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UNIVERSITY OF MINNESOTA

June Commencement, 1971

SATURDAY EVENING, JUNE 12, 7:30 P.M.

GRANDSTAND AREA
MINNESOTA STATE FAIRGROUNDS

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

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

The Honorable Fred J. Hughes, St. Cloud

The Honorable Josie R. Johnson (Mrs. Charles W.), Bloomington

The Honorable George W. Rauenhorst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

The Honorable Loanne R. Thrane (Mrs. Ralph), Chanhasen

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Dr. Donald K. Smith, Acting 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 twentieth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen — to name only some of the careers for which preparation is offered. Since its founding, the University has awarded more than 232,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 51,000 students annually on its Twin Cities, Duluth, Morris, Crookston, Waseca, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

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

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

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

all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biomedical library and additional medical research facilities).

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

As it meets the needs of present students, the University must also make plans for those of the future. The 51,000 students who enrolled at the University at the beginning of the 1970-1971 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1969 LEGISLATURE granted the University \$141,093,656 for general operations and maintenance during the 1969-1971 biennium. In addition, the University received \$9,210,301 for University Hospitals; \$15,758,812 for special appropriations, including special extension and research activities; \$55,486,951 for new buildings, land, and the rehabilitation of existing buildings; \$1,640,000 for the Crookston Technical College; and \$165,000 for the Waseca Technical College.

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

The summary financial statement of 1969-1970 showed that the University's current income amounted to \$242,435,977. Of the total received, \$23,804,920 came from student tuition and fees; \$38,588,720 from activities relating to educational departments such as Hospitals, Dental Clinic, Cancer Detection Center, and University Theatre receipts, and sales of bulletins and agricultural products; \$1,874,688 from intercollegiate athletics; \$31,740,398 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 \$15,119,488 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also, \$49,065,185 came from the federal government for instruction, research, and agricultural extension. The state provided \$82,242,578 or 33.9 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$25,132,319.

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with

the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds.

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 Grandstand area of the Fairgrounds this evening, they will hear the Frances Miller Brown Memorial Bells, recorded at Northrop Memorial Auditorium. The commencement exercises are open to all guests.

PRELUDE CONCERT: From 7 to 7:30 p.m., the University Concert Band Ensemble and the Symphony Band Ensemble, conducted by Dr. Frank Benciscutto, A.Mus.D., will play:

<i>American Salute</i>	Morton Gould
<i>West Side Story Selections</i>	Bernstein-Dutoit
<i>Incantation and Dance</i>	John Barnes Chance
<i>Impossible Dream</i>	Leigh-Benciscutto

PROCESSION: At 7:30 p.m. the Mace-Bearer, Professor Orin C. Turnquist, Ph.D., College of Agriculture, will carry the Mace onto the platform, heralding the arrival of the academic procession. The procession includes administrators, faculty, distinguished guests, the Regents, and the candidates for degrees marching by college. The line of march for candidates is as follows:

College of Agriculture	College of Liberal Arts
College of Biological Sciences	Medical School
School of Business Administration	School of Nursing
School of Dentistry	College of Pharmacy
College of Education	School of Public Health
College of Forestry	Institute of Technology
General College	University College
General Extension Division	College of Veterinary Medicine
College of Home Economics	Graduate School
Law School	

During the procession the Bands, featuring the herald brass, will play:

<i>A Festival Prelude</i>	Alfred Reed
<i>March Processional</i>	Clare Grundman

THE NATIONAL ANTHEM: As Assistant Professor Philip Steen, Ph.D., College of Education, steps to the microphone, the entire audience will stand and join him in singing the National Anthem:

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

INVOCATION (the audience still standing): The Reverend K. K. John, Th.D., Director of the Campus Ministries of the Assemblies of God and Vice President of the Council of Religious Advisers.

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

PRESENTATION OF THE STANDARD OIL (INDIANA) FOUNDATION-HORACE T. MORSE AWARDS: President Moos.

Professor Harold C. Deutsch, Ph.D.
Department of History

Professor Laddie J. Elling, Ph.D.
Department of Agronomy and Plant Genetics

Professor John D. Helmberger, Ph.D.
Department of Agricultural and Applied Economics

Professor George J. McCutcheon, Ph.D.
General College

A FAREWELL FROM THE OUTGOING PRESIDENT OF THE MINNESOTA STUDENT ASSOCIATION: Mr. Roderick J. Macpherson, Class of 1972, College of Liberal Arts. *Jack Baker*

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: After each new Doctor of Philosophy has been hooded, Dean Bryce Crawford, Jr., Ph.D., Graduate School, will present him to President Moos.

CONFERRING OF OTHER GRADUATE SCHOOL DEGREES: Dean Crawford will then present recipients of other Graduate School degrees to President Moos and the audience.

PRESENTATION OF CERTIFICATES AND BACHELOR'S DEGREES: Vice President William G. Shepherd, Ph.D., Academic Administration, will introduce the deans of the colleges or their representatives, who will present to President Moos the candidates for certificates and degrees. They are, in order of their introduction:

Associate Professor Keith Wharton, Ph.D., College of Agriculture
Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences
Assistant Professor Mario F. Bognanno, Ph.D., School of Business Administration
Medical Fellow Kenneth Meyer, D.D.S., School of Dentistry
Associate Dean William E. Gardner, Ph.D., College of Education
Dean Frank H. Kaufert, Ph.D., College of Forestry

Dean Alfred L. Vaughan, Ph.D., General College
 Dean Willard L. Thompson, Ph.D., General Extension Division
 Dean Keith N. McFarland, Ph.D., College of Home Economics
 Associate Dean Robert F. Grabb, LL.B., Law School
 Dean E. W. Ziebarth, Ph.D., College of Liberal Arts
 Associate Dean H. Mead Cavert, Ph.D., Medical School
 Dean M. Isabel Harris, Ph.D., School of Nursing
 Dean Lawrence C. Weaver, Ph.D., College of Pharmacy
 Professor Theodor J. Litman, Ph.D., School of Public Health
 Dean Warren B. Cheston, Ph.D., Institute of Technology
 Assistant Dean Frank T. Benson, Ph.D., University College
 Dean W. T. S. Thorp, D.V.M., College of Veterinary Medicine

HAIL! MINNESOTA: As Professor Steen steps to the microphone, the audience will rise and join him in singing the University's Alma Mater:

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.)

The flags which border either side of the platform this evening represent the countries of some 1,400 foreign students who are at the University. The United States flag and the flag of the State of Minnesota, as is customary, will be presented as a part of the Commencement ceremony itself. The number of students from foreign lands who are taking courses at the University, and their presence on the campus today, illustrate the extent to which our nation and our major universities are involved in international relationships. The flags which you see this evening represent the following countries:

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

March Candidates for Graduation

Subject to the completion of all curriculum requirements at the close of winter quarter, degrees have been conferred as indicated on those listed below and upon others meeting the graduation requirements.

GRADUATE SCHOOL

Doctor of Education

Harold George Benson, Minneapolis
B.S. '55, M.A. '59, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: An Analysis and Development of a Staff Utilization Approach Involving the Classroom Teacher and His Aide in the Curriculum Area of Reading. Major Adviser: Prof. W. R. Cross.

Doctor of Philosophy

Louis Francis Archbald, Trinidad,
West Indies

D.V.M. '65, Ontario Veterinary College; M.S. '69, University of Minnesota. Major: Veterinary Obstetrics and Gynecology. Minor: Animal Science. Thesis: The Sequential Morphologic Study of the Ovaries and Uterus of Superovulated Heifers. Major Adviser: Prof. M. L. Fahning.

Javed Aslam, Lahore, Pakistan

B.S. '60, M.S. '62, University of Panjab. Major: Physics. Minor: Mathematics. Thesis: An NMR and Nuclear Relaxation Study of Satellite Lines in Dilute Co-Cr, Co-V and Co-Mn Alloys. Major Adviser: Prof. W. V. Weyhmann.

Robert Charlton Barron, Bloomington

B.A. '58, Lake Forest College. Major: Psychology. Minor: Educational Psychology. Thesis: A Comparison of Patterns of Intellectual and Psycholinguistic Abilities Among First Graders With Average and Very Low Reading Ability. Major Adviser: Prof. L. H. Lofquist.

Douglas Clark Baxter, Crosswell, Mich.

B.A. '64, Wayne State University; M.A. '66, University of Wisconsin. Major: History. Minor: Supporting Field. Thesis: French Intendants of the Army 1630-1670. Major Adviser: Prof. J. B. Wolf.

Mohammad Reza Behnia,
Birjand Meshed, Iran

B.S. '54, University of Tehran; M.A. '64, University of New Mexico. Major: Education. Minor: Agronomy. Thesis: Factors Affecting Occupational Choices of the Agricultural Senior High School Graduates in Iran. Major Adviser: Prof. M. J. Peterson.

Biliyar Narasimha Bhat, Minneapolis

B.E. '62, University of Poona; M.Tech. '64, Indian Institute of Technology. Major: Metallurgical Engineering. Minor: Supporting Field. Thesis: Thermotransport of Solutes in Liquid Silver. Major Adviser: Prof. R. A. Swalin.

Robert Daniel Bland, Treasure Island,
Fla.

B.S. '59, M.S. '64, Ball State University. Major: Botany. Minor: Supporting Field. Thesis: The Spatial Distribution of Desmids in Certain Northern Minnesota Lakes. Major Adviser: Prof. A. J. Brook.

Hannes Blöndal, Reykjavik, Iceland

M.D. '65, University of Iceland. Major: Anatomy. Minor: Biology. Thesis: Ultrastructural Studies on the Ciliary Ganglion of the Rat. Major Adviser: Dr. R. L. Wood.

Cesare Vincenzo Boffa, Alba, Italy

Doc. Ingen. Mech. '65, Politecnico di Torino. Major: Mechanical Engineering. Minor: Supporting Field. Thesis: Ablation Studies of a Transpiration-Cooled Anode in a High Intensity Electric Arc. Major Adviser: Prof. Emil Pfender.

Gary Lee Bowen, Oregon City, Ore.

B.S. '64, University of Alaska; M.S. '65, Stanford University. Major: Fluid Mechanics. Minor: Mathematics. Thesis: Non-Separated Flow about a Body with a Sharp Leading Edge. Major Adviser: Prof. Edward Silberman.

Josef Charles Brada, Brighton, Mass.

B.S.C.E. '64, M.A. '65, Tufts University. Major: Economics. Minor: Supporting Field. Thesis: The Allocative Efficiency of Czechoslovakian Foreign Trade. Major Adviser: Prof. A. O. Krueger.

Charles David Brookbank,
Minneapolis

B.A. '56, M.A. '58, Southern Illinois University. Major: Theatre. Minor: English. Thesis: The Theme of Boredom in Selected Modern Dramas. Major Adviser: Prof. A. H. Ballet.

Ernest Benton Brown III,
Minneapolis

B.A. '60, University of Minnesota. Major: Zoology. Minor: Botany. Thesis: Some Aspects of the Ecology of the Small Winter-Active Mammals of a Field and Adjacent Woods in Itasca State Park, Minnesota. Major Adviser: Prof. J. C. Underhill.

Emilie Buchwald, Edina

B.A. '57, Barnard College; M.A. '60, Columbia University. Major: English. Minor: Art History. Thesis: The Earthly Paradise and the Ideal Landscape: Studies in a Changing Tradition, Through 1750. Major Adviser: Prof. S. H. Monk.

Patrick Joseph Cain, Alexandria

B.A.E. '65, M.S. '67, University of Minnesota. Major: Mechanics. Minor: Mathematics. Thesis: Fatigue Crack Propagation in 20 24-T3 Aluminum Alloy Sheets Deformed by Bending. Major Adviser: Prof. Robert Plunkett.

Alvar Ward Carlson, Bowling
Green, Ohio

B.S. '59, Wisconsin State University; M.A. '61, University of Minnesota. Major: Geography. Minor: History. Thesis: The Rio Arriba: A Geographic Appraisal of the Spanish-American Homeland (Upper Rio Grande Valley, New Mexico). Major Adviser: Prof. F. E. Lukermann.

Paul David Cashion, Boston, Mass.

B.A. '64, Holy Cross College; D.M.D. '68, Harvard University. Major: Anatomy. Minor: Orthodontics. Thesis: A Cytochemical Study of Normal and Drug Treated Liver and Kidney in the Guinea Pig. Major Adviser: Dr. R. L. Wood.

M. Jean George Congdon, St. Paul

B.A. '47, M.A. '48, Wayne State University. Major: Speech-Communication. Minor: Supporting Field. Thesis: An Historical Survey of the Dramatic Chorus and Its Application to Readers Theatre. Major Adviser: Prof. D. W. Thompson.

Nathan Curland, Englewood Cliffs,
N.J.

B.S., M.S. '69, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Iterative Hysteretic Model for Digital Magnetic Recording. Major Adviser: Prof. D. E. Speliotis.

David Roger Darr, Kane, Ill.

B.S. '64, M.S. '66, University of Illinois. Major: Forestry. Minor: Agricultural Economics. Thesis: The Comparative Advantage of Minnesota's Wood Pulp Industry: Some Indirect Evidence. Major Adviser: Prof. R. A. Skok.

Albert Lloyd Darwent, Aylasham,
Saskatchewan, Canada

B.S.A. '63, M.S. '65, University of Saskatchewan. Major: Agronomy. Minor: Plant Physiology. Thesis: Influence of Several Environmental Factors on Plant Response to 2,4-D. Major Adviser: Prof. Richard Behrens.

Richard Earl Desmond, Malden, Mass.

B.S. '57, Boston College. Major: Psychology. Minor: Educational Psychology. Thesis: Comparison of Two Measures of Ability Requirements. Major Adviser: Prof. R. G. Warnken.

Denneth Carroll Dvergsten, St. Paul

B.S. '53, Mankato State College; M.A. '56, University of Minnesota. Major: Education. Minor: Ecology. Thesis: The Effect of the Use of Advance Organizers Combined with Guided Discovery on Achievement and Retention in High School Biology. Major Adviser: Prof. C. H. Boeck.

Margaret Reed Elo, Washington, D.C.

B.A. '62, Pennsylvania State University; M.A. '63, Harvard University. Major: Psychology. Minor: Educational Psychology. Thesis: Relationship of Counselor and Client Needs to Occupational Outcomes. Major Adviser: Prof. V. H. Hewer.

Mary Ewens, River Forest, Ill.

B.A. '60, Rosary College; M.A. '64, University of Minnesota. Major: American Studies. Thesis: The Role of the Nun in Nineteenth-Century American Variations on the International Theme. Major Adviser: Prof. M. C. Turpie.

Wayne Ellsworth Ewy, St. Paul

B.A. '65, Hamline University; M.S. '67, University of Minnesota. Major: Biometry. Minor: Supporting Field. Thesis: A Model and Simulation System for Epidemics of Two Competing Agents in a Structured Population. Major Adviser: Dr. Eugene Ackerman.

Irene Dorothy Faffler, St. Paul

B.S. '52, M.A. '59, University of Minnesota. Major: Speech-Communication. Minor: Supporting Field. Thesis: A Cross Cultural Study of the Small Task-Oriented Group in the Middle East. Major Adviser: Prof. W. S. Howell.

Frederick Roggeman Faxvog,
Minneapolis

B.S. '68, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Field. Thesis: Laser Mode-Locking and Pulse Propagation. Major Adviser: Prof. J. A. Caruthers.

Alfred Royse Ferguson, Wichita, Kan.

B.A. '55, Friends University; M.A. '59, Kansas State University. Major: American Studies. Thesis: Reflections on Transcendental Abolitionist Perfectionism in American Life, 1830-1860: Biography of a Fantasy. Major Adviser: Prof. M. C. Turpie.

Jurgen Fritz Fohlmeister, Minneapolis

B.Phys. '64, M.S. '65, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: On the Mass-Splitting Within Mesonic Isospin Multiplets. Major Adviser: Prof. Hiroshi Suura.

David Denton Franks, Lexington, Va.

B.A. '57, Millsaps College. Major: Sociology. Minor: Anthropology. Thesis: Socialization into Academic Ideologies: An Approach to the Concept of Rhetoric. Major Adviser: Prof. E. D. Monachesi.

Judith McKinnon Garrard, Amarillo,
Tex.

B.A. '63, Texas Technological College; M.A. '65, University of Texas. Major: Educational Psychology. Minor: Supporting Field. Thesis: Computer Simulation of Verbal Behaviors in Physics. Major Adviser: Prof. P. E. Johnson.

Charles Vincent Grudzinskas, Harbor
City, Calif.

B.S. '66, University of California at Los Angeles. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: An Approach to the Synthesis of the D and E Rings of Camptothecin. Major Adviser: Prof. Richard Borch.

Robert Lee Gulley III, San Antonio,
Tex.

B.A. '67, University of Texas. Major: Anatomy. Minor: Supporting Field. Thesis: Studies on the Substantia Nigro in the Rat. Major Adviser: Dr. Morris Smithberg.

Danesh Chandra Gupta, Karnal,
Panjab, India

B.A. '52, M.A. '56, Panjab University; M.A. '61, University of Maryland. Major: Economics. Minor: Supporting Field. Thesis: Monetary Influences on the Inflationary Trend in India During the Third Five-Year Plan (1961-1966). Major Adviser: Prof. John Buttrick.

Donald Lloyd Gustafson, Eau Claire,
Wis.

B.S. '60, M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Parameter Estimation in Systems Described by Differential Delay Equations. Major Adviser: Prof. E. B. Lee.

Betty Bonniwell Haslett, Hutchinson

B.A. '67, University of Minnesota; M.A. '68, University of Wisconsin. Major: Speech-Communication. Minor: Supporting Field. Thesis: The Effect of Syntactic Complexity Upon Elicitation of Sentential Constituents. Major Adviser: Prof. William Howell.

Nancy Ann Hayes, Tulsa, Okla.

B.A. '58, Benedictine Heights College. Major: Psychology. Minor: Supporting Field. Thesis: The Construction of an Extroversion-Introversion Scale for the Personality Inventory for Children. Major Adviser: Prof. R. D. Wirt.

Harry Anthony Hennen, Jr., Morris

B.S.E.E. '66, M.S.E.E. '68, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noncoherent Signal Extraction in the Presence of Noise Utilizing Simultaneous Amplitude and Angle Modulation. Major Adviser: Prof. R. F. Lambert.

Shirley Loy Herrick, Indianapolis, Ind.

B.A. '47, Butler University; M.A. '58, Memphis State University. Major: Education. Minor: Sociology. Thesis: Education and Friendship Formation. Major Adviser: Prof. R. H. Beck.

Herbert Eugene Hodges, Brunswick,
Ga.

B.A. '57, M.A. '61, University of Georgia.
Major: Sociology. Minor: Supporting Field.
Thesis: A Study of the Relationship Between
the Acceptance of the Mental Illness Identity
and Stabilized Mental Deviance. Major Adviser:
Prof. G. P. Stone.

John Anthony Hudson, Welwyn
Garden City, England

B.S. '65, Heriot-Watt University. Major: Mineral Resources Engineering. Minor: Mathematics. Thesis: A Critical Examination of Indirect Tensile Strength Tests for Brittle Rocks. Major Adviser: Prof. Charles Fairhurst.

Barry Bernard Hughes, Hamilton,
Mont.

B.S. '63, Stanford University; M.A. '69, University of Minnesota. Major: Political Science. Minor: Supporting Field. Thesis: The Study of Regional Integration: Subconcepts and Research Methodology. Major Adviser: Prof. R. E. Riggs.

Masayasu Ishikawa, Kure City,
Hiroshima, Japan

B.S. '66, University of Tokyo; M.S. '68, University of Minnesota. Major: Metallurgy and Materials Science. Minor: Physics. Thesis: Electronic Specific Heat and Superconductivity of Group-V Transition Metals and Carbides. Major Adviser: Prof. L. E. Toth.

Stefan James Kapsch, Elv

B.A. '64, University of Minnesota, Duluth; M.A. '67, University of Minnesota. Major: Political Science. Minor: Supporting Field. Thesis: The Adversary System and the Assistance of Counsel: Strategic Choice in Criminal Representation. Major Adviser: Prof. H. W. Chase.

Philip Arthur Katz, Irvington, N.J.

B.S. '64, Rensselaer Polytechnic Institute. Major: Physics. Minor: Supporting Field. Thesis: Pionic Final States Produced by π^+ d Collisions at 1.5 GeV/c. Major Adviser: Prof. B. F. Bayman.

Gerald Wayne Kaufmann, Dubuque,
Iowa

B.S. '62, Loras College; M.S. '64, Iowa State University. Major: Ecology. Minor: Supporting Field. Thesis: A Comparison of the Breeding Behavior of Two Species of Rails, the Sora, *Porzana Carolina*, and the Virginia Rail, *Rallus Limicola*. Major Adviser: Prof. D. F. McKinney.

Orville Frederick Kiel, Philip, S.D.

B.A. '65, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Effect of Feedback on the Performance of Professional Rehabilitation Workers. Major Adviser: Prof. R. G. Warnken.

Bruce Joseph Kittilson, St. Paul

B.A. '55, Macalester College; M.A. '62, University of Minnesota. Major: Education. Minor: Library Science. Thesis: School Librarians' and Audiovisualists' Conceptions of Media Programs: Consensus and Dissensus. Major Co-Advisers: Profs. G. H. McCune and N. P. Pearson.

Irwin Joel Leeb, Minneapolis

B.S. '61, Moravian College; D.D.S. '65, Columbia University. Major: Anatomy. Minor: Dentistry. Thesis: Ultrastructural Aspects of Ethionine Induced Toxicity in the Rat Parotid Gland. Major Adviser: Dr. R. L. Wood.

Stephen Roy Levitan, St. Paul

B.A. '66, University of Minnesota. Major: Organic Chemistry. Minor: Supporting Field. Thesis: Part I: Grignard Reactions of Acyl Cyanides. Part II: Asymmetric Reduction with Optically Active Amine Boranes. Major Adviser: Prof. R. F. Borch.

James Donovan Lind, Milltown, Wis.

B.A. '64, M.A. '66, University of Minnesota. Major: History. Minor: Supporting Field. Thesis: The Role of the English Privy Council in Government Control of Trade and Commerce, 1603-1637. Major Adviser: Prof. S. E. Lehmborg.

John Raymond Lloyd, Richfield

B.S.E. '64, M.S.M.E. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Laminar, Transition, and Turbulent Natural Convection Adjacent to Vertical and Upward Facing Inclined Surfaces. Major Adviser: Prof. E. M. Sparrow.

Thomas M Longhurst, Price, Utah

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ien Om Borge* by Hans Christian Branner.
Preface to *Historien Om Borge*. Major Adviser:
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B.A. *magna cum laude* '68, Oberlin College.
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B.A. '67, Sir George Williams University. Field of Concentration: Geography. Major Adviser: Prof. Ward Barrett.

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B.A. '68, Northern Illinois University. Field of Concentration: Spanish. Major Adviser: Prof. R. O. Floripe.

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B.A. '62, Midland College. Major: Speech-Communication. Minor: Curriculum and Instruction. Thesis: A Critical Study of Senator Fulbright's Speeches on Our Viet Nam Policy. Major Adviser: Prof. B. L. Brock.

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B.S. '56, Iowa State University. Field of Concentration: Library Science. Major Adviser: Prof. W. C. Simonton.

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B.S. '49, University of Minnesota. Field of Concentration: Anthropology. Major Adviser: Prof. E. A. Hoebel.

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B.S. '65, B.S. '66, University of Thammasat. Major: Economics. Minor: Public Administration. Thesis: Foreign Trade and Economic Growth in Thailand. Major Adviser: Prof. J. A. Buttrick.

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B.A. '66, State University of New York. Field of Concentration: History. Major Adviser: Prof. O. P. Pflanze.

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B.A. '68, Bennington College. Field of Concentration: English. Major Adviser: Prof. G. W. O'Brien.

Heinrich Uwe Stuecher,
Burgolorf, Switzerland

Leh. Staat. Exam. '68, Goethe University. Field of Concentration: Educational Psychology. Major Adviser: Prof. B. E. Balow.

Ching-Shan Sun, Kaoshung, Taiwan

B.A. '64, Tunghai Christian University. Major: Sociology. Minor: Statistics. Thesis: An Ecological Study of Poverty on Taichung. Major Adviser: Prof. David Cooperman.

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B.A. '60, Calvin College. Field of Concentration: Educational Psychology. Major Adviser: Prof. E. R. Gallistel.

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B.A. '67, Johns Hopkins University. Field of Concentration: Scandinavian. Major Adviser: Prof. Nils Hasselmo.

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B.S. '64, Macalester College. Field of Concentration: Educational Psychology. Major Adviser: Prof. B. E. Balow.

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B.A. '70, University of Minnesota. Field of Concentration: Geography. Major Adviser: Prof. E. C. Mather.

John Samuel Wright, Minneapolis
B.E.E. '68, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

Master of Arts in Public Administration

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B.A. '51, University of Minnesota, Duluth. Field of Concentration: Public Administration. Major Adviser: Prof. O. C. Peterson.

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B.S. '69, Portland State College. Field of Concentration: Public Administration. Major Adviser: Prof. J. E. Jernberg.

Mattie DeHaan Peterson, St. Louis
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Major: Public Administration. Thesis: Interjurisdictional Aspects of Water Resources Management in the Minneapolis-St. Paul Metropolitan Area of Minnesota. Major Adviser: Prof. G. A. Warp.

Master of Business Administration

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B.S. magna cum laude '62, St. Norbert College. Field of Concentration: Business Administration. Major Adviser: Prof. A. R. Solem.

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B.B.A. '64, Clarkson College of Technology. Field of Concentration: Business Administration. Major Adviser: Prof. John Neter.

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Master of Fine Arts

Billy Charles Goldston, Lindsay,
Okla.

B.F.A. '66, Oklahoma State University. Field of Concentration: Studio Arts. Major Adviser: Prof. Sigmunds Friede.

Gary Lee Hallman, St. Paul

B.A. '66, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. Jerome Liebling.

Master of Science

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M.S. '68, Government College, Lahore. Field of Concentration: Botany. Major Adviser: Prof. G. B. Ownbey.

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B.S. magna cum laude '62, Wisconsin State University. Field of Concentration: Organic Chemistry. Major Adviser: Prof. R. M. Dodson.

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B.S. '65, North Dakota State University. Major: Food Science and Industries. Minor: Public Health. Thesis: Procaine Muscle Color as Influenced by Certain Chemical Properties. Major Adviser: Prof. P. B. Addis.

Mary Jane Klun Cameron, Rochester
B.S. with distinction '60, University of Minnesota. Major: Microbiology. Minor: Public Health. Thesis: Complement Fixation by the Anti-Th_(o)^(D) Antibody. Major Adviser: Dr. L. H. Muschel.

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Eng. Agro. '68, Catholic University. Field of Concentration: Animal Science. Major Adviser: Prof. J. D. Donker.

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B.S. '66, National Taiwan University. Field of Concentration: Food Science and Industries. Major Adviser: Prof. H. A. Morris.

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B.S. '67, National Taiwan University. Field of Concentration: Organic Chemistry. Major Adviser: Prof. Edward Leete.

Stuart Joseph Curet, Hampton, Va.
B.S. '65, Virginia Polytechnic Institute. Field of Concentration: Business Administration. Major Adviser: Prof. P. F. Jessup.

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B.A. '68, Rutgers University. Field of Concentration: Botany. Major Adviser: Prof. E. J. Cushing.

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B.S. '66, Utah State University. Major: Fisheries and Wildlife. Minor: Statistics. Thesis: Life History and Age Determination Methods of the Red Squirrel in the Cutfoot Sioux Experimental Forest. Major Adviser: Prof. J. R. Beer.

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B.A. '69, Hiram College. Field of Concentration: Zoology. Major Adviser: Prof. D. W. Warner.

Jerry Dean Hilgren, St. Paul
D.V.M. '62, University of Minnesota. Major: Veterinary Microbiology. Minor: Veterinary Pathology. Thesis: The Development and Evaluation of an Indirect Hemagglutination Test for Swine Brucellosis. Major Adviser: Prof. R. K. Anderson.

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M.S. '68, Southern Methodist University. Field of Concentration: Organic Chemistry. Major Adviser: Prof. E. W. Garbisch.

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B.S. '64, M.S. '66, Seoul National University. Field of Concentration: Plant Physiology. Major Adviser: Prof. E. I. Sucoff.

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B.A. '64, University of Minnesota, Duluth. Major: Fisheries and Wildlife Management. Minor: Botany. Thesis: The Analysis of Blood Samples as Potential Indicators of Hydrogen Sulfide Pollution. Major Adviser: Prof. L. L. Smith.

Karen Gay Jones, Houston, Tex.
B.A. '68, University of Texas. Major: Zoology. Minor: Public Health. Thesis: Variations in Kidney Structure in Animals From Different Habitats. Major Adviser: Prof. W. D. Schmid.

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B.A. '68, University of British Columbia. Field of Concentration: Agricultural Economics. Major Adviser: Prof. S. W. Engene.

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B.S. '68, Purdue University. Major: Analytical Chemistry. Minor: Organic Chemistry. Thesis: An Electrochemical Study of the Kinetics of the Hexammine Ruthenium (III/II) Couple. Major Adviser: Prof. H. S. Swofford, Jr.

Sandor Gabor Kulcsar, Budapest, Hungary
B.S. '60, University of Szeged. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: The Syntheses of Some Non-Hydrolysable Nucleoside Analogs. Major Adviser: Prof. Robert Vince.

Roberta Kay Lammers, St. Paul
B.S. with distinction '65, Iowa State University. Field of Concentration: Botany. Major Adviser: Prof. Eville Gorham.

Stephanie Eugene Mudge, Glen Dale, W.Va.
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Dennis Karl Peterson, North St. Paul
B.S. with distinction '67, University of Minnesota. Field of Concentration: Physics. Major Adviser: Prof. L. J. Cahill, Jr.

Eldon Gene Roalson, Edina

B.A. '64, Mankato State College. Field of Concentration: Business Administration. Major Adviser: Prof. G. B. Davis.

Floyd Romslo, Minneapolis

B.A. '62, St. Olaf College. Field of Concentration: Business Administration. Major Adviser: Prof. R. G. Berryman.

Adisak Sajjapongse, Bangkok,
Thailand

B.S. '67, Kasetsart University. Major: Soil Science. Minor: Agronomy. Thesis: The Relative Availability of Fertilizer Zinc to Corn Eight Years After Application. Major Adviser: Prof. J. M. MacGregor.

Michael John Scanlan, Minneapolis

B.A. '67, St. Thomas College. Field of Concentration: Botany. Major Adviser: Prof. Eville Gorham.

Mázin Rida Shihadah-Irani,
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B.S. '68, American University of Beirut. Field of Concentration: Physical Chemistry. Major Adviser: Prof. R. W. Lumry.

Sherryann Chloe Smith, New York,
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B.A. '68, Bemidji State College. Major: Organic Chemistry. Minor: Related Fields. Thesis: Rearrangements of Phenyl Norbornyl Cations. Major Adviser: Prof. Ronald Caple.

Robert Edwin Solee, College Station,
Tex.

B.A. '50, State College of Washington; D.V.M. '54, Willamette University. Field of Concentration: Veterinary Bacteriology. Major Adviser: Prof. B. S. Pomeroy.

Paul John Stormo, Dusseldorf,
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B.S.M.E. '61, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Gaumnitz.

Ramamurthi Sundararajan, Dindigul,
India

B.S. '62, University of Madras. Major: Physics. Minor: Mathematics. Thesis: Spin Reorientation Transitions in Rare Earth Orthoferrites. Major Adviser: Prof. C. F. Giese.

James Kenneth Wovcha, Virginia

B.A. '67, University of Minnesota, Duluth. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Wayne Kelly Wykoff, Mankato

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B.A. '68, University of Kansas. Field of Concentration: Statistics. Major Adviser: Prof. R. J. Buehler.

Lih-Jwo Yang, Tainan, Taiwan

B.S. '67, National Taiwan Normal University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Reaction of 12, 13-Benzol 6 Chloro [10] (2,4) Pyridinophan -1- One. Major Adviser: Prof. W. E. Parham.

Master of Science in Chemical Engineering

George Francis Bateson, Hibbing

B.Ch.E. with high distinction '68, University of Minnesota. Major: Chemical Engineering. Minor: Civil Engineering. Thesis: The Growth and Death of L. Casei. Major Adviser: Prof. H. M. Tsuchiya.

Hak-Rhim Han, Kyunggi-Do, Korea

B.S. '61, Yonsei University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Binding States of Hydrogen and of Nitrogen on (100) Molybdenum. Major Adviser: Prof. L. D. Schmidt.

Andrés Pastrana V., Venezuela

Eng. '67, Universidad de Oriente. Major: Chemical Engineering. Minor: Mathematics. Thesis: Kinetic Studies of the Reactions of Acetylene, Ethylene, Propylene and 1-Butene with Hydroxyl Radicals in a Tubular Reactor. Major Adviser: Prof. R. W. Carr.

March

Master of Science in Civil Engineering

Shyamal Bhattacharya, Agartala, India
B.E. '66, Bengal College. Field of Concentration: Civil Engineering. Major Adviser: Prof. P. P. Christiano.

Julius Carry Gatphon, Shillong,
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B.E. '67, Jorhat Engineering College. Field of Concentration: Civil Engineering. Major Adviser: Prof. Alvin Anderson.

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B.C.E. with high distinction '69, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. P. P. Christiano.

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B.S.C.E. '68, University of Houston. Field of Concentration: Civil Engineering. Major Adviser: Prof. C. E. Bowers.

Master of Science in Dentistry

William R. Babbitt, Wenatchee,
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D.D.S. '65, Creighton University. Major: Dentistry. Minor: Pathology. Thesis: Cellular Turnover and Histochemical Study of Split-Thickness Skin Grafts in the Oral Environment. Major Adviser: Dr. W. R. Laney.

James Monroe Hoffman, Minneapolis

D.D.S. '67, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Effect of Root Canal Obstruction on Dental-Osseous Replantation. Major Adviser: Dr. J. R. Jensen.

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D.D.S. '65, University of Iowa. Major: Dentistry. Minor: Anatomy. Thesis: A Study of the Effect of Fixation on the Rate of Bone Repair. Major Adviser: Dr. D. E. Waite.

Master of Science in Electrical Engineering

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B.S. '64, Seoul National University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise of Josephson Junction Amplifier. Major Adviser: Prof. Albert van der Ziel.

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B.S.E.E. '58, South Dakota School of Mines and Technology. Field of Concentration: Electrical Engineering. Major Adviser: Prof. D. E. Speliotis.

Master of Science in Industrial Engineering

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Master of Science in Mechanical Engineering

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B.E. '68, University of Jodhpur. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. E. A. Fletcher.

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B.S. Eng. '68, University of Hong Kong. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. W. A. Kleinhenz.

Master of Science in Metallurgical Engineering

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B.Tech. '68, Indian Institute of Technology.
Field of Concentration: Metallurgical Engineering.
Major Adviser: Prof. Gust Bitsianes.

Raphaël Titi-Manyaka, Douala,
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B.S. '68, University of Wisconsin. Major: Metallurgical Engineering. Minor: Analytical Chemistry. Thesis: A Thermogravimetric Study of the Chlorination and Chloridization Behavior of Some Iron and Manganese Minerals. Major Adviser: Prof. Iwao Iwasaki.

Master of Science in Mineral Resources Engineering

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B.S. '67, University of Utah. Field of Concentration: Mineral Resources Engineering. Major Adviser: Prof. E. P. Pfeleider.

Master of Science in Neurology

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B.M. '55, National Defense Medical Center. Major: Neurology. Minor: Related Fields. Thesis: Histological Changes in the Middle Cerebral Arteries with Increasing Age. Major Adviser: Dr. A. B. Baker.

Master of Science in Neurosurgery

Lawrence Holliday Fink, Silver
Springs, Md.

M.D. '65, State University of New York. Major: Neurosurgery. Minor: Related Fields. Thesis: Transplantation of Peripheral Nerves Using Immunosuppressive Agents: A Clinical and Anatomic Study. Major Adviser: Dr. F. W. Kerr.

Master of Science in Obstetrics and Gynecology

William Campbell Meyer, Rochester

M.D. '66, Northwestern University. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Postmenopausal Bleeding From Atrophic Endometrium. Major Adviser: Dr. D. G. Decker.

Master of Science in Orthopedic Surgery

Nikolaus D. Langloh, Hamburg,
Germany

M.D. '65, Columbia University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Response of the Periosteum to Hormones and Minerals that Affect Bone. Major Adviser: Dr. M. B. Coventry.

Master of Science in Surgery

Immanuel Benjamin, Lahore,
Pakistan

M.D. '58, Nishtar Medical College. Major: Surgery. Minor: Pathology. Thesis: A Study of Patients Having Developed Enteritis After Having Surgical Therapy for Chronic Ulcerative Colitis. Major Adviser: Dr. E. S. Judd.

Certificate of Specialist in Education

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B.A. '62, University of Northern Iowa; M.S. '66, Mankato State College. Field: Special Education. Major Adviser: Prof. Richard Weatherman.

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COLLEGE OF AGRICULTURE

Bachelor of Science

Gary Michael Affolter, St. Paul
James Loran Anderson, Stillwater
Carl Marvin Bang, Red Wing, WITH
HIGH DISTINCTION
Paul Carl Betcher, Goodhue
Donald Ernest Beyer, New Richland
Donald Charles Bot, Cottonwood
Gordon Arthur Bovee, Champlin
Robert George Gole, Brainerd
Chester G. W. Gustafson, Jr.,
Bricelyn
Gary Allen Hachfeld, Faribault
Thomas Joseph Harper, Henning
John Edward Josephson, Cokato
Michael Gorden Kelly, Olivia,
WITH DISTINCTION
Robert Dean Kirsch, Circle Pines
William Frank Kraft, St. Paul
Paul Edward Krueger, Jordan
Kent Lee Langdon, A.A., Ostrander,
WITH HIGH DISTINCTION

Keith Gerald Lein, A.A., Fergus
Falls, WITH DISTINCTION
Gary Wayne Newberg, Willmar
Richard Leon Pike, A.A., Rochester
Gregory Albert Rosenow, Stewart
John Richard Runck, Burnsville
James Matthew Schreifels, Belgrade
Stanley Steve Smith, Lewiston
Kathleen Ann Stewart, Minneapolis
Richard Joseph Teal, Detroit Lakes
David Allan Thompson, Starbuck,
WITH DISTINCTION
Helmut Josef Ullrich, Minneapolis
Marlys Marie Underdahl, Dennison
Thomas Craig Verdoorn, A.A.,
Rose Creek
Richard David Welsch, Sheboygan,
Wis.
Richard Owen Wigley, Lake Crystal

COLLEGE OF AGRICULTURE AND SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Robert Day Anderson, Redwood
Falls, WITH DISTINCTION
Jay Owen Franz, Mountain Lake
Roy Orin Hazel, Jr., Lanesboro,
WITH DISTINCTION

Alan Lee Johnson, Gibbon
Lloyd Howard Johnson, A.A., Elkton
William Earl Lehmer, Bagley
Thomas Carl Wittnebel, Nassau

COLLEGE OF AGRICULTURE AND COLLEGE OF EDUCATION

Bachelor of Science

Robert Dean Dutton, West Concord
John Howard Johnson, Eagle Bend
Arlynn Elwood Lawrenz, A.A.,
Walnut Grove
Philip A. Ness, Albert Lea

John Verl Rollings, Garden City,
WITH HIGH DISTINCTION
Donald LaVerne Rondorf, Thief
River Falls, WITH HIGH DISTINCTION

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Perry Justin Blackshear, Mahtomedi,
SUMMA CUM LAUDE, Biology
Linda Jean Lorenz, St. Paul
Ernest Merrill Peaslee, Stillwater,
SUMMA CUM LAUDE, Biology

Melvin Martin Prantner, St. Paul
Bradley Dean Westra, Austin, SUMMA
CUM LAUDE, Biology
Gary Arthur Williams, Chaska,
SUMMA CUM LAUDE, Microbiology

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Lane A. Allen, A.A., Coon Rapids
Gary Winfred Anderson, Alexandria
Phillip Edwin Aulwes, Jr.,
Minneapolis
Martin Gunnar Awes, Richfield
Albert Paul Backmann, Minneapolis
David Alan Bardin, Minneapolis,
WITH DISTINCTION
David John Baune, Minneapolis
John Gordon Berg, Bloomington,
WITH DISTINCTION
H. Michael Blair, Minneapolis
Rita Catherine Bremseth, St. Paul
Darrel Thomas Bruesehoff,
Minneapolis
Paul Everett Brunelle, Minneapolis
Bret Lee Burquest, Minneapolis
Gary Richard Carlson, Minneapolis
William Robert Christopherson,
Minneapolis
William Leslie DeCoursey, Columbia
Heights, WITH DISTINCTION
Robert John Engen, Brooklyn Center
John H. Ford, Minneapolis
Gail G. Foster, Gladstone, Mich.
Steven John Fredrickson, Albert Lea
Carmen Marie Gay, Chaska
Harlan Michael Haanpaa, Duluth
Patrick Allen Hopf, Winona,
WITH DISTINCTION
Craig Russell Hultgren, St. Paul,
WITH DISTINCTION
Marlyn Roger Johnson, St. Paul,
WITH DISTINCTION
Walter Lorenz Lange, Minneapolis
David Edward Luger, St. Paul

Patrick Tomio Matsui, Kahului,
Maui, Hawaii
Steven Lynn Matthiesen,
Robbinsdale
Joseph Robert Matusovic, A.A.,
Fridley
James Patrick McKee, Minneapolis
Duane Stanley Nelson, Rush City,
WITH DISTINCTION
Donald Austin Nolander, Jr., Albert
Lea
Gary Edmond Oakins, St. Paul
Warren Lee Olson, Minneapolis
Michael Henry O'Rourke, Lake
Linden, Mich.
Ronald Glenn Peterson, A.L.A.,
Minneapolis
Thomas Roy Pressler, Bloomington
Ruben D. Puga, Ecuador
Gary Donald Radel, Minneapolis,
WITH DISTINCTION
James Henry Rodgers, Minneapolis
Elizabeth Smith Ryan, St. Paul
Richard Edward Sather, Minneapolis
Dale Thomas Schatzlein, Minneapolis,
WITH DISTINCTION
Thomas Alan Schomaker, St. Paul,
WITH DISTINCTION
David Herbert Schroeder, Heron
Lake
Dennis Albin Schultz, Stevens
Point, Wis.
James Kenneth Shields, St. Louis
Park
Daniel Paul Smith, Minneapolis
John Robert Sweetnam, Minneapolis

Ronald Wayne Timmerman,
Bloomington
Glenn Leslie VanAmber, Alexandria
Robert Vernon Webb, A.A., St. Paul

James Clinton West, Wausau, Wis.,
WITH DISTINCTION
Jon Allen Whitcomb, Bay City, Wis.
James C. Wrobel, Browerville

