From the Larva to the Adult in *Tenebrio Molitor* L. (Tenebrionidae, Coleoptera). Major Adviser: Prof. E. F. Cook.

Charles William Lewis, Lowell, Wash.

B.A. '59, Reed College; M.S. '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Study of Neutrons From the Lithium Bombardment of Several Light Nuclei. Major Adviser: Prof. J. M. Blair.

Rodney Grant Loper, Glenville

B.A. *cum laude* '57, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: The Influence of Prior Verbal Reinforcement on Inkblot Test Content. Major Adviser: Prof. R. D. Wirt.

Martin Manosevitz, Minneapolis

B.A. *cum laude* '60, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: Genetic Variation, Fearfulness and Hoarding in the Mouse. Major Adviser: Prof. Gardner Lindzey.

Juri Matisoo, Elkhart, Ind.

B.S. '60, M.S.E.E. '60, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Model of a Ferromagnetic Thin Film. Major Advisers: Profs. E. R. Chenette and R. P. Halvorson.

Harold Austin Meeks, Essex Junction, Vt.

B.A. '56, Middlebury College; M.A. '58, University of Minnesota. Major: Geography. Minor: Geology. Thesis: Marginal Agriculture in Michigan's Copper Country. Major Adviser: Prof. E. C. Mather.

Albert George Mercer, Vancouver,
British Columbia, Canada

B.A.Sc. '54, University of British Columbia;
M.S.C.E. '57, University of Minnesota. Major:
Civil Engineering. Minor: Mathematics. Thesis:
Characteristics of Sand Ripples in Low Froude
Number Flow. Major Adviser: Prof. A. G. Anderson.

Moustafa Aly Mosharrafa, Cairo,
Egypt

B.E.E. '57, Cairo University (Egypt); M.S.-
E.E. '61, University of Minnesota. Major:
Electrical Engineering. Minor: Physics. Thesis:
Isotopic Abundance Studies of Homonuclear
and Heteronuclear Molecular Ions in Rare-Gas
Plasmas. Major Adviser: Prof. H. J. Oskam.

Calvin Leonard Myrbo, Underwood

B.A. '50, Bob Jones University; M.A. '56, Uni-
versity of Minnesota. Major: Education. Minor:
English. Thesis: An Analysis of the Character
of the Clergyman in Novels for Adolescents.
Major Adviser: Prof. S. B. Kegler.

Roberta Jane Nelson, Minneapolis

B.B.A. with distinction '39, M.A. '58, Uni-
versity of Minnesota. Major: Business Adminis-
tration. Minor: Psychology. Thesis: Factors Re-
lated to Preferences for Contract Agreements
Covering Selected Conditions of Employment
for a Group of Professional Employees. Major
Adviser: Prof. H. G. Heneman, Jr.

Walter Gerhard Niehaus, Jr., Minne-
polis

B.S. '62, University of Minnesota. Major: Bio-
chemistry. Minor: Organic Chemistry. Thesis:
Characterization of Nuclei From Regenerating
Rat Liver on the Basis of Incorporation of
Radioisotope *In Vivo*. Major Adviser: Dr.
C. P. Barnum, Jr.

James William Nordstrom, Eagle
Bend

B.S. '57, M.S. '61, University of Minnesota.
Major: Animal Husbandry. Minor: Veterinary
Physiology and Pharmacology. Thesis: Amino
Acid Nutrition of Growing Swine: Influence
of Source of Protein on Free Plasma Amino
Acids. Major Adviser: Prof. R. J. Meade.

Daniel Patrick Norton, Terre Haute,
Ind.

B.S. '49, M.A. '58, University of Minnesota.
Major: Education. Minor: Curriculum and In-
struction. Thesis: The Professional Attitudes
of Minnesota Classroom Teachers. Major Ad-
viser: Prof. G. M. A. Mork.

Russell Stanford Nyquist, Cokato

B.S. with distinction '57, M.S.I.E. '59, Uni-
versity of Minnesota. Major: Business Ad-
ministration. Minor: Industrial Engineering.
Thesis: The Effects of an Important Techno-
logical Change on Production Patterns and
Prices. Major Adviser: Prof. R. K. Gaumnitz.

David Peter Olson, Minneapolis

B.S. with distinction '54, University of Min-
nesota; M.S. '58, University of Maine. Major:
Fisheries and Wildlife. Minor: Botany. Thesis:
A Study of Canvasback and Redhead Breeding
Populations, Nesting Habitats, and Produc-
tivity. Major Adviser: Prof. W. H. Marshall.

Ned Eldon Olson, Worthington

B.S. with distinction '58, D.V.M. '60, Uni-
versity of Minnesota. Major: Veterinary Medicine.
Minor: Microbiology. Thesis: Studies on the
Effects of Vaccination of Dairy Cattle Against
Staphylococcal Mastitis. Major Adviser: Prof.
H. H. Hoyt.

Thomas Michael Peters, Los Angeles,
Calif.

B.S. '59, Long Beach State College; M.S. '61,
University of Minnesota. Major: Entomology.
Minor: Plant Pathology. Thesis: A Taxonomic
Study of the Nearctic Dixidae (Diptera). Ma-
jor Adviser: Prof. E. F. Cook.

Marvin Wayne Phillips, Lafayette,
Ind.

B.S. in Agric. '53, M.S. '58, Purdue Uni-
versity. Major: Soil Science. Minor: Agricultural
Plant Physiology. Thesis: Importance of Or-
ganic Phosphorus in Predicting Soil Phosphorus
Availability. Major Adviser: Prof. A. C. Cald-
well.

Vadlamani Kali Prasad, Madras, India

B.Pharm. '56, University of Madras; M.Pharm.
'57, University of Andhra (India). Major:
Pharmaceutical Chemistry. Minor: Organic
Chemistry. Thesis: The Synthesis of Some
Dialkyl Aminoalcohols and Some of Their Di-
substituted Carbamates as Potential Anti-
cholinesterases. Major Adviser: Prof. Ole Gis-
vold.

Robert Folk Ramaley, Columbus,
Ohio

B.Sc. '59, M.Sc. '62, Ohio State University.
Major: Microbiology. Minor: Physiological
Chemistry. Thesis: Arginine Metabolism
During Presporulation in *Bacillus Licheni-*
formis. Major Adviser: Dr. R. W. Bernlohr.

Jawalkar Kishanrao Sridhar Rao,
Bangalore, India

B.E. (Civil) '60, University of Mysore (India); M.S.C.E. '63, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Analysis of Flat Slabs with Drop Panels by Finite Difference Methods. Major Adviser: Prof. Paul Andersen.

Ruth Annette Reck, Minneapolis

B.A. '54, Mankato State College. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Theory of Diffusion Controlled Chemical Reactions. Major Adviser: Prof. R. W. Lumry.

Barbara Klug Redman, Brookings,
S.D.

B.S. '58, South Dakota State College; M.Ed. '59, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Clinical Nursing Instructors' Perceptions of Students' Attitudes Toward Selected Interpersonal Relationships. Major Adviser: Prof. R. E. Eckert.

Daniel Edgar Rider, Haines Falls,
N.Y.

B.A. cum laude '49, New York State College for Teachers; M.A. '57, University of Minnesota. Major: American Studies. Thesis: The Musical Thought and Activities of the New England Transcendentalists. Major Advisers: Profs. Johannes Riedel and M. C. Turpie.

Frank Michael Saccoman, Nashwauk

B.S. '58, Bemidji State College. Major: Anatomy. Minor: Zoology. Thesis: Radioautographic Study of the Extraembryonic Membranes in Normal and Experimental Mice. Major Advisers: Drs. C. F. Morgan and L. J. Wells.