Bachelor of Science in Economics

Bruce Gerald Ferrario, St. Cloud

COLLEGE OF EDUCATION

Bachelor of Science

Kenneth Bert Allen, Brooklyn Park,
WITH HIGH DISTINCTION

Frances Brookes Anderson, Coon
Rapids

Kathleen Ann Anderson, Minneapolis

Doris Helen Arnold, Minneapolis

Myrtle Elizabeth Atchison, A.L.A.,
Bethel

Rita Natalie Ayers, St. Paul

Boyd Alan Beccue, Sturgeon Lake

Julianne Gertrude Berg, St. Paul

Patricia Rose Berg, Bloomington,
WITH DISTINCTION

Eileen Erin Bjornson, Minneapolis

Paul Frederick Bode, Wood Lake

Jane Grace Boyle, St. Paul

Robert Ernest Brandell, Anoka

Terrence Joseph Brenny, Little Falls,
WITH DISTINCTION

Mary Louise Brewer, St. Paul

Patricia Renee Burke, Minneapolis

Susan Marie Burke, Mahtomedi,
WITH HIGH DISTINCTION

Wallace Blair Campbell, Richfield,
WITH DISTINCTION

Judy Ann Carlock, Maple Plain

Joy Elaine Carlson, Stillwater,
WITH DISTINCTION

Katherine Anne Chubb, St. Louis,
Mo., WITH DISTINCTION

Michael Edward Conboy, Sandstone

Dean Marshall Dainsberg, Benson,
WITH DISTINCTION

Judith Roberts Damp, Coon Rapids

Kathleen Louise Devetter Dayton,
Tracy

Nancy Jane DeBoer, Mahtomedi
Michon deVillier, Minneapolis,

WITH DISTINCTION

Mary Ellen Evans, A.L.A.,

Minneapolis, WITH DISTINCTION

Sandra Jayne Fabel, Delano,

WITH DISTINCTION

Suzan Linda Mossey Faus, St. Louis
Park

Rosalee Filstrup, White Bear Lake

Diane Swanson Fitzgerald,

International Falls, WITH
DISTINCTION

Steven Roy Frederickson,
Minneapolis

Brian Edward Gilgosh, Richfield

Della Emogene Glisky, St. Paul

Rita Ann Green, Minneapolis,

WITH DISTINCTION

Sandra Friedman Greenberg,
Minneapolis, WITH DISTINCTION

Peggy Anne Grimes, Minneapolis

Renee Marie Gwynn, Royal Oak,
Mich., WITH DISTINCTION

Judith Anne Hanks, Elk River,

WITH DISTINCTION

Lawrence Edward Hansing, Mound

Bruce Richard Hanson, St. Paul

Nancy Lee Hauser, Minneapolis,

WITH DISTINCTION

Sarah Jane Hayes, Eden Prairie

Holly Jean Herland, Minneapolis

Kenneth Clarence Hess, A.A.,
Paynesville

Marcella McDaniel Higgins, West
St. Paul

William Alan Holden, Minneapolis
 Arvid Verle Holen, Dilworth
 Donald Lee Hooker, Uhrichsville,
 Ohio
 Patricia Ann Munneke Hudak,
 Minnetonka, WITH DISTINCTION
 Patricia Michele Hughes,
 Minneapolis
 Nancy Elizabeth Hunsley,
 Minneapolis
 Nancy Schroeder Jensen,
 Minneapolis
 Evangeline Camilla Johnson, St. Paul
 Luanne Aline Johnson, Hector,
 WITH HIGH DISTINCTION
 Melanie Grace Johnson, Minneapolis
 Sally Alden Jones, A.A., Minneapolis
 Arlyn William Jordan, Robbinsdale
 Patricia Lee Jurek, Minneapolis
 Pamela Diane Bach Kaufman,
 Minneapolis, WITH HIGH
 DISTINCTION
 Camille Suzanne Keefe, Minneapolis,
 WITH DISTINCTION
 Carolyn Joan Koep, A.A.,
 Minneapolis
 Elizabeth Louise Rivard Krenz,
 White Bear Lake, WITH
 DISTINCTION
 William George Krey, Mahtomedi
 Carol Marie Kulzer, Winona,
 WITH DISTINCTION
 Terri Lapinsky, St. Paul
 Carol Jean LaPointe, St. Paul
 Leanne Marie Larson, Minneapolis,
 WITH DISTINCTION
 Lynda Colleen Lawrence,
 Robbinsdale
 Terrance Ray Lewko, Minneapolis
 Mary Jane Loofbourtow,
 Minneapolis
 Kathleen Diane Lynch, Willmar
 Mary Margaret Madison, Lismore,
 WITH HIGH DISTINCTION
 Patrick Gregory Markie, St. Paul
 Kathleen Annette Marpe, Freeborn,
 WITH DISTINCTION
 Barbara Lynn Mayer, Minneapolis
 Karen Johnson McGovern, St.
 Louis Park
 Linda Lee McGregor, Minneapolis

Mary Alice Mehlhouse, Olivia,
 WITH DISTINCTION
 Jeanne Carol Montano, Hopkins,
 WITH DISTINCTION
 Marilyn Sue Morris, Golden Valley,
 WITH DISTINCTION
 Helen Louise Nelson, Austin,
 WITH DISTINCTION
 Lanna J. Deniger Nelson, Willmar,
 WITH DISTINCTION
 Mark Alan Neurauter, St. Paul
 Karen Lynn Northey, Minneapolis
 Cynthia Jean Noun, Rochester
 Winifred Smith Novak, West
 Chicago, Ill., WITH DISTINCTION
 Judith Ann Oberschulte, Chula Vista,
 Calif., WITH DISTINCTION
 Dee O'Heron, Hopkins
 Lawrence De Forrest Olson, St. Paul
 Margaret Becker Olson, Minneapolis
 Richard John Olson, Anoka
 Susan Eve Osman, Minneapolis
 Keith Michael Pahl, B.A.,
 Bloomington
 Dorothy Ann Papatola, Minneapolis
 Marjorie Mae Parsons, Roseville,
 WITH DISTINCTION
 Shirley Ann Peacock, Minneapolis
 Elizabeth Ann Perelstein, St. Paul,
 WITH DISTINCTION
 Phyllis Pauline Pesola, New York
 Mills, WITH DISTINCTION
 Cheryl Raye Peterson, Anoka, WITH
 HIGH DISTINCTION
 Sharon Ann Peterson, St. Paul,
 WITH DISTINCTION
 Susan Dolores Preston, Minneapolis
 Curtis James Rastetter, Lake Elmo
 Linda Marie Rauk, Brooklyn Center
 Marna Holmberg Reigstad, A.A.,
 Pennock, WITH DISTINCTION
 Brian James Richards, Warroad,
 WITH DISTINCTION
 Kathleen Ann Ringhofer, Owatonna
 Carol Marie Rittenhouse, B.A.,
 Robbinsdale
 Sandra Fisher Rosala, Minneapolis,
 WITH DISTINCTION
 Judith Schmidt Rykken, Richfield,
 WITH DISTINCTION
 Thomas Joseph Sakal, Minneapolis

Nancy Kay Salo, Minneapolis,
WITH DISTINCTION
Nancy Elaine Santori, St. Paul,
WITH HIGH DISTINCTION
Jerilynn Joyce Schrupp, Minneapolis,
WITH DISTINCTION
Susan Elizabeth Peck Schultz, St.
Paul, WITH DISTINCTION
Ronald George Scobie, Little Falls
William Edward Shisler, St. Paul
Patricia Catherine Sims, Robbinsdale
Carol Rapacz Slavik, Minneapolis
Mary Kathyren Sloss, Minneapolis
Charles Edwin Smith, Columbia
Heights
Robert Edward Sopoci, B.S.,
Minneapolis
Lon Elliott Spande, Bloomington
Dianne Sorlie Stine, St. Paul
Richard Floyd Syverson, Pennock

Thomas Richard Teeter, Lower
Burrell, Pa.
Frances Kathryn Thorpe, Brooklyn
Park
Eva Doris Trower, New Brighton,
WITH DISTINCTION
Louis Robert Turk, B.A., Hibbing
Mary Jensen Twitchell, North
Branch, WITH DISTINCTION
Barbara Ann Vallejo, Minneapolis
Nancy Kingsbury Geelan Velin,
Redlands, Calif., WITH
DISTINCTION
Karen Blanche Welch, Prior Lake
Ann Elizabeth Whear, Minneapolis*
Peter Michael Wilson, B.A., Park
Rapids
Michael Allen Wolfe, Minnetonka,
WITH HIGH DISTINCTION
Janet Louise Yost, Minneapolis,
WITH DISTINCTION

Master of Education

Richard Paul Forsberg, B.S.,
Rosemount

Solveig Ruth Westby, B.A., Hopkins

COLLEGE OF FORESTRY

Bachelor of Science

George S. Asmus, A.A., St. Paul
Michael James Axtman, Minneapolis
John Campbell Clausen, Minneapolis,
WITH DISTINCTION
Danny Leroy Norberg, Braham
Sandra Lea Richert, Lake Elmo

Anton Martin Sather, Mt. Iron
Joseph Richard Spehar, Mt. Iron,
WITH DISTINCTION
David Joseph Wangsness, Grafton,
N.D., WITH DISTINCTION

* Degree conferred as of December 19, 1970.

GENERAL COLLEGE

Associate in Arts

- Jennifer Shea Adkins, Minneapolis
David Louis Almich, Excelsior
Barbara Mae Anderson, St. Paul
Roger Dean Bailey, St. Paul
Byron Carl Bandelin, Arlington
Wallace Edward Belcher III, Mound
Elaine Marie Blizen, St. Paul
Gary Allan Bonstrom, Bloomington
Robert Craighead Buie, Minneapolis
Marlin Keith Butz, Blaine
Evelyn Lorraine Carter, Bloomington
Marilyn Anne Chapman, Minneapolis
Cleophus Charles Clarke,
Minneapolis
Thomas Howard Cochran,
Minneapolis
Dale Alan Conner, Hopkins
Raymond Alfred Copt, St. Paul
Michael Martin Cunningham, St.
Paul
Therese Elizabeth Dahm, Mankato
Karen Helene Dement, St. Paul
David Harold Estenson, Minneapolis
Ronald John Girard, Minneapolis
Lawrence James Gorton, St. Paul
Roberta Elizabeth Grayson,
Tuskegee, Ala.
Margaret Doloris Greer, Minneapolis
Thomas Richard Grundhauser,
St. Paul
Bill J. Hanna, St. Paul
Gerald Edward Harris, Minneapolis
Rollye Gail Harris, Minneapolis
Barbara Jo Hebnor, Minneapolis
Michael Hohmann, Minneapolis
Steven Ray Homme, Bloomington
Barbara Jean Horgen, St. Louis Park
Gady Jacobus, Haifa, Israel
Charles Lyle Johnson, Jr., South
St. Paul
Dennis LeRoy Johnson, St. Louis
Park
Glenn Peter Johnson, Minneapolis
Kenneth LeRoy Johnson, Richfield
Thomas Martin Kalka, St. Paul
Lyla Ann Karl, St. Paul
William Lee Krammer, St. Paul
Dane Arthur Krogman, Minneapolis
Russell Robert LeRoy, Inver Grove
Heights
Luba Bohdanna Lewyetzkyj,
Minneapolis
Terry Arlen Loiselle, Minneapolis
Daniel Delano Lunzer, St. Paul
Erich George Mader, St. Paul
Howard Wayne McClish, Crystal
Michael Stanley McClure,
Minneapolis
Scott Farrell McDaniel, Edina
Susan Joyce Morrison, Minneapolis
Kathleen Ann Murtha, St. Paul
Lenn Francis Nelsen, Minneapolis
George Leonard Nord, International
Falls
Raymond Joseph Ogren, St. Paul
Charles Matthew Peitso, Minneapolis
Gary Gregory Petersen, Minneapolis
Steven Jay Price, Minneapolis
Ronald Charles Purdy, Minneapolis
Beth Ann Reget, Edina
Cassandra Kay Roberson,
Bloomington
Joyce Kaye Roberson, Minneapolis
John Thomas Rouen, Minneapolis
Wayne A. Russell, Minneapolis
Patricia Ellen Ryan, Minneapolis
Michael David Schlener, Richfield
Susan Lee Schulz, Litchfield
Wynn Cyril Skaja, Minneapolis
Elizabeth Joan Sly, Minneapolis
George Wayne Smith, New Richland
Kelly James Solon, Minneapolis
Darlene Ann Strom, Minneapolis
James Darryl Sundgren, Minneapolis
Marilyn Lorraine Talley,
Minneapolis
Marie H. Tyler, Minneapolis
Elizabeth Rose Tysk, St. Paul
Patrick Edward Voligny, Bayport
Kathleen Ann Waller, Fridley
Steven Thomas Walton, Minneapolis
James Brian Weir, Minneapolis
Timothy Lee Whiteis, Brooklyn Park
Alice Anne Williams, Minneapolis
Gary Arthur Young, St. Paul
Helene Lois Zoss, Hopkins

GENERAL EXTENSION DIVISION

Social Work Certificate

John Joseph Rowe, Hastings

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Stephanie Barstow, Minneapolis
Elizabeth Lee Bozonie, Minneapolis
Linda Mae Davis, West St. Paul
Susan Marie Doering, Minneapolis
Sally Ann Lieb, Minneapolis
Joanne Henrietta Martin, St. Paul,
WITH DISTINCTION
Jane Teresa McKay, Minneapolis
David Lyal Omer, Deer River, WITH
DISTINCTION

Janet Marie Pederson, St. Paul,
WITH HIGH DISTINCTION
Barbara Jean Peterson, Minneapolis
Susan Carol Potocnik, A.A., St. Paul,
WITH HIGH DISTINCTION
Cari Ann Ryan, Minneapolis
Lynnell Marie Sande, Thief River
Falls

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Bachelor of Science

Sharleen Kay Boll, Lake Lillian
Virginia Helen Emery, West St. Paul
Susan Cain Hanson, Bloomington,
WITH DISTINCTION
JoAnne Kirsten Hoff, Fergus Falls
Shirley Jean Humes, Roseville

Terry Lynn Kaelke, Belgrade
Coral Jane Larson, Lake Lillian
Diane Marie Meyer, Foley
Laurel Jean Severson, St. Paul
Ann Louise Skogrand, Kenyon

LAW SCHOOL

Juris Doctor

John Michael Burke, B.A., Davenport, Iowa

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Kris Ann Berglund, Minneapolis
James Harlin Brown, Coon Rapids
Thomas C. Charland, St. Paul
Robert Bruce Cody, St. Paul

Laura Regina Luftman, Minneapolis
JoAnn Mae McKeen, St. Paul
Carol Ann Oberlander, Minneapolis

Bachelor of Arts

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

- Julianne Elizabeth Adleman,
Minneapolis
- Sandra Mai Ahlgren, Minneapolis
- John Frederick Albrecht,
Minneapolis
- Douglas P. Anderson, Minneapolis
- Eric Donald Anderson, New Brighton
- Guy Jeffrey Anderson, Minneapolis
- Kaye Elisabeth Anderson, South
St. Paul
- Roberta Kay Jean Arthur, Cloquet
- Paul Averback, Winnipeg, Canada,
SUMMA CUM LAUDE, Psychology
- Gary Alan Backstrom, Minneapolis
- William Charles Bailey, Minneapolis
- Keith Douglas Baker, Minneapolis
- Joan Dorothy Bangasser, Melrose
- Susan Jeanette Barnum, Glencoe
- John Miller Basgen, Duluth
- Susan Ann Bateman, St. Paul
- Lynn Roi Baumgartner, Minneapolis
- Stephen L. Bechdolt, South St. Paul,
CUM LAUDE, Biology
- Terry Ann Belford, Minneapolis
- Sheila Joyce Bell, St. Paul
- Loren F. Belrichard, Austin
- Helen Marie Berge, Edina
- William Frederick Berglund,
Minneapolis
- Therese A. Berns, Bloomington
- Loretta Cossalter Berryman,
Bloomington, CUM LAUDE, Social
Welfare
- Janis Lee Bielenberg, West St. Paul
- Jeanne Marie Bilder, Winona
- Helen Anne Billing, St. Cloud
- Michael Blaz, St. Louis Park
- Jack Gregory Blesener, Minneapolis
- Chester Douglas Boike, Clara City
- William Remi Boudreau, Minneapolis
- Helen Louise Boylan, St. Paul
- Richard Earl Boynton, Minneapolis
- Patrick Gerard Brannac, Minneapolis
- Carole Brinda, Minneapolis
- Benjamin H. Broder, St. Louis Park
- Laura Ann Brumfiel, Minnetonka
- Rollin Richard Buck, Minneapolis
- William Albert Butler, White Bear
Lake
- Sandra Jo Cahill, A.A., Austin, CUM
LAUDE, Mathematics
- Denise Eileen Carlson, St. Paul
- Joanne Marie Carlson, Minneapolis
- Richard John Carlson, A.A.,
Minneapolis
- Elisa Carmena, Valencia, Spain,
SUMMA CUM LAUDE, Spanish
- David Lee Christian, Mt. Iron
- Sharon Rae Blizard Christianson,
A.A., St. Paul
- Alan Dennis Clingman, South St.
Paul, MAGNA CUM LAUDE,
Humanities
- Stephen Robert Collins, Waseca
- Samuel Glead Cooke, Minneapolis
- Kathleen Hayes Corley, Minneapolis
- William Crear III, Minnetonka Beach
- Richard L. Creighton, Minneapolis,
SUMMA CUM LAUDE, Sociology
- Philip Henry Dahl, Minneapolis
- Gregory John Darcy, Minneapolis
- Jody-Elaine Davis, Duluth, MAGNA
CUM LAUDE, Social Welfare
- Linda Ann Dechaine, Minneapolis
- Alice May Stocker de la Cova,
Minneapolis, MAGNA CUM LAUDE,
Philosophy
- Sandra Lee Denham, Minneapolis
- Donna Lynn Doft, Pine City
- Joseph Patrick Downes, Willmar
- Carolyn Sabra Dullum, Minneapolis
- Robert Lee Edgell, Minneapolis
- Arvey Einar Eeg, Golden Valley
- Sandra Jane Elling, Minneapolis
- Claire Marvel Ellis, Elgin
- Gary William Ellis, Minnesota City
- James Ronald Engeldinger, A.L.A.,
White Bear Lake
- Jill Allison Ervin, Edina
- Mary Ellen Evans, A.L.A.,
Minneapolis, CUM LAUDE, French
- Jeffrey Paul Featherstone, Winona
- Donald Robert Fellowes, Minneapolis

Eleanor Brondum Ferber,
 Copenhagen, Denmark
 Susan Louise Fisette, Minneapolis
 Janice Diane Fitzgerald, Brandon,
 S.D., MAGNA CUM LAUDE, Sociology
 Polly Halliday Forman, Pipestone
 John Edward Frederick, B.A.,
 Minneapolis
 Anita Kay Fronk, Minneapolis
 Eileen Mary Gallagher, Minnetonka
 Donald Paul Gerberding, Excelsior
 Rebecca Gibas, Circle Pines, SUMMA
 CUM LAUDE, Sociology
 Linda Ann Giesen, Minneapolis
 Bruce Thomas Gilbertson, A.A.,
 Minneapolis
 Helen Sue Goldberg, Minneapolis
 Martha Swain Gordon, A.L.A.,
 Mahtomedi, CUM LAUDE, Art
 History
 Karen Sue Gotsdiner, Lincoln, Neb.,
 MAGNA CUM LAUDE, Spanish
 Gloria Grande, Madrid, Spain
 Katharine Ellen Green, Barrington,
 Ill., MAGNA CUM LAUDE, Social
 Welfare
 Todd William Haarstick, St. Paul
 David William Hackman, Rochester
 Robert George Hansen, Jr.,
 Minneapolis
 Patricia Jo Hanzlik, Minneapolis
 George Irving Harrelson, St. Paul
 Alice Lynn Harrington, St. Paul
 Joan Katherine Harrington,
 Minneapolis
 Carl Leslie Harstad, Sebeka
 Michael William Heath, Bloomington
 Madeleine Mary Henry, Robbinsdale,
 MAGNA CUM LAUDE, Classics
 James Edward Hentges, Faribault
 Earl Alphonse Herzog, Albany
 Marilyn Kay Hiatt, St. Paul
 Stephen Gerhardt Hinck,
 Robbinsdale
 Ruth Boesel Hines, A.L.A., St. Paul
 Charles William Hirsch, Kinbrae
 Gary James Hitz, A.A., St. Paul
 Linda Helen Hoganson, Hopkins
 Richard Kent Holmsten, Ely
 John Michael Hopkins, Edina
 Linda Hull, Excelsior

Carolyn Elizabeth Jensen,
 Minneapolis
 David Joseph Jirele, Owatonna
 John Richard Jirik, Deer River
 Cynthia Ann Johnson, Two Harbors
 David Lawrence Johnson,
 Minneapolis
 Ellen Damsgaard Johnson,
 Mahtomedi
 Erlin Jerome Johnson, St. Paul
 Joy Marie Johnson, Forest Lake
 Leslee Ellen Johnson, Minneapolis
 Linda Kay Johnson, A.A.,
 Robbinsdale
 Mary Katherine Johnson,
 Minneapolis
 Stephanie Jean Johnson, Oxon Hill,
 Md.
 Joseph Wayne Judd, Duluth
 Sandra Mary Kacher, Bloomington
 Alan James Kapsch, A.A.,
 Minneapolis
 George John Karklins, Minneapolis
 Allan David Karol, Minneapolis
 John Mathew Kasel, A.A., St. Paul
 Nayyar Rafi Khan, A.A.,
 Minneapolis
 Mary Louise King, Gaylord
 Nelson Holgate King, Wayzata,
 SUMMA CUM LAUDE, Theatre, and
 CUM LAUDE, Humanities
 Eileen Dayton Klein, Provo, Utah
 Katherine Louise Klein, Wayzata
 Fred Steven Knight, Minneapolis
 James Leland Knutson, Anoka
 Margery Eileen Knutson, St. Paul
 Jolene Mary Koester, Glencoe,
 MAGNA CUM LAUDE, Speech
 James Edward Kollodge, Minneapolis
 Helen Marie Kolodji, Clarissa
 Richard Norman Kuyath, Rochester
 Gregory Alden Lang, Isle
 Stephen John Larson, A.A.,
 Minneapolis
 Thomas James Lavaty, La Grange,
 Ill.
 Suzanne Ruth Lechtman, St. Paul
 Linda Marie Lee, Minneapolis
 Peter John Lee, South St. Paul
 John Phillip Legler, Minneapolis
 Walter Kelly Lentz, Faribault

William John Leuthner, Alexandria
 Jill Kristine Lewis, North St. Paul
 John Joseph Longie, Minneapolis
 Bonnie Elizabeth Lovett, Excelsior
 Daniel H. Lucius, Hastings
 Carol Ann Lukas, St. Paul
 Barbara Ann Lundquist, Minneapolis
 Edith Louise Lurvey, Fort Pierre,
 S.D.
 Linda Marie MacDonald, Marshall,
 MAGNA CUM LAUDE, Social Welfare
 James Edward Madigan, A.A., St.
 Paul
 Mary Owen Majorowicz, Rochester,
 MAGNA CUM LAUDE, German
 Thomas John Malterer, Eagle Lake
 Robert Louis Manuel, Watkins
 Roger Charles McDougal, Jr., St.
 Paul
 Bonnie Lucille McIntyre, St. Paul
 Sally Jean McKay, West St. Paul
 Michael William McNabb, Omaha,
 Neb.
 Michael M. McNeil, Rochester
 James Leslie McPherson,
 Minneapolis
 Joyce Ann Merry, St. Paul, cum
 LAUDE, Spanish
 Leo Adam Meyer, St. Paul
 Thomas Hartig Mickelson,
 Robbinsdale
 Richard Edward Miller, St. Paul
 Julianne Raymond Moen,
 Minneapolis
 Pamela Kay Montgomery,
 Bloomington
 James Paul Moore, Perham
 Thomas John Moore, Hopkins
 Linda Kay Morgan, Minneapolis,
 MAGNA CUM LAUDE, Social Welfare
 Steven Alan Morgan, Eden Prairie
 William John Morkrid, Delano
 Roberta Lee Munnich, Minneapolis
 Thomas James Naegeli, Edina,
 MAGNA CUM LAUDE, Biology
 Steven Fredric Neff, St. Louis Park
 Hubert Milton Nelson II,
 Minneapolis
 James Lewis Nelson, Jr., St. Paul
 Nancy Helen Nelson, Ortonville

Robert Bernard Nicholson, Jr.,
 Hibbing
 Wilbert Michael Nordin, A.A.,
 Minneapolis
 Leonard Jerome Norman, A.A.,
 St. Paul
 Alice C. Northrup, Minneapolis
 Nancy Katherine Olkon, Sioux Falls,
 S.D.
 Richard James Olsen, Chisago City
 Margaret Smith Olsgard, Minneapolis
 Geoffrey William Olson, St. Paul
 Elizabeth Ione Packard, Minneapolis
 Virginia Mary Padden, Waverly
 Richard Samuel Paper, Minneapolis
 Tommie Wayne Parish, Horicon,
 Wis.
 Richard Joseph Paul, St. Paul, cum
 LAUDE, Mathematics
 Judith Carol Paulson, St. Paul
 Katharine Ruth Kivett Paulson,
 Indianapolis, Ind
 Charles Wesley Payne, Minneapolis
 Bonnie Jean Pechtel, New Ulm
 Susan Marie Peterson, Hibbing
 Patricia McCaffery Poppler, St. Paul
 Claudia Kaye Prelgo, St. Paul
 Rodney Gehard Ramberg, A.A.,
 Minneapolis
 Margaret Mary Ratcliffe, Wilder, Vt.
 George L. Realander, Shakopee
 James Richard Renner, Minneapolis
 Elizabeth Louise Rigo, A.A.,
 Menno, S.D.
 James Ray Robinson, St. Paul
 Elwood Arthur Rokala, Kingston
 James Nicholas Rolland, Minneapolis
 Mary Jean Roscoe, Brainerd
 Robert John Roscoe, Minneapolis
 Marc Edward Rosenberg, St. Paul,
 MAGNA CUM LAUDE, Journalism
 Sharon Dorothy Sachs, Inver Grove
 Heights
 Elizabeth Levitt Sadoff, Minneapolis
 Kathleen Cheryl Sakariason, Fridley
 Elizabeth Ellen Sandager, Hills
 Ellen Kay Sawicki, Mound
 Lois Marie Scharmer, Winona
 Katherine Elizabeth Schauinger, St.
 Paul
 Kurt Keith Scheid, Minneapolis

Roger Walter Schelper, Edina
 Paul Dennis Scherz, St. Paul
 Jeanne Elizabeth Schmit, St. Paul,
 CUM LAUDE, Mathematics
 Steven Harvey Schouweiler, West
 St. Paul
 Linda Louise Schroeder, Carroll,
 Iowa
 William John Schultz, B.S., Belle
 Plaine
 Joan Laurette Schwartz, St. Louis
 Park
 Lynn Diane Schwie, Wayzata
 Kristi Mareth Sha, Anoka
 Phyllis Schmitzer Shapiro, St. Louis
 Park
 Robert Emmett Sheehy, Jr., Richfield
 Mary Beth Sheppard, Minneapolis
 Lee Mason Sherrill, Minneapolis
 John Tobias Shiner, Minneapolis
 Natalia Sich, St. Paul
 William Charles Sieloff, Wayzata
 Edward Henry Siems, Jr.,
 Minneapolis
 Sidney Bendit Silberberg, St. Louis
 Park
 Richard William Skarolid,
 Minneapolis
 Linda Gale Smith, St. Paul
 Robert Alan Smutka, West St. Paul
 Thomas Clinton Somers, Waseca
 James Frederick Sprungman,
 Minneapolis
 Ann Marie Stanton, St. Paul, SUMMA
 CUM LAUDE, Psychology
 Kristina Louise Steblay, Eveleth
 Randolph Chifran Steer, St. Paul,
 MAGNA CUM LAUDE, Physiology
 David Valentine Stegura,
 Minneapolis
 Laurice Marguerite Walsh Stevens,
 Bloomington
 John Philip Stirratt, Minneapolis
 Judith Kay Stone, Canby
 Susan Marie Swanson, Minneapolis
 Rodney Dean Swenson, Minneapolis
 Peter Gregory Tarasar, A.A.,
 Minneapolis

Jeffrey Cleman Teal, Farmington
 Gail Ann Scheir Thoen, A.L.A.,
 Massapequa Park, N.Y.,
 CUM LAUDE, Anthropology
 Jon Roger Thomas, Minneapolis
 Gary Gordon Thompson, Inver
 Grove Heights
 Nancy Brinkman Tickner, Plato
 David Charles Trapskin, Minneapolis
 Richard Michael Unger, Montevideo
 Jan Robert Vacura, St. Cloud
 Michael Carl Vezner, Minneapolis
 Mark K. Vien, Redwood Falls
 Thomas Peter Vucicevic, South
 St. Paul
 Jeffrey Lane Wagner, Hopkins
 Jeffrey Warner Wales, Lincolnwood,
 Ill., MAGNA CUM LAUDE, Psychology
 Paul Raymond Warpeha, Coon
 Rapids
 James Lee Webster, Ft. Dodge, Iowa
 Robert Bruce Wennerstrom,
 Minneapolis
 Rosanne Joan Werges, Minneapolis
 Gregory Mark Weyandt, St. Paul
 Marsha Diane Whetstone, Grand
 Rapids
 David Allen Willey, Canby
 Michael Dean Williams, Edina,
 MAGNA CUM LAUDE, Economics
 Mary Margaret Wilson, Rice
 James Allen Winkels, A.A.,
 Minneapolis
 Cecilia Anne Wirth, A.L.A., Minne-
 apolis
 Thomas Eugene Witek, Minneapolis
 Michael Joseph Wolff, A.A., Minne-
 apolis
 Richard LeRoy Wratz, Burnsville
 John David Wunsch, A.A., Minne-
 apolis
 Mary Kathryn Yamamoto, Grand
 Rapids
 Eugene John Zgutowicz, A.A., St.
 Paul
 Gwendolyn Ann Zins, Cosmos

Bachelor of Fine Arts

David Bergsland, Minneapolis, cum
LAUDE, Studio Arts
Wayne Harold Branum, Spring
Lake Park
Michael Wm. Freeman, Lakeville

Judith Anne Ryan, South St. Paul,
SUMMA CUM LAUDE, Studio Arts
Richard Anthony Stimmler, Minne-
apolis
Nancy Christine Wood, St. Paul

MEDICAL SCHOOL MEDICAL TECHNOLOGY

Bachelor of Science

Mary Ellen Kinzel Buchar, Hibbing*
Leigh Ann Cherry, Redwood Falls*
Katherine Marie Gornick, A.A.,
Chisholm, WITH HIGH DISTINCTION*
Catherine Mary Leiendecker, St.
Louis Park, WITH DISTINCTION*

Carole Irene Otte, Lexington Village*
Judy Olga Sivertsen, Minneapolis*
Nettie Conser Warwood, Lauder-
dale*

MEDICINE

Bachelor of Science

Gregory Robert Campion, Minne-
apolis
Ivan D. Frantz III, B.A., St. Paul
Albert David Matthew, B.A., Hopkins

Paul Morris Schanfield, B.A.,
Minneapolis
Elliott Byron Scherling, Minneapolis

Doctor of Medicine

Uwe Walter Fohlmeister, B.A.,
Minneapolis
Ivan D. Frantz III, B.A., St. Paul
Paul Robert Fruen, B.S., M.S.,
Hatfield
Tyler H. Gill, A.A., B.A., Virginia
Thomas Donald Hagggar, Lakewood,
Wash.
Paul Richard Julsrud, B.A., Rushford
Joseph Jack Klugman, B.A., B.S., St.
Louis Park

Larry Eugene Lyon, B.A., Luverne
Albert David Matthew, B.A., Hopkins
Michael Metcalf, B.S., Princeton
John Edward Repine, B.S., Oshkosh,
Wis.
Michael Jon Sborov, B.A., M.S.,
Minneapolis
William Edward Scheidt, B.Chem.,
B.S., Minneapolis
Mark Gerard Warnken, B.A., St. Paul

* These degrees are conferred subject to the completion of practical work prior to June 12, 1971.

MORTUARY SCIENCE

Bachelor of Science

Ronald H. Blondin, Kiester
Michael John Burns, Minneapolis
Thomas Joseph Busha, Kelly Lake,
WITH DISTINCTION
Ben Clifford Elfrink, B.A., Isabel,
S.D., WITH HIGH DISTINCTION

James Arthur Emerson, A.M.S.,
Dawson
David Alan Lee, A.M.S., Minne-
apolis
James Terry Smith, Minneapolis
William Harold Zenk, Truman

PHYSICAL THERAPY

Bachelor of Science

Martha Elizabeth Dingman, B.A.,
Prophetstown, Ill.,
WITH DISTINCTION
Joan Marie Drone, LaCrescent
Mary Kay Eastman, Minnetonka,
WITH DISTINCTION
Keith Randal Eckhoff, Willmar,
WITH DISTINCTION
Linda Elaine Eycler, Hokah,
WITH DISTINCTION
Judith Helen Fjerestad, Sioux Falls,
S.D., WITH DISTINCTION
David Andre Hoeper, A.A., Austin
Peggy Ann Hougum, Twin Valley
Joyce Marie Kemper, St. Paul

Jane Audrey Kroos, Milwaukee,
Wis., WITH DISTINCTION
Audrey T. McNurlin, Minneapolis
Richard Curtis Melin, Appleton
SueRilla Mildred Miller, Burnsville
Carol Ann Naber, Golden Valley
Johan Gilman Olson, Parshall, N.D.,
WITH DISTINCTION
Glenn Everett Oren, Minneapolis,
WITH DISTINCTION
Sharon Jeanine Ruhsam, Minneapolis
Virginia Margaret Soule, Minneapolis
Joan Elizabeth Tiefenthaler,
Early, Iowa

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Allan Stewart Frisch, St. Louis
Park

Allan Nicholas Kostynyk, Warroad

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Paul Sheldon Fardig, B.A., St. Paul

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Charles Roger Dotseth, Clarkfield
Jerome Merlin Johnson, Brooklyn
Center
Dennis Simon Klohs, Anoka,
WITH DISTINCTION

Sung Ku Paik, Minneapolis
Jeffrey Peter Paulson, Owatonna
William Roger Zajicek, Hutchinson

Bachelor of Architecture

Robert John Davis, B.S., Argyle,
Wis.
Charles Reede Enestvedt, B.A.,
St. Louis Park, WITH DISTINCTION
Jay Michael Johnson, B.A., Minne-
apolis, WITH DISTINCTION

David Rowland Kroos, Sheboygan,
Wis., WITH DISTINCTION
Luc Olivier Masiee, Paris, France
Leland Bruce Meyer, B.A., St. Paul
Michael David Wirtanen, Virginia

Bachelor of Chemistry

Leonard Charles Jannusch, Plato
Allan Harvey Jevne, Fridley,
WITH DISTINCTION

Michael Douglas Lande, Minneapolis
John Steven Seltz, Minneapolis

Bachelor of Civil Engineering

Thomas Lawrence Benson, Minne-
apolis
Bruce Kenneth Betker, Hutchinson
Jon Alan Bloom, Dawson
James William Booty, Coon Rapids
Bruce Roland Bullert, Glencoe
Robert William Egan, Osseo
Richard Perham Floyd, A.A., Ely
John Lloyd Gannon, Minneapolis
Jeffrey Alan Johnson, Anoka

George Francis Kanz, A.A.,
Plainview
Lyle Gene Keller, Winona
Bruce Elwood Mattson, Lindstrom,
WITH DISTINCTION
David Hilman Pederson, St. Paul
Alexander Polec, Minneapolis
Peter Richard Raatikka, Sebeka
Norman Dale Wagner, Claremont

Bachelor of Electrical Engineering

Jamal Sayid Al-Rifai, Kuwait,
Kuwait
Stephen Patrick Crowley, Minne-
apolis

Neil Gordon Hedtke, Hopkins
Gary Crosby Kulbitski, White Bear
Lake
Gale Kenneth Nordling, St. Paul

Bachelor of Geo-Engineering

Michael Dennis Voegele, Faribault, WITH DISTINCTION

Bachelor of Mechanical Engineering

Dwaine Alvin Abbe, Owatonna
John Martin Anderson, Brainerd
Stephen Everett Benedict, Minneapolis
Bryan Michael Clem, Columbia Heights
James Carlton Elving, Minneapolis
John Louis Hill, Minneapolis,
WITH DISTINCTION
Michael Jacob Kaluza, Fridley
Robert Saxton Koepke, St. Paul
Joseph Frank Lamourea, Buhl,
WITH DISTINCTION
Harry Frank Larson, Hibbing
Lynn Leander Luepke, B.Phys.,
New Ulm

James Tarbell MacDonald, Jr.,
Stoneham, Mass.
Thomas John McEvoy, West
St. Paul
Donald Lee Neal, Edina
Daniel Arthur Oas, Hopkins,
WITH DISTINCTION
Loren Kermit Olson, Detroit Lakes
Robert Lee Renz II, Bloomington
James Frederick Stewart, Fridley
Kenneth Charles Swanson, Princeton, WITH DISTINCTION
Norman Eugene Williams, Motley
Stephen James Zalusky, St. Louis
Park

Bachelor of Physics

Lyle David Dockendorf, Minneapolis,
WITH HIGH DISTINCTION

Bachelor of Science in Geology

Martin William Connolly, St. Paul James Bruce Huss, Bayport

Certificate in Science

John Louis Muske, North St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Margaret Elizabeth MacMillan,
A.L.A., G.D.H., St. Louis Park

Bachelor of Science

Jo Marie Berger, Minneapolis
Gerald Lawrence Brooks, A.A.,
Minneapolis
Ann Elizabeth Golla, Mansfield,
Ohio
Doris June Hill, Northfield

Mildred Hottmann Jackson, A.A.,
St. Paul, WITH DISTINCTION
Theresa Viola Line, Minneapolis
Thomas Henry Nonnemacher,
St. Paul
Mary Elanor Sornsin, Fargo, N.D.
Bruce Meade Swanson, St. Paul

March Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

James P. Moore, Minneapolis

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Field Artillery

Boyd A. Beccue, Sturgeon Lake

Second Lieutenant, Infantry

John R. Jirik, Max

June 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.

GRADUATE SCHOOL

Doctor of Education

Maurice Wilfred Britts, Alton, Ill.

B.A. '50, St. John's University; M.A. '56, University of Minnesota. Major: Educational Administration. Minor: Sociology. Thesis: An Analysis of an Educational Program for Non-White Students at Concordia College, St. Paul. Major Adviser: Prof. V. D. Mueller.

Donald Jacob Christensen,
Bloomington

B.S. '56, Wisconsin State University; M.A. '63, University of Chicago. Major: Educational Administration. Minor: Supporting Field. Thesis: "Grandma's Law" in School: Utilization by the School Principal of Behavioral Objectives and Reinforcement Theory in the Identification, Definition, and Rectification of Problems in the School Setting. Major Adviser: Prof. W. M. Ammentorp.

Gerald Leo Kleve, Anoka

B.S. '59, M.S. '62, Mankato State College. Major: Educational Administration. Minor: Supporting Field. Thesis: Educational Objectives and Learning Activities for Early Childhood Education Programs: A Model. Major Adviser: Prof. R. T. Lambert.

Erma Ellerbroek McGuire, St. Paul

B.S. '59, M.A. '64, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: Development of an In-Service Workshop Model to Effect Change in Teacher Behaviors and Attitudes. Major Adviser: Prof. R. T. Lambert.

Burton Manuel Nygren, Fridley

B.S. '60, M.Ed. '62, University of North Dakota. Major: Educational Administration. Minor: Supporting Field. Thesis: The Applicability of Emerging Models of Metropolitan Education Finance to the Twin Cities Metropolitan Area. Major Adviser: Prof. C. H. Sederberg.

Doctor of Philosophy

Daniel Morton Adams, Jr.,
Chicago, Ill.

B.A. '65, Albion College; M.S. '67, University of Michigan. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Ultrahigh Temperature Alterations of *Bacillus Subtilis* Spore Germination. Major Adviser: Prof. F. F. Busta.

Bill Kaler Addison, St. Paul

B.A. '45, Ball State Teachers College; M.A. '49, University of Minnesota. Major: American Studies. Thesis: The Past in the Works of William Faulkner. Major Adviser: Prof. M. C. Turpie.

Colleen Coghlan Amundson,
Wahpeton, N.D.

B.A. '61, Marquette University; M.A. '64, Rosary College. Major: Education. Minor: Library Science. Thesis: Relationships Between University Freshmen's Information-Gathering Techniques and Selected Environmental Factors. Major Adviser: Prof. R. E. Eckert.

Robert Louis Andersen, Reinbeck,
Iowa

B.S. '60, Iowa State University; M.S. '64, Michigan State University. Major: Horticulture. Minor: Genetics. Thesis: Some Quantitative Genetic Considerations Pertinent to Breeding Asexually Propagated Crops. Major Adviser: Prof. F. I. Lauer.

John Thomas Anderson, Mountain View, Calif.

B.S. '67, Case Institute of Technology. Major: Physics. Minor: Mathematics. Thesis: Thermal Phase Fluctuations in a Josephson Junction and Pair Susceptibility of a Super-Conductor. Major Adviser: Prof. A. M. Goldman.

Charles Leonard Argue, St. Paul

B.A. '62, M.S. '65, University of Minnesota. Major: Botany. Minor: Zoology. Thesis: A Comparative and Developmental Study of the Pollen Wall in Selected Species of the Alismaceae and Butomaceae. Major Adviser: Prof. A. O. Dahl.

Fredric Carl Arnold, Marian, Ohio

B.Ch.E. '65, M.S. '66, Ohio State University. Major: Chemical Engineering. Minor: Mathematics. Thesis: An Analytical Study of Gas-Liquid Reactors. Major Adviser: Prof. N. R. Amundson.

Robert Asher, New York, N.Y.

B.A. '66, City College of New York; M.A. '67, Harvard University. Major: History. Minor: Supporting Field. Thesis: Workmen's Compensation in the United States, 1880-1935. Major Adviser: Prof. Hyman Berman.

Mustafa Omar Attir, Tripoli, Libya

B.A. '62, University of Libya; M.A. '65, University of Pittsburgh. Major: Sociology. Minor: Supporting Field. Thesis: Deviant Means and Normative Goals: A Study of Classroom Cheating. Major Adviser: Prof. D. A. Ward.

Achilles C. Avraamides, Arsos, Limassal, Cyprus

B.A. '57, Bob Jones University; M.A. '63, University of Minnesota. Major: History. Minor: Greek. Thesis: Studies in the History of Hellenistic Cyprus. Major Adviser: Prof. T. B. Jones.

Marc O. Baleiko, Chicago, Ill.

B.A. '66, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Molecular Theory of Transport Processes in Dense Polyatomic Gas Mixtures. Major Adviser: Prof. H. T. Davis.

Sung Hwan Ban, Kyungnaam, Korea

B.S. '55, M.S. '58, Seoul National University; M.S. '63, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Long-Run Productivity Growth in Korean Agricultural Development 1910-1968. Major Adviser: Prof. V. W. Ruttan.

Penny Hiatt Baron, Arlington, Va.

B.A. '64, Pennsylvania State University; M.A. '68, University of Minnesota. Major: Sociology. Minor: Supporting Field. Thesis: Effects of Self-Esteem and Evaluation Instructions on Evaluations of Self and Others. Major Adviser: Prof. D. A. Martindale.

Charles Etheridge Blum, Austin, Tex.

B.S. '64, University of Texas; M.S.A.E. '67, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Transition Flow for a Two-Dimensional Slit. Major Adviser: Prof. T. S. Lundgren.

Barbara Alma Bopp, Lake Bluff, Ill.

B.A. '65, Cornell College. Major: Pharmacology. Minor: Biochemistry. Thesis: The Kinetics of the Penetration of Drugs into the Brain of the Developing Rat. Major Adviser: Dr. H. J. Kupferberg.

Rodney Albert Britten, Eau Claire, Wis.

B.S. '64, University of Wisconsin; M.S. '67, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Mass Spectroscopic Determination of the Masses of the Uranium and Thorium Isotopes Which Head the Natural Radioactive Decay Series. Major Adviser: Prof. W. H. Johnson.

Gerald Armond Brooksby, Minneapolis

B.S. '60, Brigham Young University. Major: Physiology. Minor: Anatomy. Thesis: A Study of Blood Flow and Blood Volume in the Splanchnic Circulation. Major Co-Advisers: Drs. D. E. Donald and J. T. Shepherd.

Krzysztof Kazimierz Burhardt, Warsaw, Poland

M.S. '65, Warsaw Technical University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Urban Traffic System Optimization. Major Adviser: Prof. E. B. Lee.

James Patrick Callahan, Albany

B.A. '64, St. John's University; M.F.A. '67, University of Minnesota. Major: Music. Minor: Music Education. Thesis: Symphony No. 2 (Markings) for Orchestra, Chorus, and Baritone Solo. Major Adviser: Prof. Paul Fetler.

Charles Raymond Chamberlin,
Edmonton, Alberta, Canada

B.A. '58, University of Iowa; M.A. '60, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Differences in Critical Thinking Skills Achievement Following Inquiry Instruction Among Elementary School Males and Females at Three Levels of Intelligence, Anxiety, and Chronological Age. Major Adviser: Prof. R. T. Lambert.

James Yi-hung Chan, Miaoli, Taiwan

B.Ed. '61, Taiwan Normal University; M.Ed. '63, National Chengchi University. Major: Educational Psychology. Minor: Supporting Field. Thesis: An Analytical Comparison of the Analysis of Variance and Chi-Square Procedures Used on Categorized Data. Major Adviser: Prof. D. G. MacEachern.

Chaur Ching Chen, Taipei, Taiwan

B.Ed. '59, Taiwan Normal University; M.A. '67, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: The Effect of Word Associations on Tachistoscopic Word Recognition. Major Co-Advisers: Profs. C. J. Hoyt and S. J. Samuels.

Ching-ping Wang Chen, Szechwan,
China

B.S. '64, Cheng Kung University; M.S. '66, University of Minnesota. Major: Metallurgical Engineering. Minor: Mathematics. Thesis: The Deformation Characteristics of Chromium Single Crystals. Major Adviser: Prof. D. F. Stein.

Chiou-tse Chen, Taitung, Taiwan

B.S. '63, Cheng Kung University; M.S. '67, University of Minnesota. Major: Metallurgical Engineering. Minor: Supporting Field. Thesis: The Influence of Short-Range Order on the Mechanical Properties and Plastic Behavior of Gold-Palladium Alloy Single Crystals. Major Adviser: Prof. M. E. Nicholson.

Tzeng Shing Chen, Taipei, Taiwan

B.S. '63, National Taiwan University; M.S. '66, National Chao Tung University. Major: Electrical Engineering. Minor: Supporting Field. Thesis: A Study of Deformed Optical Cavities and Self-Locking of Lasers. Major Adviser: Prof. R. J. Collins.

Tien Shou Chou, Taipei, Taiwan

B.S. '58, Taipei Institute of Technology; M.S. '65, Kansas State University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Anode Contraction Mechanism of High Intensity Arcs. Major Co-Advisers: Profs. E. R. Eckert and Emil Pfender.

Paul Kenneth Christianson, Mankato
B.A. '59, St. Olaf College; M.A. '61, University of Minnesota. Major: History. Minor: Geography. Thesis: English Protestant Apocalyptic Visions c. 1536-1642. Major Adviser: Prof. S. E. Lehmborg.

LeRoy Russell Clavenna, Joliet, Ill.

B.S. '66, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: Interaction of N₂ With (100)W. Major Adviser: Prof. L. D. Schmidt.

James Ambrose Collins, West Allis,
Wis.

B.A. '65, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: A Configural Approach to the Strong Vocational Interest Blank. Major Adviser: Prof. T. N. Warnken.

Donald Eugene Dahlstrom,
Woodhull, Ill.

B.S. '62, University of Illinois; M.S. '64, University of Nebraska. Major: Genetics. Minor: Supporting Field. Thesis: Genetic Aspects of Selection in Maize at Different Levels of Inbreeding. Major Adviser: Prof. D. C. Rasmusen.

David Roy Dean, Richmond

B.S. '64, M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Optically Induced Diffraction Gratings in Liquids and Solids. Major Adviser: Prof. R. J. Collins.

Warren Thomas Dent, Sydney,
Australia

B.Ec. '64, Australian National University; M.Ec. '66, University of Adelaide. Major: Economics. Minor: Supporting Field. Thesis: The Distribution of the Maximum Likelihood Estimator of the Auto-Correlation Coefficient in a Linear Model with Autoregressive Disturbances. Major Adviser: Prof. G. G. Hildreth.

Lawrence Elden Dettweiler, Victoria,
British Columbia, Canada

B.A. '64, University of California at Berkeley. Major: Child Psychology. Minor: Psychology. Thesis: Activity Level, Inhibition of Responding and Disruptive Behavior in the Classroom. Major Adviser: Prof. H. W. Stevenson.

Adele Koskosky Donchenko, Edina

B.A. '43, University of Chicago; M.A. '62, University of Minnesota. Major: Linguistics. Minor: Supporting Field. Thesis: Bi-Aspectual-Ovat' Verbs in Russian. Major Adviser: Prof. Walter Lehn.

Terence Leonard Dosh, Minneapolis
B.A. '53, St. John's University; M.A. '61, University of Minnesota. Major: History. Minor: Geography. Thesis: The Growth of the Congregation of Saint Maur 1618-1672. Major Adviser: Prof. P. W. Bamford.

Earl Wayne Dunham, Peoria, Ill.

B.S. '65, Drake University. Major: Pharmacology. Minor: Biochemistry. Thesis: Studies on the Release and Vascular Effects of Prostaglandins. Major Adviser: Prof. B. G. Zimmerman.

John Cowell Ellery, Long Beach, Calif.

D.V.M. '66, University of California at Davis; M.S. '69, University of Minnesota. Major: Veterinary Obstetrics and Gynecology. Minor: Supporting Field. Thesis: Spermatogenesis, Accessory Sex Gland Histology and the Effects of Seasonal Change in the Stallion. Major Adviser: Prof. Raimunds Zemjanis.

Paul Anderson Escholz, West Hartford, Conn.

B.A. '64, Wesleyan University; M.A. '66, University of Vermont. Major: American Studies. Thesis: William Dean Howells: The Search for an American Identity, 1873-1897. Major Adviser: Prof. M. C. Turpie.

Gerald Julian Eskin, Palo Alto, Calif.

B.S. '57, University of Maryland. Major: Economics. Minor: Statistics. Thesis: Prediction of Demand Under a Change in Consumption Technology. Major Adviser: Prof. Leonid Hurwicz.

John Oscar Evans, Boulder, Wyo.

B.S. '57, University of Wyoming; M.S. '63, Utah State University. Major: Agronomy. Minor: Biochemistry. Thesis: Differential Response of Zea mays L Inbreds to 2,2-dichloropropionic Acid. Major Adviser: Prof. Richard Behrens.

Stephanie Ann Fisher, Portland, Ore.

B.A. '65, Portland State College; M.A. '70, University of Minnesota. Major: English. Minor: Classics. Thesis: Circe as the Fatal Woman in Milton's Poetry: Milton's Concept of the Renaissance Woman. Major Adviser: Prof. T. A. McNaron.

Dale Irwin Foreman, Idaho Falls, Idaho

B.S. '65, Idaho State University; B.S. '67, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: Bayesian Analysis Applied to Treatment Selection for High School Mathematics Education Including Computer Software. Major Adviser: Prbf. C. J. Hoyt.

John Davis Friede, Albuquerque, N.M.

B.S. '63, St. Benedict's College; M.S. '66, University of New Mexico. Major: Biochemistry. Minor: Microbiology. Thesis: Bacterial Metabolism of Lysine and 5-Hydroxylysine. I. Degradation of Lysine and Hydroxylysine in Pseudomonas. II. Lysine and Hydroxylysine Transport in Streptococcus Faecalis. Major Adviser: Prof. L. M. Henderson.

Aida Eguia Recto P. Garcia, Batangas, Philippines

B.S. '59, M.A. '65, University of the Philippines. Major: Agricultural Economics. Minor: Economics. Thesis: International Market for Philippine Coconut Products. Major Adviser: Prof. J. P. Houck.

Wayne Allen Geyer, Manhattan, Kan.

B.S. '55, Iowa State University; M.S.F. '62, Purdue University. Major: Forestry. Minor: Supporting Field. Thesis: Survival and Growth of Trees on Coal Spoils in Southeastern Kansas. Major Adviser: Prof. H. L. Hansen.

Charles Dean Gibson, Forest Lake

B.S. '59, D.V.M. '61, University of Minnesota. Major: Veterinary Obstetrics and Gynecology. Minor: Biochemistry. Thesis: The Immune Response of the Bovine Fetus. Major Adviser: Prof. R. H. Schultz.

Ernest William Griffith, Carleton, Neb.

B.S.M.E. '64, Kansas State University; M.S. '67, University of Minnesota. Major: Control Sciences. Thesis: On the Observability of Non-linear Systems. Major Adviser: Prof. K. S. Kumar.

Amos Grodjinovsky, Tel-Aviv, Israel

B.S. '66, Northwestern State College of Louisiana; M.S. '67, Queens College. Major: Physical Education. Minor: Supporting Field. Thesis: Standardization of Warm-Up and Its Effect on Performance and on Selected Physiological Parameters. Major Adviser: Prof. J. F. Alexander.

Douglas Michael Cross, Emerald,
Wis.

B.A. '65, Utica College. Major: Psychology. Minor: Educational Psychology. Thesis: Learned Expectancies in Rats Based on Differential Magnitudes of Reinforcement. Major Adviser: Prof. M. A. Trapold.

Josephum Beck Hairston, Taylor, Tex.
B.A. cum laude '60, Harvard University; M.A. '66, University of Texas. Major: American Studies. Thesis: The Westerner's Dilemma. Major Adviser: Prof. M. C. Turpie.

Kaare Hauge, Bergen, Norway
B.A. '64, University of Oslo; M.A. '67, University of Minnesota. Major: History. Minor: Supporting Field. Thesis: Alexandra Mikkailovna Kollontai: The Scandinavian Period, 1922-1945. Major Adviser: Prof. T. G. Stavrou.

Cliff Elvin Helling, Minneapolis
B.S. '61, M.A. '63, Spec. Cert. '68, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Evaluation of a Vocational Exploration In-Service Teacher Training Institute. Major Adviser: Prof. W. G. Meyer.

James Dean Hildreth, Minneapolis
B.A. '65, Macalester College. Major: Psychology. Minor: Statistics. Thesis: Bloch's Law for Reaction Time. Major Adviser: Prof. J. I. Yellott.

Carol E. Holmberg, Minneapolis
B.A. '57, The Principia College; M.A. '58, Columbia University. Major: English. Minor: Supporting Field. Thesis: A Study of William Blake's Fourfold Perceptive Process as Interpreted by William Butler Yeats. Major Adviser: Prof. Roger Murray.

Clyde Richard Houseknecht,
Muncy, Pa.
B.A. '65, Lycoming College; M.S. '67, Pennsylvania State University. Major: Biology. Minor: Wildlife Management. Thesis: Movements, Activity Patterns and Denning Habits of Striped Skunks (*Mephitis mephitis*) and the Exposure Potential for Disease. Major Adviser: Prof. J. R. Tester.

Liang Ying Hung, Taipei, Taiwan
B.S. '63, National Taiwan University; M.S.A.E. '68, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Stability and Turbulence of Flow Between Porous Walls and Studies in the Global Stability of Rotating Flow. Major Adviser: Prof. D. D. Joseph.

Dar-Shong Hwang, Hsinchu, Taiwan
B.A. '61, National Taiwan University; M.A. '66, Vanderbilt University. Major: Statistics. Minor: Mathematics. Thesis: Interval Estimation of Functions of Bernoulli Parameters with Reliability and Biomedical Applications. Major Adviser: Prof. R. J. Buehler.

Jae Chun Hyun, Seoul, Korea
B.S.E. '67, Seoul National University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Hysteresis Effects in the Control Element of a Chemical Reactor. Major Adviser: Prof. Rutherford Aris.

Timothy Akingbola Ilori, Oyo,
Nigeria
B.S. '65, University of California at Los Angeles; M.S. '67, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Turbulent Deposition of Aerosol Particles Inside Pipes. Major Adviser: Prof. B. Y. Liu.

John Arnold Johnson, Minneapolis
B.A. '51, M.S. '64, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Purification and Properties of Lamprey Liver Transaminidase. Major Adviser: Prof. J. F. Van Pilsun.

James Roy Jordan, Fort Collins, Colo.
Th.B. '55, Baptist Bible Seminary; Th.M. '59, Dallas Theological Seminary; M.A. '68, University of Minnesota. Major: History. Minor: Greek. Thesis: Studies in Sumerian Prosopography Sheshkalla. Major Adviser: Prof. T. B. Jones.

David Field Juncker, Ann Arbor,
Mich.
B.S. '63, Massachusetts Institute of Technology. Major: Physiology. Minor: Supporting Field. Thesis: Potassium Efflux During the Cardiac Cycle. Major Adviser: Dr. Victor Lorber.

Jeffrey Stephen Kassel, Minneapolis
B.A. '67, University of Pennsylvania; M.A. '69, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: An Ego Strength Scale for the Personality Inventory for Children. Major Adviser: Prof. R. D. Wirt.

Gordon William Kingston, St. Paul
B.A. '64, M.A.P.A. '67, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: The Departmental Administrative Officer: A Developing Position in the Administration of Higher Education. Major Adviser: Prof. R. E. Eckert.

Craig McNeil Kissock, Morris

B.S. '65, M.A. '67, University of Minnesota. Major: Education. Minor: Anthropology. Thesis: A Study to Test the Value of Microteaching in a Program of Video-Modeling Instruction in the Development of Higher Order Question Asking on the Part of Preservice Teachers. Major Adviser: Prof. W. E. Gardner.

James Karl Klinedinst, Red Lion, Pa.

B.A. '65, Lebanon Valley College. Major: Psychology. Minor: Supporting Field. Thesis: Relationships Between MMPI and PIC Data From Mothers of Disturbed Children. Major Adviser: Prof. R. D. Wirt.

Michael John Kopp, Minneapolis

B.A. '63, University of Minnesota; M.A. '64, Stanford University. Major: History. Minor: Supporting Field. Thesis: Spiritual Odyssey of John Noyes. Major Adviser: Prof. D. W. Noble.

Grover Sanders Krantz, Pullman, Wash.

B.A. '55, M.A. '58, University of California at Berkeley. Major: Anthropology. Minor: Supporting Field. Thesis: The Origin of Man. Major Adviser: Prof. R. I. Murrill.

Harrison Lane, Havre, Mont.

B.A. '50, Montana State College; M.A. '54, University of Minnesota. Major: American Studies. Thesis: Gunfire and a June Afternoon. Major Adviser: Prof. D. W. Noble.

Ji-chia Liao, Chia-yi City, Taiwan

M.D. '61, National Taiwan University. Major: Pharmacology. Minor: Biochemistry. Thesis: Sympathetic Action of Angiotension on Dog's Paw Vascular Bed. Major Adviser: Dr. B. G. Zimmerman.

Thomas Russell Lindquist, Minneapolis

B.Phys. '64, M.S. '67, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Observations of Extraterrestrial X-Rays by a Balloon-Borne Focusing X-Ray Telescope. Major Adviser: Prof. C. J. Waddington.

Idelia T. Loso, St. Joseph

B.A. '37, College of St. Benedict; M.A. '46, M.A. '53, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Community Services in Minnesota Junior Colleges, 1914-1964. Major Adviser: Prof. M. E. Corcoran.

David Joseph Louick, Minneapolis

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B.S. '69, University of Minnesota. Field of Concentration: Nutrition. Major Adviser: Prof. J. W. Nordstrom.

Carol Ann Baitland Cavouras, Fairfax
B.S.N. '64, De Paul University. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. G. N. Sarosi.

Edward Yun Cheng, Taipei, Taiwan
B.S. '68, National Taiwan University. Major: Entomology. Minor: Biochemistry. Thesis: The Relationship of Aging in the Honey Bee, *Apis mellifera* Linnaeus, to Specific Activity and DDT-Sensitivity of Brain ATPase. Major Adviser: Prof. L. K. Cutkomp.

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B.A. '69, St. Procopius College. Field of Concentration: Business Administration. Major Adviser: Prof. R. B. Upson.

Terrance Mathew Costello, Blackduck
B.S. '67, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. L. C. Merriam.

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B.S. *summa cum laude* '69, University of Idaho. Major: Home Economics. Minor: Sociology. Thesis: Selected Social Factors Related to Clothing of Adolescent Girls. Major Adviser: Prof. M. P. Grindereing.

Terence Ericson Duffy, St. Paul
B.S. '63, St. Norbert College. Major: Medical Technology. Minor: Biochemistry. Thesis: A Study of Analytic Variables in the Fluorimetric Determination of Plasma Corticoids. Major Adviser: Prof. E. F. Freier.

Abdelfattah Mohamed Elserafy, Cairo, Egypt
Dip. '63, M.S. '68, University of Cairo. Field of Concentration: Animal Science. Major Adviser: Prof. R. D. Goodrich.

Joseph Chi-You Feng, Ping Tung, Taiwan
B.A. '66, National Taiwan University. Major: Plant Physiology. Minor: Agronomy. Thesis: A Study of Soybean Photosynthetic Rates in Relation to Leaf Anatomy. Major Adviser: Prof. W. A. Brun.

Victor DaHsuan Feng, New Delhi, India
B.A. '68, Drew University. Major: Physics. Minor: Related Fields. Thesis: Construction of Separable Potentials Via Gamma States of a Local Potential. Major Adviser: Prof. B. F. Bayman.

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B.A. '68, Carleton College. Field of Concentration: Physics. Major Adviser: Prof. W. V. Weyhmann.

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B.E.E. '47, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. C. L. Miracle.

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B.S. '69, University of Winnipeg. Major: Mathematics. Minor: Related Fields. Thesis: Topics in Commutative Rings. Major Adviser: Prof. D. W. Kahn.

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B.S. '69, Fairleigh Dickinson University. Field of Concentration: Organic Chemistry. Major Adviser: Prof. W. E. Parham.

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B.A. '69, Portland State College. Field of Concentration: Zoology. Major Adviser: Prof. W. D. Schmid.

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Elaine Jean Handelman, St. Paul

B.A. '64, University of Minnesota. Major: Physiology. Minor: Biochemistry. Thesis: The Transfer Function of the Crustacean Stretch Receptor and of Its Functional Components. Major Adviser: Prof. Carlo Terzuolo.

Phaitoon Hathamart, Thailand

B.S. '60, Kasetsart University. Field of Concentration: Agricultural Economics. Major Adviser: Prof. V. W. Ruttan.

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B.A. '60, Alma College. Field of Concentration: Environmental Health. Major Adviser: Prof. T. A. Olson.

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B.S. with distinction '69, University of Minnesota. Major: Home Economics. Minor: Child Psychology. Thesis: The Relationship of Clothing Conformity and Selected Social Factors to the Friendship Patterns of Adolescent Boys. Major Adviser: Prof. M. P. Grindereing.

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B.A. cum laude '69, St. Mary's College. Field of Concentration: Environmental Health. Major Adviser: Dr. D. E. Barber.

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B.S. magna cum laude '66, Creighton University. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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B.S. with distinction '35, University of Minnesota. Field of Concentration: Home Economics. Major Adviser: Prof. D. R. Bender.

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B.S. '63, Seoul National University. Field of Concentration: Mathematics. Major Adviser: Prof. H. B. Keynes.

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B.A. '67, Colgate University. Field of Concentration: Business Administration. Major Adviser: Prof. R. B. Upson.

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B.A. '69, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

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B.A. '65, M.S. '67, University of Helsinki. Field of Concentration: Ecology. Major Adviser: Prof. H. E. Wright.

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B.S. '68, College of St. Teresa. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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B.A. '69, Indiana University. Field of Concentration: Zoology. Major Adviser: Prof. D. W. Warner.

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B.A. *summa cum laude* '68, Concordia College. Field of Concentration: Mathematics. Major Adviser: Prof. S. A. Gaal.

Leslie Lasker, Johannesburg,
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B.S. '67, University of Witwatersrand. Major: Physics. Minor: Mathematics. Thesis: Satrap—A Fortran Program for Coupled Channel Calculations Using a Surface Delta Interaction Potential. Major Adviser: Prof. B. F. Bayman.

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B.S. '42, University of Minnesota. Field of Concentration: Soil Science. Major Adviser: Prof. J. M. MacGregor.

Terrence Rowley Mace, St. Paul

B.A. '68, Carleton College. Major: Ecology. Minor: Biometry. Thesis: Nest Dispersion and Productivity of Killdeers, *Charadrius vociferus*. Major Adviser: Prof. R. E. Phillips.

Glyndwr Thomas Mainwaring,
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B.S. '66, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. E. C. Abbe.

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B.S. '64, Columbia University. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Caroline Adaobi Opene, Asseh,
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B.S. '67, Iowa State University. Major: Nutrition. Minor: Public Health. Thesis: Possible Relationship Between Dietary Fat and Amino Acid Antagonism in Growing Rats. Major Adviser: Prof. M. D. Doyle.

S. Erik Persson, St. Paul

M.S. '66, Agricultural College of Sweden. Major: Agricultural Economics. Minor: Geography. Thesis: Land Market Processes and Valuation Procedures. Major Adviser: Prof. P. M. Raup.

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B.S. '67, University of Minnesota. Field of Concentration: Animal Science. Major Adviser: Prof. D. E. Otterby.

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Dip. '69, Ecole Nationale Supérieure. Major: Geo-Engineering. Minor: Computer and Information Sciences. Thesis: Subregional Analysis: A Development of the Finite Element Method Application to a Mining Exploitation at a Mountain Site. Major Adviser: Prof. Charles Fairhurst.

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B.S. '69, University of Minnesota. Field of Concentration: Horticulture. Major Adviser: Prof. C. J. Weiser.

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William James Sonsin, Westfield,
N.J.

B.S. '67, Michigan State University. Major: Mathematics. Minor: Computer and Information Sciences. Thesis: Sparse Matrix Algorithms and Some of Their Applications. Major Adviser: Prof. C. A. McCarthy.

Douglas Nicol Strachan, Lima, Peru

B.S. '69, Cornell University. Field of Concentration: Animal Science. Major Adviser: Prof. L. E. Hanson.

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B.S. with distinction '60, University of Minnesota. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Dale Riese Thronson, Bloomington

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La.

B.S. '66, Louisiana State University. Major: Organic Chemistry. Minor: Related Fields. Thesis: An Approach to the Synthesis of Dichotamine. Major Adviser: Prof. R. F. Borch.

Jacqueline Rhea Tweeton, Rochester
B.A. '68, University of Minnesota. Major: Biology. Minor: Psychology. Thesis: Feeding Behavior Elicited by Brain Stimulation in Chickens. Major Adviser: Prof. R. E. Phillips.

William Windsor Wade, Memphis,
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B.S. '63, Spring Hill College. Field of Concentration: Agricultural Economics. Major Adviser: Prof. V. W. Ruttan.

Alta Walker, Ogdensburg, N.Y.

B.A. '64, Syracuse University. Major: Geology. Minor: Geography. Thesis: Geological Evaluation of Remote Sensing Imagery of the Mesabi Range, Minnesota. Major Adviser: Prof. G. R. Rapp.

David Mark Wang, Minneapolis

B.S.B. with distinction '68, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: An Analysis of Chain Banking. Major Adviser: Prof. P. F. Jessup.

Daniel Joseph White, Revelstoke,
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B.C.S. cum laude '65, Seattle University. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Thomas Michael Williams,
Sturgeon Lake

B.S. with distinction '69, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. A. C. Mace.

Barry Lee Winston, St. Louis Park

B.Math. with distinction '69, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. E. F. Cline, Jr.

Gustave Charles Wruck, Pierz

D.V.M. '66, University of Minnesota. Field of Concentration: Veterinary Physiology and Pharmacology. Major Adviser: Prof. C. M. Stowe.

Chen-Fu Yang, Taiwan

B.S. '66, M.S. '69, National Taiwan University. Major: Forestry. Minor: Mathematics. Thesis: Predicting Flexural Creep in Particleboard. Major Adviser: Prof. J. G. Haygreen.

Ronald James Zygmunt,
Laureldale, Pa.

B.S. '69, Lebanon Valley College. Major: Organic Chemistry. Minor: Related Fields. Thesis: Hydrolysis of Trifluoro Acetyl-Thioesters. Major Adviser: Prof. R. E. Barnett.

Master of Science in Agricultural Engineering

Fubara Greene Braide, Bakana,
Nigeria

B.S. '69, Israel Institute of Technology. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Behavior of Soybean Stalk During Cutting. Major Adviser: Prof. C. E. Schertz.

Master of Science in Civil Engineering

Kenneth Elmer Broman, Aitkin

B.S. '63, U.S. Air Force Academy. Field of Concentration: Civil Engineering. Major Adviser: Prof. L. E. Goodman.

Amos Burshtein, Tel-Aviv, Israel

B.S.M.E. '63, Israel Institute of Technology. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. T. Hanley.

Wolfgang Franz Geiger,
Schwäb Gmünd, Germany

Dip. Ing. '69, Technische University. Major: Civil Engineering. Minor: Related Fields. Thesis: Heated Waterflow From Channels Into Reservoirs (The Mixing Internal Hydraulic Jump). Major Adviser: Prof. H. G. Stefan.

Gerald Raymond Seeley, Edina

B.S. '63, University of Wisconsin. Major: Civil Engineering. Minor: Mathematics. Thesis: Free Vibration of a Column With Immovable Supports. Major Adviser: Prof. P. P. Christiano.

Prabhakar G. Shringeri, Mysore,
India

B.E. '67, Bangalore University. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. K. Johnson.

Bruce Michael Thorson, Minneapolis

B.A. cum laude '62, Gustavus Adolphus College. Field of Concentration: Civil Engineering. Major Adviser: Prof. L. P. Pederson.

Master of Science in Dentistry

Edward Sylvester Braun, St. Paul

D.D.S. '63, University of Pittsburgh. Major: Dentistry. Minor: Anatomy. Thesis: The Influence of Thickness and Processing Technique on the Linear Dimensional Change of Three Types of Polymethyl Methacrylate Resin Baseplates. Major Adviser: Dr. E. S. Olsen.

Rodger James Droel, Minneapolis

D.D.S. '69, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Some Relationships Between the Glenoid Fossa Position and Various Skeletal Discrepancies. Major Adviser: Dr. R. J. Isaacson.

Bernhard Harold Ellingson,
Manvel, N.D.

D.D.S. '69, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Relative Stability of Certain Cephalometric Landmarks in Longitudinal Roentgenographic Studies. Major Adviser: Dr. R. J. Isaacson.

Richard Arden Hesby, Lake Preston,
S.D.

D.D.S. '61, Northwestern University. Major: Dentistry. Minor: Anatomy. Thesis: A Study of Attachment Dynamics of the Masticatory Muscles in Response to Functional Alterations of the Intermaxillary Relationships. Major Adviser: Dr. E. S. Olsen.

Ann Margaret Jarvis, London,
England

B.D.S. '67, University of London. Major: Dentistry. Minor: Pathology. Thesis: Minor Oral and Facial Congenital Abnormalities in an Eskimo Population. Major Adviser: Dr. R. J. Gorlin.

Kenneth Theodore Meyer, Mankato

B.S. '67, D.D.S. '69, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Lateral Stresses as Related to Removable Partial Denture Framework Design. Major Adviser: Dr. E. S. Olsen.

John Joseph Miller, Jr., Flint, Mich.

D.D.S. '68, University of Michigan. Major: Dentistry. Minor: Anatomy. Thesis: A Study of the Effect of Autogenous Hemopoietic Bone Marrow on the Rate of Bone Repair. Major Adviser: Dr. D. E. Waite.

Richard LeRoy Miller, Glenwood

D.D.S. '66, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Chemotaxis of Polymorphonuclear Leukocytes in Regards to Dental Plaque. Major Adviser: Dr. L. E. Folke.

Eli Thomas Moawad, Jr.,
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D.D.S. '64, University of Washington. Major: Dentistry. Minor: Anatomy. Thesis: The Viability of Bacteria in a Sealed Root Canal. Major Adviser: Dr. J. R. Jensen.

James Allen Nasby, Bode, Iowa

D.D.S. '69, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Mandibular Rotations as Described by Two Cranial Base Lines and the Effect on Dental Arch Length. Major Adviser: Dr. R. J. Isaacson.

Paul Eric Zehngraff, Minneapolis

D.D.S. '64, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Analysis of Tooth Movement Related to Force Application on Cantilevered Fixed Prosthesis. Major Adviser: Dr. E. S. Olsen.

Master of Science in Electrical Engineering

Gopal K. Garg, Agra, India

B.E. '68, Birla Institute of Technology and Science. Field of Concentration: Electrical Engineering. Major Adviser: Prof. Aldert van der Ziel.

Thomas Frederick Inman,
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B.E.E. '43, University of Michigan. Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. Kumar.

James William Lethert, St. Paul

B.E.E. with distinction '68, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

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

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B.S. '66, University of California at Berkeley. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. L. Kinney.

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B.S.E.E. '66, University of Colorado. Field of Concentration: Electrical Engineering. Major Adviser: Prof. V. D. Albertson.

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B.E.E. '57, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. S. C. Larson.

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B.S.E.E. '62, University of Illinois. Field of Concentration: Electrical Engineering. Major Adviser: Prof. S. J. Kahne.

Master of Science in Industrial Engineering

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Gary Henry Schoeppner, Minneapolis

B.M.E. '70, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Master of Science in Mechanical Engineering

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B.S. '68, Ranchi University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. P. L. Blackshear.

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B.M.E. '65, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Master of Science in Medicine

Klaus Karl Bandilla, Pillkallen, Germany
M.D. '61, University of Hamburg. Major: Medicine. Minor: Microbiology. Thesis: The Antibody Response to Hemocyanin in Man Measured in the Different Immunoglobulin Classes by an Antigen Binding Technique. Major Adviser: Dr. H. F. Polley.

Johnson L. Thistle, Rochester
M.D. '64, Temple University. Major: Medicine. Minor: Physiology. Thesis: Effects of Bile Acids, Cholestyramine and Clofibrate on Cholelithiasis and Bile Composition in Man. Major Adviser: Dr. L. J. Schoenfield.

Surendra Sethi, New Delhi, India
M.B.B.S. '60, Nagpur University. Major: Medicine. Minor: Biochemistry. Thesis: Dietary Effects on Serum Lipids in Experimental Diabetes. Major Adviser: Dr. A. L. Schultz.

Master of Science in Pathology

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M.D. '63, University of Texas. Major: Pathology. Minor: Microbiology. Thesis: Non-Traumatic Laceration of the Ascending Aortic Media: Etiology and Complications. Major Adviser: Dr. J. E. Edwards.

Master of Science in Psychiatry

Gordon Lynn Moore, Rochester
M.D. '60, University of Michigan. Major: Psychiatry. Minor: Related Fields. Thesis: A Psychiatric Study of Patients with Chronic Renal Disease Considering or Undergoing Treatment with Hemodialysis or Renal Transplant. Major Adviser: Dr. E. M. Litin.

Robert Mark Morse, Rochester
M.D. '60, University of Minnesota. Major: Psychiatry. Minor: Related Fields. Thesis: Postoperative Psychoses (Delirium). Major Adviser: Dr. E. M. Litin.

Master of Social Work

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B.A. '69, University of Minnesota, Duluth. Field of Concentration: Social Work. Major Adviser: Prof. E. M. Liebenow.

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Jay Kerr, Jr., Mora

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Certificate of Specialist in Education

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Robert Arthur Peterson, St. Paul

B.S. '50, Eau Claire State College; M.A. '54, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. S. H. Popper.

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B.S. '53, M.A. '68, University of Minnesota. Field: Mathematics Education. Major Adviser: Prof. D. C. Johnson.

Lynn Cook Street, Excelsior

B.S. '56, St. Cloud State College; M.A. '60, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. W. R. Cross.

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Daniel Ray Duncomb, Litchfield
Joseph Frank Elmgren, Edina
Charles Cary Flodquist, North
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David Alfred Gilgenbach, A.A., Taopi,
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Ross Galen Hanson, Thief River Falls
Gerald Wayne Harris, Little Falls
Darrell DeWayne Haugen, Madison
Gerald Lee Henneberg, Appleton
Gordon John Holm, Bloomington
Dennis Harry Hooley, Stillwater
Daniel D. Houlton, Minneapolis
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WITH DISTINCTION

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Roger John Kittok, Maple Plain,
WITH DISTINCTION

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WITH HIGH DISTINCTION
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 Robert Dean Rahman, Plainview
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Wayne Stephen Fairchild, Hibbing
Edward Paul Gadiant, Goodhue
Robert Joseph Hobbs, Winona,
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Duane Dennis Jaenicke, A.Ag.,
Badger
David H. Kitchell, Ada
Brian John Kosel, Sanborn,
WITH DISTINCTION
Kerry Fred Kronebusch, Altura,
WITH DISTINCTION

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Thomas Andrew Meium, Jackson
Donald Keith Mier, Sioux Valley,
WITH DISTINCTION
Richard Darwin Petefish, St. Paul
Robert Mark Richards, Buffalo Lake
Kurt Kuhn Ross, Albert Lea,
WITH DISTINCTION
Rodney Ray Sash, A.A., Brownsdale
David Alan Schams, Dakota
Roger Harold Schwenzfeier, A.Ag.,
Hallock
Kermit Paul Solem, Thief River Falls
David Earl Steuart, Deer Creek
Delvin Lee Tupper, Mazeppa
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Master of Education

Dale Richard Steussy, B.S., B.S., Anoka

COLLEGE OF BIOLOGICAL SCIENCES

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Waseca
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Martin John Brown, St. Paul
John Howard Burgess, Stillwater,
SUMMA CUM LAUDE, Biology
James Michael Cochrane, St. Paul
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Bruce Lee Drake, Minneapolis
Kevin Kendall Farnum, Paynesville
Steven Wayne Greenwaldt, A.A.,
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Dale Edward Greenwalt, A.A.,
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Jerald Arthur Hegdahl, Bloomington
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CUM LAUDE, Biochemistry
Anthony A. Jachimowicz
James Alden Johnson, Minneapolis
Kathleen Anne Johnson, Hibbing
Mark Donovan Johnson, St. Paul,
CUM LAUDE, Biology
Jay Timothy Knutson, Minneapolis
Larry Dean Knutson, Blaine
William Henry Kojola, Minneapolis,
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Robert David Kuehn, Inver Grove
Heights
Thomas Peter Licari, Biwabik

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 SUMMA CUM LAUDE, Microbiology
 Gregory John Loeffler, St. Paul
 Daniel William Malasko, Minneapolis
 Richard McGee, Jr., St. Paul,
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 Virginia Lea Miller, Deerwood, CUM
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 Henry Joseph Mlekoday, Minneapolis
 Robert James Montgomery, James-
 ville, N.Y.
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 Nancy Lee Sauro, St. Paul, CUM
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 David Ashley Sautter, St. Paul
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Bachelor of Business Administration

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Bachelor of Science in Business

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 Gregory Wallace Anderson, Minne-
 tonka
 James Roger Anderson, Milroy,
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 Gary Steven Fortman, Minneapolis
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 Thomas Henry Gastler, Edina
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 Kurt Daniel Krueger, Minneapolis
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 WITH DISTINCTION
 Woodrow John Lievers, Jr., St. Paul
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 WITH DISTINCTION
 Roy Arthur Maiwurm, Crosby
 Gerald Arnold Makela, St. Paul,
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 Keith Nicholas Mazar, South St. Paul
 Robert Allen McKinstry, Carlton
 Hans Leland Melgaard, Mound
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 Kent David Miller, Jr., White Bear
 Lake
 Steven Elwood Miller, Minneapolis,
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 Moines, Iowa, WITH DISTINCTION
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 Rosemount
 Vincent J. O'Keefe, Jr., Lodi, Calif.
 Thomas Jeffrey Oldham, Edina
 Earl Elmer Olson, B.A., St. Paul

Eric Lie Texten Olson, Odin
 Ronald Allen Ommen, Fulda
 Jack Lee Onstott, Montrose,
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 Bear Lake
 Dale Robert Owens, Wayzata
 Timothy Kevin Ozark, Minneapolis
 Alan Gregory Page, Edina,
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 Michael Bryan Patrick, Minneapolis
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 Michael Arthur Pelto, Anoka,
 WITH DISTINCTION
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 Roger Curtis Peterson, Mora,
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 Thomas Edward Peterson, Little
 Canada
 Paul Harvey Phillips, Edina
 Edward Allen Piermantier, Jr., St.
 Paul
 Lee Charles Podpeskar, Virginia
 Steven Harold Ponthan, St. Paul
 Robert Proebstle, Edina,
 WITH DISTINCTION
 Roy Alan Quaintance, Excelsior
 Gregory Jensen Reid, West St. Paul
 John Lisk Reider, Coon Rapids
 Kenneth Allan Richard, Jr.,
 Bloomington
 Kevin Michael Ries, Edina
 Dale Thomas Riley, Edina
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 Lawrence James Rossini, St. Paul
 Thomas Hale Roth, Minneapolis
 Craig Steven Roy, Hamel
 John Atwood Rudberg, St. Paul
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 Leo Charles Ryan, B.M.E., Fridley
 Michael Albert Ryss, St. Paul
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 Remer
 Robert Edward Shebeck, Richfield
 David Craine Sherrill, Minneapolis,
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 Richard Bruce Simonsen, Minneapolis

Lee Crosby Skaalerud, Minneapolis
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 Minneapolis, WITH DISTINCTION
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 Rodney Everett Stein, St. Louis Park,
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 John Robert Stoltenburg, St. Paul
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 Craig Gordon Swanson, Minneapolis
 Kenneth Erland Swanson, St. Louis
 Park
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 WITH DISTINCTION
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 Andrew Richard Ballin, Minneapolis,
 WITH DISTINCTION
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 Minneapolis, WITH HIGH
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 Allen Deane Bliss, Montgomery
 John Michael Collier, Minneapolis
 Gary Charles Cornelison, Duluth,
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 Dwight Cyril DeMaine, St. Paul
 Dennis Earl Doelle, Grand Rapids,
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 Keith Jay Erler, St. Anthony
 Gary Ross Feldman, Bloomington,
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 Russell Nicholas Frys, Jr.,
 Minneapolis
 Gene Irwin Geller, Minneapolis
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 Christopher Bruce Heringlake, Center
 City, WITH DISTINCTION
 Dale Everette Jacobson, B.A.,
 Zumbrota, WITH HIGH
 DISTINCTION
 Cavour Damon Johnson, Coleraine,
 WITH HIGH DISTINCTION
 Gary Mark Johnson, Isanti
 Robert James Johnson, Bloomington
 Terry Tock Jones, B.A., Rochester

Thomas P. Kapla, Hibbing
 Lois Jean Karl, B.S., New Ulm
 Raymond Charles Kieffer, Hastings
 Gregg Allan Larson, St. Louis Park
 Harry Lewis Legan, St. Paul
 Allen Edward Loken, St. Paul,
 WITH HIGH DISTINCTION
 Michael David Long, White Bear
 Lake
 Byron Charles Mach, Pine City,
 WITH DISTINCTION
 John William Malo, St. Paul,
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 Marshalleen Sylvia Patten, Minne-
 apolis
 Jane Stephanie Patwell, St. Paul,
 WITH HIGH DISTINCTION
 Charlotte Ann Paulsen, Edina
 Daniel Robert Paulson, West St. Paul
 Susan Marie Paurus, Minneapolis

Jane Margaret Pearson, Minneapolis,
 WITH HIGH DISTINCTION
 Susan Marie Pedersen, Red Wing,
 WITH HIGH DISTINCTION
 Robbie Nan Perl, Minneapolis,
 WITH DISTINCTION
 Judith ReNell Perrula, Hopkins
 Joyce Marilyn Perron, White Bear
 Lake, WITH DISTINCTION
 Judith DeFosse Peters, Rochester
 Nancy Elizabeth Petersen, St. Paul
 Mary Helen Ellison Peterson, Minne-
 apolis, WITH HIGH DISTINCTION
 Michael David Peterson, St. Paul,
 WITH DISTINCTION
 Patricia Ann Peterson, Minneapolis
 Ralph Richard Peterson, St. Paul
 Rebecca Renee Peterson, Lake Lillian,
 WITH DISTINCTION
 Wanda Jean Poore, St. Paul,
 WITH DISTINCTION
 Meredith Blodgett Poppele, B.A.,
 Minneapolis, WITH HIGH
 DISTINCTION
 Kathleen Mary Pratt, Edina, WITH
 DISTINCTION
 Valli Kay Preiner, New Brighton,
 WITH DISTINCTION
 Marie Theresa Pribyl, Maple Lake
 Donald Jay Price, Hastings, WITH
 DISTINCTION
 Patricia Ann Prindle, Minneapolis
 Elizabeth Holmes Quie, B.A., St. Paul
 Barbara Ann Rau, Severna Park, Md.,
 WITH DISTINCTION
 Mary Catherine Ready, Minneapolis,
 WITH HIGH DISTINCTION
 Jacklyn Rae Reagor, Hopkins
 Pamela Jean Reck, Minneapolis,
 WITH DISTINCTION
 Delores Ann Reeve, St. Paul, WITH
 HIGH DISTINCTION
 Patricia Beryl Reioux, St. Paul
 Holly Anne Reistad, Minneapolis,
 WITH DISTINCTION
 Daniel Theodore Retka, South
 St. Paul
 Theresa Jean Reynolds, A.A., Way-
 zata, WITH DISTINCTION
 Robert Lynn Richardson, Rosemount

Elizabeth Marie Ringwelski,
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 Sherilyn Jones Robertson, A.A.,
 New Brighton, WITH DISTINCTION
 Lawrence G. Robinson, A.A.,
 Minneapolis
 George David Rockwell, Shakopee,
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 WITH HIGH DISTINCTION
 Carol Ann Romanchuk, Minneapolis
 Katherine Ellen Rood, Minneapolis,
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 Daniel Vincent Rooney, Brooten
 Leonard John Rosner, B.A., St. Paul
 Alvin R. Roth, New Scandia, WITH
 DISTINCTION
 Patricia Rehtiene Rumpsa, St. Paul,
 WITH DISTINCTION
 Barbara Susan Saari, Edina
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 Karen Eileen Sandhoff, Robbinsdale
 Anne Martha Savage, St. Paul,
 WITH DISTINCTION
 Margaret Mary Scanlan, North St.
 Paul
 Elisabeth Rosa Schaefer, Richfield
 Ronald Peter Schaefer, St. Cloud,
 WITH DISTINCTION
 Nancy Sue Schapiro, St. Paul,
 WITH DISTINCTION
 Sandra Gayle Scherf, Minneapolis
 Deena Lee Scherkenbach, Minne-
 apolis
 Carol Ann Schiebold, Richfield,
 WITH HIGH DISTINCTION
 Karen Lorraine Schmidt, Eyota,
 WITH HIGH DISTINCTION
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 Mazeppa, WITH DISTINCTION
 Geraldine Ann Schmitz, St. Paul
 James Leonard Schneider, Winona,
 WITH DISTINCTION
 Margaret Susan Schneider, Inter-
 national Falls, WITH DISTINCTION
 Anne Margaret Schoeneberger,
 Perham, WITH HIGH DISTINCTION
 Kathleen Ann Scholljegerdes, Bixby

William Walter Schrader, North
St. Paul
Lois Margaret Schurke, Minneapolis
Marilyn Janet Seeman, Fridley,
WITH HIGH DISTINCTION
Dennis Ronald Seever, Eau Claire,
Wis.
Paula Dianne Sefkow, St. Cloud,
WITH HIGH DISTINCTION
Robert James Sefkow, St. Cloud,
WITH HIGH DISTINCTION
Richard William Selander, Minne-
apolis
Andrea Jeanne Selb, Stillwater
Donna Mae Seline, Cambridge
Lynne Laura Sellner, Minneapolis,
WITH DISTINCTION
Linda Laureen Selvig, Mora
Glen Frank Semanko, Minneapolis
Mary Eleanor Serigstad, Edina
Robert Edward Severson, Bloomington
Patricia Jean Shea, Hugo, WITH
DISTINCTION
Nancy Louise Sheldon, Minneapolis,
WITH HIGH DISTINCTION
Ruth Raun Shiell, Richfield, WITH
DISTINCTION
Wayne Stuart Shilson, Minneapolis
Ralph Carl Sibbet, Minneapolis
Susan Lynn Silcott, Minneapolis,
WITH DISTINCTION
Frances Rose Kawalek Silverberg,
Onamia
Julianne Clare Simpson, Rumson,
N.J., WITH DISTINCTION
Joan Marie Singewald, Minneapolis
Suzanne Carol Skaar, A.A., Hay-
ward, WITH DISTINCTION
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WITH DISTINCTION
Eileen Kathryn Slagle, St. Paul
Susan Jeanne Smedberg, Minneapolis,
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Daniel Joseph Smith, Minneapolis,
WITH DISTINCTION
Douglas Byron Smith, Minneapolis
Judy Lee Smith, Minneapolis
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WITH DISTINCTION
Sally Mae Smith, St. Paul