Jacob Franklin Schaefer, Lakewood,
Ohio

B.S. in Chem. '60, Carnegie Institute of Technology. Major: Physical Chemistry. Minor: Physics. Thesis: Spin-Spin Coupling Constants and Correlated Molecular Orbitals in HO, CH₂O, and Alkyl Mercuric Halides. Major Advisers: Profs. M. M. Kreevoy and J. E. Wertz.

Herbert Benson Scher, Yonkers, N.Y.

B.Ch.E. '60, Cornell University; M.S. '62, University of Minnesota. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: A Kinetic Study of the Reactions of Iodine in Isooctane with Metallic Mercury and Liquid Sodium Amalgams. Major Adviser: Prof. M. M. Kreevoy.

Soloman Shapiro, St. Paul

B.S. in S.S. '38, City College of New York; M.A. '42, New York University. Major: Psychology. Minor: Educational Psychology. Thesis: A Study of the Needs and Satisfaction of Social Workers as Perceived by College Students and Social Workers. Major Adviser: Prof. L. H. Lofquist.

Richard Hideo Shimabukuro, Hilo,
Hawaii

B.S. (Agric.) '56, University of Hawaii; M.S. '62, University of Minnesota. Major: Agricultural Plant Physiology. Minor: Agricultural Biochemistry. Thesis: Studies on the Effect of Atrazine on Oat (*Avena Sativa* [L.] Var. Minhafer). Major Adviser: Prof. A. J. Linck.

Richard Edwin Shope, Jr., St Paul

B.A. '47, Williams College; B.S. (Agric.) '49, University of Wisconsin; D.V.M. '59, Cornell University. Major: Microbiology. Minor: Physiological Chemistry. Thesis: Experimental Studies on Viral Diarrhea of Cattle. Major Advisers: Profs. K. G. Brand and D. K. Sorensen.

Harbans Singh, Debra Dun, India

B.V.Sc.&A.H. '55, U. P. College of Veterinary Science and Animal Husbandry (India). Major: Dairy Husbandry. Minor: Physiological Chemistry. Thesis: Developments in Forage Evaluation. Major Adviser: Prof. J. D. Donker.

Sister Marie Colette Roy, Milwaukee,
Wis.

B.A. cum laude '60, M.A. '60, Cardinal Stritch College. Major: Education. Minor: Educational Psychology. Thesis: Multiple-Meaning Oral Vocabulary of Good and Poor Readers. Major Adviser: Prof. T. W. Clymer.

Margaret Niven Space, Minneapolis

B.S. '36, M.Ed. '49, M.A. '52, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: A Study of Individual Predictability Based on Intra-Individual Variability on Certain Achievement Measures. Major Advisers: Profs. W. E. Dugan and R. E. Eckert.

Wayne Alfred Stein, Minneapolis

B. of Phys. with distinction '59, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Continuum Electromagnetic Radiation From Solar Flares and Observations of the Solar Corona From the Limb of the Sun to the Zodiacal Light, July 20, 1963. Major Adviser: Prof. E. P. Ney.

**Helmut Otto Stingl, Würzburg,
Germany**

Diploma '61, Technical Institute of Munich (Germany). Major: Plant Pathology. Minor: Genetics. Thesis: Studies on the Strawberry Virus Complex. Major Adviser: Prof. R. D. Wilcoxon.

Robert Eli Stitzel, Sea Cliff, N.Y.

B.S. '59, M.S. '61, Columbia University. Major: Pharmacology. Minor: Physiology. Thesis: Influence of Innervation and Various Drugs on Catecholamine Content of Heart and Certain Other Organs. Major Adviser: Dr. F. E. Shideman.

Donald Lee Strand, Minneapolis

B.B.A. '53, M.A. '55, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: Some Aspects of Risk Management Theory. Major Adviser: Prof. C. A. Williams, Jr.

Dirk Pieter Ten Brinke, Eugene, Ore.

B.S. with high distinction '43, M.A. '53, University of Minnesota. Major: Education. Minor: Zoology. Thesis: Homework: An Experimental Evaluation of the Effect on Achievement in Mathematics in Grades Seven and Eight. Major Adviser: Prof. D. A. Johnson.