Katherine Louise Smolik, St. Paul
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Fridley, WITH DISTINCTION
Eve Lynn Soltan, Minneapolis
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Patricia Joan Sommerville, Minne-
apolis, WITH HIGH DISTINCTION
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Columbia Heights
Judith Robin Sontz, Chicago, Ill.
Daniel Harry Spernick, Bloomington
John Jerome Stangl, St. Paul,
WITH DISTINCTION
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Mont.
Lynn Hantz Grizzell Starns,
Murphysboro, Ill., WITH
DISTINCTION
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Betsy Lee Steele, Spiro, Okla.
Sharon Elaine Steen, Richfield
Kyla Louise Stevenson, Edina,
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Clayton Russell Stobb, Ogilvie,
WITH DISTINCTION
Louis Otto Strauch, Wayzata,
WITH DISTINCTION
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Minneapolis
Wayne Bernard Strege, Minneapolis,
WITH DISTINCTION
Janet Claire Strom, Minneapolis
Lynda Diane Strong, St. Louis Park,
WITH DISTINCTION
Ann Adel Strootman, Redwood
Falls, WITH DISTINCTION
Jacquelyn P. Sturm, St. Paul,
WITH DISTINCTION
Jennifer Jane Sullivan, Chaska
Karen Louise Brenna Sundeen, Mabel
Kathleen Ester Suzuki, Minneapolis
Helen Marie Sweeney, Brooklyn
Center
Marla Sallie Tankenoff, St. Paul
Gail Paulette Tellander, A.A., St.
Paul, WITH DISTINCTION
Karen Joan Thimmesch, Minneapolis
Robert John Tholkes, Hugo

Andrea Lynn Thompson, Minneapolis
 Carole Dianne Thompson, Richfield
 Bonita Louise Thorp, Herreid, S.D.,
 WITH DISTINCTION
 Linda Diane Mary Tolle, Minneapolis
 Peggy Elaine Tompt, Willmar
 Francis Stephen Tougas, Minneapolis,
 WITH DISTINCTION
 Roger William Truesdale, Schenec-
 tady, N.Y.
 Susan Jean Untiedt, Minneapolis
 Gregory Robert Utecht, Bloomington,
 WITH DISTINCTION
 John Robert Vanderwall, Mahtomedi
 Linda Kawin VanZandt, St. Paul
 Nancy Darlene Velde, Montevideo,
 WITH HIGH DISTINCTION
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 WITH DISTINCTION
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 M.S.E.E., Minneapolis
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 Linda Kay Wagner, St. Paul,
 WITH DISTINCTION
 Wallace Edward Wagstrom, St. Paul
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 WITH DISTINCTION
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 Minneapolis
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 WITH DISTINCTION
 Betty Jean Weintz, St. Paul
 Leonard Joseph Weiss, Minneapolis
 Fred Carl Welke, St. Paul,
 WITH DISTINCTION

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 WITH DISTINCTION
 Colleen Jean Werdien, Minneapolis
 Claudia Jean Westerberg, Edina
 Patrick Delyan Westrum, Minneapolis
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 Minneapolis
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 Shirley Goltz Whiting, Minneapolis,
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 Columbia Heights
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 Carolyn Kay Winters, Owatonna,
 WITH DISTINCTION
 Catherine Frances Wlaschin,
 Mahtomedi, WITH DISTINCTION
 Sheryl Catherine Wlaschin,
 Mahtomedi
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 Stephanie Jo Wurtz, Minneapolis
 Elaine Antonia Zahhos, Minneapolis,
 WITH DISTINCTION
 Barbara Susan Ziman, Minneapolis,
 WITH DISTINCTION
 Sharon Rayene Zimpel, A.A.,
 Deerwood
 Faith Nancy Zwemke, Kasson,
 WITH DISTINCTION

Master of Education

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Walnut Grove
Rodney Eugene Augustine, B.A.,
St. Paul
James Richard Dotseth, B.S.,
Minneapolis
Robert Earl Drolet, B.S., Burnsville
James Robert Gehring, B.S., Lakeland
Michael Joseph Hahold, St. Paul
Gerald Lee LeClaire, Brooklyn Park
Terry Charles Lehn, Minneapolis
- Jeroldine Kay Lemmer, B.A.,
Minneapolis
John Rupert Otto, B.A., Kalamazoo,
Mich.
Nancy Louise Peterson, B.A.,
Minneapolis
Ronald Edward Troia, B.A., San
Jose, Calif.
Robert John Unze, B.S., St. Louis
Park
John Francis Wozniak, Ogema

COLLEGE OF FORESTRY

Bachelor of Science

- Clifton Joseph Aichinger, St. Paul
Douglas James Anderson, Minneapolis
Alfred Nathan Axelrod, Rockville,
Md.
Ronald Eugene Belongie, Houston
Ronald Carl Berg, A.A., White
Bear Lake
Gary Donald Bergquist, A.A., Mt.
Iron
John T. Beyer, Luverne
Edward Franklyn Birkett III, St. Paul
Mark Arnold Boche, St. Paul, WITH
DISTINCTION
John Patrick Borovsky, Stillwater
Ronald Walter Bowen, Orono
Leroy Earl Briske, Rochester
Douglas Bartley Brown, Whiting,
Ind.
John Matthew Colford, Jr.,
Minneapolis, WITH DISTINCTION
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Darrell Harry Dostal, Owatonna
Donald Frank Estall, Richfield
Jeffrey Scott Fuhs, St. Paul,
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Roy Samuel Hawks, Deerwood
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William Robert Hulbert, Green
Bay, Wis.
Richard David Iverson, Wyoming,
WITH DISTINCTION
Robert Donald Johnson, Hopkins,
WITH DISTINCTION
- John Joseph Klinkhammer, St. Paul
Frank Michael McCorison, St. Paul
Beth Bauck Montgomery, Minne-
apolis
Keith Gilbert Nielsen, A.A., Aitkin
John Charles Notsch, New Brighton
Kenneth Arnold Oja, B.A.,
Minneapolis
Richard Alec Olson, Virginia,
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Michael Edward Ostry, Minneapolis
David Charles Peterson, Minneapolis,
WITH DISTINCTION
Darwin Dwight Priebe, Slayton,
WITH DISTINCTION
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Wappingers Falls, N.Y.
Doyle Lloyd Richards, Eau Claire,
Wis., WITH HIGH DISTINCTION
James Lynn Robinson, Thief River
Falls
James Eric Rolshouse, Minneapolis
Dennis Randal Sampson, Thief River
Falls
Gordon Dean Sanders, A.A.,
Circle Pines
James Richard Schramek, Richfield
Arnold Franklin Setzler, Osseo
John Stephen Viel, Milwaukee,
Wis., WITH DISTINCTION
Thomas Edward Witkowski, New
Brighton

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Associate in Arts

- Richard William Adams, Minneapolis
Beverly Louise Adrian, Minneapolis
Robert Andrew Aitkin, Arden Hills
Patricia Joan Arndt, Kenyon
Daniel Allen Arrigoni, St. Paul
Robert Joseph Auel, Minneapolis
Bjorn Edvard Aune, Minneapolis
Bonny Mae Bailey, Minneapolis
Kathryn Rae Baribeau, Richfield
Bradley Herbert Benson, Minneapolis
Brian Arthur Berger, St. Paul
William James Bergeron, St. Paul
Albert Eugene Best, St. Paul
Robert L. Bina, Owatonna
Henry Joseph Bishop, Minneapolis
Claire Patricia Blake, Clifton, N.J.
Odessa Babb Bond, St. Paul
Nancy Elaine Brovold, Minneapolis
Sandra Lee Brundage, St. Paul
Paul Caldwell, Morganton, N.C.
Patricia Irene Calin, Minneapolis
Christopher Denis Carl, Mendota Heights
Norman Michael Carlson, Minneapolis
Carol Marie Charpentier, St. Paul
Gerald William Collier, Kellogg
Gwen Ida Cherne, Coon Rapids
Gary Martin Couch, Minneapolis
Lynn Adair Curtiss, St. Paul
Jeffrey John Daugherty, Minneapolis
Victoria Marie Dec, Roseville
Richard William Dennig, Minneapolis
Joyce Janelle Elliott, Atwater
Duane Dale Erdman, St. Louis Park
Robert Mark Evans, St. Paul
William James Flahave, St. Paul
Dennis John Flaherty, St. Paul
Delia Mary Fohrman, Minneapolis
Rose Marie Fraser, Minneapolis
Gwynn Shari Frederick, Minneapolis
Cheryl Ann Frey, Minneapolis
Fredricka Laurice Miller Frey, Minneapolis
Thomas Walter Gabrielson, Minneapolis
- John Eugene Galkin, Blaine
Debra Carrie Gammelgaard, Bloomington
Mark Taylor Garnaas, Rochester
Deborah Jean Garrity, St. Paul
Francies Kay Gaulke, Minneapolis
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Charles Geselius, Cambridge
Susan Diane Gilbo, Minnetonka
Michael Craig Godes, St. Paul
Debra Luise Goldman, St. Louis Park
Janet Terri Goodman, Minneapolis
Eunice Whitney Green, St. Paul
James Daniel Greig, Minneapolis
Gregory Darrel Grey, Minneapolis
Catherine Savannah Harris, St. Paul
Beth Denise Haskovitz, Minneapolis
George Allen Hasti, Minneapolis
Jeffrey Lawrence Held, Golden Valley
John Douglas Henk, St. Paul
Linda Roxanne Holm, Taylors Falls
Edwin Gilmen Holt, St. Paul
Susan Lynne Holt, Minnetonka
Douglas Robert Hovelson, Wayzata
John Arnold Jahr, St. Paul
Gregory James Jensen, Minneapolis
Robert Charles Jersak, St. Paul
David Winfield Johnson, Minneapolis
Robert Charles Johnson, Minneapolis
Casey Donovan Kennedy, Minneapolis
Kim August Klawiter, White Bear Lake
Thomas Leroy Krook, Minneapolis
Mary Lou Ann Kruger, St. Paul
Michael Edward Lehmann, Minneapolis
Carol Mae Lewandoski, St. Paul
Harlan Gary Limpert, Richfield
Clifford Erland Lundberg, Minneapolis
Kevin Leigh MacDonald, Minneapolis
Sujatoslaw Malinowsky, Minneapolis
Ronald R. Manderschied, Bird Island
Gregory Carl Mark, St. Louis Park
Thomas Scott Marshall, St. Paul
Richard Lewis Martin, Minneapolis
Robert Roy Martin, Minneapolis

Jerry Willis Mastin, St. Paul
 Carol Beth McCann, Bloomington
 Janet Irene McKay, Minneapolis
 Darlene Faye Meyer, North St. Paul
 Judith Mary Miller, St. Paul
 Richard Claude Mooney,
 Arlington Heights, Ill.
 Byron George Mozis, Minneapolis
 Larry James Nelson, Minneapolis
 Terrance Michael O'Connor, St. Paul
 Collynn Larmos Olsen, Glen Lake
 Edith Lorraine Olson, Minneapolis
 Gerald Allen Olson, Newport
 Paul Gerard Olszewski, Minneapolis
 Vernon Arnold Opgaard, Minneapolis
 Patricia Ann Opitz, Minneapolis
 Albert John Pallas, St. Paul
 Marianne Rose Patient, West St. Paul
 Carol Jean Pearson, St. Paul
 Rena Rae Pearson, Minneapolis
 William David Peterson, Brooklyn
 Center
 Bernice E. Ploog, Minneapolis
 Jerome Edward Raiter, St. Paul
 Ronald Joseph Rapacz, Minneapolis
 David Lyle Rask, St. Paul
 Kevin C. Rasmussen, Minneapolis
 Margaret Ann Reck, Minneapolis
 Roger Efflen Reynolds, Silver Bay
 Janice Aileen Rieger, Minneapolis
 Sally Jean Riess, Pine Island
 Mark Anthony Rihm, St. Paul
 Bonnie Lynn Rosen, St. Paul
 Neal Curtis Rudberg, Minneapolis
 Jean Carol Rust, Skokie, Ill.
 Steve Allan Saarela, Minneapolis
 Cynthia Marie Sabin, Minneapolis
 Sylvester G. Sahme, Warm Springs,
 Ore.
 Dorothea Marie Sanderson,
 Minneapolis
 Lynn Marie Schatzlein, Minneapolis
 David Emil Schell, St. Paul
 Lori Shink Scherling, Minneapolis
 Marc Allan Schlismann, Minneapolis
 Terry Alan Schwanz, Rosemount

Jerry Alan Schwartz, St. Paul
 Mary Jo Schweder, Wayzata
 Stephen Paul Schwertley, Hopkins
 Marilee Joy Selsback, Minneapolis
 Carol Ann Sevig, Minot, N.D.
 Theresa Mary Skon, St. Paul
 Martha Dolores Sonnen, St. Paul
 John Michael Stanek, Minneapolis
 Steven Stanley St. Clair, Minneapolis
 James Anthony Steiner, St. Paul
 Gregory Joseph Stephanie, St. Paul
 Robert Milton Strittmatter, St. Paul
 Kenneth LeRoy Strom, Woodstock
 Sharon Lee Strum, Rochester
 Edward Michael Stulpin, Elizabeth,
 Pa.
 Michael Gerald Sundstrom, Grandy
 James Bruce Swanson, Minneapolis
 Barbara Lee Thompson, Minneapolis
 Kathleen Anne Thompson, Long
 Lake
 Jerome Evan Tolmie, Princeton
 Kathy Lilah Tremann, Minnetonka
 Andrew Paul Tscholl, Minneapolis
 Kenneth Dale Tupper, Minneapolis
 Dean Allen Turner, Golden Valley
 William John Ubel, St. Paul
 Bernadette Mae Unise, St. Paul
 Charlene Mae Vados, Minneapolis
 Janet Lee VanAbel, St. Louis Park
 John Raymond Van Drasek, Jr., Min-
 neapolis
 Patrick Jerome VanKampen, St. Paul
 Karen Lynn Varian, Minneapolis
 Barbara Susan Waiss, Minneapolis
 Carri B. Walder, Minneapolis
 Dorothy Irene Ward, Lindstrom
 Kathleen Margaret Warling, Audubon
 Jay Michael Wilfahrt, St. Paul
 John Delaus Witstine, St. Louis Park
 Ellyn Wan Woo, Bloomington
 Robert William Woodward, St. Paul
 Patrick Albert Wurm, Crystal
 Evonne May Yee, Minneapolis
 Marilyn Ellen Youngren, St. Paul
 Clarence Richard Zangel, Minneapolis

GENERAL EXTENSION DIVISION

Business Administration Certificate

Richard Campbell Hooker, Circle
Pines

Charles Francis Thell, St. Paul
Lee Elmer Vaughan, Minnetonka

Civil Engineering Technician Certificate

James Douglas Filippi, Crystal

Electrical Engineering Technician Certificate

Delbert James Klatt, Minneapolis

Engineering Science Certificate

Gary Curtis Carlson, Minneapolis
Michael Raymond Fagerberg,
Minneapolis
Robert David Kuehn, Inver Grove
Heights

Ronald Olof James Lindberg,
Minneapolis
Merrill Carroll Mendenhall, Minne-
apolis
Ronald Ralph Noyes, Minneapolis
Carl Albert Ross, Wayzata

General Engineering Certificate

Steve Paul Hoca, Minneapolis

Industrial Engineering Technician Certificate

Thomas James Ach, Manassas, Va.

Gerald Joseph Brandt, Northfield

Social Work Certificate

Dale Earl Harbour, Rochester
Calvin Stapleford Mowrey, St. Paul

David Arthur Savard, West St. Paul

COLLEGE OF HOME ECONOMICS

Bachelor of Science

- Kathleen Anne Ewald Andersen, St. Paul, WITH DISTINCTION*
Patricia Kay Anderson, Minneapolis, WITH DISTINCTION
Susan Miller Behrends, LeSueur, WITH DISTINCTION
Gloria Rose-lyn Beliveau, St. Paul
Leanne Sue Bishop, Wayzata
Julie Louise Blazovich, St. Paul, WITH DISTINCTION
Mary Katherine Bodick, Minneapolis
Mary Kay Boltz, Hopkins
Ann Swinburne DeNio, Minneapolis
Monica S. Donnelly, New Ulm, WITH DISTINCTION
Cheryl Leigh Easton, Wayzata
Jennifer Jean Edstrom, Columbia Heights
Karen Nancy Hackner, St. Paul, WITH DISTINCTION
Darla Christine Handlos, White Bear Lake
Gail Lorraine Hayden, LeSueur
Linda Diane Hazel, Fountain
Linda Carol Henriksen, Minneapolis
Sally Carol Holm, Robbinsdale
Marilyn Ruth Hoven, Minneapolis
Jon Robert Jacobson, Hibbing
Margaret Ann Janson, Menahga, WITH DISTINCTION
Cheryl Linda Johnson, St. Joseph
Linda Louise Johnson, South St. Paul
Kathryn Anita Julius, Minneapolis
Pamela Lynn Kane, Bloomington
Julie Ann Keller, Slayton
Roxanne Kelman, Minneapolis
Ruth Ann Kinderman, St. Paul
Janette Marie Kittleson, Blooming Prairie, WITH DISTINCTION
Lois Janet Klemm, St. Paul, WITH DISTINCTION
- Jeanne Louise Krantz, Minneapolis*
Patricia Marie Kvols, Madison
Mina Elaine Larson, Glenwood
Rebecca Sue Lacey, Palatine, Ill.
Gail Jean Leister, St. Paul
Barbara Joan Lund, Hopkins
Carol Hoelscher Lundstrom, Browerville, WITH DISTINCTION
Peggy Annette Madson, Hopkins, WITH DISTINCTION
Jeri Lynn Magner, Minneapolis, WITH HIGH DISTINCTION
Linda Yanish Maschwitz, Bagley
Martha Jane Matteson, Minneapolis
Dale Stanley Nielsen, St. Paul
Daphyn Gustafson Nordeen, Minneapolis
Frances Genevieve Ouellette, St. Paul
Mary Johanna Peterson, Alexandria
Patricia Anita Pfeifer, Lake Itasca, WITH HIGH DISTINCTION
Phyllis Ann Pivorun, Lester Prairie
Nellie Ann Pruski, St. Louis Park
Jean Pucel, Ely
Joan Louise Radford, Duluth, WITH DISTINCTION
Ardell Fay Runke, Glencoe
Louise Marit Senstad, Golden Valley
Patricia Ray Shasky, Osseo
Barbara Ann Soderholm, Worthington
Jeanne Kathryn Spieker, Jordan, WITH DISTINCTION
Lisa Maureen Sugden, St. Paul
Patricia Ann Thurow, St. Paul
Susan Eileen Weekes, New Brighton
Cheryl Ann Wilson, Brainerd, WITH HIGH DISTINCTION
Rosann Glee Youngsma, Chandler, WITH DISTINCTION

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Bachelor of Science

- Frances Elizabeth Bartsh, Zumbrota,
WITH DISTINCTION
Sandra Ann Berglund, Aitkin,
WITH DISTINCTION
Julie Ellen Brage, Cannon Falls
Angela Corrine Carlson, North
Branch
Sharon Diane Casey, Bloomington,
WITH DISTINCTION
Jeanne D. Thorpe Chiodo,
Minneapolis
June Ann Dale, Minneapolis,
WITH DISTINCTION
Linda Rose Day, St. Paul
Caroline Marie Drevlow, Ada,
WITH HIGH DISTINCTION
Jane Elizabeth Forrey, Robbinsdale,
WITH DISTINCTION
Jane Christine Grabowski, St. Paul
Margaret Elizabeth Greenfield, River
Falls, Wis.
Donella Jean Gunderson, St. Peter
Linda Mae Hanney, Brooklyn Center,
WITH HIGH DISTINCTION
Shirley Emma Hansen, Jackson,
WITH DISTINCTION
Elaine Adela Hanson, Minneapolis
Ilene Marie Hiaasen, Newfolden,
WITH DISTINCTION
Judith Ann Homan, Minneapolis,
WITH DISTINCTION
Rebecca Marie Hruska, Waterville
Patricia Marie Husnick, St. Paul Park,
WITH DISTINCTION
Nancy Lynn Johnson, Hector,
WITH DISTINCTION
Mary Lee Jost, Maple Lake
Jean Marie Larson, Mazeppa
Jane Marie Marcotte, Marshall,
WITH DISTINCTION
Roberta Ann Mattson, Ely
Janet Lee Nesseth, Lakefield
Sally Jane O'Brien, Milaca
Carol Ann Pederson, Amboy
Alice Templin Samuelson, Coon
Rapids, WITH HIGH DISTINCTION
Sheila Jane Schmitt, Mazeppa,
WITH DISTINCTION
Carol Lorraine Skelly, Kilkenny,
WITH DISTINCTION
Donna Jean Snetting, Minneapolis,
WITH DISTINCTION
Mary Ruth Tangen, Wanamingo,
WITH DISTINCTION
Barbara Gayle Dahlin Thatcher,
Duluth, WITH HIGH DISTINCTION
Sara French Jean Warriner, Chatfield,
WITH HIGH DISTINCTION
Carol Ann Weimerskirch, Norcross
Janet Kay Weness, Adams
Catherine Ann Yngsdal, Minneapolis,
WITH DISTINCTION

Master of Education

Barbara Virginia Marti, B.S., Minneapolis

LAW SCHOOL

Juris Doctor

- Thomas Leonard Aarestad, B.A.,
Bloomington
- Sandra Kay Agvald, B.A.,
Burlington, Iowa
- Julie Ann Anderson, B.A. cum laude,
Duluth
- Harley Nelsen Andrews, B.A.,
Marquette, Mich.
- Charles Bans, B.A., St. Paul, CUM
LAUDE
- Ronald William Benson, B.S., Sioux
Falls, S.D.
- John Devon Berchild, Jr., B.S.,
Superior, Wis., CUM LAUDE
- Danny Bob Berenberg, B.A.,
Minneapolis
- James Robert Berens, B.A.,
Minneapolis, CUM LAUDE
- Harold Robert Berk, B.A., Chicago,
Ill.
- John Frederick Beukema, B.A.,
Minneapolis, MAGNA CUM LAUDE
- Diane M. Braiter, B.A., Minneapolis
- Frederick Christian Brown, Jr., B.A.,
Litchfield, CUM LAUDE
- John Charles Bruse, B.A., Blair, Neb.
- Donald Howard Burgett, Jr., B.A.,
Detroit Lakes
- Dianne Marie Campbell, B.A.,
M.S.W., St. Cloud
- Richard Lewis Cesario, B.A.,
Minneapolis
- Terry John Chmielewski, B.A., Foley
- Norman Anton Christensen, Jr.,
B.A., Rochester
- Michael Vincent Ciresi, B.A., St. Paul
- Richard Ernest Croft, B.A.,
Minneapolis
- Charles Vernon Dale, B.A., Forest
Lake
- David James Davenport, B.A.,
Turtle Creek, Pa.
- Robert Crowell Dawes, B.A.,
Minneapolis
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- Steven Dan DeRuyter, B.A.,
Sunburg, CUM LAUDE
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Jackson
- Bryan Timothy Durick, B.A.,
Columbus, N.D.
- Gregory Lee Edlefsen, B.M.E.,
Richfield, CUM LAUDE
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Sacramento, Calif.
- Jerry Kenneth Fellows, B.A.,
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Brainerd
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Minneapolis, CUM LAUDE
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Roseville, CUM LAUDE
- Loren John Friesen, B.A., Mt. Lake
- William Fred Garber, B.A.,
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Fergus Falls
- Barry Alan Gersick, B.S., B.A.,
Rock Island, Ill.
- Richard Lawrence Gill, B.A.,
Chicago, Ill.
- Stephen Roger Gilliland, B.A.,
Pipestone
- William Gordon Golla, B.B.A.,
Spencer, Iowa
- Richard George Gomsrud, B.A.,
Janesville
- Robert Louis Grossman, B.S.,
Minneapolis
- Gregory Dean Gustafson, B.A.,
Minneapolis, CUM LAUDE
- Karl Moore Gustafson, B.A., Boulder,
Colo.
- Steven Vincent Hagberg, B.A.,
Minneapolis
- Michael Walter Halstead, B.A., Edina
- James Thomas Hanks, B.A., Moose
Lake
- Patricia O'Gorman Harris, B.A.,
Cannon Falls
- Paul Gerhard Hegland, B.A.,
Minneapolis

- Frank David Henefield, B.A., Richfield
- Donald James Heng, Jr., B.A., Minneapolis, MAGNA CUM LAUDE
- David Drake Himlie, B.A., Richfield
- Allan Nels Hopen, B.A., Minneapolis
- Mildred Malm Hossfeld, B.S., Ph.D., Minnetonka
- David Gale Hottmann, B.A., Aberdeen, S.D.
- William R. Howard, B.A., Arlington, Va.
- Thomas Richard Hughes, B.S.B., St. Paul
- Thomas Beacom Humphrey, Jr., Minneapolis
- John Leo Hunter, B.A., M.B.A., Fitchburg, Mass.
- Craig Wayne Johnson, B.A., Owatonna
- Jeffrey Winston Johnson, B.A., St. Paul, CUM LAUDE
- Michael Dean Johnson, B.A., Owatonna
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 Lorentz E. Wittmers, Jr., B.A., Minneapolis
 Philip Arlen Wold, B.A., Burnsville
 John Hugh Wolff, B.A., St. Paul
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 Franklin Joseph Zieve, B.A., Minneapolis

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 Blair Michael Bycura, Akron, Ohio
 Mark Owen Firlie, Minneapolis
 Roger Lawrence Hauge, A.M.S., Minneapolis
 Jerome Jay Hurley, Havana, Ill.,
 WITH DISTINCTION
 David Arthur Karsnia, Browerville

Robert Taylor Lane, Jr., A.A.S., Niagara Falls, N.Y.
 Russell Samuel LeBarron, Minneapolis, WITH HIGH DISTINCTION
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 Deborah Mary McGough, St. Paul,
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 Sandra Lynn Peterson, Minneapolis*
 Judith Diane Portz, St. Louis Park*
 Robert Eino Salo, St. Paul,
 WITH DISTINCTION*

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WITH DISTINCTION
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SCHOOL OF NURSING

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 Wendy Lee Wilcox, Minneapolis, WITH DISTINCTION
 Pauline Ruth Winjum, Brainerd, WITH HIGH DISTINCTION
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Joel Dean Amundson, Winthrop
Joseph Matthew Anderson, A.A.,
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WITH DISTINCTION
Harry Deem Argetsinger, Minneapolis
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INSTITUTE OF TECHNOLOGY

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 Lake
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Bachelor of Agricultural Engineering

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 Dwaine Clifton Kamnetz, Chatfield,
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 Sanderlan Smith Day, Minneapolis,
 WITH DISTINCTION
 Christopher Jerry Dietrich,
 Minneapolis
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 Daniel Jay Gill, St. Louis Park
 Charles Herbert Grose, Hong Kong,
 WITH DISTINCTION
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 Randolph Clifford Hansen, New
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 John Michael McCarthy,
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Marshfield, Wis.
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Jean Ann Weber, Minneapolis
Neil Walter Weber, Appleton, Wis.
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Bachelor of Chemical Engineering

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WITH HIGH DISTINCTION
Duane Dean Bruns, Hinckley,
WITH HIGH DISTINCTION
Paul Philip Burrell, Minneapolis
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Walter Francis Fennell, Jr., Lincoln
Park, N.J.
Donald Stephen Fitterer, Litchfield,
WITH DISTINCTION
Daniel John Flesher, St. Paul, WITH
HIGH DISTINCTION
Roger Donald Freeman, Virginia
Jerry David Halvorson, Roseau
Richard Lloyd Jambor, Virginia
Lyle William Kirmis, Jud, N.D.
Thomas William Klein, St. Paul,
WITH DISTINCTION
Nicholas Daniel Kovich, Warba,
WITH DISTINCTION
Jon Howard Krogh, Cromwell,
WITH HIGH DISTINCTION

Stephen Robert Larson, Princeton, Ill.
John Garvin Lee, Lake Crystal, WITH
HIGH DISTINCTION
Michael Robert Lutz, Byron
Jose Maria Marzo-Serrano,
Guayaquil, Ecuador
Tim Nelson Martin, Wayzata,
WITH DISTINCTION
John Edward McCall, Jr., St. Paul
Peter Carney McCarthy, Duluth
Peder Eugene McHattie, Roseville
Laurie Jo Ondich, Brooklyn Center,
WITH DISTINCTION
Michael Melvin Pink, Minneapolis
James Norbert Rademacher, Freeport
Leland Norman Rockvam, Rochester
Walid Said Sadik, Saida, Lebanon
Charles Matthew Schiff, Watkins,
WITH DISTINCTION
Glen Harrison Schmiesing,
Cambridge
Rolf Norman Schulz, Minneapolis
Bernard Mathias Siebenaler, Hastings,
WITH HIGH DISTINCTION
Bernard Stephen Springrose, Edina,
WITH DISTINCTION
Charles Ewalt Taylor III, Columbia
Falls, Mont.
Neil Francis Turner, Shafer
Dave Duane Verness, St. Paul

Bachelor of Chemistry

David Weston Anderson, Fargo,
N.D., WITH DISTINCTION
Linda Margaret Anderson, Frazee
Barbara Jean Bezdicek, Lakefield,
WITH DISTINCTION

Dale Larry Christensen, Ellendale,
WITH DISTINCTION
John D. Doring, St. Paul
Kay Louise Franzen, B.S. with high
distinction, Minneapolis, WITH
HIGH DISTINCTION

Susan Esther Groth, Morris
Fredrick John Gustafson,

Minneapolis, WITH HIGH
DISTINCTION

Robert John Heinen, Richfield,
WITH DISTINCTION

Michael Kevin Hennessy, Richfield

Floyd Earo Knight, Minneapolis,
WITH HIGH DISTINCTION

William Eli Momsen, St. Paul,
WITH DISTINCTION

Maureen Elizabeth Mulvey, New
Hope

Eileen Marie Nottoli, Skokie, Ill.,
WITH HIGH DISTINCTION

Peter Carlton Olson, Minneapolis
Ronald Steven Ostrow, Golden

Valley, WITH DISTINCTION
Dennis Ralph Pickering, Columbia
Heights

Michael Peter Strand, New Hope,
WITH HIGH DISTINCTION

Alfred Charles Villaume, St. Paul

Bachelor of Civil Engineering

Charles Robert Ashton, St. Paul,
WITH DISTINCTION

Clyde Theodore Bade, Bruno

Gabriel Steven Bodoczy, Minneapolis

Thomas Emil Brovold, Hopkins

Richard Marvin Carroll, Colfax,
Wash.

Gary Donald Danielson, New London

Stuart Vernon Dobberpuhl,
Alexandria

Larry Keith Feldhahn, Spring
Valley, Wis.

Marcus Ronald Flygare, Gibbon

Patrick Michael Foley, St. Paul,
WITH DISTINCTION

Gregory John Frank, Olivia,
WITH DISTINCTION

Edward Howard French, Duluth

Jay Foster Griffin, Baldwin, Wis.

Thomas Marion Hals, North
Branch, WITH HIGH

DISTINCTION

Isamu Sam Higuchi, Jr., Minnetonka

Raymond John Jackson, Jr., Minne-
apolis

Wing Ho, Kowloon, Hong Kong,
WITH HIGH DISTINCTION

John Eli Howard, Hibbing,
WITH HIGH DISTINCTION

David Leon Kotilinek, St. Paul

Arthur Douglas Larson, Bemidji

Lou Leslie Leibbrand, Savage

Michael R. Lownsbury, Willmar

Joel Michael Marshik, B.S., Minne-
apolis, WITH HIGH DISTINCTION

Walter Marusenko, Minneapolis

Robert Joseph McPartlin, St. Paul

William Harold Moldestad, Redwood
Falls, WITH DISTINCTION

Dennis Edmond Neu, Cold Spring

Gregory Alan Nikodym, Mora

James Michael Noska, Richfield

John Anthony Pirkel, St. Paul

James Thomas Povich, Hibbing

Marilyn Ruth Schroeder, B.A., St.
Paul

Richard Adolph Skalicky, Minnea-
polis

John Henry Stodola, Buffalo

Daryl Eugene Zuelke, Albert Lea,
WITH DISTINCTION

Bachelor of Computer Science

Arne Eilert Helm, Minneapolis

Dale Michael Schreiner, Buffalo
Lake, WITH HIGH DISTINCTION

Bachelor of Electrical Engineering

Eugene Charles Adrian, St. Paul,

WITH DISTINCTION

Ronald Ray Amundson, St. Louis
Park

Gary David Anderson, Duluth

Gary Herbert Anderson, Minneapolis

Jon Alan Anderson, White Bear Lake

Lloyd Lee Anderson, Fergus Falls

Robert Warren Argetsinger, Pipe-
stone

Lawrence Charles Arvidson, Coon
Rapids

Bernard Dale Ashfeld, Woonsocket,
S.D.

Michael Francis Barrett, Annandale,
WITH DISTINCTION

Bruce Alan Barsness, Fergus Falls

Mitchell Anthony Bauman, Minne-
apolis, WITH HIGH DISTINCTION

John Edward Bergstrom, Minneapolis

Larry Lee Blakesley, Aitkin

Paul Joseph Blomberg, Minneapolis

Delwin Lee Bothof, Slayton, WITH
DISTINCTION

Robert John Brice, Ely

Richard Blackstock Brown, Minne-
apolis, WITH HIGH DISTINCTION

Ronald Dale Buckman, Roseville

John Caverly Burho, Hibbing, WITH
HIGH DISTINCTION

Daniel Lee Carlson, Chisholm

LaVerne Andrew Caron, Faribault,
WITH DISTINCTION

David Chueh-ming Chang, Taipei,
Taiwan, WITH DISTINCTION

Michael Chi-Yan Cheung, Hong
Kong, WITH DISTINCTION

Kenneth Charles Crandall, Glen
Lake, WITH DISTINCTION

Steven Harold Curtis, Minneapolis

Ronald Dean Dahl, Northfield

James Elmer Derks, St. Paul

Daniel Lee Doss, Janesville

Robert Donald Dreher, St. Paul,
WITH HIGH DISTINCTION

John Ferdinand Edstrom, Two Har-
bors

William Irvin Eggers, Marine-on-St.
Croix, WITH DISTINCTION

Timothy Albrecht Erhart, Pine City

Robert Allen Everson, Deerwood

Michael William Farrell, Minneapolis

Thomas Evan Ferrin, Minneapolis

Richard Harold Finn, St. Paul

Steven Arthur Fisher, Minneapolis,

WITH DISTINCTION

LeRoy John Forstie, Roseville, WITH
HIGH DISTINCTION

Ronald William Foss, Minneapolis,
WITH DISTINCTION

Donald Thayer Freeman, Minneapo-
lis

Richard Dale Garland, Duluth

Alexander Anthony Giacomuzzi,
Duluth

Joseph Wai-Tak Goh, Hong Kong

Randall James Gort, Clara City

Gurman Gozum, Minneapolis

Thomas Robert Graham, St. Louis

Park, WITH DISTINCTION

Robert Leslie Haleen, Robbinsdale,
WITH DISTINCTION

Karen Elena Hawley, Minneapolis

Roger William Hoffman, A.A.,
Virginia

Thomas Jeffry Hostad, Osseo

John Marshall Huggins, Dell Rapids,
S.D., WITH HIGH DISTINCTION

Michael Joseph Hurley, St. Paul

Joseph Arthur Jackson, Pine Island,
WITH DISTINCTION

Gerald Henry Janish, Minneapolis,
WITH DISTINCTION

Michael Thomas Jensen, Lakeville

Wallace Norman Jensen, Brownsdale

James Robert Johannsen, Minneapo-
lis

Allan Paul Johnson, Minneapolis

Craig Bruce Johnson, Grand Rapids

Terence Anthony Keefe, St. Paul

Kevin Mark Keymer, Hopkins

Ryd Sik Kim, Seoul, Korea

David Alan Kocina, Minneapolis,
WITH DISTINCTION

Leonard Kopperud, Jr., Richfield

Harvey Gerald Laabs, Fairmont

Lionel Abel Laguna Lambruschini,
B.A., Huanuco, Peru

Kai Yiu Lam, Hong Kong, WITH
HIGH DISTINCTION
Gary Dean Lane, Cambridge
Leroy Austin Larson, Slayton
Ronald Charles Laska, St. Paul
Jack Aldan LaVigne, Hopkins, WITH
DISTINCTION
Lawrence Oliver Lee, Fridley
Kenneth John Lehto, Gilbert
Chester Lewandowski, Virginia,
WITH HIGH DISTINCTION
Robert Allen Lien, A.A., Virginia,
WITH DISTINCTION
Douglas James Lillegaard, Windom,
WITH DISTINCTION
Robert Lockett Linderberg, Minne-
apolis
John Allen Lindgren, St. Paul
Jay Robert Loberg, Buffalo
Jay Richard Lofgren, St. Paul
Charles Dale McKeen, Minneapolis
Gaylen Dean Melby, St. Paul
Ronald John Meyer, Minneapolis
Dale Michael Naatjes, St. Paul
Bruce Duane Nelson, Welch
Dennis Leroy Nelson, Roseau
Roger Lincoln Nelson, Osakis
Thomas Emanuel Newman, Grand
Rapids, WITH HIGH DISTINCTION
Frank James Nisbet, Jr., Minneapo-
lis
Walter Raymond Olds, Baudette,
WITH HIGH DISTINCTION
Miles Stephen Olson, Fergus Falls,
WITH DISTINCTION
Selves John Olson, Shakopee
Warren Frederick Olson, Pierre, S.D.,
WITH DISTINCTION
Norman Lester Ovick, A.A., Virginia,
WITH HIGH DISTINCTION
Kim William Reuter, Bemidji, WITH
HIGH DISTINCTION
Bruce John Rogers, Minneapolis
Neil Lynn Roper, A.A., Rose Creek
James Richard Ruesch, A.A., Fulda,
WITH DISTINCTION
Donald Edward Sable, B.M.E.,
Bloomington
John Henry Schroeder, Hutchinson

Allen Frank Schrupp, Columbia
Heights
Mark Adrian Schueller, St. Paul
Dan Lee Scott, Littlefork
Richard Scott Seeling, Grand Rapids
Anthony James Segale, St. Paul
Charles Edward Skeldon, Minneapo-
lis, WITH DISTINCTION
Khaled Mohamed Slayhi, Minneapo-
lis
Wayne Swiggum Smythe, Austin,
WITH HIGH DISTINCTION
Mark Clayton Spear, Roseville, WITH
HIGH DISTINCTION
Russell Scott Stephens, Hopkins
Ronald L. Strandlund, Minneapolis
Hendrik Cornelius Struyk, A.A., Hol-
landale
Michael Thomas Syfko, St. Paul
Bruce Edward Tam, Golden Valley
Steven Wayne Tanamachi, Richfield
David Jerome Tanglin, Braham,
WITH DISTINCTION
Sawasd Tantaratana, Dhonburi, Thai-
land, WITH HIGH DISTINCTION
James George Terpstra, Minneapolis,
WITH HIGH DISTINCTION
James Edward Themig, Vandalia, Ill.
Michael Dennis Thielen, Minneapolis
Robert Joseph Thielen, St. Cloud,
WITH DISTINCTION
Eugene Louis Thoma, Little Falls
Thomas Burton Thorsell, Minneapo-
lis, WITH DISTINCTION
Gregory Robert Truckenbrod, Co-
lumbia Heights
James Von Bank, Albertville, WITH
DISTINCTION
Allan Lee Weber, Duluth
Larry James Werth, Glencoe, WITH
DISTINCTION
Herbert Yet Wong, Bloomington
Charles Edward Woods, B.Phys.,
Minneapolis
Shiu hong Yam, Hong Kong, WITH
HIGH DISTINCTION
Bruce Albert Zebott, Minneapolis
Ronald Calvin Zimmer, Cedar

Bachelor of Environmental Design

Mark Gregory Swenson, Minneapolis,
WITH HIGH DISTINCTION

Bachelor of Geo-Engineering

Roger Lee Moulton, Windom

Bachelor of Mathematics

Albert Wan-Kiu Chan, Hong Kong,
WITH HIGH DISTINCTION

Paul How-Kei Cheong, Hong Kong,
WITH HIGH DISTINCTION

Peter Reed Crescenzo, Duluth

Randall William Dunnette, Rochester

Walter Ray Eastman, Minneapolis

Michael Joseph Hahold, St. Paul,

WITH DISTINCTION

Curtis Steven Hanson, New Hope

James Robert Hauser, Minneapolis,

WITH HIGH DISTINCTION

Bruce Charles Johnson, St. Paul

Donald Raymond Johnson, Cham-

plin, WITH HIGH DISTINCTION

Gerald Rudolph Kajander, Cloquet

William Paul Kamp, St. Paul

Dennis Oliver Klebe, Minneapolis,

WITH DISTINCTION

Lloyd Donald Larson, Richfield

LeRoy Theodore Mattson, Hibbing,

WITH HIGH DISTINCTION

Douglas Robert Moore, Richfield

Edmund Magnus Mellgren, St. Paul

Charles Arthur Nelson, St. Paul

Gene Henry Olson, St. Paul

Steven Michael Ostrom, Crystal, WITH
DISTINCTION

Steven Phillip Ronning, Kenyon,

WITH HIGH DISTINCTION

Dale Michael Schreiner, Buffalo

Lake, WITH HIGH DISTINCTION

Roger Antony Sexter, Minneapolis,

WITH DISTINCTION

Carl Arthur Spencer, Osseo, WITH

HIGH DISTINCTION

Charles Kendall Stewart, St. Louis

Park

James Paul Turner, Golden Valley

Clifford Leroy Waughtel, Jr., Minne-
apolis

Ronald Ray Wegner, St. Cloud

Randy Steven Weinberg, St. Louis

Park, WITH DISTINCTION

Bachelor of Mechanical Engineering

Daniel Oscar Adams, A.A., Austin

Steven Eugene Amundson, Chatfield,

WITH HIGH DISTINCTION

David A. Beulke, South St. Paul

John Paul Bicanich, Virginia

Raymond Edward Bressler, Hibbing

Jonathan Peter Buesing, St. Paul

Roger Harrison Burns, St. Paul

David Michael Caldwell, Hibbing

Jon Raymond Caldwell, St. Paul,

WITH DISTINCTION

Thomas William Cummins, A.A.,

Brainerd, WITH DISTINCTION

Eugene Peter Dingmann, B.Phys.,

Cold Spring, WITH DISTINCTION

Orvan David Edmonson, Rosemount

Max Laser Eisenberg, St. Louis Park

David Paul Erickson, Duluth, WITH

DISTINCTION

Warren Elliott Esterberg, Ely

Donald Bernard Ewers, Rochester

Richard Jon Feist, Anoka, WITH

DISTINCTION

Paul Robert Glamm, Pine Island,

WITH DISTINCTION

Carl Philip Graf, B.A., Forest Lake

Bruce Donald Gregoire, Goodhue

Grant Peter Hanson, Duluth, WITH

DISTINCTION

Leslie Willis Heins, St. Michael

John Thomas Hertzog, Richfield
 Steven George Israel, Minneapolis
 Timothy James Jendro, Bowlus
 Peter Jay Kiedrowski, Edina
 Glenn Condo Kording, Minneapolis,
 WITH DISTINCTION
 Charles Donald Kuefler, Wadena
 Thomas Howard Kuehn, Mahtomedi
 Charles James Lever, Minneapolis
 Allan Lowell Liebrez, Mound
 Jerry Allen McCall, Mora
 Raymond Edward McGrail, Richfield,
 WITH DISTINCTION
 Michael Henry Meunier, Minneapo-
 lis
 John Allen Miller, A.A., Kasson
 Dennis Brian Moll, Sleepy Eye
 Jae Duck Moon, Minneapolis
 David Robert Nelson, Austin
 Robert Harold Neuendorf, Lakeville
 Larry Gene Noble, A.A., Austin
 William John Novacek, Minneapolis
 Robert Sigurd Ogren, Minneapolis
 Joseph Casper Pacovsky, A.A.S.,
 Glenville, WITH DISTINCTION
 Gerald Thomas Palkowski, Minne-
 apolis
 Bruce Allen Parker, Robbinsdale