Kathryn Helen Thomas, Cody, Wyo.

B.A. with high honors '59, Montana State University. Major: Physiology. Minor: Physiological Chemistry. Thesis: Integration of Segmental and Supraspinal Action on Single Spinal Mononeurons. Major Adviser: Dr. C. A. Terzuolo.

David Bruce Thorud, St. Paul

B.S. with distinction '58, M.S. '60, University of Minnesota. Major: Forestry. Minor: Soil Science. Thesis: The Effect of Snow, Litter and Soil Compaction on the Soil Frost Regime in a Minnesota Oak Stand. Major Adviser: Prof. D. P. Duncan.

**Wilmer Esplin Torfason, Lethbridge,
Alberta, Canada**

B.S. in Agric. '49, University of Manitoba; M.Sc. in Agric. '52, University of Alberta. Major: Horticulture. Minor: Agricultural Plant Physiology. Thesis: Effects of Time of Harvest, Sprout Inhibition, and Storage Temperature on the Chemical Constitution and Processed Quality of Netted Gem Potatoes. Major Adviser: Prof. R. E. Nylund.

Myron Eugene Tumbleson, Trimont

B.S. '58, M.S. '61, University of Minnesota. Major: Animal Husbandry. Minor: Biochemistry. Thesis: Effect of Source and Level of Dietary Protein on Liver Enzyme Systems in the Young Pig. Major Adviser: Prof. R. J. Meade.

John Tauno Typpo, Floodwood

B.S. with distinction '58, M.S. '60, University of Minnesota. Major: Animal Husbandry. Minor: Veterinary Physiology and Pharmacology. Thesis: The Influence of Time of Fast on Plasma Free Amino Acid Concentrations in Young Swine. Major Adviser: Prof. R. J. Meade.

Kenneth John Valentas, Chicago, Ill.

B.S.(Ch.E.) with high distinction '60, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: An Analytical Study of Dispersed Phase Reactors. Major Adviser: Prof. N. R. Amundson.

Saul Vela, Brownsville, Tex.

B.S. '61, University of California. Major: Chemical Engineering. Minor: Mathematics. Thesis: Relaxation Phenomena in Viscoelastic Fluids. Major Adviser: Prof. A. G. Fredrickson.

**Raghunath Atmaram Virkar, Bombay,
India**

B.Sc. '50, M.Sc. '52, University of Bombay (India). Major: Zoology. Minor: Entomology. Thesis: The Uptake of Amino Acids by the Sipunculid *Golfingia Gouldii* and the Behavior of Its Free Amino Acid Pool in Response to Osmotic Stress. Major Adviser: Prof. G. C. Stephens.

James Frederick Walker, Jr., Robbinsdale

B. of Phys. with high distinction '59, M.S. '61, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Bound State Techniques for the Investigation of Resonances in Electron Scattering From Atomic Hydrogen. Major Adviser: Prof. A. M. Bolsterli.

**Harold Ronald Wallace, Park City,
Utah**

B.S. with distinction '58, M.A. '60, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Creative Thinking: A Factor in the Performance of Industrial Salesmen. Major Adviser: Prof. R. G. Price.

Daniel Barr Weber, Kalamazoo,
Mich.

B.A. '51, M.A. '56, Western Michigan University. Major: American Studies. Thesis: John Muir: The Function of Wilderness in an Industrial Society. Major Adviser: Prof. Bernard Bowron.

Gerald Frank Webers, Racine, Wis.

B.S. '54, Lawrence College; M.S. '61, University of Minnesota. Major: Geology. Minors: Geophysics and Zoology. Thesis: A Study of the Middle and Upper Ordovician Conodont Faunas of Minnesota. Major Adviser: Prof. R. E. Sloan.

Robert Francis Weiss, St. Louis, Mo.