Eric Louis Paulsen, Wayzata, WITH
 DISTINCTION
 James Ralph Porteous, Hibbing,
 WITH HIGH DISTINCTION
 Grant Stanley Quam, Clarkfield
 Ward Carl Rasmussen, Minneapolis
 Michael Gordon Rasmusson, Fergus
 Falls
 Duane Michael Regenscheid, Glencoe
 Gary Emil Saari, Hibbing
 Richard John Sandberg, Minneapolis
 Richard John Schweiger, Minneapolis
 Dean George Sheldon, St. Paul
 John Patrick Snegoski, Shakopee,
 WITH HIGH DISTINCTION
 Allan John Stinn, Panama, Iowa
 Lawrence Earl Storm, A.A., Cook
 George Michael Sverdrup, Bloom-
 ington, WITH HIGH DISTINCTION
 Precha Thavikulwat, Bangkok, Thai-
 land, WITH HIGH DISTINCTION
 Edward Alvin Timm, Forest Lake
 Richard Dale Torfin, Bloomington
 Joseph Herman Weinert, Gettysburg,
 S.D.
 John Clement West, St. Paul
 Marvin James Yeager, Winnebago

Bachelor of Metallurgical Engineering

Robert Ward Buskirk III, Minneapo-
 lis
 Thomas Pompilio Diaz, B.A., San
 Leandro, Calif.
 Weldon Jack Makela, Ely

David Karl Schauwecker, Downers
 Grove, Ill.
 Frank Joseph Shima, New Prague
 Robert Joseph Strukel, Biwabik

Bachelor of Physics

Dean Merton Adams, Bloomington
 Michael L. Arends, Maynard
 David Alan Dahl, St. Anthony Vil-
 lage, WITH DISTINCTION
 Ricky Alan Dunn, Albert Lea,
 WITH HIGH DISTINCTION
 LaVerne A. Engebretson, Biwabik,
 WITH HIGH DISTINCTION
 Eugene Dale Flieder, Canby
 Charles Owen Gensmer, Hutchinson,
 WITH DISTINCTION

Donald Odd Hamnes, Minneapolis,
 WITH HIGH DISTINCTION
 Frederick S. Herring, St. Paul
 Michael Warren Hinz, A.A., Worth-
 ington, WITH DISTINCTION
 Lyle Harold Johnson, Minneapolis,
 WITH HIGH DISTINCTION
 Thomas William Klein, St. Paul
 Brian Conrad Krafthefer, Alexandria
 Frederick Bruce Lewis, St. Louis
 Park, WITH DISTINCTION

Timothy James Mayer, Lakeville,
 WITH DISTINCTION
 James Peter Mellema, Reading
 Steven John Monson, Lindstrom,
 WITH DISTINCTION
 Gin Shing Ng, Hong Kong, WITH
 HIGH DISTINCTION
 David Harold Olson, White Bear
 Lake
 Stephen A. Rhol, Minneapolis, WITH
 HIGH DISTINCTION
 Rolf Norman Skogerboe, Crystal,
 WITH DISTINCTION

John Matthew Snider, Burnsville
 Richard Gregory Solstad, Wayzata,
 WITH DISTINCTION
 David Eugene Stoltzmann, St. Paul,
 WITH HIGH DISTINCTION
 William Thomas Udseth, Bloomington,
 WITH DISTINCTION
 John Francis Wozniak, Ogema, WITH
 HIGH DISTINCTION
 David Richard Zech, Maple Lake,
 WITH DISTINCTION
 Gene Bovee Zemske, Minneapolis

Bachelor of Science in Geology

Robert Wayne Arko, New Brighton
 Charles William Eginton, St. Paul
 James Robert Horner, Minneapolis

Bruce Victor Nielsen, Orleans, WITH
 DISTINCTION

Bachelor of Science in Geophysics

Frederick Martin Uhlig, Minneapolis

Certificate in Science

Steven Harold Ponthan, St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Elizabeth Ann Boyle, Mohall, N.D.
 Janet Louise Eike, A.A., Windom
 Martha Jane Keys, St. Paul, WITH
 HIGH DISTINCTION
 Paul Arthur Nelson, Robbinsdale
 Mark Frederick Rice, Minneapolis
 John Raymond Siverson, A.L.A.,
 Minneapolis, WITH DISTINCTION

Sarah Jeanne Ware Smith, Shore-
 view, WITH DISTINCTION
 Susan Diane Solomon, Minneapolis,
 WITH HIGH DISTINCTION
 Elaine Sandra Tarshish, A.A., Golden
 Valley
 Inez Frances Lynum Todd, Minne-
 apolis

Bachelor of Science

Kathleen Beverly Abrams, Minneapo-
 lis
 Daniel Lee Berg, Fridley
 Roger Allen Borseth, A.A., Minne-
 apolis
 James T. Broich, Rochester, WITH
 DISTINCTION

Susan Hope Bullen, Minneapolis
 Donald Earl Davis, Brooklyn Center
 Nettie Davis, A.A., Minneapolis
 Thomas Joseph Donaldson, Minne-
 apolis
 Judith Ann Froehling, Minneapolis

John Nielsen Gammel II, Brooklyn Park, WITH DISTINCTION
 Julie Ann Gleason, St. Paul
 Paul Eston Guttman, St. Louis Park, WITH HIGH DISTINCTION
 Patricia McFarlane Hagen, St. Louis Park
 Mary Louise Haider, St. Paul
 Therese Ann Kading, Minneapolis, WITH DISTINCTION
 Judith B. Libman, Minneapolis, WITH HIGH DISTINCTION
 Thomas Edward Masterson, Walnut Grove, WITH DISTINCTION
 David Kuls McAnally, New Brighton
 James Howard Michel, Richfield

James Francis Mossey, A.A., Mishawaka, Ind.
 William Dowden Pickell, St. Louis Park, WITH DISTINCTION
 Gary Kenneth Sallberg, Minneapolis
 Robert James Schadewald, Rogers
 Ann Carol Scheidel, Mankato
 Michael Perry Schenk, Sauk Rapids, WITH DISTINCTION
 Theresa Lynn Tam, Minneapolis
 Martha Anne Wendt, St. Paul, WITH DISTINCTION
 Glenn Charles Wood, Champlin, WITH HIGH DISTINCTION
 Regina Leah Wray, Iola, Kan.

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

Lynn Harry Aggen, Worthington, WITH DISTINCTION
 Richard Dale Alsaker, St. Louis Park, WITH HIGH DISTINCTION
 Daniel Carl Anderson, Baudette
 Harlan Richard Anderson, Cokato
 Robin Lee Booren, Forest Lake
 David Boyden Brewer, Wayzata, WITH DISTINCTION
 Daniel John Bushard, Gibbon
 John Henry Carlson, Minneapolis, WITH DISTINCTION
 Paul Guerard Cavanach, A.A., Forestville, Calif.
 Ronald Thomas Clappier, St. Paul, WITH DISTINCTION
 Patrick Michael Cotter, Ripon, Wis., WITH HIGH DISTINCTION
 Edward Clayton Davis III, St. Peter
 Darrell Lee Denisen, A.A., Austin, WITH HIGH DISTINCTION
 Julia May Evans, Minneapolis
 Daniel Alvah Hall, Mondovi, Wis.
 Dean Edward Hawkinson, Minneapolis
 David Lee Holmberg, St. Paul
 Roger Alan Krogwold, Rosholt, Wis.
 Barbara Jean Lane, Grand Rapids
 Randy William McLaughlin, Stillwater, WITH HIGH DISTINCTION

Susan Wendy Mills, A.A., Ely, WITH DISTINCTION
 William Carl Mitchell, Osseo
 James Paul Mlsna, Cashton, Wis.
 Janice Marie Niedermeier, New Brighton, WITH HIGH DISTINCTION
 Bruce Wayne Pierce, Pelican Rapids
 Thomas Joseph Rainey, Chanhassen, WITH DISTINCTION
 Thomas Michael Rohman, Milaca
 Donald Lee Safratowich, Park Rapids
 Michael John Schmidt, Shorewood, Wis., WITH DISTINCTION
 Martha Susan Schwochert, Moose Lake
 Janis Carol Spencer, Sturtevant, Wis., WITH DISTINCTION
 Gary Eugene Stevens, Oshkosh, Wis.; WITH DISTINCTION
 Charles Scott Vandermause, Pulaski, Wis.
 Terrence Lee VanDyke, Underwood
 Cedric Allen Veum, B.S., Westby, Wis., WITH DISTINCTION
 Steven John Wilcox, North Branch, WITH DISTINCTION
 Kent Sterling Wilson, Brooklyn Center

Doctor of Veterinary Medicine

- Nelson John Agen, B.S., Barron, Wis.
Harvey Roger Aluni, A.A., Virginia
Gene Paul Beaulieu, B.S., St. Paul
John Dallas Bowron, B.S., Magnolia
Michael James Bradley, B.A., Hollandale
Ann Marie Brudvik, B.A., Minneapolis
Patricia Leah Bussian, B.A., DeForest, Wis.
David E. Clausen, B.S., Milltown, Wis.
Thomas Patterson Colville, B.S., Golden Valley
Gregory Roland Cutlan, B.S., Robbinsdale
Raymond Dean Dilland, B.S., Tioga, N.D.
Lee Edward Elger, B.S., Muskego, Wis.
Mark Howard Engen, B.S., Staples
Thomas George Felger, B.S., Sandstone
Dean H. Franz, Mountain Lake
Robert Bruce Gillard, A.A., B.S., Claremont
Daniel A. Gingerich, A.A., B.S., St. Paul
William Ward Habedank, B.S., Ada
Marvin Hermon Hamann, B.S., Gary, S.D.
Walter David Harms, B.A., B.S., St. Paul
Keith Danforth Hedges, B.S., St. Paul
Richard Edward Holland, B.S., Caledonia
Selmer Dean Holland, B.S., Frost
Bruce William Johnston, B.S., Deer Park, Wis.
Joann Lynn Kaftan, B.S., LaMoure, N.D.
Thomas Michael Koester, B.A., B.S., Red Wing
Donald Louis Krumm, B.S., Fountain City, Wis.
Elden George Lamprecht, B.S., Plainview
Rolf Eric Larsen, B.A., B.S., Wittenberg, Wis.
Eugene Jeffery Lauritsen, B.A., B.S., M.P.H., Granite Falls
Douglas Gene Lee, B.S., Franklin
Jerome Daniel McGraw, B.S., Minneapolis
David Robert Michalski, B.S., Milwaukee, Wis.
John Peter Neitzke, B.S., Detroit Lakes
Roger Lee Nelson, B.A., Hills
Gary Hirran Newman, A.A., B.S., Kandiyohi
Wayne Paul Ode, B.S., Lanesboro
Robert Louis Peiffer, Jr., B.S., Edina
Richard Nichols Reiersen, B.A., B.S., St. Paul
Ronald Charles Riis, B.S., Pierre, S.D.
Marc Lewis Rothstein, B.S., Minneapolis
Dennis Allen Saari, B.S., Hibbing
Julie Anne Severson, B.S., Albert Lea
James Merle Spencer, B.S., Baraboo, Wis.
Gene Chester Stringer, B.S., Dodge Center
Byron Malcolm Sugden, B.S., St. Paul
Marvin John Trandem, B.S., Medford
Daniel Pierce Treat, B.S., Fargo, N.D.
Paul Louis Veum, B.S., Westby, Wis.
Douglas James Weiss, Pine River
Roland William Wohlin, A.A., B.S., New London
John Fred Youngberg, B.S., Milaca

June Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Edward F. Birkett III, Columbus,
Ohio
Richard B. Brown, St. Paul
Robert G. Bump, Bloomington
Gerald R. Campbell, Edina
Michael P. Clarke, St. Paul
Gregory A. Ebensperger, St. Paul
Ronald W. Foss, Minneapolis
James R. Greenlee, Edina
Henry H. Holt, Bloomington
Richard H. Oelfke, Glencoe

Michael M. Pink, Minneapolis
David H. Richards, Hopkins
Lawrence J. Rossini, St. Paul
Rodney S. Ruther, Minneapolis
Daniel H. Schulz, Winthrop
David E. Stoltzmann, St. Paul
Charles L. St. Sauver, White Bear
Lake
John R. Vanderwall, Mahtomedi
William J. Violet, Minneapolis
John A. Yilek, Roseville

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Adjutant General Corps

Timothy F. Kelly, Munster, Ind.

Alan E. Sommerfeld, Bozeman, Mont.

Second Lieutenant, Air Defense Artillery

James A. Dyer, Anderson, Ind.
Bernie J. Leland, North Branch

James A. Wilson, St. Paul

Second Lieutenant, Armor

John E. Koci, LaGrange Park, Ill.

John L. Reider, Coon Rapids

Second Lieutenant, Corps of Engineers

Patrick M. Foley, St. Paul
Stephen E. Olson, St. Paul

Gordon H. Reigstad, Sunburg

Second Lieutenant, Field Artillery

Thomas N. Feaski, North Branch
Brian A. Leines, Minneapolis

Gregory J. Quarfoth, St. Paul

Second Lieutenant, Finance Corps

John A. Schmid III, Shoreview

Second Lieutenant, Infantry

Thomas G. Bowe, Columbia Heights

David L. Cigan, Wausau, Wis.

Mark R. Lewis, Wayzata

Kent D. Miller, Jr., Minneapolis

John R. Norton III, Stillwater

Second Lieutenant, Medical Service

Alan G. Page, Edina

Robert E. Till, Villa Park, Calif.

Second Lieutenant, Military Intelligence

Keith O. Boyum, Grand Forks, N.D.

Second Lieutenant, Military Police

Nicholas R. Casper, Minneapolis

Mark R. Johnson, Mankato

Second Lieutenant, Signal Corps

Gregory K. Iverson, Glasgow, Mont.

Wayne S. Smythe, Austin

Second Lieutenant, Transportation Corps

Robert J. Blum, Rochester

Robert W. Buskirk, Minneapolis

John L. Foster, Waverly, Ohio

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Daniel J. Aldrich, Minneapolis

Larry L. Blakesley, Aitkin

Walter F. Fennell, Jr., Lincoln Park,
N.J.

Frederick S. Herring, St. Paul

James E. Karlovich, Bloomington

Walter W. Knauss III, Wheeling,
W.Va.

Thomas H. Lauer II, Toledo, Ohio

Steven H. Ponthan, St. Paul

Robert E. Severson, Minneapolis

Ensign, USNR

John A. McLaren, Jr., Wilmette, Ill.

Dallas G. Olson, Buffalo Center,
Iowa

Craig R. Ploss, St. Paul

Peter A. Ruliffson, Wayzata

Timothy J. Stoddart, Edina

Gregory D. York, St. Paul

Academic Costume

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

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

At commencements degree candidates wear the gowns for the degrees they are about to receive. Hoods are worn only by those who already possess degrees. Anyone who has a University of Minnesota degree may wear the Minnesota hood — black with a maroon chevron on gold. The length and shape of a hood identify the most advanced degree its wearer has earned, and the hood's velvet edging shows the degree's field: dark blue for philosophy, light blue for education, green for medicine, lilac for dentistry, orange for engineering, russet for forestry, drab for business, olive green for pharmacy, purple for law, gray for veterinary medicine, golden yellow for science, white for liberal arts and letters.

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

College of Agriculture	maize
College of Biological Sciences	golden yellow
School of Business Administration	drab
College of Education	light blue
College of Forestry	maize
General College	crimson and white
College of Home Economics	maize
Law School	purple
College of Liberal Arts	white
Medical School	green
School of Nursing	green
College of Pharmacy	olive
School of Public Health	green
Institute of Technology	orange
University College	old gold and white
Graduate School	black

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

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

Additional copies of this program are available from the Department of University Relations, S-68 Morrill Hall, University of Minnesota, Minneapolis, Minnesota 55455.

Printed on recycled paper

President's Reception

AUGUST, 1971

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 Coffman Memorial Union Terrace. In case of rain, it will be held in the Main Ballroom.

Additional copies of this program are available from the Department of University Relations, S-68 Morrill Hall, University of Minnesota, Minneapolis, Minnesota 55455.

Printed on recycled paper

The Board of Regents

The Honorable Elmer L. Andersen, St. Paul
Chairman

The Honorable Neil C. Sherburne, Lakeland Township
Vice Chairman

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

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

The Honorable Fred J. Hughes, St. Cloud

The Honorable Josie R. Johnson (Mrs. Charles W.), Bloomington

The Honorable Lester A. Malkerson, Minneapolis

The Honorable George W. Rauenhurst, Olivia

The Honorable Loanne R. Thrane (Mrs. Ralph), Chanhassen

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Dr. Rodney A. Briggs, Acting Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and twentieth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen — to name only some of the careers for which preparation is offered. Since its founding, the University has awarded more than 232,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 51,000 students annually on its Twin Cities, Duluth, Morris, Crookston, Waseca, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

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

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

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

all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biomedical library and additional medical research facilities).

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

As it meets the needs of present students, the University must also make plans for those of the future. The 51,000 students who enrolled at the University at the beginning of the 1970-1971 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1971 LEGISLATURE granted the University \$162,174,982 for general operations and maintenance during the 1971-1973 biennium. In addition, the University received \$9,343,500 for University Hospitals; \$29,408,892 for special appropriations, including special extension and research activities; \$40,632,960 for new buildings, land, and the rehabilitation of existing buildings; \$1,844,000 for the Crookston Technical College; and \$1,400,000 for the Waseca Technical College.

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

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds.

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

The University of Minnesota is guided by the principle that there shall be no differences in the treatment of persons because of race, creed, color, sex, or national origin and that equal opportunity and access to facilities shall be available to all.

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Twin Cities Campus of the University this afternoon from 3:00 to 3:30 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Charles W. Forsberg, M.A., Graduate School. Guests will be seated as they arrive and will remain seated until the National Anthem is sung.

PRELUDE CONCERT: From 3:30 to 4:00 p.m., Professor Heinrich R. Fleischer, Ph.D., College of Liberal Arts, University Organist, will play.

PROCESSION: At 4:00 p.m. the Mace-Bearer, Professor Gerald R. McKay, Ph.D., Institute of Agriculture, will carry the Mace onto the platform, heralding the arrival of the academic procession. The procession includes administrators, faculty, distinguished guests, Regents, and the candidates for degrees marching by college. The line of march for candidates is as follows:

College of Agriculture	College of Liberal Arts
College of Biological Sciences	Medical School
School of Business Administration	School of Nursing
School of Dentistry	College of Pharmacy
College of Education	School of Public Health
College of Forestry	Institute of Technology
General College	University College
General Extension Division	College of Veterinary Medicine
College of Home Economics	Graduate School
Law School	

During the procession Professor Fleischer will play:

Festival MusicGluck

THE NATIONAL ANTHEM: As Assistant Professor Philip Steen, Ph.D., College of Education, steps to the microphone, the entire audience will stand and join him in singing the National Anthem:

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

INVOCATION (the audience still standing): The Reverend Father G. Russell Hatton, B.A., S.T.M., Director of the University Episcopal Center and member of the Council of Religious Advisers.

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

COMMENCEMENT ADDRESS: Professor Scott Momaday, Ph.D., University of California, Berkeley.

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: After each new Doctor of Philosophy has been hooded, Associate Dean Francis M. Boddy, Ph.D., Graduate School, will present him to President Moos. Assisting them will be Faculty Marshals Assistant Professor G. Eric Bauer, Ph.D., Medical School; Professor Robert H. Beck, Ph.D., College of Liberal Arts and College of Education; Instructor Thomas H. Gawronski, Ph.D., Medical School; and Assistant Recorder Charles F. Liesenfelt, M.A., Admissions and Records.

CONFERRING OF OTHER GRADUATE SCHOOL DEGREES: Dean Boddy will then present recipients of the other Graduate School degrees to President Moos and the audience.

PRESENTATION OF CERTIFICATES AND BACHELOR'S DEGREES: Professor Willard L. Thompson, Ph.D., Dean of the Summer Session, will introduce the deans of the colleges or their representatives, who will present to President Moos the candidates for certificates and degrees. They are, in order of their introduction:

Dean John Goodding, Ph.D., College of Agriculture
Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences
Assistant Dean Charles Mannel, M.A., School of Business Administration
Dean Erwin M. Schaffer, M.S.D., School of Dentistry
Assistant Dean Frank B. Wilderson, Jr., Ph.D., College of Education
Dean Frank H. Kaufert, Ph.D., College of Forestry
Dean A. L. Vaughan, Ph.D., General College
Dean Harold A. Miller, Ph.D., General Extension Division
Dean Keith N. McFarland, Ph.D., College of Home Economics
Dean E. W. Ziebarth, Ph.D., College of Liberal Arts
Assistant Dean Robert McCollister, M.D., Medical School
Dean M. Isabel Harris, Ph.D., School of Nursing
Dean Lawrence C. Weaver, Ph.D., College of Pharmacy
Professor Velvl Greene, Ph.D., School of Public Health
Assistant Dean Paul Cartwright, M.S., Institute of Technology
Professor Catherine Warrick, Ph.D., University College

HAIL! MINNESOTA: As Professor Steen steps to the microphone, the audience will rise and join him in singing the University's Alma Mater:

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

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

RECESSIONAL: As graduates leave their seats, Professor Fleischer will play:
Trumpet VoluntaryPurcell

THE AUDIENCE is requested to remain seated until those in academic costume have marched out.

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

Academic Costume

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

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

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University College	old gold and white
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July Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Philosophy

Stanley Earl Aschenbrenner, St. Paul

B.A. '51, Willamette University; M.A. '68, University of Minnesota. Major: Anthropology. Minor: Supporting Field. Thesis: A Study of Ritual Sponsorship in a Greek Village. Major Adviser: Prof. R. F. Spencer.

Fadejimi Bademosi, Ondo, Nigeria

B.S. '66, University of California at Berkeley; M.S. '67, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Diffusion Charging and Related Transfer Processes in Knudsen Aerosols. Major Adviser: Prof. B. Y. Liu.

Dorothy Erickson Barker, St. Cloud

B.S. '40, M.S. '67, University of Minnesota. Major: Zoology. Minor: Biology. Thesis: Growth Studies on the Early Chick Blastoderm. Major Adviser: Prof. N. T. Spratt.

Rita M. Bienvenue, Duck Lake,
Saskatchewan, Canada

B.A. '67, University of Windsor; M.A. '69, University of Minnesota. Major: Sociology. Minor: Supporting Field. Thesis: Powerlessness, Participation and Socio-Economic Factors. Major Adviser: Prof. C. E. Ramsey.

Philip Robert Carlson, New Brighton

B.A. '53, Bethel College; B.S. '57, M.A. '64, University of Minnesota. Major: Education. Minor: Mathematics. Thesis: An Investigation of the Effects of Instruction in Logic on Pupils' Success in Proving Theorems in Mathematics. Major Adviser: Prof. D. A. Johnson.

Daniel Walter Chorzempa,
Minneapolis

B.A. '63, University of Minnesota. Major: Music. Minor: Supporting Field. Thesis: Julius Reubke: Life and Works. Major Adviser: Prof. Johannes Riedel.

William Lee Collinsworth, Winslow,
Ariz.

B.S. '64, M.S. '66, University of Arizona. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Identification and Metabolism of Certain Intermediates in the Enzymic Degradation of the Benzene Nucleus by Meta Fission of Catechol. Major Adviser: Prof. Stanley Dagley.

James Leonard Danielson, Lake
Bronson

B.A. '60, Concordia College; M.A. '66, University of Minnesota. Major: Political Science. Minor: History. Thesis: Democratic Patterns of Political Participation: The Ideal and the Real. Major Adviser: Prof. M. Q. Sibley.

Allan Harold Davisson, Minneapolis

B.A. '65, St. Cloud State College; B.D. '66, Concordia Theological Seminary. Major: Psychology. Minor: Supporting Field. Thesis: Personal Dimensions of Aesthetic Discrimination. Major Adviser: Prof. W. A. Russell.

Thomas Robert Dorworth,
Parkersburg, W. Va.

B.A. '64, M.A. '66, Marshall University. Major: Psychology. Minor: Supporting Field. Thesis: The Effect of Electroconvulsive Shock on "Helplessness" in Dogs. Major Adviser: Prof. M. A. Trapold.

John Alfred Edgar, Finland

B.A. '65, University of Minnesota, Duluth. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Metal-Metal Interactions in Phodium(II) Complexes. Major Adviser: Prof. D. J. Britton.

James Thomas Ellison, Minneapolis

B.A. '60, Western Reserve University. Major: Mathematics. Minor: Philosophy. Thesis: Galois Logic Design. Major Adviser: Prof. Steven Orey.

Fredric Ernst Fedler, Sheboygan, Wis.
B.S. '63, University of Wisconsin; M.A. '67, University of Kentucky. Major: Mass Communication. Minor: Supporting Field. Thesis: Access to the Mass Media: A Case Study. Major Adviser: Prof. D. M. Gillmor.

Fred Dominic Ferate II, Port Orchard, Wash.

B.A. '60, Western Reserve University. Major: Physics. Minor: Mathematics. Thesis: Theoretical Investigation of the V_1 Center in Magnesium Oxide. Major Adviser: Prof. L. H. Nosanow.

Russell Tracy Fowler, Austin, Tex.

B.A. '66, University of Texas; M.A. '67, Indiana University. Major: English. Minor: Art History. Thesis: Lost and Found: The Poetry of Randall Jarrell. Major Adviser: Prof. L. H. Unger.

B. Robert Froehlich, Fort Collins, Colo.

B.S. '64, University of California at Berkeley. Major: Economics. Minor: Supporting Field. Thesis: Estimation of a Random Coefficient Regression Model. Major Adviser: Prof. C. G. Hildreth.

Jane Donnelly Gawronski, Minneapolis

B.S. '62, State College at Boston; M.Ed. '64, University of Idaho. Major: Education. Minor: Educational Psychology. Thesis: An Investigation of the Effect of Selected Learning Styles on Achievement in Eighth Grade Mathematics. Major Adviser: Prof. J. E. Stochl.

James Edward Henning, St. Cloud

B.A. '58, St. Cloud State College. Major: Educational Psychology. Minor: Child Psychology. Thesis: A Study of the Differential Effects of a Special Education Resource Room Program on SLD Children. Major Adviser: Prof. M. C. Reynolds.

Susanne Lee Higgs, London, Ontario, Canada

B.A. '65, University of Western Ontario; M.S. '66, University of Oregon. Major: Physical Education. Minor: Supporting Field. Thesis: Endurance Performance of Good and Average Women Competitors Under Self-Motivated and Competitive Conditions. Major Adviser: Prof. M. U. Wilson.

James Lea Hodgson, Hythe, Alberta, Canada

B.P.E. '61, M.S. '63, University of Alberta. Major: Physiology. Minor: Supporting Field. Thesis: Age and Aerobic Capacity of Urban Midwestern Males. Major Adviser: Prof. H. L. Taylor.

Harold James Hofstrand, St. Louis Park

B.A. '61, University of Minnesota. Major: Anatomy. Minor: Zoology. Thesis: Immunological Aspects of Human Diabetic Glomerulosclerosis. Major Adviser: Prof. Arnold Lazarow.

Gary Robert Hovinen, Hopkins

B.A. '66, M.A. '69, University of Minnesota. Major: Geography. Minor: Supporting Field. Thesis: Land Tenure and Residential Development in Greater Stockholm. Major Adviser: Prof. J. G. Rice.

Hubert Wendell Howard, Rochester, N.Y.

B.A. '49, DePauw University; M.A. '52, Stanford University. Major: English. Minor: Music. Thesis: A Man of Faire Parts. Major Adviser: Prof. R. E. Moore.

Rudolf Bertalan Husar, Palić, Yugoslavia

Dip. Ing. '66, Technical University, West Berlin. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Coagulation of Knudsen Aerosols. Major Adviser: Prof. K. T. Whitby.

Olive Marie Jacobson Jensen, St. Cloud

B.A. '53, St. Olaf College; M.A. '63, University of Minnesota. Major: Education. Minor: Studio Arts. Thesis: Differences in Perception Through Teaching Drawing in Contrasting Groups of Fifth Grade Students. Major Adviser: Prof. W. R. Hastie.

Jack Donald Johnson, Tucson, Ariz.

B.A. '59, San Diego State College; M.S. '67, University of Minnesota. Major: Environmental Health. Minor: Supporting Field. Thesis: Development of a Mathematical Model to Predict the Role of Surface Runoff and Groundwater Flow in Overfertilization of Surface Waters. Major Adviser: Prof. C. P. Straub.

Paul Charles Kersavage, State College, Pa.

B.S. '58, Pennsylvania State University; M.S. '62, University of California at Berkeley. Major: Forestry. Minor: Industrial Engineering. Thesis: The Relationship Between Moisture Content and Tensile Properties of Douglas Fir Summerwood Tracheids. Major Adviser: Prof. J. G. Haygreen.

Edgar Bernd Klunder, Davison, Mich.

B.S. '65, Northwestern University. Major: Chemical Engineering. Minor: Supporting Field. Thesis: Photolysis of 3,4-Dimethyl-1-Pyrazoline. Major Adviser: Prof. R. W. Carr.

James Ho-Chien Liao, Kiangsi, China.
B.S. '64, National Taiwan University; M.S. '67, National Chiao Tung University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Characteristic Admittance and Noise in Double-Injection Space-Charge-Limited Solid State Diodes. Major Adviser: Prof. Aldert van der Ziel.

Nicholas Brier Lilwall, Leeds, England
B.S. '64, Leeds University; M.A. '70, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Technological, Organizational and Spatial Factors as Determinants of Optimum Plant Size in the Cheddar Cheese Manufacturing Industry. Major Adviser: Prof. E. F. Koller.

William Edward Mann, Northfield
B.A. '62, M.A. '64, Stanford University. Major: Philosophy. Minor: Supporting Field. Thesis: The Logic of Saint Anselm's Ontological Argument. Major Adviser: Prof. G. B. Matthews.

Krishna Gopala Mantripragada,
Saskatoon, Saskatchewan, Canada
B.Com. '58, M.Com. '59, Andhra University. Major: Business Administration. Minor: Supporting Field. Thesis: Stable Dividends and Share Prices. Major Adviser: Prof. J. R. Nelson.

Thomas Lindsey Mason, Marshfield,
Wis.
B.S. '62, University of Wisconsin; M.S. '65, Louisiana State University. Major: Zoology. Minor: Supporting Field. Thesis: Studies on the Nature and Biogenesis of *Tetrahymena Pyriformis* Mitochondria. Major Adviser: Prof. A. B. Hooper.

Charles Richard McCabe, Virginia
B.A. '64, Moorhead State College; M.A. '68, University of Minnesota. Major: English. Minor: Philosophy. Thesis: The Sacred Wordworth. Major Adviser: Prof. J. L. Scoggins.

Robert Wesley McLellan, Unity,
Saskatchewan, Canada
B.A. '65, University of Saskatchewan; M.S. '67, Florida State University. Major: Education. Minor: Supporting Field. Thesis: An Exploratory Study to Determine Factors for Inclusion in Recreation Manpower Protection Models. Major Adviser: Prof. J. M. Anderson.

William Edward Mishler, Minneapolis
B.A. '62, College of the Holy Cross; M.A. '68, University of Minnesota. Major: Scandinavian. Minor: Supporting Field. Thesis: A Reading of MARKURELLS I WADKOPING. Major Adviser: Prof. Nils Hasselmo.

Roy William Muckey, Shoreview
B.S. '53, St. Cloud State College; M.A. '58, Colorado State College. Major: Education. Minor: Educational Psychology. Thesis: Using Decimal and Nondecimal Numeration Systems to Effect Change in the Ability of Beginning Second Grade Students to Add and Subtract in Different Bases. Major Adviser: Prof. R. L. Jackson.

William Mack Mularie, Duluth
B.A. '61, University of Minnesota, Duluth; M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Photoemission Processes of Clean and Cesium-Covered Silicon (100). Major Adviser: Prof. W. T. Peria.

Edward Lee Niehus, Normal, Ill.
B.A. '61, M.A. '62, University of Illinois. Major: English. Minor: Art History. Thesis: The Nature and Development of the Quixote Figure in the Eighteenth-Century English Novel. Major Adviser: Prof. R. E. Moore.

Milo Alfred Nielsen, Madelia
B.S. '65, M.S. '67, University of Minnesota. Major: Food Science and Industries. Minor: Biochemistry. Thesis: The Effect of Certain Processing Variables on the Proteins of Cheese Whey Systems. Major Adviser: Prof. S. T. Coulter.

Bryan Dale Noe, Eureka, Ill.
B.S. '65, Goshen College; M.A. '67, West Virginia University. Major: Anatomy. Minor: Biology. Thesis: Glucagon Biosynthesis in Islets of the Anglerfish *Lophius americanus*. Major Adviser: Prof. G. E. Bauer.

Terrance Patrick O'Leary, Sibley, Iowa
B.S. '63, D.V.M. '65, Iowa State University. Major: Veterinary Pathology. Minor: Microbiology. Thesis: Ultrastructural Aspects of *Dirofilaria immitis* Microfilariae as Reconstructed from Serial Section Analysis. Major Adviser: Prof. Victor Perman.

Gary Bradford Palmer, St. Louis Park
B.S. '64, Hamline University; M.S. '66, University of Minnesota. Major: Anthropology. Minor: Ecology. Thesis: The Baraza: An Analysis of the Communication Between Settlers and Staff on an Agricultural Resettlement Scheme in Kenya, East Africa. Major Adviser: Prof. L. P. Gerlach.

Wu-Tien Peng, Hsinchu, Taiwan
B.A. '62, Tunghai University. Major: Economics. Minor: Supporting Field. Thesis: Budget Balance and Automatic Stability. Major Adviser: Prof. M. K. Richter.

James Ward Pratt, Sioux Falls, S.D.

B.A. '66, Macalester College; M.A. '68, University of Minnesota. Major: Speech-Communication. Minor: Supporting Field. Thesis: A Study of Presidential Crisis Speaking as a Potential Rhetorical Type. Major Adviser: Prof. R. L. Scott.

Robert L. Raymond, South Bend, Ind.

B.S. '65, Case Institute of Technology. Major: Mathematics. Minor: Supporting Field. Thesis: Aperturbation Theorem for Multi-Point Boundary Value Problems. Major Adviser: Prof. W. S. Loud.

Rose Krivisky Reha, Sandstone

B.S. '65, Indiana State University; M.A. '67, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Straight Copy Drill in Developing Production Typewriting Proficiency at the High School Level. Major Adviser: Prof. R. G. Price.

Byron Lynn Roszell, Peoria, Ill.

B.A. '59, Knox College; M.A. '65, Bradley University. Major: Psychology. Minor: Educational Psychology. Thesis: Pretraining and Behavioral Group Therapy Approaches to Assertive Behavior Training. Major Adviser: Prof. S. R. Strong.

James Lee Smith, North St. Paul

B.S. '61, M.S. '63, University of Illinois. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: The Effects of Mode of Vibration and Blade Angle on the Performance of a Simple Vibratory Tillage Tool. Major Adviser: Prof. A. M. Flikke.

**Venkataraman Srinivasan,
Konerirajapuram, Madras, India**

B.S. '63, St. Joseph's College; B.S. '66, University of Bombay. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Acidic Rearrangements of Salts of 5-Nitro-6 and 7-Substituted-2-norbornenes. Major Adviser: Prof. W. E. Noland.

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B.S.B. '64, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: Revitalizing the Central City's Commercial Core: A Case Study of the Nicollet Mall. Major Adviser: Prof. J. R. Nelson.

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B.S. '62, Hamline University; M.A.P.A. '63, University of Minnesota. Major: Industrial Relations. Minor: Supporting Field. Thesis: Prediction Models for Institutional Training Programs Under the Manpower Development and Training Act. Major Adviser: Prof. R. J. Dawis.

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B.A. '38, M.A. '40, Louisiana State University. Major: Art History. Minor: Art Education. Thesis: Influences of English Art on French Landscape Painting: 1802-1872. Major Adviser: Prof. Melvin Waldfoegel.

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B.S. '62, University of Wisconsin. Major: History. Minor: Supporting Field. Thesis: Victorial Youth at Armageddon: The Triumph of Orthodoxy at the University of Wisconsin During World War I. Major Adviser: Prof. Hyman Berman.

Master of Arts

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B.A. '58, Concordia College. Major: Home Economics. Minor: Art History. Thesis: The Life and Work of the Miss Pauline Fjelde Minnesotan Weaver-Embroiderers. Major Adviser: Prof. G. A. Esteros.

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B.A. '61, University of Natal. Major: International Relations. Thesis: Pan-Africanism and the Organization of African Unity: Africa's Search for Unity. Major Adviser: Prof. R. E. Riggs.

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B.A. '67, University of Minnesota. Major: Anthropology. Minor: Linguistics. Thesis: Teacher Paralanguage in the Classroom: An Investigation into Some Aspects of Afro-American Speech. Major Adviser: Prof. H. B. Sarles.

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B.A. *summa cum laude* '65, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Memory Elaboration and the Extension of Meditations Research: List Length Effects on Verbal Elaboration Phenomena. Major Adviser: Prof. J. E. Turnure.

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B.A. *magna cum laude* '69, St. Olaf College. Major: Scandinavian. Minor: History. Thesis: Letters From America Translated From the Norwegian of O. E. Rølvaag with an Introduction. Major Adviser: Prof. Nils Hasselmo.

Master of Arts in Public Administration

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Master of Business Administration

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Master of Fine Arts

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Master of Geo-Engineering

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Master of Science

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B.S. '67, University of Minnesota. Major: Fisheries. Minor: Entomology. Thesis: Contributions to the Life History of *Gammarus pseudolimneaus*. Major Adviser: Prof. T. F. Waters.

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B.C.E. with high distinction '68, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. W. Hayden.

Master of Science in Dentistry

James Donovan Fellman, Red Lake Falls

D.D.S. '67, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Evaluation of Dento-Facial Changes Occurring During Milwaukee Brace Therapy in Patients with Different Dento-Facial Skeletal Patterns. Major Adviser: Prof. R. J. Isaacson.

Theodosios George Frantzis, Tarpon Springs, Fla.

D.D.S. '66, Emory University. Major: Dentistry. Minor: Pathology. Thesis: The Ultrastructure of Capillary Basement Membranes in the Attached Gingiva of Diabetic Patients and Non-Diabetic Patients with Periodontal Disease. Major Adviser: Prof. J. A. Gibilisco.

Gary David Lange, Minneapolis

D.D.S. '63, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Influence of Various Dental Plaques on the Microvasculature of the Oral Mucous Membrane. Major Adviser: Prof. L. E. Folke.

Robert Blase Nemeth, Painesville, Ohio

D.D.S. '66, Ohio State University. Major: Dentistry. Minor: Related Fields. Thesis: A Cephalometric Evaluation of Some Vertical Increments Affecting Vertical Anterior Relapse. Major Adviser: Prof. R. J. Isaacson.

Stephen William Robinson, Minneapolis

D.D.S. '69, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Cephalometric Evaluation of the Soft Tissue Profile Changes Occurring in Mandibular Prognathic Patients Treated by a Combined Orthodontic-Oral Surgery Approach. Major Adviser: Prof. R. J. Isaacson.

Master of Science in Electrical Engineering

George Amund Anderson, Sioux Falls, S.D.

B.A. '69, St. Olaf College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Y. Kain.

Robert Edward Bicking, Minneapolis
B.E.E. '61, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. T. Anderson.

James Edward Borchert, Jr., Milwaukee, Wis.

B.S. '69, Michigan State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. H. Park.

Motoaki Hayakawa, Yokohama, Japan
B.S. '65, Nihon University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Quantizing Error of PCM with Sagged PAM Hold Wave. Major Adviser: Prof. J. H. Park.

John Joseph Igel, Rochester

B.S.E.E. '61, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. T. Anderson.

Ray Reuben Kaste, Minneapolis

B.E.E. with distinction '62, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. L. Kinney.

William Gregory Patrek, Minneapolis

B.E.E. '66, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. J. Collins.

John Harper Pemberton, Minneapolis

B.S.E.E. '61, University of Illinois. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

David Charles Roberts, Milwaukee, Wis.

B.S.E.E. '59, University of Wisconsin. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. T. Anderson.

Robert John Tichey, Fridley

B.S.E.E. '63, University of Wisconsin. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Master of Science in Industrial Engineering

Yash Pal Bhatia, Phagwara, India

B.S. '62, Punjab University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Ignacio Ruben Cytrynowicz Cosio, Santiago, Chile

B.M.E. '70, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Ramachandran Narasimhan, Madras, India

B.Tech. '69, Indian Institute of Technology. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Marvin Steven Seppanen, St. Paul

B.M.E. '65, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. G. W. McElrath.

Master of Science in Mechanical Engineering

Richard Henry Vagts, Breckenridge

B.S.M.E. '64, South Dakota School of Mines and Technology. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

Master of Science in Surgery

Carl Walton Manz, Eau Claire, Wis.
M.D. '63, University of Wisconsin. Major:
Surgery. Minor: Pathology. Thesis: An In-
vestigation into the Value of Arterial Tunnel
Implants: A Study on the Kidney. Major Ad-
viser: Prof. Yoshio Sako.

Certificate of Specialist in Education

William Kendall Glidden, New Hope
B.S. '59, M.A. '63, University of Minnesota.
Field: Special Education. Major Adviser: Prof.
Richard Weatherman.

Patrick Anthony Kroll, Minneapolis
B.S. '62, University of North Dakota; M.A.
'67, University of Minnesota. Field: Business
Education. Major Adviser: Prof. C. R. Hop-
kins.

Eugene Richard Swanson, Ellsworth,
Wis.

B.S. '54, Wisconsin State University; M.A. '62,
University of Minnesota. Field: General Edu-
cational Administration. Major Adviser: Prof.
W. R. Cross.

COLLEGE OF AGRICULTURE

Bachelor of Science

Marty Berdean Anderson, Excelsior
Darryl Donald Bathel, Claremont
Thomas Bolin Kjellberg, Minneapolis

Timothy Gary Schneeweis, St. Paul
Marvin Carl Velzke, A.A.S.,
Morristown

COLLEGE OF AGRICULTURE AND COLLEGE OF EDUCATION

Bachelor of Science

Robert John Heggerston, St. Paul

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Juliana Kain Furman, Santiago, Chile,
CUM LAUDE, Biochemistry

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

William Felix Banttari, St. Paul
Bradley Joseph Baron, Minneapolis
Daniel Lester Beckman, Rosemount,
WITH DISTINCTION
David Lee Blomberg, Minneapolis
Robert James Blum, Rochester
Stephen Thomas Broz, Bloomington,
WITH DISTINCTION
Robert John Conley, Mankato
Steven Bruce Cox, St. Paul
John Vincent Ficker, Minneapolis
Timothy Lee Gadler, A.A., St. Paul
James Everett Hixson, Jr., Columbia
Heights
Richard Hugh Hogle, Mahtomedi
Craig Russell Hoyt, St. Paul
Alan Dean Johnson, A.A., Willmar
James Thomas Leschinsky,
Minneapolis
Richard Allen Lind, Minneapolis,
WITH DISTINCTION

John Dennis McCashin, Robbinsdale
Dennis Michael McMonigal, St. Paul
Byron Kenneth Miller, St. Paul, WITH
DISTINCTION
Andrew Steven Nerhus, Storden
Timothy Neil O'Hara, Minneapolis
Glen John Olsen, Minneapolis
Thomas George Olson, Edina
Ronald Allen Reinhart, St. Paul
Steven Bruce Sasse, Minneapolis
Milo Paul Schmidt, Long Lake
Robert Thomas Snyder, Minneapolis
Daniel Edward Wallman, Springfield,
Ill.
Gordon E. Weber, A.A., Brooklyn
Park
Stephen Harold Westmark,
Minnetonka

COLLEGE OF EDUCATION

Bachelor of Science

Linda Edmundson Acker, St. Paul,
WITH DISTINCTION
Mary Kay Ahrens, Redwood Falls
Joyce Hewitt Allard, B.A., Tracy
David Alan Anderson, St. Paul, WITH
DISTINCTION
Ruthann Bischoff, Grand Rapids
Bruce William Black, Stillwater
Carol Jane Boyd, A.A., Farmington,
WITH DISTINCTION
James William Buchholz, Crystal,
WITH DISTINCTION
Lorraine Ann Buth, Minneapolis
Michael Alex Carls, Minneapolis,
WITH DISTINCTION
Barbara Helen Carlson, A.A., St. Paul
Jacquelin Rae Carry, Minneapolis
Scott Leon Christensen, White Bear
Lake, WITH HIGH DISTINCTION

James Forde Conway, Lake City
Jeffrey Alan Cottle, Minneapolis
Janice Marie Dorman, St. Paul
Phillip Royce Elliott, Minneapolis,
WITH DISTINCTION
Leutitia Ann Englin, Wayzata, WITH
DISTINCTION
Lon Michael Erickson, West St. Paul
Daniel Hilton Franssell, Minneapolis,
WITH DISTINCTION
Elizabeth Ann Gleason, Hopkins
Katherine Jeanne Glynn, Hopkins
Jack Lloyd Golod, Minneapolis
Kay Jean Gotfredson, Minneapolis
Gayle Ann Grafstrom, St. Paul
Michele Ann Growing, White Bear
Lake, WITH DISTINCTION
Lorne John Gunderson, Hibbing

Michelle Elaine Halverson,
 Minneapolis
 Clairann Merry Thorp Hanson,
 Minneapolis
 Wayne Charles Hanson, St. Paul
 Deanna Jean Hauger, Shakopee
 Arthur George Hennington, Sauk
 Centre, WITH HIGH DISTINCTION
 Henry Stephen Hirsch, St. Paul
 Nancy Marie Hummel, St. Paul
 Karol Ericson Jensen, Minneapolis,
 WITH HIGH DISTINCTION
 Dolores Adelaide Johnson, A.A.,
 Minneapolis, WITH DISTINCTION
 Janice Kay Johnson, New Brighton,
 WITH HIGH DISTINCTION
 Thomas Woodrow Keljik,
 Minneapolis, WITH DISTINCTION
 Rhonda Mary Klein, A.A., East St.
 Paul
 Susan Ruth Kroeck, Wayzata
 Diane Naomi Lake, Montevideo
 Carsten Henning Langeland,
 Minneapolis, WITH DISTINCTION
 Janice Irene Lindert, Brooklyn Center,
 WITH DISTINCTION
 Ellen Joan MacGregor, St. Paul, WITH
 DISTINCTION
 Karen Maxine Berndt Manwiller,
 Coon Rapids, WITH HIGH
 DISTINCTION
 Cynthia Louise Mattson, St. Paul
 Patricia Jean McCarthy, Willmar
 James Phillip Meissner, A.A., St. Paul
 Lynn Susan Mueller, St. Paul
 Suzanne Kay Bluhm Nelson, A.A.,
 Minneapolis
 James Alan Ness, North St. Paul
 Donald George Nikkola, Silver Bay
 Florence Maria Olson, Duluth, WITH
 DISTINCTION

Mary Lou Olson, Robbinsdale, WITH
 DISTINCTION
 Eileen Ann Ono, Minneapolis, WITH
 DISTINCTION
 Christopher Patrias, Morehead City,
 N.C., WITH DISTINCTION
 Diane May Pearson, Brooklyn Center
 Joyce Marie Peterson, Gibbon, WITH
 DISTINCTION
 Susan Jean Peterson, St. Paul, WITH
 DISTINCTION
 Michele Lou Phelps, Golden Valley
 Sally A. Racine, Cannon Falls
 Janet Osell Renz, Spring Lake Park
 Susan Jeanne Richert, Stillwater
 Carol Jean Roberts, New Hope
 Susan Carol Rose, New London
 Elaine Louise London Rothman,
 Minneapolis
 Shirley M. Rutherford, Fergus Falls
 Irene Joan Simonson, St. Paul
 Warren Wayne Slocum, White Bear
 Lake
 James Chandler Sorensen, Minneapolis
 Nanette Louise Stenseth, Buffalo
 Diane Eileen Strege, Anoka
 Robert Marshall Sutton, Minneapolis
 Joan E. Tomfohr, Red Wing
 Sister Mary Siena Wald, Little Falls
 Joyce Carol Wardell, St. Paul
 Nancy Ann Whisler, Excelsior, WITH
 HIGH DISTINCTION
 Craig John Wilson, Rochester, WITH
 HIGH DISTINCTION
 Carol Anne Wold, Minneapolis
 Judy Marilyn Wong, St. Louis Park
 Ella Kiel Woodruff, Stillwater
 Ellen Virginia Yoerg, Minneapolis

Master of Education

Maxine Vincentia Baker Brown, B.A., St. Paul	Thomas Ronald Rochat, B.A., Minneapolis
Elliott G. Burgess, A.A., B.A., New York, N.Y.	Beryl Lee Rullman, B.S., St. Paul
Charles Curtis Coffee, B.S., Chanhassen	Rebecca Ann Severin, B.A., McGrath
Curtis Wayne Engstrom, B.S., Excelsior	Kathleen Cynthia Smith, B.A., Minneapolis
Ronald Keith Hannula, B.A., St. Paul	David Lee Vos, B.A., St. Paul
Gary Allan Leland, B.S., Brooklyn Park	Bruce David Weber, B.S., Oshkosh, Wis.

GENERAL COLLEGE

Associate in Arts

Russel Coulston Anderson, St. Paul	Russell Charles Horsch, Minneapolis
Patricia Ann Antil, Waverly	Edward David Kabanuk, Minneapolis
Laurence Anthony Cuneo, Minneapolis	Martha Ann Kvanbeck, Minneapolis
Gary Mangil Dierke, West St. Paul	Dana Eleanor McNelly, Minneapolis
Thomas Daniel Flanery, Minneapolis	Joel Lindolph Oliver, Jr., Minneapolis
Robert Anthony Florentine, Jr., St. Paul	Lynda Louise Overton, Minnetonka
George Douglas Halonen, Hutchinson	Janet Kae Post, Stillwater
	Terrence Michael Walters, Rochester
	Darryl Herbert Wicklund, Edina

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Challis B. Anderson, Willmar	Mary Jo Nelson, St. Paul
Mary Agnes Belisle, St. Paul	Cynthia Ann Schmitz, Minneapolis,
Iona Iris Clark, Pine River	WITH DISTINCTION
Judith Ann Clinton, St. Cloud	Leslie Frances Zacher, Carlton
Carole June Grafstrom, St. Paul	Wilma Jeanne Zirglis, Sandstone
Linda Johnson Grant, Wadena	
Mary Ethel Monson, Newport, WITH DISTINCTION	

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Bachelor of Science

Gretchen Ann Donahue, Onamia, WITH DISTINCTION	Susan Fay Walther, Minneapolis, WITH DISTINCTION
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COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Dawn Kathleen Melgren Estall, Richfield

Bachelor of Arts

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

- Susan Eleanor Anderson, Brainerd,
SUMMA CUM LAUDE, Sociology
Herman Robert Andreasson,
Minneapolis
Corinne Anne Ascher, Minneapolis
RaeAnn Marie Autio, St. Paul
James David Axtell, Roseville
Patricia Eileen Banz, South St. Paul
Mary Janice Beaudoin, Minneapolis
Daniel John Beck, Fergus Falls
Steven C. Blaisdell, Minneapolis
Thomas Edward Bloom, St. Paul
Otte Maria Boersma, Jr., Minneapolis
Palmer Bridges, Minneapolis
Nancy Jo Burton, South St. Paul
James C. Caddy, St. Paul
David Bruce Cameron, Wausau, Wis.
Carlos Alberto Carrillo A., Pereira,
Colombia
Thomas Everett Casey, Minneapolis
Caroline Boalt Christian, St. Paul
Corliss Pollock Christiansen, St. Paul
Cynthia Jean Clayton, Minneapolis
Vicki Marleen Coffron, Grand Rapids
Deborah Anne Coleman, Edina
Tamsin Isabell Cormack, Homewood,
Ill.
Jean Helen Prestegard Costantini,
Owatonna
Denise Fay Cumming, Mapleton
Patrick Gerald Curran, Winona
Mary Sue Daly, St. Paul
Arden Duane Davis, Blooming Prairie
Lorraine Lembke Davis, Stillwater
Marcia Graham Dean, Hopkins
Thomas Fay DeWitt, Plainview
Julie Kay Diehl, Wabasso
Stephen Purcell Doherty, New Hope
John Dowdall, St. Paul
Kathleen Marie Drilling, Richfield
Charlotte Marie Druschel, Minne-
apolis, MAGNA CUM LAUDE, Pre-
Medicine
Jane Ann Eike, A.A., Heron Lake
David Melvin Elmquist, A.A., Min-
neapolis
Linda Carol English, Austin
Marilyn Mae Engvall, West Concord
Phyllis Anne Fadell, Minneapolis
Dennis E. Forkey, Minneapolis
Christine Ann Frandsen, Hopkins
Jon Michael Geiger, Stillwater
Marian Elizabeth Goddard, Roseville
Paul O. Godtland, A.A., Rochester
Barbara Jo Gowen, Richfield
Jon Frederick Griggs, Bloomington
Joyce Christine Grothe, Minneapolis
Charles Michael Grudem, St. Paul
Kevin Bruce Gubrud, Hopkins
Susan Ann Haeg, Robbinsdale
Kay Ellen Haggerty, St. Paul
Vincent Philip Halm, St. Paul
Vernon Marlow Hamberg, South St.
Paul
Barbara Jeanne Hawley, Pine City
Nancee Jayne Hayes, A.A., Rochester
Marie-Claude Hays, Montmorillon,
France, MAGNA CUM LAUDE, French
Elizabeth Nye Heffelfinger, A.A.,
Wayzata
Leslie Jon Hoffman, Richfield
Erling Rae Holdahl, St. Paul
Timothy Vincent Hughes, Hamel
Christine Maria Hunczak, Minne-
apolis
John Robert Jensen, A.L.A., Minne-
apolis
Frayne Robert Johnsen, Minneapolis

Gregory Allan Johnson, Richfield
 Linnea Marie Johnson, Minneapolis,
 MAGNA CUM LAUDE, *Social Welfare*
 Patrick William Kadlec, Minneapolis
 William Paul Kennedy, Staples
 Stephen Harris Kneeland, Longville,
 CUM LAUDE, *Humanities*
 James Joseph Koenen, St. Paul
 Jayne Lee Kuhar, Ely
 Nicholas Kushnir, Minneapolis
 Walter Durand Larrabee, A.A., Will-
 mar
 Wendelyn Jean Larson, Minneapolis
 Joan Marie Laughnan, Minneapolis
 James Bryan Lect, Minneapolis
 Gregg Marcus Lilyquist, St. Paul
 Warren James Linc, A.A., Minne-
 apolis
 Laurie Anne Lindahl, St. Paul
 Gretchen Anne Link, Minneapolis
 Joan Catherine Locke, A.A., Minne-
 apolis
 Gloria Jeanne Majerus, Plainview
 Mary Kay Martin, Hopkins
 Theodore Massey, St. Paul
 Alan Steven Max, Minneapolis
 Douglas John McBain, St. Paul
 Terrance Richard McTeague, St. Paul
 Timothy J. Mens, West St. Paul
 Laird Lee Miller, Minneapolis
 Patricia Ann Mills, Minneapolis, CUM
 LAUDE, *Humanities*
 Richard Allen Monroe, Wadena
 Gregory Bruce Moodie, Richfield
 Nan Elizabeth Moore, Rochester
 Kathleen Adair Morris, Wheaton, Ill.
 Donald Wayne Mosher, Minneapolis
 Terrance Michael Murray, St. Paul
 Patricia Gene Nelson, Fairmont
 Ellen Ann Norwich, Edina
 Lynn Sheldon Oliver, Minneapolis
 John Allen O'Loughlin, Rochester
 Beverly Jean Olson, Minneapolis
 Linda Jean Olson, Minneapolis
 Thomas Charles Olson, Hopkins, CUM
 LAUDE, *Theatre*
 Jerry Wayne Oothoudt, B.A., Albert
 Lea
 James Lowell Orenstein, Minneapolis
 John Thomas Peer, A.A., Minneapolis
 Donna Catherine Peterson, Wadena

Janet Rae Peterson, Minneapolis
 David Charles Piazza, Minneapolis
 Paul Raymond Popelka, St. Paul
 Susan Marie Quast, Menno, S.D.
 Raymond A. Radintz, Minneapolis
 Judith Kay Redmond, Bloomington
 James Edgar Reid, South St. Paul
 Emerald Rios, Minneapolis
 Roxanna Jane Roling, Caledonia
 Thomas Clair Rollings, Minneapolis
 Susan Lee Rollwagen, St. Paul
 Kenneth Ernest Rother, Winona
 Mary Joan Rush, Minneapolis
 Patricia Mary Russell, Minneapolis
 Richard Dennis Ryan, St. Paul
 Darlene Iva Sampson, Inver Grove
 Heights
 Wayne Lynn Sather, Cottage Grove,
 MAGNA CUM LAUDE, *Economics*
 Sandra Jane Schaper, Minneapolis
 Ruth Ann Schroeder, Thief River
 Falls
 Daniel Hyman Schwartz, Minneapolis
 James Michael Shultis, Minneapolis
 Lloyd Steven Sieden, St. Paul
 Michael Silverman, St. Louis Park
 Jane Ellen Simpson, Excelsior
 Duane Edmund Spiess, Jr., St. Paul
 Oksana Luba Stanyslavin, Minne-
 apolis
 Sawyer Brace Stern, Eden Prairie,
 MAGNA CUM LAUDE, *Anthropology*
 Faith Lila Storaasli, St. Paul
 Clitheroe Dean Svenson, Excelsior
 Michael Adrian Testa, St. Paul
 William Herbert Thurk, Mound
 Caroline Janes Todd, Bloomington,
 CUM LAUDE, *Mathematics*
 Mathew John Tombers, Minneapolis,
 SUMMA CUM LAUDE, *Theatre*
 Mary Elizabeth Toyen, Minneapolis
 Richard James Ulrich, White Bear
 Lake
 Kathleen Mary Urbaniak, Minneapolis
 Suzanne Marie Urseth, Minneapolis
 David Joseph Venables, Honolulu,
 Hawaii
 Roger Timothy Virta, Duluth
 Maximilian von-Rabenau, Minne-
 apolis
 Jeanne Therese Wald, St. Paul

Jennifer June Wallner, St. Paul
Michelle Marie Weinhausen, Minneapolis
Mary Ellen Wikoff, Crookston
Linda E. Logan Will, A.L.A., Minneapolis
Marilyn Margaret Wirtz, Minneapolis

Robert John Wolf, Minneapolis
Kristen Campbell Woolcock, Eveleth
Jill Susan Wormley, Milwaukee, Wis.
Irene Mary Zieske, Orr
Virginia Lillian Zimms, B.S.N., Minneapolis
Kathryn Fern Zoff, St. Paul

Bachelor of Fine Arts

Shan-Shan Chen, B.S., Taipei, Taiwan
Lucia Adele Perbix, Minneapolis

Dale Anthony Stark, Richfield

MEDICAL SCHOOL MEDICINE

Doctor of Medicine

Ares-Demetrius Pasipoularides, Minnetonka

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Carolyn Marie Doerhoff, B.S., St. Elizabeth, Mo.
Sheila Catherine Flynn, B.A., Canby
Anne LaVerne Hanford, B.S., LaGrande, Ore.
Theophanis Hortis, B.A., Lefkas, Greece
Kristin Virginia Koos, B.S., Tangent, Ore.

Heidemarie Charlotte Pantke, Dusseldorf, Germany
Judith Louis Peterka, B.A., Shaker Heights, Ohio
Karen Ann Rooney, B.A., St. Paul
Elaine Ann Sullivan, B.S., Boston, Mass.
Dorothy Maxine Willi, B.S., Denver, Colo.

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Charles Earl Rose, Morris

Bachelor of Chemical Engineering

Gustavo Daniel Furman, Santiago, Chile

Richard Patrick Lewis, Minneapolis

Bachelor of Computer Science

Warren Paul Johnson, Minneapolis

Bachelor of Electrical Engineering

Ronald Dean Larson, Pine Island
Donald Chris Nelson, Clarkfield
Gary Lamont Nereson, Thief River
Falls

Steven Lee Savitt, Minneapolis
Douglas Orin Tull, Edina
Marcus Dean Volz, Minnesota Lake

Bachelor of Mathematics

Robert Wayne Fledderman, Bloom-
ington

Harry Jacobs, St. Louis Park
Robert Charles Stever, Moorhead

Bachelor of Mechanical Engineering

Kent Warren Larson, Center City,
WITH HIGH DISTINCTION
Kenneth Howard Nordstrom, Minne-
apolis

Charles Louis Olson, International
Falls
Ronald Lee Then, Willmar
Mark Lee Zauhar, Crosby

UNIVERSITY COLLEGE

Bachelor of Science

Ronnellee Cousin, A.A., Minneapolis
Gordon A. Hawkins, St. Paul
Vincent Hill, A.A., Minneapolis
Judith Rolla Kessel, Minneapolis

Jacklyn Mae Mayberry, A.A., St. Paul
Kathleen Jane Newell, G.D.H., Wa-
dena

July Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Infantry

David J. Venables, San Francisco, Calif.

Second Lieutenant, Transportation Corps

Robert J. Blum, Rochester

August Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Daniel George Barnett, Ruthven, Iowa
B.A. '58, St. John's University; M.S. '64, St. Cloud State College. Major: Educational Administration. Minor: Supporting Field. Thesis: The Student Council as a Mechanism for Effecting Optimal Integration of Students in High School Organization: A Field Project in Model Construction. Major Adviser: Prof. V. D. Mueller.

James Lyle Gavenda, New Hope

B.S. '60, M.A. '62, Spec. Cert. '68, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: Analysis of the Special Education Programs and Services of the Cooperative Special Education Units Funded Under E.S.E.A. Title VI in Minnesota. Major Adviser: Prof. V. D. Mueller.

John Walter Lyngdal, Minneapolis

B.A. '59, Augsburg College; M.S. '64, North Dakota State University. Major: Educational Administration. Minor: Supporting Field. Thesis: Models for the Professional Development of Secondary School Principals. Major Adviser: Prof. N. C. Nickerson.

Ronald Paul Weiss, St. Paul

B.A. '64, M.A. '66, California Western University. Major: Educational Administration. Minor: Supporting Field. Thesis: The Processes Involved in Successfully Implementing Modular Scheduling in a Secondary School. Major Adviser: Prof. V. D. Mueller.

Doctor of Philosophy

Theodore Darrell Allen, Minneapolis

B.A. '66, M.S. '68, University of Minnesota. Major: Microbiology. Minor: Supporting Field. Thesis: The Effect of Canavanine on Protein Synthesis. Major Adviser: Prof. Palmer Rogers.

Roy Emmanuel Almen, Minneapolis

B.A. '52, Northwestern College; M.Ed. '61, Macalester College. Major: Education. Minor: Educational Administration. Thesis: An Evaluation of Selected Objectives of a Program for Potential Dropouts. Major Adviser: Prof. W. A. Kavanaugh.

Gabriel Arieli, Tel Aviv, Israel

B.A. '66, Hebrew University of Jerusalem. Major: Political Science. Minor: Sociology. Thesis: Human Universals, Cultures and Governments: A Framework for Comparative Analysis. Major Adviser: Prof. M. Q. Sibley.

Gilbert Allen Atkinson, Bellingham, Wash.

B.S. '59, M.S. '61, University of Washington. Major: Psychology. Minor: Educational Psychology. Thesis: Personality and Hypnotic Cognition. Major Adviser: Prof. Auke Tellegen.

Neil McClelland Baird, Decatur, Ill.

B.A. '65, Millikin University. Major: Anatomy. Minor: Supporting Field. Thesis: In Vitro Regulation of Proinsulin Synthesis in Isolated Rat Islets. Major Adviser: Prof. G. E. Bauer.

J. Richard Barclay, Morristown, Pa.

B.A. '66, M.A. '68, Temple University. Major: Child Psychology. Minor: Psychology. Thesis: The Role of Comprehension in Remembering Sentences. Major Adviser: Prof. J. H. Flavell.

Ronald Joseph Bennett, Chippewa Falls, Wis.

B.S. '65, Wisconsin State University; M.S.M.E. '67, University of Minnesota. Major: Metallurgical Engineering. Minor: Supporting Field. Thesis: A Study of Recrystallization Nucleation in a Low-Carbon Rimming Steel. Major Adviser: Prof. M. E. Nicholson.

Jeannine Bohlmeier, St. Paul

B.S. '53, Wheaton College; M.S. '55, University of Wisconsin. Major: English. Minor: Classics. Thesis: Michael Drayton: Moral Certainty in Poetic Diversity. Major Adviser: Prof. G. W. O'Brien.

Richard Neal Boisvert, Chinook,
Mont.

B.S. '66, Montana State University. Major: Agricultural Economics. Minor: Economics. Thesis: A Model for Farm Planning Under Uncertain Weather Conditions: An Application to Southern Minnesota Cash Grain Farms. Major Adviser: Prof. H. R. Jensen.

Juan Brenes, Cadiz, Spain

D.V.M. '61, Ph.D. '63, University of Madrid. Major: Nutrition. Minor: Biochemistry. Thesis: Influence of Calcium, Phosphorus, and Vitamin D₃ on Performance and Bone Metabolism of Turkeys. Major Adviser: Prof. P. E. Waibel.

Richard Carl Broeker, Bloomington

B.A. '64, Lawrence University; M.S.W. '66, University of Minnesota. Major: Social Work. Minor: Sociology. Thesis: A Study of Social Workers' Professional Role Conformity as Related to Career Selection Patterns, Values and Personal-Situational Factors. Major Adviser: Prof. J. C. Kidneigh.

Judith Lee Rehfeld Brown, Minne-
apolis

B.S. '55, M.A. '60, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Stability of Individual Teacher Effectiveness in Teaching Reading at First Grade Level. Major Adviser: Prof. M. C. Reynolds.

Brenda Kay Bryant, New York, N.Y.

B.A. '67, Cornell University. Major: Psychology. Minor: Educational Psychology. Thesis: Student-Teacher Relationships as Related to Internal-External Focus of Control. Major Adviser: Prof. M. D. Hall.

James William Cagley, Minneapolis

B.S.B. '67, M.S. '68, University of Minnesota. Major: Business Administration. Minor: Supporting Field. Thesis: Relative Preferences of Print Appeals Among Children by Social Situation Portrayed in an Ad and Age of Subject. Major Adviser: Prof. R. J. Holloway.

William Bremner MacGregor Cassie,
Lowville, N.Y.

B.A. '61, Hamline College; M.S. '65, University of Alberta; M.B.A. '67, Harvard University. Major: Business Administration. Minor: Supporting Field. Thesis: Consumer Behavior in the Medical Care Services Delivery Setting: A Study of the Expectations and Outcome Evaluations of the Medical Patient. Major Adviser: Prof. R. N. Cardozo.

Chung-Hsiung Chen, Taipei, Taiwan

B.S. '63, M.S. '66, National Taiwan University. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: Synthetic Studies on Bisnorargemone and Its Related Isomers. Major Adviser: Prof. T. O. Soine.

Donald Arden Chipman II, Clarendon
Hills, Ill.

B.A. '53, Princeton University; M.Ed. '67, Loyola University. Major: Educational Psychology. Minor: Psychology. Thesis: The Attitudes, Behaviors and Characteristics of Students at Macalester College with Respect to the Use of Illicit and Exotic Drugs with Particular Emphasis on Marijuana. Major Adviser: Prof. C. A. Parker.

Raymond Joseph Collins, Dubuque,
Iowa

B.A. '49, Loras College; M.S. '54, Catholic University of America. Major: Mathematics. Minor: Supporting Field. Thesis: An Operator Valued Function Space Integral Applied to Analytic and Non-Analytic Functions of Integrals. Major Adviser: Prof. R. H. Cameron.

Dennis Ronald Daluge, Springfield

B.A. *magna cum laude* '64, Macalester College. Major: Mathematics. Minor: Physics. Thesis: The Space of Conjugacy Classes of a Locally Compact Topological Group. Major Adviser: Prof. Jesus Gil de Lamadrid.

Gene Albert D'Amour, St. Paul

B.A. '65, St. Mary's College. Major: Philosophy. Minor: Supporting Field. Thesis: Political Theory as a Science or Ethical Theory as the Hard Core of a Scientific Research Program. Major Adviser: Prof. Keith Gunderson.

Abraham Degani, Tel Aviv, Israel

B.S. '62, Hebrew University; M.A. '70, University of Minnesota. Major: Geography. Minor: Supporting Field. Thesis: Toward an Automated Atlas of Population with Israel as a Case Study. Major Adviser: Prof. P. W. Porter.

Joseph Edward De Larco, Chicago, Ill.

B.S. '63, St. Procopius College; M.S. '67, University of Illinois. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Site of Interaction Between Soybean Trypsin Inhibitor and Trypsin. Major Adviser: Prof. I. E. Liener.

Michael Frederick Harry Dennis,
Dorset, England

B.A. '67, University of Leicester; M.A. '69, University of Minnesota. Major: Political Science. Minor: Supporting Field. Thesis: The Role of Navies in Limited War. Major Adviser: Prof. R. E. Riggs.

Victor Alexander Dirks, Winnipeg,
Manitoba, Canada

B.S.A. '43, M.S. '45, University of Manitoba. Major: Genetics. Minor: Plant Pathology. Thesis: Computer Simulation of Normally Self-Fertilizing Populations Involving Linkage. Major Adviser: Prof. C. E. Gates.

John Dueck, Altona, Manitoba,
Canada

B.S.A. '64, University of Manitoba; M.S. '66, University of Minnesota. Major: Plant Pathology. Minor: Plant Physiology. Thesis: Some Physiological and Ultrastructural Aspects of Systemic Toxemia in Soybean. Major Adviser: Prof. B. W. Kennedy.

Roger Herbert Erickson, Hibbing

B.A. '64, University of Minnesota. Major: Zoology. Minor: Biochemistry. Thesis: Oxidase Enzymes in the Bacterium *Nitrosomonas europaea*. Major Adviser: Prof. A. B. Hooper.

Charles Arthur Findley, Indianapolis,
Ind.

B.A. '66, Indiana University; M.A. '68, University of Hawaii. Major: Speech-Communication. Minor: Supporting Field. Thesis: Social Acceptability and Employability: An Experimental Study of the Effect of Structural Maturity and Four Grammatical Features on Judgments of Employability. Major Adviser: Prof. W. S. Howell.

John Andrew Fisher, Minneapolis

B.A. '63, University of Minnesota. Major: Philosophy. Minor: Supporting Field. Thesis: On Being Guided by a Rule: Some Reflections on a Conceptual Problem in Chomsky's Theory of Syntax. Major Adviser: Prof. H. E. Mason.

Brian Fitch, St. Paul

B.A. '65, Carleton College. Major: Educational Administration. Minor: Supporting Field. Thesis: An Analysis of the Functions of Administration in Selected Elementary School Environments. Major Adviser: Prof. W. M. Ammentorp.

Arturo Angel Fox, Holguín, Cuba

D.L. '60, University of Havana; M.A. '68, University of Minnesota. Major: Spanish. Minor: Supporting Field. Thesis: La Novela de Unamuno y el Modo Dramático (Unamuno's Novel and the Dramatic Mode). Major Adviser: Prof. J. B. Hughes.

Margaret-Mary Franz, Los Angeles,
Calif.

B.A. '67, M.A. '68, California State College at Los Angeles. Major: Sociology. Minor: Supporting Field. Thesis: Social Alienation, Self Alienation and Group Membership. Major Adviser: Prof. D. A. Martindale.

Warren Lindsay Frost, Minneapolis

B.A. '50, Middlebury College; M.A. '67, Occidental College. Major: Theatre Arts. Minor: Supporting Field. Thesis: Novel Into Play: An Examination and Illustration of Techniques Used in the Adaptation of Selected American Novels for Stage Performance. Major Adviser: Prof. C. M. Nolte.

Laël Cranmer Gatewood, Minneapolis

B.A. '59, Rockford College; M.S. '66, University of Minnesota. Major: Biometry. Minor: Biophysics. Thesis: Stochastic Simulation of Influenza A Epidemics Within a Structured Community. Major Co-Advisers: Profs. L. R. Elveback and Eugene Ackerman.

Constance Joanna Gefvert, Cleveland,
Ohio

B.A. '64, Fenn College; M.A. '66, University of Minnesota. Major: English. Minor: Supporting Field. Thesis: Edward Taylor: An Annotated Bibliography. Major Adviser: Prof. E. M. Griffin.

Zeinab Said Desouki Gomaa, Cairo,
Egypt

B.S. '64, Cairo University. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: Absolute Stereochemistries and Analgesic Potencies of γ -5-Methylprodine Enantiomers. Major Adviser: Prof. P. S. Portoghese.

Julian Michael Greene, Dallas, Tex.

B.A. cum laude '63, Rice University; M.A. '65, University of Minnesota. Major: Economics. Minor: Supporting Field. Thesis: An Empirical Analysis of Rate-of-Return Regulation and Its Effect on Investment in Steam-Electric Generation. Major Adviser: Prof. H. D. Mohring.

James Allen Hamann, Bloomington

B.S. '60, Mankato State College; M.A. '68, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: A Survey of Innovations, Factors That Bring About Innovation, and Strategies for Change. Major Adviser: Prof. N. C. Nickerson.

George Russell Hatton, Minneapolis

B.A. '56, University of King's College; S.T.M. '63, Yale Divinity School. Major: Sociology. Minor: Supporting Field. Thesis: The Crisis of Minto. Major Adviser: Prof. D. A. Martindale.

Charles Ralph Hearn, Cape Girardeau, Mo.

B.S. '59, M.A. '60, Southern Illinois University. Major: American Studies. Thesis: The Dream of Success in the Great Depression. Major Adviser: Prof. Joseph Kwiat.

Rosalie Darm Henley, Duluth

B.A. '65, College of St. Scholastica; M.A. '67, University of Minnesota, Duluth. Major: English. Minor: Supporting Field. Thesis: Chaucer's Parlement of Foules: Three Faces of Love. Major Adviser: Prof. J. J. McNally.

Reginald Wayne Higgs, London, Ontario, Canada

B.A. '66, University of Western Ontario; M.S. '68, Pennsylvania State University. Major: Education. Minor: Supporting Field. Thesis: Attitudes Toward Persons with Physical Disabilities as a Function of Information Level and Degree of Contact. Major Adviser: Prof. J. F. Alexander.

Joseph Harris Highland, Elmont, N.Y.

B.A. '66, Hofstra University. Major: Biochemistry. Minor: Genetics. Thesis: Characteristics of Synthetic Polynucleotide Translation. Major Adviser: Prof. J. W. Bodley.

David Alan Horowitz, Portland, Ore.

B.A. '64, Antioch College. Major: History. Minor: Supporting Field. Thesis: Visions of Harmonious Abundance: Corporate Ideology in the 1920's. Major Adviser: Prof. D. W. Noble.

Dayton Delano Hultgren, Minneapolis

B.S. '53, State College of Mayville; B.D. '57, University of Dubuque; M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Interests and Job Activities of Ministers in a Variety of Preferred Roles. Major Adviser: Prof. W. H. Edson.

Elnora T. Huyck, Ames, Iowa

B.S. '40, M.S. '58, Kansas State University. Major: Educational Psychology. Minor: Supporting Field. Thesis: A Test of the Relative Effectiveness of a Didactic Teaching Model Versus a Didactic/Experimental Model in Teaching a Complex Behavior. Major Adviser: Prof. C. A. Parker.

Stephen Dorwald Johnson, Cloquet

B.A. '65, M.A. '67, University of Minnesota. Major: Educational Psychology. Minor: Sociology. Thesis: The Role of Knowledge Deprivation About One's Attitude Toward Mathematics in Determining Situational Open-and-Closed Mindedness and Interpersonal Attraction. Major Adviser: Prof. D. W. Johnson.

Robert John Kaczorowski, Chicago, Ill.

B.S. '60, Loyola University; M.A. '67, De Paul University. Major: History. Minor: Supporting Field. Thesis: The Nationalization of Civil Rights: Constitutional Theory and Practice in a Racist Society, 1866-1883. Major Adviser: Prof. P. L. Murphy.

Henry Edward Kalb, Rochester

B.A. '58, M.A. '61, University of Minnesota. Major: French. Minor: Classics. Thesis: Thematic Structures in Mauriac's Fiction. Major Adviser: Prof. P. W. Lock.

Dwight Randolph Kauppi, Toivola

B.A. '56, University of Minnesota, Duluth. Major: Psychology. Minor: Educational Psychology. Thesis: The Development of Instrument-Specific Reading and Comprehension Pretests for Standardized Questionnaires and Inventories. Major Adviser: Prof. L. H. Lofquist.

Doo Kyung Kim, Kyung-Man, Korea

B.S. '64, M.S. '66, Seoul National University. Major: Plant Breeding. Minor: Supporting Field. Thesis: Use of 4-parent Diallel Soybean Cross for Measuring Heterosis and Predicting Performance of Derived Lines. Major Adviser: Prof. J. W. Lambert.

Karen Hallback Kitchak, Minneapolis

B.A. '63, University of Minnesota, Duluth; M.A. '65, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Evaluation and Decision Making for School Psychological Support Services. Major Adviser: Prof. F. H. Wood.

Arlen Daryl Klosterboer, Rock Rapids,
Iowa

B.S. '63, South Dakota State University; M.S. '67, Clemson University. Major: Agronomy. Minor: Supporting Field. Thesis: Factors Affecting the Herbicidal Performance of Trifluralin, Nitralin and AN56477. Major Adviser: Prof. Richard Behrens.

Ju-Chin Lee, I-Lan, Taiwan

M.D. '65, National Taiwan University. Major: Pathology. Minor: Supporting Field. Thesis: A Developmental Study of Constitutive Heterochromatin in *Microtus Agrestis*. Major Adviser: Prof. J. J. Yunis.

Alden Conrad Lorents, Bemidji

B.B.S. '60, Concordia College; M.B.A. '63, University of Minnesota. Major: Business Administration. Minor: Supporting Field. Thesis: Faculty Activity Analysis and Planning Models in Higher Education. Major Adviser: Prof. G. B. Davis.

Charles Keith Marschke, Kalamazoo,
Mich.

B.A. '65, M.S. '69, University of Minnesota. Major: Biochemistry. Minor: Microbiology. Thesis: The Regulation of Phosphofructokinase in *Bacillus Itcheniformis*. Major Adviser: Prof. R. W. Bernelohr.

Franklin LeRoy McCarthy, Eugene,
Ore.

B.A. '59, Hope College; M.B.A. '62, University of Chicago. Major: Business Administration. Minor: Economics. Thesis: Auditing the Municipal Capital Expenditure Decision. Major Adviser: Prof. G. B. Davis.

Evelyn Louise McGown, Council,
Idaho

B.S. '66, University of Idaho. Major: Nutrition. Minor: Biochemistry. Thesis: Factors Affecting Ribosomal Aggregation in the Isolated Perfused Rat Liver. Major Adviser: Prof. P. B. Swan.

Stephen Allan McGrath, Minneapolis

B.A. '65, Southern Illinois University; M.A. '67, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: Dominated Estimates of Positive Contractions. Major Adviser: Prof. R. V. Chacon.

Sandra Lee Thomas McKay,
Minneapolis

B.S. '67, M.A. '69, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: An Historical Analysis of the Intellectual and Sociocultural Matrix of Linguistic Diversity, 1954-1970. Major Adviser: Prof. G. L. Piche.

Allan Irving McKenzie, San Fernando,
Trinidad

B.A. '58, McMaster University; M.Ed. '64, University of New Brunswick; M.A. '65, Queen's University; M.A. '70, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: The Congruences and Dissonance Between Students and Teachers in Setting Priorities Among Secondary School Goals: A Comparative Study. Major Adviser: Prof. E. M. Birkmaier.

Andrew Knight McMahan, Great
Falls, Va.

B.A. '66, Amherst College. Major: Physics. Minor: Supporting Field. Thesis: Critique of Recent Theories and Monte Carlo Calculation of Exchange of Solid He₄. Major Adviser: Prof. L. H. Nosanow.

Russell Gordon Mein, Melbourne,
Australia

B.E. '65, M.E.S. '67, University of Melbourne. Major: Agricultural Engineering. Minor: Supporting Field. Thesis: Modeling of the Infiltration Component of the Watershed Rainfall-Runoff Process. Major Adviser: Prof. C. L. Larson.

Jesse Samuel Miguel, Dallas, Tex.

B.A. '55, Southern Methodist University; M.A. '65, Southeastern State College. Major: Educational Administration. Minor: Supporting Field. Thesis: Value Patterns of the Minorities and Student Unrest. Major Adviser: Prof. C. P. Hooker.

JoAnn Moody, Concord, Va.

B.A. '67, College of William and Mary. Major: English. Minor: Supporting Field. Thesis: Britomart, Imogen, Perdita, the Duchess of Malfi: A Study of Women in English Renaissance Literature. Major Adviser: Prof. G. W. O'Brien.

Thomas Patrick Mullen, Homeland,
Calif.

B.A. '60, Whittier College; M.A. '70, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: The Effect of Silent and Oral Reading Procedures on Word Pronunciation and Comprehension Among Poor Readers in Junior High School. Major Adviser: Prof. B. E. Balow.

Fred Russell Newbold, Arlington, Va.

B.C.E. '67, University of Virginia. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Theoretical Analysis of a Multi-component Spray Reactor. Major Adviser: Prof. N. R. Amundson.

John Waldemar Newstrom, Aitkin
B.A. '64, University of Minnesota, Duluth;
M.B.A. '67, University of Minnesota. Major:
Business Administration. Minor: Industrial Re-
lations. Thesis: The Assessment of Quality and
Acceptance Dimensions of Managerial Prob-
lems. Major Adviser: Prof. R. K. Gaumnitz.

Cameron Charles Nickels, St. Paul
B.A. '62, Fort Hays Kansas State College;
M.A. '64, Southern Illinois University. Major:
American Studies. Thesis: The New England
Tradition of Native American Humor: 1815-
1867. Major Adviser: Prof. C. H. Foster.

Winifred Hallock Nies Northcott,
St. Louis Park
B.A. '38, Connecticut College for Women;
M.A. '39, Columbia University; Spec. Cert.
'66, University of Minnesota. Major: Educa-
tional Administration. Minor: Educational Psy-
chology. Thesis: Competencies Needed by
Teachers of Hearing-Impaired Infants, Birth
to Three Years of Age, and Their Parents.
Major Adviser: Prof. V. D. Mueller.

Elam Wray Nunnally, Milwaukee,
Wis.
B.A. '48, Emory University; M.A. '53, Univer-
sity of Chicago. Major: Sociology. Minor: So-
cial Work. Thesis: Effects of Communication
Training Upon Interaction Awareness and
Empathic Accuracy of Engaged Couples: A
Field Experiment. Major Adviser: Prof. Irving
Tallman.

Helen Claire Oels, Philadelphia, Pa.
B.S. '53, Chestnut Hill College; M.D. '57,
Woman's Medical College of Pennsylvania.
Major: Pathology. Minor: Hematology. Thesis:
Cell Wall Structure of Histoplasma Capsula-
tum. Major Adviser: Prof. A. H. Baggenstoss.

Sea-Wha Oh, Seoul, Korea
B.S. '65, M.S. '67, Seoul National University.
Major: Organic Chemistry. Minor: Physical
Chemistry. Thesis: Hydrolysis of Diazoacetate
by Aqueous Ammonium Salts. Major Adviser:
Prof. M. M. Kreevoy.

John Otto Olson, Fort Camp, Me.
B.A. '65, Gustavus Adolphus College. Major:
Organic Chemistry. Minor: Supporting Field.
Thesis: Biosynthesis and Metabolism of the
Alkaloids of Poison Hemlock. Major Adviser:
Prof. Edward Leete.

Clayton Richard Oslund, Solway
B.S. '58, University of Minnesota; M.A. '65,
University of Michigan. Major: Plant Physiolo-
gy. Minor: Botany. Thesis: The Influence of
Temperature and Photoperiod on the Quantity
and Quality of Ribonucleic Acids in Potato
Plants. Major Adviser: Prof. P. H. Li.

Marvin M. Pace, Hoytsville, Utah
B.S. '66, Utah State University; M.S. '68,
University of Minnesota. Major: Animal Sci-
ence. Minor: Biochemistry. Thesis: A Study
of the Cryoprotective Properties of Egg Yolk
in Semen Extenders. Major Adviser: Prof. E.
F. Graham.

Robert George Packard, Minneapolis
B.A. '55, M.A. '59, St. Paul Seminary; M.A.
'69, Western Michigan University. Major:
Educational Psychology. Minor: Supporting
Field. Thesis: PPRI: Individualized Rates for
a Total Instructional System. Major Adviser:
Prof. R. W. Burris.

Douglas Arthur Peterson, Duluth
B.A. '66, St. Olaf College. Major: Organic
Chemistry. Minor: Supporting Field. Thesis: A
Synthetic Approach Towards Camptothecin.
Major Adviser: Prof. R. F. Borch.

James Provinzano, Winneconne, Wis.
B.A. '66, Hunter College; M.A. '68, University
of Minnesota. Major: Anthropology. Minor:
Supporting Field. Thesis: Chicano Migrant
Farm Workers in a Rural Wisconsin County.
Major Adviser: Prof. L. P. Gerlach.

Richard James Puhl, Colfax, Wis.
B.S. '66, Wisconsin State University. Major:
Organic Chemistry. Minor: Supporting Field.
Thesis: Reactions of Isatogen Analogs. Major
Adviser: Prof. W. E. Noland.

Edward Joseph Pulju, Minneapolis
B.A. '58, St. Thomas College; M.A. '65, Uni-
versity of Minnesota. Major: English. Minor:
Latin. Thesis: Reality and Artifice in Trol-
lope's Palliser Novels. Major Adviser: Prof.
G. T. Wright.

Donald Charles Rainbow, Anoka
B.A. '65, M.A. '67, University of Minnesota.
Major: Education. Minor: Educational Psy-
chology. Thesis: A Comparison of Expressed
Leisure Interests of Educable Mentally Re-
tarded Boys and Normal Boys. Major Co-
Advisers: Profs. J. M. Anderson and C. J.
Hoyt.

Mohammad Akram Rajput, Kotmonin,
West Pakistan

B.S. '61, M.A. '63, Punjab University; M.A.
'66, Indiana State University. Major: Interna-
tional Relations. Minor: Supporting Field.
Thesis: An Analysis of the Foreign Policy of
Pakistan Toward India, Communist China, the
Soviet Union, and the United States, 1954-
1968. Major Adviser: Prof. R. E. Riggs.