B.A. *magna cum laude* '51, M.A. '53, St. Louis University. Major: Education. Minor: Educational Psychology. Thesis: Student and Faculty Perceptions of Institutional Press at Saint Louis University. Major Advisers: Profs. R. E. Eckert and R. J. Keller.

Charles Elden Wiberg, Mt. Prospect,
Ill.

B.S. with high distinction '57, University of Minnesota. Major: History. Minor: English. Thesis: A History of the University of Minnesota Chapter of the American Association of University Professors. Major Adviser: Prof. C. A. Chambers.

Harvey Floyd Windels, Sebeka

B.S. with distinction '55, M.S. '62, University of Minnesota. Major: Animal Husbandry. Minor: Veterinary Physiology and Pharmacology. Thesis: The Influence of Diet and of Duration of Fast Upon Plasma Levels of Free Leucine, Isoleucine and Valine in the Growing Pig. Major Adviser: Prof. R. J. Meade.

George Wallis Woodbury, Jr., Min-
neapolis

B.S. with high honors '59, University of Idaho. Major: Physical Chemistry. Minor: Physics. Thesis: The Brownian Motion of Systems of Interacting Particles. Major Adviser: Prof. Stephen Prager.

John Barrie Woods, St. Cloud

B.S. '57, Bemidji State College; M.S. '59, Washington State University. Major: Education. Minor: Educational Psychology. Thesis: The Effect of Varied Instructional Emphasis on the Development of a Motor Skill. Major Adviser: Prof. R. J. Donnelly.

Alphonse Eligius Zanoni, Milwaukee,
Wis.

B.C.E. '56, Marquette University; M.S.C.E. '60, University of Minnesota. Major: Civil Engineering. Minors: Microbiology and Public Health. Thesis: The Effect of Temperature on the Rate of Deoxygenation of Waste Water. Major Adviser: Prof. G. J. Schroepfer.

Doctor of Philosophy in Neurosurgery

Donlin Martin Long, Jefferson City,
Mo.

M.D. '59, University of Missouri. Major: Neurosurgery. Minor: Anatomy. Thesis: An Electron Microscopic Evaluation of Cerebral Edema and Its Response to Steroid Administration. Major Adviser: Dr. L. A. French.

Doctor of Philosophy in Physical Medicine and Rehabilitation

Essam Ahmad Awad, Helwan, Cairo,
Egypt

M.B., B. Ch. '57, Cairo University (Egypt). Major: Physical Medicine and Rehabilitation. Minor: Anatomy. Thesis: Changes in the Structure, Innervation, Electromyographic Patterns and Enzymes of Skeletal Muscle Resulting From Treatment with Triamcinolone. Major Adviser: Dr. F. J. Kottke.

Doctor of Philosophy in Surgery

John Junell Haglin, Minneapolis

B.A. '41, University of Michigan; M.D. '50, Wayne State University. Major: Surgery. Minor: Pathology. Thesis: A Comparative Study of Reimplantation of the Lung in the Dog and Kenya Baboon. Major Adviser: Dr. C. R. Hitchcock.

Donald Gray McQuarrie, Minneapolis

B.S. with high honors '53, M.D. '56, University of Utah. Major: Surgery. Minor: Pathology. Thesis: The Effect of Nitrogen Mustard on the Survival of Skin Homografts. Major Adviser: Dr. R. L. Varco.

Academic Costume

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

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

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

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

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

(In the order of march)

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

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

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

President's Reception

DECEMBER, 1964

- 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; Dr. and Mrs. Anderson; Mr. James Wm. Rustad, President, Minnesota Student Association; and Mr. Daniel F. Paskewitz, President, Coffman Union Board of Governors.
- Assisting in the Reception are members of the Union Board of Governors, and members of the following honorary societies: Arrowhead, Chimes, Grey Friars, Innocents, Iron Wedge, Mortar Board, and Silver Spur.
- Refreshments will be served. Members of the Union Board of Governors and of the honorary societies listed above will preside at the refreshment tables.