Paul David Rick, St. Paul

B.A. '64, Macalester College; M.S. '66, University of Minnesota. Major: Biochemistry. Minor: Supporting Field. Thesis: Structural and Biosynthetic Investigations on the Exocellular Peptidodiphosphogalactomannan Produced by *Penicillium charlesii*, G. Smith. Major Adviser: Prof. J. E. Gander.

Mary Catherine Ritter, Joliet, Ill.

B.S. '65, College of St. Francis; M.S. '69, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Activators and Inhibitors of Enzymic Cholesterol Biosynthesis. Major Adviser: Prof. M. E. Dempsey.

Timothy Carl Lidfors Robinson,
Forest Lake

B.A. '65, Gustavus Adolphus College. Major: Psychology. Minor: Supporting Field. Thesis: Effect of Electrical Stimulation of Vagus Nerve Afferents on Food Motivated Behavior in Cats. Major Adviser: Prof. W. W. Roberts.

Dwight Allen Rokala, Winnipeg,
Manitoba, Canada

B.A. '63, M.A. '65, University of Colorado. Major: Anthropology. Minor: Supporting Field. Thesis: The Anthropological Genetics and Demography of the Southwestern Ojibwa in the Greater Leech Lake-Chippewa National Forest Area. Major Adviser: Prof. R. I. Murrill.

Daniel Selvarajh Sanders, Colombo,
Ceylon

B.A. '53, University of Ceylon; Dip.S.W. '58, University of Wales; M.S.W. '67, University of Minnesota. Major: Social Work. Minor: Supporting Field. Thesis: Social Policy Changes in Social Insurance: Role of American Social Reform Movements. Major Adviser: Prof. J. C. Kidneigh.

John Charles Schneider, New York,
N.Y.

B.A. '66, Fordham University; M.A. '68, University of Minnesota. Major: History. Minor: Supporting Field. Thesis: Mob Violence and Public Order in the American City: 1830-1865. Major Adviser: Prof. K. J. Brauer.

William Daniel Serbyn, Milwaukee,
Wis.

B.A. '51, B.S. '52, M.S. '53, University of Chicago. Major: Mathematics. Minor: Physics. Thesis: On the Boundary Behavior of Lacunary Power Series. Major Adviser: Prof. J. B. Serrin.

Leonard Joseph Simutis, Evergreen
Park, Ill.

B.A. '65, University of Illinois; M.A. '67, University of Minnesota. Major: American Studies. Thesis: Frederick Law Olmsted's Later Years: Landscape Architecture and the Spirit of the Place. Major Adviser: Prof. D. W. Noble.

Dwight Sylvan Springer, Minneapolis

B.C.E. '65, University of Delaware. Major: Chemical Engineering. Minor: Mathematics. Thesis: Some Transient Phenomena in Continuous Microbial Populations. Major Co-Advisers: Profs. H. M. Tsuchiya and A. G. Fredrickson.

Joan Marie Spyker, Minneapolis

B.S. '65, Marquette University. Major: Anatomy. Minor: Supporting Field. Thesis: Methylmercury, Mice and Men. Major Adviser: Prof. Morris Smithberg.

Thomas George Stavros, Rochester

B.S. '64, University of Minnesota. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Iron (II) — Iron (III) Electron Exchange in Acetonitrile-Water Solvent Mixtures. Major Adviser: Prof. W. L. Reynolds.

Peter Stephen Stone, Golden Valley

B.E.E. '67, M.S.E.E. '69, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Numerical Investigation of the Steady-State Behavior of Silicon Diodes. Major Adviser: Prof. Allen Nussbaum.

Narakkat Padnanabhan Sukumaran,
Manalur, India

B.S. '57, Maharaja's College; M.S. '59, Birla College; M.S. '68, University of Minnesota. Major: Botany. Minor: Biometry. Thesis: An Investigation of Frost Injury and Frost Resistance in Tuber Bearing Solanum Species. Major Adviser: Prof. C. J. Weiser.

Brian Frank Tack, Bellingham,
Wash.

B.A. '66, Western Washington State College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Bacterial Metabolism of Gallic Acid and the Purification and Properties of a New Bacterial Lyase. Major Adviser: Prof. Stanley Dagley.

Han-Wan Tan, Kuala Lumpur,
Malaysia

B.S. '64, Nanyang University; M.S. '68, University of Minnesota, Duluth. Major: Organic Chemistry. Minor: Supporting Field. Thesis: Part I: Favorskii Rearrangements of Diastereomeric α, α' -Dihaloketones. Part II: Conformational Analysis of 5-Methyl-1,3-Cyclohexadiene by an NMR Method. Major Adviser: Prof. E. W. Garbisch.

Peter Michael Tomsich, Gilbert

B.A. '64, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: The Structure of Clifford Algebras and Their Periodicity. Major Adviser: Prof. Alfred Aepli.

Robert Anthony Tracy, Waubay, S.D.

B.S. '54, M.S. '56, Northern State College. Major: Physical Education. Minor: Anatomy. Thesis: Case Studies of the Effect of Systematic Training on Maximal Oxygen Consumption, Myocardial Function and Circulatory Function Running Performance Among Selected Distance Runners. Major Adviser: Prof. J. F. Alexander.

David Walter Twomey, St. Cloud

D.D.S. '63, M.S. '69, University of Minnesota. Major: Anatomy. Minor: Dentistry. Thesis: Alveolar Bone Remodeling and Maintenance in the Mandible. Major Adviser: Prof. R. E. Stallard.

Rimantas Leonardas Vaitkus, Minneapolis

B.S.E.E. '65, M.S.E.E. '67, Illinois Institute of Technology. Major: Electrical Engineering. Minor: Supporting Field. Thesis: Numerical Solution of an Idealized Two-Carrier Metal-Semiconductor Junction Diode. Major Adviser: Prof. Allen Nussbaum.

Roger Curtis Wagner, Aitkin

B.S. '65, Hamline University; M.S. '67, Ohio University. Major: Zoology. Minor: Biology. Thesis: The Formation and Saltatory Movement of Endocytosis Vacuoles in Chang Liver Cells. Major Adviser: Prof. M. D. Rosenberg.

Thomas Michael Walsh, Bloomington

B.S. '54, Marquette University; B.S. '64, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: The Relationship Between the Open-Closed Mindedness Systems Within Teachers and the Degree of Implementation of an Innovative Curriculum Program. Major Adviser: Prof. W. R. Cross.

William Charles Yoels, Flushing, N.Y.

B.A. '64, Queens College; M.A. '67, University of Minnesota. Major: Sociology. Minor: Supporting Field. Thesis: An Analysis of the Relationship Between Status Inconsistency and Neighborhood Integration. Major Adviser: Prof. G. P. Stone.

Jean Miller Zilisch, Menomonie, Wis.

B.S. '63, M.S. '66, Stout State University; M.S. '66, Wisconsin State College. Major: Educational Psychology. Minor: Sociology. Thesis: A Developmental Investigation of Classification Behavior of Normal and Retarded Children Under Work and Play Conditions. Major Adviser: Prof. J. E. Turnure.

Barbara Susan Zoloth, Atlanta, Ga.

B.A. '65, Brandeis University. Major: Economics. Minor: Supporting Field. Thesis: The Economic Effects of Racial Discrimination in Secondary Schools. Major Adviser: Prof. A. O. Krueger.

Master of Architecture

Lynden Kellner, Cape Town, South
Africa

B.Arch. '68, University of Cape Town. Field
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Prof. W. K. Vivrett.

Master of Arts.

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B.S. '47, College of St. Catherine. Field of Concentration: Educational Psychology. Major Adviser: Prof. E. R. Gallistel.

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Cheryl Joan Bjoin, Crookston

B.A. '69, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

Susanne Ellen Daley Bogdon, Cudahy, Wis.

B.S. '60, St. Norbert College. Field of Concentration: Library Science. Major Adviser: Prof. E. W. McDiarmid.

Don Raymond Borgeson, Minneapolis

B.S. '65, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. P. Pearson.

Doreen Brown, Los Angeles, Calif.

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B.S. '59, University of Illinois. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky.

Master of Fine Arts

Joel Thomas Boche, Cottage Grove

B.S. '66, Moorhead State College. Field of Concentration: Studio Arts. Major Adviser: Prof. D. F. Routon.

Charles Milton Brown, Sac City, Iowa

B.A. '66, University of Iowa. Field of Concentration: Studio Arts. Major Adviser: Prof. M. H. Myers.

Janet Kolenick Dyck, Saskatchewan, Canada

B.Ed. '64, University of Saskatchewan. Field of Concentration: Studio Arts. Major Adviser: Prof. H. T. Rowan.

Thomas Rigg Evans, Minneapolis

B.A. '67, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. Peter Busa.

Leslie Marie Falteisek, Minneapolis

B.A. '68, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. Katherine Nash.

Doyle Jay Gertjejansen, Fulda

B.S. '69, Mankato State College. Field of Concentration: Studio Arts. Major Adviser: Prof. Raymond Hendler.

Karen Marie Gjelsteen, Menominee, Mich.

B.A. *cum laude* '67, Gustavus Adolphus College. Field of Concentration: Theatre Arts. Major Adviser: Prof. Wendell Josal.

David Allen Swanson, Minneapolis

B.A. '62, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. D. F. Routon.

Master of Science

Naranjan Dass Aggarwal, India

B.S. '62, Mahendra College; M.S. '64, Kurukshetra University. Major: Organic Chemistry. Minor: Biochemistry. Thesis: The Biosynthesis of Gramine. Major Adviser: Prof. Edward Leete.

Ralph Jay Anderson, Minneapolis

B.S. '62, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffmann.

Bruce Richard Behrends, Hastings
B.S. '69, University of Minnesota. Field of Concentration: Nutrition. Major Adviser: Prof. J. W. Nordstrom.

Ravindra Kumar Bhargava,
Delhi, India

B.S. '69, Banaras Hindu University. Major: Metallurgy and Materials Science. Minor: Mathematics. Thesis: Self Diffusion of Carbon in Niobium Single Crystals. Major Adviser: Prof. R. A. Swalin.

George Brinton Burnett III, Minneapolis

B.A. *cum laude* '64, Amherst College. Major: Physics. Minor: Mathematics. Thesis: The Surface Temperatures of Solar System Objects by Thermal Emission: A Homogeneous Model Solution. Major Adviser: Prof. E. P. Ney.

Eunice Ping-Kit Cheung, Hong Kong
Dip. '68, Hong Kong Baptist College. Field of Concentration: Business Administration. Major Adviser: Prof. J. M. Smith, Jr.

Gary Warren Crawford, St. Paul

B.S. with distinction '65, University of Minnesota. Major: Fisheries. Minor: Entomology. Thesis: The Production of a Mayfly Ephemera Subvaria (McDonnough) in Luxemburg Creek, Minnesota. Major Adviser: Prof. T. F. Waters.

Joan Elizabeth Downham, Minneapolis

B.S. '64, College of St. Catherine. Field of Concentration: Home Economics. Major Adviser: Prof. L. M. Morse.

Barbara Lynn Edgar, Tower

B.S. *magna cum laude* '65, University of Minnesota, Duluth. Field of Concentration: Inorganic Chemistry. Major Adviser: Prof. D. J. Britton.

John Walter Enz, De Pere, Wis.

B.S. '68, Wisconsin State University. Major: Soil Science. Minor: Mathematics. Thesis: The Influence of Climatic Factors Upon the Growth Characteristics of Soybeans. Major Adviser: Prof. D. G. Baker.

Daniel Harold Fitzgerald, International Falls

B.A. *cum laude* '65, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Elastic and Inelastic Scattering of Alphas from N^{14} . Major Adviser: Prof. R. K. Hobbie.

Alvin Harold Funk, Brandon, Manitoba, Canada

B.S. '62, B.Ed. '67, University of Manitoba. Major: Organic Chemistry. Minor: Related Fields. Thesis: Stereochemistry of Mercury Carboxylate Additions. Major Adviser: Prof. R. M. Carlson.

Robert Manley Hanson, Richfield

B.S. '68, Iowa State University. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Marjorie Bangs Harris, Chisholm

B.A. *cum laude* '67, University of Minnesota, Duluth. Major: Inorganic Chemistry. Minor: Organic Chemistry. Thesis: Complexes of the Rare Earths With the Cyanate Ion. Major Adviser: Prof. L. C. Thompson.

Bonnie Louise Hill, North St. Paul

B.S. with distinction '68, University of Minnesota. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Fred Durbin Hoefler, Omaha, Neb.

B.S. '70, University of Minnesota. Field of Concentration: Animal Science. Major Adviser: Prof. R. D. Goodrich.

Michael Huthwaite, Stoke-on-Trent, England

B.T. '67, Loughborough University. Field of Concentration: Business Administration. Major Adviser: Prof. G. B. Davis.

Robert Gottlieb Koehler, Worthington

B.S. '60, University of Minnesota. Field of Concentration: Animal Science. Major Adviser: Prof. R. D. Goodrich.

Kiran Shah Kothari, Bombay, India

B.S. '67, University of Baroda. Major: Home Economics. Minor: Anthropology. Thesis: Space Accommodations Made by the Home-makers in Carrying Out Their Activities in the Multiple Dwelling Units in the Suburban Bombay. Major Adviser: Prof. G. A. Esteros.

Ronald Matthew Krell, Lennox, S.D.

B.S. with distinction '64, U.S. Naval Academy. Field of Concentration: Physics. Major Adviser: Prof. Erwin Marquit.

Steven William Laible, Slayton

B.A. '67, Macalester College. Field of Concentration: Business Administration. Major Adviser: Prof. J. M. Smith.

John Jeffrey Landgren, St. Paul

B.S. with high distinction '69, University of Minnesota. Major: Mathematics. Minor: Computer, Information, and Control Sciences. Thesis: Spectral Concentration for the Hydrogen Schrodinger Operator. Major Adviser: Prof. S. B. Agard.

Rudolph Frank Lauermann, St. Cloud

B.S.B. with distinction '70, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. P. F. Jessup.

Fu Shing Li, Chiayi, Taiwan

B.S. '65, National Taiwan Normal University; M.S. '68, National Central University. Major: Geophysics. Minor: Related Fields. Thesis: Interpretation of a Gravity Profile Across the Midcontinent Gravity High at Latitude 45° 30'. Major Adviser: Prof. H. M. Mooney.

Mamoru Maekawa, Tokyo, Japan

B.E. '65, Kyoto University. Major: Computer, Information, and Control Sciences. Minor: Electrical Engineering. Thesis: SWL: A System Writing Language. Major Adviser: Prof. W. R. Franta.

Elizabeth Barriano Marston, Minneapolis

B.S. '68, University of Minnesota. Field of Concentration: Home Economics. Major Adviser: Prof. Joan Gordon.

Sister David McMahon, Springfield, Ill.

B.S. '55, St. Louis College of Pharmacy. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

K. P. S. Menon, Lekkidi, India

B.S.C. '64, University of Delhi; M.S. '69, University of Minnesota. Major: Computer, Information, and Control Sciences. Minor: Physics. Thesis: Computer Output in Indian Languages. Major Adviser: Prof. W. D. Munro.

Paul Joseph Meyers, Adams

B.S. '70, University of Minnesota. Field of Concentration: Agricultural Economics. Major Adviser: Prof. T. R. Nodland.

Ward Elliot Nefstead, Hendricks

B.S. with distinction '68, University of Minnesota. Field of Concentration: Agricultural Economics. Major Adviser: Prof. Uel Blank.

Michael Thomas Nilan, Austin

B.A. '70, University of Minnesota. Field of Concentration: Public Health. Major Adviser: Prof. H. J. Paulus.

Shyh-Jane Nancy Pang, Taipei, Taiwan

B.S. '69, National Taiwan University. Major: Plant Breeding. Minor: Plant Pathology. Thesis: The Inheritance of Resistance to Phytophthora Root Rot in Alfalfa. Major Adviser: Prof. D. K. Barnes.

Gene Howard Peterson, St. Paul

B.A. '66, Bethel College. Field of Concentration: Mathematics. Major Adviser: Prof. R. H. Cameron.

David Charles Schafer, St. Paul

B.M. with distinction '68, University of Minnesota. Field of Concentration: Computer, Information, and Control Sciences. Major Adviser: Prof. W. D. Munro.

Allen Van Seilheimer, New Auburn, Wis.

B.S. '68, Wisconsin State University. Field of Concentration: Botany. Major Adviser: Prof. E. C. Abbe.

Janneche Utne Skare, Bergen, Norway

B.S. '70, South Dakota School of Mines and Technology. Field of Concentration: Organic Chemistry. Major Adviser: Prof. W. E. Parham.

John P. Nicholas Strandberg, Minneapolis

B.A. '63, College of St. Thomas. Field of Concentration: Business Administration. Major Adviser: Prof. R. J. Holloway.

Thomas Paul Sturm, St. Paul

B.A. magna cum laude '68, College of St. Thomas. Field of Concentration: Computer, Information, and Control Sciences. Major Adviser: Prof. W. D. Munro.

Lonnie Merlin Sutton, Beaver Dam, Wis.

B.S. '68, Wisconsin State University. Major: Plant Breeding. Minor: Plant Pathology. Thesis: The Effect of Nitrogen and Plant Population on Stalk Rot in Corn. Major Adviser: Prof. R. E. Stucker.

Allan Judson Taylor, St. Paul

B.A. '65, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. L. Chervany.

Raymond Walter Thron, West St. Paul

B.C.E. '66, University of Minnesota. Field of Concentration: Environmental Health. Major Adviser: Prof. C. P. Straub.

Daniel Leigh Torgersen, White Bear Lake

B.A. *cum laude* '70, St. Olaf College. Field of Concentration: Organic Chemistry. Major Adviser: Prof. W. E. Parham.

John Arthur Twomey, Minneapolis

B.A. '68, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Early Viral RNA Synthesis in Mengovirus Infected Novikoff Rat Hepatoma Cells. Major Adviser: Prof. Peter Plagemann.

Isabel Drane Wolf, New Hope

B.S. '55, Simmons College. Field of Concentration: Home Economics. Major Adviser: Prof. Joan Gordon.

Miew-Cheng Wong, Singapore

B.S. '68, Nanyang University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Conformational Analysis of Cyclohexene. Major Adviser: Prof. E. W. Garbisch.

Mu-Niau Lin Wu, Tainan, Taiwan

B.S. '69, National Taiwan University. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

Kenneth Nelson Yoder, Fairview, Mich.

B.S. '69, Michigan State University. Major: Agronomy. Minor: Soil Science. Thesis: Use of SD-15418 as a Short Residual Quackgrass Control Herbicide. Major Adviser: Prof. Richard Behrens.

Shu-Cheng Yu, Kuansi, Taiwan

B.S. '66, National Taiwan University. Major: Geology. Minor: Related Fields. Thesis: Crystallographic Study on Two Synthetic Arsenic-Sulfide Crystals. Major Adviser: Prof. T. Z. Zoltai.

Robert Allen Zink, St. Louis, Mo.

B.S. '66, St. Louis University. Major: Animal Science. Minor: Biochemistry. Thesis: Studies on Broodiness in Turkeys. Major Adviser: Prof. R. E. Phillips.

Master of Science in Aerospace Engineering

Abdl Hadi Mousselli, Aleppo, Syria

B.A.E. with distinction '70, University of Minnesota. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. Robert Plunkett.

Master of Science in Agricultural Engineering

Richard Edward Vande Vorde, Stanley, Iowa

B.S. '69, Iowa State University. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Applying Moisture to Reduce Soybean Harvest Shatter Losses. Major Adviser: Prof. C. E. Schertz.

William Arnold Wood, Thief River Falls

B.S. '62, University of California. Major: Agricultural Engineering. Minor: Industrial Engineering. Thesis: Forces to Cause Soybean Seed Loss. Major Adviser: Prof. C. E. Schertz.

Master of Science in Civil Engineering

Suradej Chuntranuluck, Bangkok, Thailand

B.E. '69, Chulalongkorn University. Major: Civil Engineering. Minor: Mathematics. Thesis: Soil-Structure Interaction in Layered Media. Major Adviser: Prof. P. P. Christiano.

Steven Paul Larson, Pelican Rapids

B.C.E. with high distinction '69, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. C. E. Bowers.

Master of Science in Dentistry

Gene Robert Huebner, Rochester
D.D.S. '65, University of Nebraska. Major:
Dentistry. Minor: Pathology. Thesis: A Study
of Parotid and Submandibular Gland Histo-
pathology and Sialography. Major Adviser:
Prof. J. A. Gibilisco.

Phillip Joseph Sheridan, Rochester
D.D.S. '64, University of Detroit. Major: Den-
tistry. Minor: Related Fields. Thesis: DNA
Inhibitor Sensitivity in Various Herpes Sim-
plex Virus Types. Major Adviser: Prof. J. A.
Gibilisco.

Samuel Bowen Mayfield, Jackson,
Miss.

D.D.S. '65, University of Tennessee. Major:
Dentistry. Minor: Anatomy. Thesis: The Ef-
fects of the Muscular Anchorage Appliance
Lipbumper on the Mandibular First Molars
and Incisors. Major Adviser: Prof. J. A.
Gibilisco.

Master of Science in Dermatology

Peter Simon Herman, Melbourne,
Victoria, Australia

M.B.B.S. '62, Melbourne University. Major:
Dermatology. Minor: Related Fields. Thesis:
Mechanisms Underlying Contact Photosensi-
tivity to the Halogenated Salicylanilides. Major
Adviser: Prof. W. M. Sams, Jr.

Master of Science in Electrical Engineering

Donald James Kostuch, Rochester
B.E.E. '63, University of Minnesota. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. J. E. Holte.

Dale Hanford Manley, Cloquet
B.E.E. '68, University of Minnesota. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. F. M. Waltz.

Master of Science in Mechanical Engineering

Kazuhiko Kihara, Kanakura, Japan
B.S.M.E. '67, Kanagawa University. Major:
Mechanical Engineering. Minor: Chemical En-
gineering. Thesis: Blood Flow Studies by 3-D
Microscope. Major Adviser: Prof. P. L. Black-
shear.

Ramakrishna Reddy Pulimamidi,
Hyderabad, India
B.E. '69, Sri Venkateswara University. Field of
Concentration: Mechanical Engineering. Major
Adviser: Prof. K. T. Whitby.

Master of Science in Medicine

Mahfouz A. El Shahawy, Cairo, Egypt
M.D. '63, Vienna Medical School. Major:
Medicine. Minor: Physiology. Thesis: The
Role of Magnesium in Thyrocardiac Dis-
order. Major Adviser: Prof. R. E. Smith.

Richard Bruce Tompkins, Rochester
M.D. '62, Temple University. Major: Medi-
cine. Minor: Biochemistry. Thesis: Studies on
Uric Acid Metabolism in Dalmatian Dog Liver.
Major Adviser: Prof. L. E. Ward.

Master of Science in Metallurgical Engineering

Adolf Herng-Der Chiou, I-Lan,
Taiwan

B.E. '67, Tatung Institute of Technology.
Field of Concentration: Metallurgical Engineering. Major Adviser: Prof. D. F. Stein.

Master of Science in Mineral Resource Engineering

Gerard John Kulbieda, Minneapolis

B.M.E. '70, University of Minnesota. Field of Concentration: Mineral Resources Engineering. Major Adviser: Prof. E. P. Pfeleider.

Master of Science in Neurosurgery

John Cleary, Minneapolis

B.Ch., M.B. '59, University College, Cork, Ireland. Major: Neurosurgery. Minor: Related Fields. Thesis: Descending Connections to Lateral Cuneate Nucleus: An Experimental Study in Cat and Monkey. Major Adviser: Prof. F. W. Kerr.

Shigeaki Kobayashi, Matsumo, Japan

M.D. '63, Shinshu University. Major: Neurosurgery. Minor: Related Fields. Thesis: Effect of Cervical Sympathetic Stimulation on Cortical Blood Flow. Major Adviser: Prof. A. G. Waltz.

Master of Science in Orthopedic Surgery

Charles Alfred Peterson, Hamilton,
Mont.

M.D. '67, Cornell University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Prosthetic Devices for Partial Replacement of Damaged Small Joints: An Experiment in Dogs. Major Adviser: Prof. M. B. Coventry.

Master of Science in Otolaryngology

Gary L. Townsend, Indianapolis, Ind.

M.D. '66, Yale University. Major: Otolaryngology. Minor: Anatomy. Thesis: Study of Auditory Evoked Responses in Normal Subjects and Subjects with Audio-Vestibular Disorders. Major Adviser: Prof. D. T. Cody.

Master of Science in Psychiatry

Bjørn Ove Gunby, Oslo, Norway

M.D. '56, University of Oslo. Major: Psychiatry. Minor: Related Fields. Thesis: The Application of a Behavioral Rating Scale (M.A.C.C.) for the Assessment of Clinical Change in Hospitalized Psychiatric Patients. Major Adviser: Prof. D. T. Lykken.

Master of Science in Surgery

John Nigel Burgess, London, England
M.B.B.S. '58, London Hospital Medical College. Major: Surgery. Minor: Pathology. Thesis: Denervation of the Cat Esophagus. Major Adviser: Prof. W. S. Payne.

Gustavo G. R. Kuster Z., Concepción, Chile

M.D. '59, University of Concepción. Major: Surgery. Minor: Pathology. Thesis: Effect of Allogeneic Hepatic Transplantation Between Dalmatian and Mongrel Dogs on Urinary Excretion of Uric Acid. Major Adviser: Prof. R. G. Shorter.

Specialist Certificate in Education

Robert Harlan Anderson, Aberdeen, Wash.

B.S. '59, St. Cloud State College; M.A. '63, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. W. R. Cross.

Harold Paul Baughman, St. Paul

B.S. '59, M.A. '63, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. W. R. Cross.

Kathryn Grace Carroll, Minneapolis

B.S. '68, Iowa State University; M.A. '70, University of Minnesota. Field: School Psychological Services. Major Adviser: Prof. M. D. Hall.

Peter Nels Hegrenes, Jr., Minnetonka

B.A. '62, St. Olaf College; M.A. '67, Bowling Green State University. Field: General Curriculum Supervision. Major Adviser: Prof. R. L. Hill.

Harland Ernest Johnson, Cambridge

B.S. '50, M.A. '59, University of Minnesota, Duluth. Field: Elementary School Administration. Major Adviser: Prof. W. R. Cross.

COLLEGE OF AGRICULTURE

Bachelor of Science

Robert Alan Pickett, Preston
Duane Joseph Reinhardt, A.A., St. Paul

Charles Arnold Rucks, B.A., St. Peter,
WITH DISTINCTION
William David Wiste, Minneapolis

COLLEGE OF AGRICULTURE AND SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Douglas Edward Pagel, Atwater,
WITH HIGH DISTINCTION

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Roger Myron Carpenter, Minneapolis
Craig Richard Ilk, Blooming Prairie
Dagmar Linnea Johnson, Minneapolis,
MAGNA CUM LAUDE, Biology

Judy Ching-Yuen Kao, Hong Kong,
SUMMA CUM LAUDE, Biochemistry
Bruce Edward Kari, Golden Valley
Paul William Rice, Richfield
Nanette Marie Rogier, Minneapolis

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Dale Joseph Abbe, Minneapolis, WITH
DISTINCTION

Ronald Dennis Beito, Bloomington
Alan Richard Bongaarts, Minneapolis
Claude Robert Bragstad, St. Paul
Gerald Stanley Bucksa, St. Paul
Thomas George Cedergren, Minne-
apolis

James C. Fagrelus, Minneapolis
Richard Mark Fischer, Minneapolis
Eric John Fredrickson, Robbinsdale
William Kenneth Fruen, Minneapolis
Joseph Richard George, Minneapolis
Bruce Floyd Gerdin, Minneapolis
Frank Robert Groseth, Richfield
James W. Heuer, Crystal
John Ward Honmyhr, Minneapolis
Harold Horrigan, Ogilvie
George Gregory Jenks, Minneapolis
Craig Daniel Kile, Fridley
John Richard Kotski, Minneapolis,
WITH HIGH DISTINCTION
James Alan Kottmeier, Minneapolis

Michael Robert Lurie, Minneapolis
Robert Roth Luttio, Minneapolis
Barry Michael McGriff, LaJolla, Calif.
Richard Henry Menk, St. Paul
Steven LeRoy Miller, Ellendale
Richard Joseph Nordby, St. Paul
Joanne Toberg Peterson, Minneapolis
Jeffrey Scott Picard, Stillwater
Stephen Joel Richter, St. Louis Park
Wayne Alan Roswick, New Brighton
Kim Enock Schonteich, Enderlin,
N.D.

Charles Alan Shuster, St. Paul
Roland David Sidla, Hopkins
Merle Allen Steinhorst, St. Paul
Mark Charles Stephan, St. Mary's
Point
John Joseph Stephens, Minneapolis
Karen Ann Wager, Fairfax
Jerry Walter Wheeler, Minneapolis
Arvid Jay White, Morristown
John David Wight, West St. Paul
Richard Leonard Zabel, Plainview

COLLEGE OF EDUCATION

Bachelor of Science

Philip John Aasen, Columbia Heights
Ross Lawrence Alford, Minneapolis
Steven Fredrick Apfelbacher, South
St. Paul
Carol Lorraine Berg, Minneapolis,
WITH HIGH DISTINCTION
Mary Judith Brinda, Richfield

Sharon Lee Brothers, Minneapolis,
WITH DISTINCTION
Jewel Louise Carlson, Edina, WITH
HIGH DISTINCTION
James Michael Chapman, Mound
Dolores Genevieve Cleveland, Byron,
WITH DISTINCTION

Sandra Lea Corless, Greensburg, Kan.
 Betty Joanne Coyle, Minneapolis
 Joan Edna Creighton, Richfield
 Susan Elizabeth Crivits, Minneapolis
 Thomas Quinn Dapper, Minneapolis
 Roger Frank Darsow, South St. Paul
 Earl Richard DeLaMater,
 Bloomington
 Margaret Kay Draxten, Minneapolis
 Wendy Elizabeth Dreis, Minneapolis
 Elena Marie Dress, Richfield
 John Leeds Finch, St. Louis Park
 Gretchen Helen Flach, Minnetonka
 Maryanne London Gears, St. Louis
 Park
 Thomas Eugene Gill, Mound, WITH
 HIGH DISTINCTION
 Michele Johnson Glaser, Minneapolis,
 WITH DISTINCTION
 Louise Diane Hanson, Sleepy Eye
 Susan Carolyn Hawkins, Cloquet,
 WITH DISTINCTION
 Mary Pauline Johnson, Brooklyn Park,
 WITH DISTINCTION
 Thomas Loren Johnson, Minneapolis
 Betty Bjorkman Jones, Minneapolis
 Lois Ann Kamerud, West St. Paul,
 WITH DISTINCTION
 Carol June Klepper, South St. Paul
 Paul Douglas Klinefelter, A.A., Min-
 neapolis, WITH DISTINCTION
 Joan Stinson Krueger, B.A., Edina
 Kari Kay Kruempel, Chatfield, WITH
 HIGH DISTINCTION
 Clayton Roger Larson, Hawick, WITH
 DISTINCTION
 Douglas John Lier, Circle Pines
 Marilyn Bush Lipschultz, Minneapolis
 Donna Lee Louden, Hines, WITH
 DISTINCTION
 Elizabeth Weyhrauch Malmanger,
 Minneapolis
 Kristin Andrine Martinsen, Golden
 Valley
 Linda Ellen Mathisen, Roseville
 Mary Elizabeth Miller, Bogotá, Co-
 lombia, WITH DISTINCTION
 Albert Nuness, A.A., Minneapolis
 Catherine Ann O'Brien, Minneapolis

David Gregory Olson, Minneapolis,
 WITH DISTINCTION
 Karen Ann Oxman, St. Louis Park
 Linda Diane Past, B.A., Minneapolis
 Linda Jane Peach, Minneapolis, WITH
 DISTINCTION, Elementary Education
 Sandra Ann Olson Peck, Minneapolis
 Louise Ann Penn, Minneapolis
 Rebecca Jean Perkins, Hopkins
 Lila Lee Person, St. Paul, WITH
 DISTINCTION
 Shirley Jean Pishney, Maple Plain,
 WITH DISTINCTION
 Pamela Ann Powers, Minneapolis
 Darlene Louise Prochaska, Minne-
 apolis, WITH HIGH DISTINCTION
 Holly Anne Reistad, Minneapolis,
 WITH DISTINCTION
 Marit Margaret Roisum, Sunburg,
 WITH HIGH DISTINCTION
 Joseph Howard Rosenfield, Villard
 Hava Schwartz, St. Paul, WITH DIS-
 TINATION
 Lawrence Laverne Skoglund, Minne-
 apolis
 Catherine Agnes Skoy, Minneapolis
 Warren Wayne Slocum, White Bear
 Lake
 Francis Joseph Sweeney, Bronx, N.Y.,
 WITH HIGH DISTINCTION
 Emma A. Michelotti Taddei, B.A.,
 magna cum laude, M.A., Minne-
 apolis
 Janis Ann Theobald, Rochester, WITH
 DISTINCTION
 Linda Adam Thomas, Minneapolis,
 WITH DISTINCTION
 Cynthia Dee Thompson, Storden,
 WITH HIGH DISTINCTION
 Cynthia JoAnne Thompson, Fosston,
 WITH DISTINCTION
 Nancy Jane Tome, St. Paul
 Barbara Ruth Walker, St. Paul
 Harold James Wiegner, B.A., Men-
 dota Heights
 Jane Higgins Willard, B.A., Bloom-
 ington
 Florence Marable Witkop, A.A.,
 Forest Lake, WITH DISTINCTION
 Marlys Ann Wurscher, St. Paul

Master of Education

- Rose Asao, B.A., Mound
George Frederic Canney, B.A., M.A.,
St. Paul
Merlen Olson Clercx, B.S., St. Paul
Lowell Allen Dauenaugh, B.A., Bettendorf, Iowa
John Anthony Doruff, B.A., St. Paul
Roy Douglas Fielder, B.A., Minneapolis
David Emerson Fisher, Naugatuck, Conn.
Gary David Fortier, B.S., St. Paul
Dianne Corinne Gibson, B.S., Grand Rapids
Timothy William Hahn, B.A., Lindsay, Kan.
Martha Jill Heerens, B.A., Rockford, Ill.
John Richard Jose, B.S., Butte, Mont.
Ronald Maurice Kjelsberg, B.S., St. Paul
Jon Lowell Latcham, B.S., White Bear Lake
Mary Thora Moore, B.A., Minneapolis
- Jeffrey John Mork, B.A., Minneapolis
Louis Mark Oberdeck, B.S., Mound
John Timothy Olson, B.A., St. Paul
David Lee Poehler, B.S., Cottage Grove
John Marshall Raw, B.A., Faribault
Jerome Joseph Silbert, B.B.A., Minneapolis
Lucille Ernestine Sime, B.S., Wayzata
Mary Agnes Smith, B.A., Minneapolis
Roger Lee Solheim, B.S., Rochester
Joseph Carl Sorrentino, B.A., Brooklyn, N.Y.
Peter Joel Thompson, B.A., Flint, Mich.
Daniel Earl Turner, B.A., Fryeburg, Me.
Glenn Alvin Verhulst, Minneapolis
Elizabeth Anna Whiteman, B.A., Lodge Grass, Mont.
David Bruce Windahl, B.A., Green Bay, Wis.
Harold Franklin Yoesel, B.A., Rulo, Neb.

GENERAL COLLEGE

Associate in Arts

- Karen Jane Ammerman, Stillwater
Gayle Linda Berguson, Edina
Robert L. Bina, Owatonna
Terry Erwin Boche, St. Paul
Anna Bernice Clark, Minneapolis
Mitchell Todd Fink, St. Paul
Daniel Stephen Glynn, Minneapolis
Robert Edgar Goemer, St. Louis Park
James Cary Hamm, Little Falls
- Daniel Hammer, San Francisco, Calif.
Roland Arthur Hazelton, Minneapolis
Dennis Gene Holland, Minneapolis
Larry Sanford Isdahl, Minneapolis
Deborah Jean Johnson, Hastings
Janis Lee Rosendale, Minneapolis
Ernest Lee Savage, Minneapolis
James John Snyder, St. Paul

COLLEGE OF HOME ECONOMICS

Bachelor of Science

- Jean Marie Abrahamson, St. Paul
Susan Jane Andersen, A.A., Minneapolis
Rosemary Dziedzic, Minneapolis
- Cheryl Lynne Isakson, LeSueur
Martha Jane Linderberg, Minneapolis
Patricia Cecelia Raveling, Minneapolis

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Bachelor of Science

Sharon Ann Engels, Tracy, WITH
DISTINCTION

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Barbara Irene Lucast, Fridley

Bachelor of Arts

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

John Allyn Ahlers, Stewart
Dorothy May Anderson, Minneapolis,
CUM LAUDE, Mathematics
Joan Elvira Anderson, A.A., Gig
Harbor, Wash.
Mark Stanley Anderson, Golden
Valley
Robert Donald Anderson, Minne-
apolis
Mohammad Yahya Anwar, Kabul,
Afghanistan
Nancy Anne Batchelder, Peru, Ill.
Thomas Edwin Bauer, A.A., Minne-
apolis
Marvon Warran Bay, Minneapolis
David LeRoy Beck, Minneapolis
Coleen Margaret Behm, Morris
Marcia Lynn Stowell Beland, Bloom-
ington
Richard Michael Bell, St. Louis Park
Dennis Victor Belt, Minneapolis
Douglas Ralph Berdie, Minneapolis,
SUMMA CUM LAUDE, Sociology, and
MAGNA CUM LAUDE, Philosophy
George Douglas Bergman, Minne-
apolis
Peter Edwin Berzins, B.S., Minne-
tonka
George William Blissenbach, St. Paul
Gail Barbara Bronner, Minneapolis

Karen Lee Bell Brugger, Austin
David Scott Burke, West St. Paul
William Butzler, Minneapolis
Jane Louise Caldwell, Minneapolis
Joanne Margaret Calton, St. Paul
Christopher George Cardozo, Dell-
wood, SUMMA CUM LAUDE, Philoso-
phy
Susan Gale Christensen, New
Brighton
David Lawrence Christian, Rochester
Pamela Jean Code, St. Paul
Joyce Carole Coffin, Minneapolis
Rotraut Luise Johanna Holst Conrad,
A.A., Minneapolis
Mary Jane Conry, Edina
Carolyn Lee Cook, West Plains, Mo.
James David Cool, Marshall
Bradley Lewis Cowle, St. Louis Park
Rose Marie R. Crannell, Minneapolis
Gary Lee Davis, Rochester
Susan Carol Davis, Minneapolis
Susan Kay Dingle, Minneapolis
Katherine Dianne Dodds, Detroit
Lakes
Paul Raymond Dolan, A.A., St. Paul
Albrecht Tasso Dumke, St. Paul,
MAGNA CUM LAUDE, English
Kenneth Dean Ekelund, St. Paul
Michele Ann Empey, St. Paul

Arlene Kay Erlandson, Minneapolis
Jo Ann Carol Maloney Fairbairn, St. Paul

Edward Abondius Fisher, St. Paul
Lois Marie Francis, Minneapolis
John Thomas Freeman, Grand Rapids
Judith Ellen Fruetel, Bemidji
Joanne Jagiela Furlong, Minneapolis
Irene Cecilia Furman, Santiago, Chile
David Warren Gelvick, Minneapolis
Thomas Eugene Gill, Minneapolis,
SUMMA CUM LAUDE, Psychology

Nora Jean Gille, Janesville
Lawrence Alan Ginsburg, Sioux City,
Iowa

Cheryl Louise Cohr, Bloomington
Steven Marvin Goldfarb, St. Paul,
CUM LAUDE, Mathematics
Steven Betten Goldfine, Duluth
Steven Hanford Goodrich, Mequon,
Wis.

Carole Ann Greenwald, Minneapolis
Jon A. Greer, Minneapolis, CUM
LAUDE, Journalism

Kathrin Louise Gruber, Minneapolis
Steven Douglas Hall, Minneapolis
Judith Mary Hanson, Hastings
Donna Rae Harkins, Minneapolis,
MAGNA CUM LAUDE, Speech and
Theatre

Joan Kay Harshbarger, Bloomington
Roxanne Elizabeth Hartung, Deer
Creek

Dan Philip Hasty, Minneapolis
Elizabeth Nye Heffelfinger, A.A.,
Wayzata

James Marvin Heinz, Richfield
Georgia Beret Heller, Mound
Wayne Jerome Hemming, St. Paul
Patricia Colleen Herrmann, Minne-
tonka, CUM LAUDE, English
Deborah Sadie Hertz, St. Paul
Jeffrey Mitchell Herzberg, St. Paul
Thomas Allen Hetland, Minneapolis
Sharon Kathleen Hicks, South St.
Paul

Mark Kendall Holman, A.A., Minne-
apolis

Christine Alma Hope, St. Paul, MAGNA
CUM LAUDE, Social Welfare
Nancy Drussell Hopf, Winona

John George Hord, Minneapolis
Susan Elizabeth Houlton, Minnetonka

Gary Joseph Hudak, Minneapolis
Leo Henry Jansen, St. Paul
Anne Louise Johnson, Minneapolis
Carol Ann Johnson, Minneapolis
Mary Louise Johnson, St. Paul
Roger Evan Johnson, Minneapolis
Daniel Alden Jorvig, New Hope
Harvey Ivan Kaplan, St. Paul
Dorit Kaufmann, Minneapolis
Mary Ellen Kendall, Hopkins
Cornell Thomas Kissell, A.A., Edina
Duane Bernard Klassen, B.A., Spring
Hill

Galen Craig Knutson, Minneapolis
Marcia Lynn Knutson, Minneapolis
Douglas Norman Kranz, Richfield
Kathleen Anne Kretzmann, A.A.,
Minneapolis
Robert Fredrick Krueger, Richfield
Randy Arlene Krunkkala, A.A., Ely
Lucia Buckstaff Lahiff, Minneapolis
Reid Stoyke Lamphere, New Hope
Lorraine M. Larson, A.A.,
Breckenridge

Douglas Michael Lasken, Tarzana,
Calif.

Mark Jeffrey Lasoff, St. Paul
Karon Barbara Laurie, St. Paul
Linda JoAnne Lawler, Albert Lea
Rand Richard Ledermann, Silver
Spring, Md.

Linda Joan Leekley, Wayzata
John Randolph Leitner, Minneapolis
Mary Dee Leonhardi, Bloomington
Martha Hunt Leren, Minneapolis
Matthew Lyon Levitt, St. Louis Park
Linda Kay Livingston, St. Paul
Kimberle Rae Loken, St. Paul, SUMMA
CUM LAUDE, Biometry

Cheri Lee London, Minneapolis
Alan Hall Long, B.A., Ely
Mary Catherine Long, Minneapolis
Jean Marie Mace, Minneapolis
Arthur John Madden, Minneapolis,
SUMMA CUM LAUDE, History
Sara Mandelbaum, St. Paul, SUMMA
CUM LAUDE, History and German
James Westly Marshall, A.A., Minne-
apolis

Peter MacNamee Martin, Minneapolis
 Mark Albert Mattaini, St. Paul
 Robert Leonard Mattson, Minneapolis
 Kathleen Ann Matusko, Minneapolis,
 SUMMA CUM LAUDE, Psychology
 Peter Edwin Maurstad, International
 Falls
 Gail Marie Mayfield, Minneapolis
 Wendy Jane Meneely, Minnetonka,
 SUMMA CUM LAUDE, Political
 Science
 Barbra Ellen Mielke, Duluth
 Kitty Miller, Fergus Falls, SUMMA
 CUM LAUDE, Psychology
 Mary Elizabeth Miller, Bogotá,
 Colombia
 Steven Allen Milston, Minneapolis
 Catherine Louise Mork, Anoka
 Lee Warren Mosher, Fergus Falls
 Jeanne Patricia Mullaney, St. Paul
 Gail Chiyomi Nakatani, Pepeekeo,
 Hawaii
 Joy Ann Nedoff, Minneapolis
 Anne Romanenko Nelson, Minne-
 apolis
 Sandra Kaye Nelson, Virginia Beach,
 Va.
 Tracey Ann Nelson, St. Paul
 Beth Caldwell Nerison, Montevideo
 Wayne Peter Nielsen, St. Paul
 Thomas Richard O'Connell, Hopkins,
 SUMMA CUM LAUDE, Sociology
 Michael John Ohr, St. Paul
 George Allen Oland, A.A., Minne-
 apolis
 Cynthia JoAnne Olson, Minneapolis
 Kathleen Ann Olson, Minneapolis
 Alan Livingston Osborne, Dover, N.J.
 Ann Victoria Palmer, St. Paul
 Carole Dianne Paulson, Rosholt, S.D.
 Christine Marie Peters, Minneapolis
 Rocille Ann Peterson, Lindstrom
 Steven Milo Peterson, St. Paul
 Bruce Edward Pierce, Arlington
 Steven Patrick Pivec, A.A., Minne-
 apolis
 David Fred Presher, Fridley
 James Wendell Price, Cloquet
 Stephen James Quayle, A.A., St. Paul
 Kathryn Rae Quiring, St. Paul
 Frank Campbell Rainey, Minneapolis
 Douglas Ellsworth Ray, Crystal
 Anne Marie Hestad Remien, Water-
 town, S.D.
 James Peter Rentas, Minneapolis
 Stephen Robertson Rhodes, Minne-
 apolis
 Theodora Louise Rogers, Excelsior
 Mark L. Rosen, St. Louis Park
 Rodney Stephan Ruther, Golden
 Valley
 Richard Arlen Ruud, Austin
 Mary Frances Ryan, St. Paul
 Joan Carol Rye, A.A., Pasadena, Calif.
 Jane Josephine St. Anthony, Minne-
 apolis
 Colleen Mae St. Cyr, Minneapolis
 Linnea Vernelle Sand, B.A., Minne-
 apolis
 Linda Suzanne Sartori, Chisholm
 Lloyd Harold Schallberg, Elk River
 Cynthia Sue Schaub, Minneapolis
 Earl Arnold Schleske, Minneapolis
 Lee Allan Schulz, Zumbrota
 Sharon C. Seivert, St. Cloud, SUMMA
 CUM LAUDE, Psychology and Music
 Judith Lang Shalaby, Minneapolis
 Louise Catherine Shaw, Moorhead
 Diane Estelle Shelgren, Jackson
 Gayle Ruth Shursen, St. Paul
 Jeffrey Mark Silesky, St. Louis Park
 Thomas Richard Skahen, Minneapolis
 Catherine Agnes Skoy, Minneapolis
 Michele Rae Skroch, Minneapolis
 John Gregory Smith, A.A., Minne-
 apolis
 Richard Barak Smith, Minneapolis
 Janice Marie Petersen Solovjovs, Min-
 netonka
 Nancy Lane Sorenson, Perley
 James M. Steiner, East Ellsworth,
 Wis.
 Dwight Rodney Stenbakken, New
 London
 Patrick Alan Stevens, Cloquet
 Sandra Rae Stone, Minneapolis,
 MAGNA CUM LAUDE, American
 Studies
 Thomas John Stransky, Minneapolis
 Lorraine Joan Subra, St. Paul
 Joseph Edward Supplee, Minneapolis

Bonnie Joy Taraldson, Rockford,
SUMMA CUM LAUDE, Psychology
Gary Emil Tayar, Minneapolis
Mary Elizabeth Tenner, Edina
Mildred Carlene Terwilliger, St. Paul
Michael Allan Tjepkes, Stewartville
Peter Nathan Trygstad, Minneapolis
Grace Ellen Tuma, New Prague
Thomas M. Ulrich, White Bear Lake
Sarah Anne Underhill, St. Paul
Robert John Vanden Hoek, Luverne
James Stanley Walburg, Minneapolis
James Steven Ward, St. Paul

Catherine Mary Weimelt, Minne-
apolis
Joseph William Weitzell, North St.
Paul, MAGNA CUM LAUDE, Anthro-
pology
Allan Frederick Wichelman, Minne-
apolis
John Willard Wicks, Minneapolis
Janet Kay Wiig, Hopkins
Umur Yildiz, Izmir, Turkey
Linda Ruth Zakariasen, Hopkins
Joanne Marie Zilliox, St. Paul
Carole Fromson Zimbrott, Minne-
apolis

Bachelor of Fine Arts

Vicki Lynn Fagre, B.A., CUM LAUDE, Lester Nelson Hoikka, Annandale
Studio Arts Douglas James Jurek, Anoka
Rick Hille, Hopkins Arnold Charles Krueger, Owatonna

MEDICAL SCHOOL MEDICAL TECHNOLOGY

Bachelor of Science

Victoria Chen, Greensburg, Pa.
Reggie Lynn Gausman, St. Paul
Carol Ann Hoffman, Minneapolis
Kathleen Mary Lang, Minneapolis
Eileen Marie Leipus, Minneapolis
Pamela Dibble Schmidt, Minneapolis
Jill Marie Schwarze, Glencoe, WITH
DISTINCTION
Marcia Beverly Stubbs, Long Lake
Sandra Ann Stubstad, Breckenridge
Sharon Ann Tweit, South St. Paul

MEDICINE

Doctor of Medicine

David Arnold Haberman, St. Paul William Fred Stanley, B.A., Minne-
apolis

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Marynell DeBoom, Hadley

SCHOOL OF PUBLIC HEALTH

Master of Public Health

John Adam Dallinger, B.S., Winnipeg,
Manitoba, Canada

Larry Mark Edmonson, B.A., Rich-
field

Lloyd Symons Higgs, Atco, N.J.

Barbara Ann Hill, B.A., Minneapolis

Larry L. Koenig, B.A., Winner, S.D.

Frank J. Madro, B.S., D.D.S.,
Chicago, Ill.

Kirby Mellinger, B.S., Burbank, Calif.

Joachim Ndonue Songwe, B.S., Cam-
eroon

John Archibald Campbell Wilson,
B.A., Halifax, Nova Scotia, Canada

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Joseph Francis Miller, New Richland

Stephen R. Parmenter, Austin

Bruce Richard White, Minneapolis

Bachelor of Agricultural Engineering

Paul Reuben Kroeger, Sleepy Eye

Merlin Nobel Nelson, Trimont

Bachelor of Architecture

Thomas Andrew Meyer, New Prague

Bachelor of Chemical Engineering

Larry Michael McGaughey, Minneapolis

Bachelor of Chemistry

Bruce David Hilton, Minneapolis, WITH DISTINCTION

Bachelor of Civil Engineering

Marvin George Bates, Shakopee

*Thomas Albert Roushar, Lonsdale,
WITH DISTINCTION*

Bachelor of Electrical Engineering

Stephen John Anderson, Minneapolis,
WITH HIGH DISTINCTION

Steven John Anderson, Edina, WITH
DISTINCTION

Jon Reed Fahlstrom, Minneapolis

Rolf Mitchell Hanson, Pigeon Falls,
Wis.

Michael Gerald Melcher, A.A.,
Worthington

Michael Thomas Schmit, Stillwater
Brian Michael Xavier, Albert Lea

Bachelor of Environmental Design

Allerton Paul Paulson, Jr., Anoka

Bachelor of Geo-Engineering

Ralph William Rabus, Wayzata

Bachelor of Mathematics

Charles Herbert Anderson,
Minneapolis

Kristina Lynne Deeds, Mound,
WITH DISTINCTION

Bachelor of Mechanical Engineering

Leslie LeRoy Anderson, Fergus Falls,
WITH DISTINCTION

Mark Edward Becker, Minneapolis

Lyle Arthur Bye, Minneapolis, WITH
DISTINCTION

Michael John Fraser, Crosslake

Robert Hibbard Garwood, Wayzata,
WITH DISTINCTION

Gregory Arnold Gryskiewicz, St. Paul,
WITH HIGH DISTINCTION

Craig Jon Halvorsen, Red Wing

David Stanley Klis, Minneapolis

Donald Paul Messer, Wadena

David Scott Peterson, Windom,
WITH DISTINCTION

William Charles Peterson, Blooming
Prairie, WITH DISTINCTION

Keith Alan Rensberger, Dawson, WITH
DISTINCTION

Allen Howard Richter, Dover

James Carl Rudd, Alexandria

Ralph Kirk Rustebakke, East Grand
Forks

Ronald G. Sampson, Grand Rapids,
WITH DISTINCTION

Robert Charles Uebelacker, Jr.,
Duluth

Roberto Hernan Muchnik Weinstein,
Santiago, Chile, WITH DISTINCTION

Bachelor of Mineral Engineering

Guillermo German Burbano, Quito, Ecuador

Bachelor of Physics

Mark Kamin, Minneapolis, WITH
DISTINCTION

Steven Alexander Sirr, Minneapolis,
WITH DISTINCTION

Certificate in Science

Robert Charles Hain, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Judith Ann Hurd, West St. Paul,
WITH DISTINCTION
Gwen Cavanaugh Oxberry,
Minneapolis

Thomas Donald Walstrom,
Minneapolis

Bachelor of Science

Douglas Eugene Hermanson, A.A.,
Minneapolis
Jerome A. Jensen, St. Louis Park
Gary Lee Kiecker, Minneapolis

Jacklyn Mae Mayberry, A.A., St. Paul
Jeffrey Clyde Molde, Minneapolis
Dennis Harold Rohde, Minneapolis
Lon Thomas Townsend, Mound

August Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Field Artillery

John L. Finch, Richfield

Douglas E. Frykholm, White Bear
Lake

Second Lieutenant, Infantry

Robert F. Krueger, Richfield



UNIVERSITY OF MINNESOTA

December Commencement, 1971

WEDNESDAY EVENING, DECEMBER 15, 7:30 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

The Honorable Elmer L. Andersen, St. Paul
Chairman

The Honorable Neil C. Sherburne, Lakeland Township
Vice Chairman

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

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

The Honorable Fred J. Hughes, St. Cloud

The Honorable Josie R. Johnson (Mrs. Charles W.), Bloomington

The Honorable Lester A. Malkerson, Minneapolis

The Honorable George W. Rauenhorst, Olivia

The Honorable Loanne R. Thrane (Mrs. Ralph), Chanhassen

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Dr. Rodney A. Briggs, Acting Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and twentieth birthday. As one of the great Land-Grant universities in the nation, the University of Minnesota is dedicated to training the young people of today to become the leaders of tomorrow. Each year our graduates leave our campuses to add new skills and knowledge to the existing resources of our state. They have been trained here as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, farmers, businessmen — to name only some of the careers for which preparation is offered. Since its founding, the University has awarded more than 232,000 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 51,000 students annually on its Twin Cities, Duluth, Morris, Crookston, Waseca, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the state by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the state in their own homes.

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

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

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

all over the state, thousands of friends have made generous donations to provide an endowed research professorship in heart disease. Generous contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall (which houses the biomedical library and additional medical research facilities).

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

As it meets the needs of present students, the University must also make plans for those of the future. The 51,000 students who enrolled at the University at the beginning of the 1971-1972 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1971 LEGISLATURE granted the University \$162,174,982 for general operations and maintenance during the 1971-1973 biennium. In addition, the University received \$9,343,500 for University Hospitals; \$29,408,892 for special appropriations, including special extension and research activities; \$40,632,960 for new buildings, land, and the rehabilitation of existing buildings; \$1,844,000 for the Crookston Technical College; and \$1,400,000 for the Waseca Technical College.

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

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and participates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds.

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

The University of Minnesota is guided by the principle that there shall be no differences in the treatment of persons because of race, creed, color, sex, or national origin and that equal opportunity and access to facilities shall be available to all.

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Twin Cities Campus of the University this evening from 6:45 to 7:15 p.m., they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Miss Twyla M. Meyer, College of Liberal Arts, '72. Guests will be seated as they arrive and should remain seated until the National Anthem is sung.

PRELUDE CONCERT: From 7:00 to 7:30 p.m., Professor Heinrich R. Fleischer, Ph.D., College of Liberal Arts, University Organist, will play.

ON STAGE: Seated on stage are administrators, faculty, distinguished guests, and Regents of the University, who will be introduced.

PROCESSION (the audience is requested to remain seated so that all can see the procession): At 7:30 p.m. the Mace-Bearer, Associate Professor Roger A. Larson, Ph.D., General College, will carry the Mace into the Auditorium, heralding the arrival of the academic procession of candidates for degrees. The line of march for candidates is as follows:

College of Agriculture	College of Liberal Arts
College of Biological Sciences	Medical School
School of Business Administration	School of Nursing
College of Education	College of Pharmacy
College of Forestry	School of Public Health
General College	Institute of Technology
General Extension Division	University College
College of Home Economics	
Law School	

Graduate School

Ph.D. Degree Candidates

Master's Degree Candidates

During the procession, Professor Fleischer will play:

Trumpet Voluntary Purcell

Marshal Larson, as the 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.

THE NATIONAL ANTHEM: As Mr. Dwayne Jorgenson, B.S., Graduate School, steps to the microphone, the entire audience will stand and join him in singing the National Anthem:

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 busting in air,
Gave proof thro' the night that our flag was still there.
O, say, does that star-spangled banner yet wave
O'er the land of the free and the home of the brave?

INVOCATION (the audience still standing): Rabbi Louis Milgrom, Director of the B'nai B'rith Hillel Foundation and member of the Council of Religious Advisers.

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

COMMENCEMENT ADDRESS.

CONFERRING OF DEGREES: President Moos will confer certificates and degrees, including the University of Minnesota degree of Doctor of Science, *honoris causa*.

CONFERRING OF HONORARY DEGREE: Vice President William G. Shepherd, Ph.D., Academic Administration, will present John H. Van Vleck, Hollis Professor of Mathematics and Natural Philosophy Emeritus, Harvard University, to President Moos for the University's honorary degree, Doctor of Science.

JOHN HASBROUCK VAN VLECK

NATIVE of Connecticut; graduate of the University of Wisconsin with the degree of Bachelor of Arts, and of Harvard University with the degrees Master of Arts and Doctor of Philosophy; Professor of Physics at the Universities of Minnesota and Wisconsin; Professor of Physics and Dean of Engineering and Applied Physics at Harvard; Hollis Professor of Mathematics and Natural Philosophy, the oldest endowed chair of science in North America, until his retirement from Harvard in 1969; holder of honorary degrees from several American and four European universities; recipient of various prestigious awards; investigator into the quantum theory of atomic structure and magnetism whose studies firmly established the basic physical principles of magnetism; pioneer researcher of the crystal field theory, which is central to the study of magnetism in solid state physics and rare earth materials; scientist of wide-ranging interests whose fields of inquiry include microwave and molecular spectra and radar and radio research; educator who has trained outstanding physical scientists —

BECAUSE you have been at the forefront in extending physical knowledge; because you have dedicated yourself to the advancement of knowledge as an educator as well as a gifted scholar; because you combine breadth of interest with depth of comprehension; and because your achievements and awards have brought distinction to this University, this State, and this Nation —

The Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, John Hasbrouck Van Vleck, the degree of Doctor of Science, *honoris causa*.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: Each new Doctor of Philosophy will be hooded and presented to President Moos by Associate Dean Francis M. Boddy, Ph.D., Graduate School. Assisting will be Mace-Bearer Larson; Faculty Marshal Daniel L. Hartl, Ph.D., College of Biological Sciences; and Recorder W. Donald Beatty, Ph.D., Admissions and Records.

CONFERRING OF OTHER GRADUATE SCHOOL DEGREES: Dean Boddy will then present recipients of other Graduate School degrees to President Moos and the audience.

PRESENTATION OF CERTIFICATES AND BACHELOR'S DEGREES: Vice President Shepherd will introduce the deans of the colleges or their representatives, who will present to President Moos the candidates for certificates and degrees. They are, in order of their introduction:

- Dean Albert Linck, Ph.D., for the College of Agriculture
- Dean Richard S. Caldecott, Ph.D., for the College of Biological Sciences
- Dean James D. Edwards, Ph.D., for the School of Business Administration
- Dean Jack Merwin, Ph.D., for the College of Education
- Dean Frank H. Kaufert, Ph.D., for the College of Forestry
- Dean Alfred Vaughan, Ph.D., for the General College
- Dean Keith McFarland, Ph.D., for the College of Home Economics
- Assistant Dean Richard W. Swanson, J.D., for the Law School
- Dean E. W. Ziebarth, Ph.D., for the College of Liberal Arts
- Associate Dean H. Mead Cavert, Ph.D., for the Medical School
- Dean M. Isabel Harris, Ph.D., for the School of Nursing
- Assistant Dean Frank DiGangi, Ph.D., for the College of Pharmacy
- Professor Theodore A. Olson, Ph.D., for the School of Public Health
- Associate Dean Walter H. Johnson, Ph.D., for the Institute of Technology
- Dean James Wertz, Ph.D., for the University College

HAIL! MINNESOTA: As Mr. Jorgenson steps to the microphone, the audience will rise and join him in singing the University's Alma Mater:

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: As graduates leave their seats, Professor Fleischer will play:

Magnificat *Scheidt*

THE AUDIENCE is requested to remain seated until those in academic costume have marched out.

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

Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Ann Hecter Danahy, St. Paul

B.S. with distinction '60, M.A. '66, University of Minnesota. Major: Educational Administration. Minor: Curriculum and Instruction. Thesis: Emancipation or Dislocation? A Study of the Effects of Bussing Minority Group Children from Ghetto to Middle Class Schools in Minneapolis, Minnesota. Major Adviser: Prof. W. R. Cross.

Richard Allen Johnson, Morris

B.S. '58, Moorhead State College; M.A. '65, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: An Analysis of the Attitudes of Minnesota Secondary School Principals Toward the Issue of School Age Pregnant Girls Receiving Continuing Education in Their Own High School Throughout Their Pregnancy. Major Adviser: Prof. V. D. Mueller.

Thomas Julius Johnson, Minneapolis

B.A. cum laude '61, Bethel College; M.A. '67, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: A Model College or University Program for the Preparation of Secondary School Principals. Major Adviser: Prof. N. C. Nickerson.

David Onyange Ongiri, Nyilima,
Kenya

B.S. '64, Hillsdale College; M.Ed. '68, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: Analysis of Student Evaluation and Reporting Practices in the Elementary School. Major Adviser: Prof. V. D. Mueller.

George Daniel Prazich, White Bear
Lake

B.A. cum laude '42, Gustavus Adolphus College; M.Ed. '47, M.A. '54, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: Impact of Inter-District Cooperative Programs and Special Education Regional Consultant Efforts on Programming for the Handicapped in Minnesota. Major Adviser: Prof. V. D. Mueller.

Curtis Dean Urness, North Branch

B.A. '49, Concordia College; M.A. '59, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: A Functional Analysis of the Role of the Police Liaison Officer in the Twin City Metropolitan Area. Major Adviser: Prof. N. C. Nickerson.

Stanley Allen Wignes, St. Louis Park

B.S. '50, Wartburg College; M.S. '54, Iowa State University. Major: Educational Administration. Minor: Supporting Field. Thesis: Dimensions of the Discretionary Authority of the Secondary School Principal in Making Rules for Pupil Control. Major Adviser: Prof. N. C. Nickerson.

Doctor of Philosophy

Daniel Morton Adams, Jr., Chicago, Ill.

B.A. '65, Albion College; M.S. '67, University of Michigan. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Ultrahigh Temperature Alterations of *Bacillus Subtilis* Spore Germination. Major Adviser: Prof. F. F. Busta.

Michael Laurence Adess, Boston, Mass.

B.S. '62, M.S. '64, University of Vermont. Major: Environmental Health. Minor: Biochemistry. Thesis: A Study of Fluorescent Pseudomonads Isolated from Minnesota Surface Waters of Varying Degrees of Eutrophication. Major Adviser: Prof. T. A. Olson.

Ernesto De Las Casas Aguirre, Chihuahua, Mexico

B.S. '55, Privated School of Agriculture; M.S. '61, University of Minnesota. Major: Entomology. Minor: Supporting Field. Thesis: The Lesser Mealworm, *Alphitobius diaperinus* (Panzer) and Its Associations with Certain Bacteria and Fungi in Poultry Brooder Houses. Major Adviser: Prof. P. K. Harein.

Frederic Francis Ahlgren, Mora

B.S. '68, M.S. '69, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Field. Thesis: High Pressure Freezing of Red Cells. Major Adviser: Prof. P. L. Blackshear.

Alvin Arthur Alm, Cloquet

B.S. '61, M.S. '65, University of Minnesota. Major: Forestry. Minor: Soil Science. Thesis: Environmental Conditions Produced by Mechanized Logging and Their Impact on Establishment of Coniferous Reproduction. Major Adviser: Prof. F. H. Kaufert.

Jarvis Lynn Anderson, Logan, Utah

B.S. '58, M.S. '59, Utah State University. Major: Theatre. Minor: Supporting Field. Thesis: The Artist-Figure in Modern Drama. Major Co-Advisers: Profs. K. L. Graham and J. D. Hurrell.

F. Fairlie Arant, Birmingham, Ala.

B.A. '57, Wellesley College; M.A. '61, Columbia University. Major: Theatre. Minor: English. Thesis: A Biography of the Actor Thomas Abthorpe Cooper (1775-1849). Major Adviser: Prof. A. H. Ballet.

Kristin Okerlund Arnold, Minneapolis

B.A. magna cum laude '58, M.A. '63, University of Minnesota. Major: Psychology. Minor: Supporting Field. Thesis: Language in Schizophrenics and Their Twins. Major Adviser: Prof. I. I. Gottesman.

Luther Jacob Askeland, Minneapolis

B.A. *summa cum laude* '62, Harvard College; M.A. '67, University of Minnesota. Major: Scandinavian. Minor: Supporting Field. Thesis: The Meaning of Action: Analysis of Henrik Ibsen's *Ghosts* and *Rosmersholm*. Major Adviser: Prof. Nils Hasselmo.

Thomas David Bacig, St. Paul

B.A. '59, B.S. '62, M.A. '64, University of Minnesota. Major: Education. Minor: English. Thesis: A Pre-Experimental Study of the Minnesota Project English Materials: A Case Study in Curriculum Evaluation. Major Adviser: Prof. S. B. Keglger.

Malchus Brooks Baker, Jr., Flagstaff, Ariz.

B.S. '64, Southern Illinois University; M.F. '65, Yale University. Major: Forestry. Minor: Soils. Thesis: Spring Runoff as Affected by Soil Permeability on Two Forested Watersheds. Major Adviser: Prof. A. C. Mace.

Mysore Balachandra, Mysore, India

B.S. '59, Banaras Hindu University; M.Tech. '65, Indian Institute of Technology; M.S. '69, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: A Study of Gyroscopic Systems. Major Adviser: Prof. P. R. Sethna.

Robert Baruch, Stevens Point, Wis.

B.A. '58, North Texas State University. Major: Theatre Arts. Minor: Supporting Field. Thesis: Georg Büchner and Frank Wedekind: Precursors of German Expressionism. Major Co-Advisers: Profs. Wendell Josal and E. F. Menze.

M. Susan Miners Beck, Long Prairie

B.A. *cum laude* '62, M.A. '64, University of Minnesota. Major: American Studies. Thesis: Language Study as Ideology. Major Co-Advisers: Profs. M. C. Turpie and D. W. Noble.

Virgil Paul Benoit, Red Lake Falls

B.S. '65, University of North Dakota; M.A. '67, University of Arkansas. Major: French. Minor: Supporting Field. Thesis: Form and Meaning in the Plays of Jean Rotrou. Major Adviser: Prof. A. A. Renaud.

Gary Glen Berntson, Minneapolis

B.A. '68, University of Minnesota. Major: Psychology. Minor: Supporting Field. Thesis: Blockade and Release of Hypothalamically and Naturally Elicited Aggressive Behaviors in Cats Following Midbrain Lesions. Major Adviser: Prof. W. W. Roberts.

Robert James Bielefeld, Milwaukee, Wis.

B.A. *magna cum laude* '65, Marquette University. Major: Psychology. Minor: Child Psychology. Thesis: The Constructs of Masculinity and Femininity as Measured by the Personality Inventory for Children. Major Adviser: Prof. R. G. Wirt.

Peter Oluwambe Bodunrin, Osi-Ekiti, Nigeria

B.A. with honors '65, University of Ibadan. Major: Classics. Minor: Philosophy. Thesis: Plato and His Contemporaries on the Possibility of Falsehood. Major Co-Advisers: Profs. R. P. Sonkowsky and N. O. Dahl.

Louise Claire Boedeker, Minneapolis

B.S. '62, M.A. '68, University of Minnesota. Major: Education. Minor: Sociology. Thesis: Student Personality Characteristics and Teaching Strategy: Effects on Learning. Major Adviser: Prof. Edith West.

Behzad (Ben) Bohlool, Tehran, Iran

B.S. '65, Wisconsin State University; M.S. '68, University of Minnesota. Major: Biology. Minor: Microbiology. Thesis: Immunofluorescence Approach to the Study of Ecology of *Rhizobium Japonicum* in Soils. Major Adviser: Prof. E. L. Schmidt.

Reece Alexander Bond, Union City, Tenn.

B.A. '61, Murray State College; M.A. '65, University of Kentucky. Major: English. Minor: Art History. Thesis: Whitman's Visual Imagination. Major Adviser: Prof. C. H. Foster.

Raghuvir Digambar Brahmākshatriya, Poona, India

B.V.S. '65, A.H. '65, Bombay Veterinary College; M.S. '68, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: A Comparison of Physical Methods of Forage Evaluation with Chemical and Biological Measurements. Major Adviser: Prof. J. D. Donker.

William Eugene Brown, Chetek, Wis.

B.A. '67, College of Wooster. Major: Biochemistry. Minor: Supporting Field. Thesis: Alkyl Isocyanates: Active-Site-Directed Inhibitors of Chymotrypsin and Elastase. Major Adviser: Prof. Finn Wold.

Dennis Elvin Buffington, Elizabethville, Pa.

B.S. '66, M.S. '70, Pennsylvania State University. Major: Agricultural Engineering. Minor: Supporting Field. Thesis: The Determination and Modeling of the Heat Production of Actively Metabolizing Turkeys. Major Adviser: Prof. K. A. Jordan.

Antonio Luis Buron, Bowling Green, Ohio

B.A. '52, Escolaticado del Pilar, Madrid; M.A. '66, University of Arizona. Major: Spanish. Minor: Latin. Thesis: In Search of an Exact Evaluation of What is Understood by Picaresque Literature. Major Adviser: Prof. D. E. Rundorff.

Jack Theodore Buss, Allen Park, Mich.

B.A. with honors '65, Bethel College; M.S. '68, Wayne State University. Major: Zoology. Minor: Cell Biology. Thesis: Mitotic and Metabolic Patterns in the Early Chick Embryo. Major Adviser: Prof. N. T. Spratt, Jr.

Ignatius Byrne, Dublin, Ireland

B.Ag.S. '67, M.Ag.S. '68, University College of Dublin. Major: Plant Breeding. Minor: Supporting Field. Thesis: Selection for SR-89 Content in Wheat and Barley. Major Adviser: Prof. D. C. Rasmusson.

David Geoffrey Cartwright, Launceston, Tasmania, Australia

B.S. '58, B.S. with honors '59, University of Tasmania. Major: Physics. Minor: Mathematics. Thesis: Observations of Plasma Waves Generated by a Beam of Electrons in the Ionosphere. Major Adviser: Prof. P. J. Kellogg.

Chu-Shin Chiu, Tainan, Taiwan

M.D. '66, National Taiwan University. Major: Physiology. Minor: Biochemistry. Thesis: Relationships Between Intracellular Electrolyte Concentrations and Resting Membrane Potential in Mammalian Skeletal Muscle. Major Adviser: Prof. I. J. Fox.

Michael John Collins, Minneapolis

B.S. '66, St. John's University. Major: Inorganic Chemistry. Minor: Supporting Field. Thesis: Lewis Acid Studies of the Adduct Formation Reactions of Bis (2,2,6,6-Tetramethyl-3,5-Heptanedione) Nickel(II). Major Adviser: Prof. D. J. Britton.

Thomas Francis Condon, Portland, Ore.

B.A. '63, University of Portland; M.A. '64, University of Notre Dame. Major: Sociology. Minor: Supporting Field. Thesis: Bi-Culturalism and Adolescent Aspirations: A Comparison of English and French-Speaking Canadians' Family Size Expectations. Major Adviser: Prof. Joan Aldous.

David Clarence Cordes, St. Paul

B.S.M.E. '62, M.S.I.E. '66, University of Minnesota. Major: Business Administration. Minor: Industrial Engineering. Thesis: Resource Analysis Modelling in Higher Education: A Synthesis. Major Adviser: Prof. T. R. Hoffmann.

John Condie Corless, Storrs, Conn.

B.S. cum laude '67, Brigham Young University; M.S. '70, University of Minnesota. Major: Business Administration. Minor: Supporting Field. Thesis: The Assessment of Prior Distributions in Auditing Situations for Using Bayesian Statistics. Major Adviser: Prof. J. M. Smith, Jr.

Raymond Joseph Cummings, Roseville

B.A. magna cum laude '67, St. Thomas College; M.A. '69, University of Minnesota. Major: Sociology. Minor: Educational Psychology. Thesis: A Study of the Intervention of Social Caseworker Values in the Employability of Welfare Clients. Major Adviser: Prof. D. A. Martindale.

James Edward Dale, Anoka

B.A. '59, M.A. '69, University of Minnesota. Major: American Studies. Thesis: Spaceship Earth or Mother Earth: An Analysis of the Ecological Problem. Major Adviser: Prof. M. Q. Sibley.

Philip Herbert Debenham, Rochester, N.Y.

B.S. '65, Yale University. Major: Physics. Minor: Supporting Field. Thesis: The (p,t) Reaction on Even Isotopes of Samanum. Major Adviser: Prof. N. M. Hintz.

William Roy DeMaree, Jr., Memphis, Tenn.

B.S. '64, Memphis State University; M.A. '66, Arizona State University. Major: Sociology. Minor: Supporting Field. Thesis: Marginality in the Paraprofessional: The Graduate Teaching Assistant as Marginal Man. Major Adviser: Prof. D. A. Martindale.

Donna Adele Hoppenstedt Dennis, St. Paul

B.A. '64, Oberlin College; M.S. '68, University of Leicester. Major: Biochemistry. Minor: Microbiology. Thesis: The Bacterial Metabolism of Protocatechuic Acid and of Tropic Acid. Major Adviser: Prof. Stanley Dagley.

Juanita Ann Nada Dobmeyer, Cleveland, Ohio

B.S. '65, M.A. '67, Bowling Green University. Major: Sociology. Minor: Law. Thesis: The Sociology of Shoplifting: Avocation and Vocation. Major Adviser: Prof. D. A. Martindale.

Edmund Thomas Dowd, Minneapolis

B.A. '60, M.A. '63, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: The Effect of Awareness of Response-Reinforcement Contingency in the Acquisition and Extinction of Operantly Reinforced Counselor Behavior. Major Adviser: Prof. D. H. Blocher.

Gary Robert Dowling, Aurora, Ill.

B.S. with distinction '67, University of Illinois. Major: Chemical Engineering. Minor: Supporting Field. Thesis: Studies of the Statistical Theory of Fluids. Major Adviser: Prof. H. T. Davis.

Lyndon Wayne Drewlow, Breckenridge

B.S. '65, North Dakota State University; M.S. '68, University of Minnesota. Major: Horticulture. Minor: Plant Breeding. Thesis: Incompatibility in the Garden Chrysanthemum, *Chrysanthemum Morifolium*. Major Adviser: Prof. R. E. Widmer.

Charles Child Eldredge III, Lawrence, Kan.

B.A. '66, Amherst College. Major: Art History. Minor: American Studies. Thesis: Georgia O'Keeffe: The Development of an American Modern. Major Adviser: Prof. D. R. Torbert.

Vernon Lee Eriksen, Blue Earth

B.S. with high distinction '65, M.S.M.E. '68, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Field. Thesis: Film Cooling Effectiveness and Heat Transfer with Injection Through Holes. Major Adviser: Prof. R. J. Goldstein.

Don Lowell Fisher, Provo, Utah

B.S. '66, M.S. '68, Brigham Young University. Major: Anatomy. Minor: Zoology. Thesis: Some Effects of X-Ray and Trypan Blue on the Preimplantation Mouse Embryo. Major Adviser: Prof. Morris Smithberg.

John Leslie Foster, Waverly, Ohio

B.A. *cum laude* '67, Miami University; M.A. '69, University of Minnesota. Major: Political Science. Minor: Supporting Field. Thesis: Intergovernmental Compliance: Minnesota School District Reorganization (1947-1971). Major Adviser: Prof. W. H. Flanagan.

Stephen Edward Frantzich, Richfield

B.A. with highest honor '66, Hamline University. Major: Political Science. Minor: Sociology. Thesis: A Comparative Study of Legislative Roles and Behavior. Major Adviser: Prof. J. E. Turner.

Sidney Stewart Frissell, Jr., Missoula, Mont.

B.S. '60, M.S. '63, University of Minnesota. Major: Forestry. Minor: Wildlife. Thesis: An Analysis of the Maintenance of Pre-Settlement Biotic Communities as an Objective of Management in Itasca State Park, Minnesota. Major Adviser: Prof. H. L. Hansen.

William Howard Fulton, Indio, Calif.

B.S. with distinction '66, University of Redlands. Major: Philosophy. Minor: Mathematics. Thesis: On the Vindication of Induction: An Attempt to Complete the Reichenbach-Salmon Program of Vindicating Induction. Major Adviser: Prof. G. E. Maxwell.

Ruben Arlantino Garcia, Quezon City, Philippines

B.S.M.E. '54, University of the Philippines; M.S.M.E. '57, Stanford University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Diffusion Losses in Long Vertical Sampling Lines. Major Adviser: Prof. K. T. Whitby.

David Cooper Garnham, Webster, N.Y.

B.A. '64, Cornell University; M.A. '69, University of Minnesota. Major: Political Science. Minor: Supporting Field. Thesis: Attitude and Personality Patterns of Foreign Service Officers and the Conduct of American Foreign Affairs. Major Adviser: Prof. R. E. Riggs.

Robert Douglas Gehrz, Minneapolis

B.A. *cum laude* '67, University of Minnesota. Major: Physics. Minor: Supporting Field. Thesis: Infrared Radiation from RV Tauri Stars. Major Adviser: Prof. N. J. Woolf.

Robert Geis, New York, N.Y.

B.A. '64, City College of New York; M.A. '66, University of Minnesota. Major: History. Minor: Supporting Field. Thesis: Liberty, Equality, Fraternity: The Ideology of the American Labor Movement from 1828 to 1848. Major Adviser: Prof. D. W. Noble.

Alwyn Francis Gibbs, Brookstead, Australia

B.A.S. '65, M.A.S. '68, University of Queensland. Major: Plant Pathology. Minor: Plant Breeding. Thesis: The Relationship Between Leaf Sugar and Helminthosporium Leaf Spot in Kentucky Bluegrass. Major Adviser: Prof. R. D. Wilcoxson.

Emory Giles, Siren, Wis.

B.S. '59, University of Wisconsin; M.S. '63, Illinois Wesleyan University. Major: Educational Administration. Minor: Supporting Program. Thesis: The Identification of Input Variables Which are Characteristic of the Latent-Terminal Junior College Student. Major Adviser: Prof. V. D. Mueller.

James Ray Gilley, Boone, Colo.

B.S. with high distinction '66, M.S. '68, Colorado State University. Major: Agricultural Engineering. Minor: Fluid Mechanics. Thesis: Steady Two-Dimensional Infiltration from Buried Line Sources. Major Adviser: Prof. E. R. Allred.

David Seeley Gilmer, Minnesota Lake

B.S. '59, United States Naval Academy; M.W.M. '67, University of Michigan. Major: Ecology. Minor: Wildlife Management. Thesis: Home Range and Habitat Use of Breeding Mallards (*Anas platyrhynchos*) and Wood Ducks (*Aix sponsa*) in North-Central Minnesota as Determined by Radio Tracking. Major Adviser: Prof. J. R. Tester.

John Matthew Gleisner, Marshfield,
Wis.

B.S. '66, Wisconsin State University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Role of Histidine in the Activity of Ficin. Major Adviser: Prof. I. E. Liener.

Joseph Richard Goldman, Bogotá,
Colombia

B.A. '65, M.A. '67, University of Minnesota. Major: History. Minor: Supporting Field. Thesis: Land, Labor and Lord: Count Hatzfeld, the Imperial State Council, and Robot Abolition in Austria and Bohemia, 1740-1790. Major Adviser: Prof. W. E. Wright.

Robert Walter Grady, Waltham,
Mass.

B.S. '63, Brown University. Major: Organic Chemistry. Minor: Supporting Field. Thesis: An NMR Study of Hindered Internal Rotation in 1-(2,6-Dimethylphenyl)-Cycloalkenes. Major Adviser: Prof. E. W. Garbisch.

Marshall John Graney, Vesta

B.A. '66, M.A. '70, University of Minnesota. Major: Sociology. Minor: Mass Communication. Thesis: Social Participation of the Elderly. Major Adviser: Prof. G. P. Stone.

Robert Nelson Grove, San Diego,
Calif.

B.A. '65, California Lutheran College; M.A. '68, University of Minnesota. Major: Psychology. Minor: Pharmacology. Thesis: The Effects of Insulin on Food-Reinforced Operant Behavior. Major Adviser: Prof. T. I. Thompson.

Dennis Eugene Hacker, Canby

B.S. '66, M.S. '68, University of Minnesota. Major: Animal Science. Minor: Genetics. Thesis: A Genetic Analysis of a Miniature Pig Population. Major Adviser: Prof. W. E. Rempel.

Ruth Feser Hale, Wayzata

B.A. '50, Carleton College; M.A. '66, University of Minnesota. Major: Geography. Minor: Supporting Field. Thesis: A Map of Vernacular Regions in America. Major Adviser: Prof. E. C. Mather.

Melvin Arthur Hanson, Hudson, Wis.

B.B.A. with distinction '55, M.B.A. '60, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: A Comparison of Theory and Practice in the Location of Manufacturing Activity. Major Adviser: Prof. E. A. Nightingale.

James Henry Lewis Harders, St. Louis
Park

B.S. '63, M.A. '66, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: The Relationship Between Selected In-Service Activities and Supportive Behavior by Teachers. Major Adviser: Prof. N. C. Nickerson.

Theodore Delano Harris, Long Beach,
Calif.

B.S. '51, University of Denver; M.A. '55, Western Reserve University. Major: History. Minor: American Studies. Thesis: Henry Osian Flipper, the First Negro Graduate of West Point. Major Adviser: Prof. R. C. Loehr.

Jerome Charles Harste, Appleton

B.S. '63, St. Cloud State College; M.A. '69, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: An Approach to Graduate Program Evaluation in Teacher Education: A Multivariate Analysis of the Relationship of Student and Program Variables to the Career Orientations of Elementary Curriculum and Instruction Graduates of the Master of Arts Degree at the University of Minnesota. Major Adviser: Prof. R. T. Lambert.

Everett Hilliard Harvey, Jr., Rantoul,
Ill.

B.S. '67, University of Illinois. Major: Physics. Minor: Mathematics. Thesis: A Study of the Electromagnetic Decays of Pseudo-Scalar and Vector Mesons and a Study of the Pizero-Pizero System. Major Adviser: Prof. Keith Ruddick.

Charles Robert Hatch, Missoula,
Mont.

B.S. '64, Oregon State University; M.F. '66, University of Montana. Major: Forestry. Minor: Statistics. Thesis: Simulation of an Even-Aged Red Pine Stand in Northern Minnesota. Major Adviser: Prof. D. J. Gerrard.

Ronald Otto Haverlandt, Great Falls,
Mont.

B.A. '60, M.D. '64, St. Thomas Seminary. Major: Sociology. Minor: Supporting Field. Thesis: Religion and Social Change: The Churches and the American Anti-War Movement, 1960-1970. Major Adviser: Prof. D. A. Martindale.

Ronald Martin Hays, Edina

B.S. '59, Columbia University; M.S. '69, University of Minnesota. Major: Mineral Resources Engineering. Minor: Business Administration. Thesis: The Design of Mining, Crushing, and Concentrating Facilities for Semi-Taconite Iron Ores of the Mesabi Range. Major Adviser: Prof. E. P. Pfeleider.

Bruce Sherman Hemingway, St. Paul

B.S. '62, Macalester College; M.S. '65, University of Minnesota. Major: Geology. Minor: Geophysics. Thesis: A Calorimetric Determination of the Stability, Entropy, Heat and Gibbs Energy of Formation for the Carbonate Minerals Huntite, Nesquehonite, Artinite, and Hydromagnesite. Major Adviser: Prof. H. T. Hall.

Donald Earl Henry, Cresco, Iowa

B.A. '65, M.A. '67, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Attentional and Cardinal-Ordinal Factors in the Conservation of Number. Major Adviser: Prof. M. D. Hall.

Thomas William Hertz, Ithaca, N.Y.

B.A. '67, Stanford University. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Study of the Role of Visual Imagery in Intermodal Transfer. Major Adviser: Prof. H. W. Stevenson.

Darel Gaynor Hess, McConnelsville, Ohio

B.S. '65, Utah State University. Major: Physiology. Minor: Physical Chemistry. Thesis: Negative Osmosis Across Collodion Membranes with Urea, Thiourea, and Formamide. Major Adviser: Prof. E. D. Grim.

David Richard Hickman, Exeter, Calif.

B.A. '64, University of California, Berkeley; M.S. '68, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Neutral Composition of the Polar Thermosphere. Major Adviser: Prof. A. O. Nier.

Michael Edward Holstein, South Bend, Ind.

B.A. cum laude '64, University of Notre Dame. Major: English. Minor: Supporting Field. Thesis: A Study of the Personal and Poetic Identities of John Keats. Major Adviser: Prof. J. L. Scoggins.

Ing-tzong Hwang, Chang-Hua, Republic of China

B.S.E. '65, National Taiwan University; M.S. '68, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: Finite Amplitude Thermal Convection in Porous Media with Heat Source and Variable Viscosity. Major Adviser: Prof. D. D. Joseph.

John Darel Jackson, Tomah, Wis.

B.S. '61, Wisconsin State College; M.S. '62, Mankato State College. Major: Botany. Minor: Zoology. Thesis: A Revision of the Genus *Archibaccharis* Heering (Compositae). Major Adviser: Prof. G. B. Ownbey.

Joyce Eileen Jentoft, Minneapolis

B.S. cum laude '66, Capital University. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Studies of Isotropic Shifts of Octahedral Nickel (II) Complexes. Major Adviser: Prof. W. L. Reynolds.

David Jan Johnson, Eau Claire, Wis.

B.S. '56, University of Wisconsin; M.S.W. '59, University of Minnesota. Major: Social Work. Minor: Educational Psychology. Thesis: Job Complexity, Job Attitude, and Self Concept Among Probation Officers. Major Adviser: Prof. J. C. Kidneigh.

Eugene Hale Johnson, Bessemer, Ala.

B.A. '64, Miles College; M.Ed. '69, Tuskegee Institute. Major: Educational Administration. Minor: Educational Psychology. Thesis: A Study of the Involvement of Two-Year Colleges with Minority Groups. Major Adviser: Prof. V. D. Mueller.

Jeanne Louise Jones, Minneapolis

B.A. '64, Carleton College; M.A. '65, Boston University. Major: Child Psychology. Minor: Psychology. Thesis: Field Dependence-Independence, Reflection-Impulsivity, and the Internalizing-Externalizing Dimension in Normal Boys. Major Adviser: Prof. R. D. Wirt.

Venkataraman Kameswaran, Thiruvaiyaru, India

B.S. with distinction '63, University of Madras; B.S. '65, University of Bombay. Major: Organic Chemistry. Minor: Supporting Field. Thesis: Cycloaddition Reactions of Indene Derivatives with Dimethyl Acetylenedicarboxylate. Major Adviser: Prof. W. E. Noland.

Carol Mae Kaste, Minneapolis

B.A. *cum laude* '57, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: A Ten Year Follow-Up of Children Diagnosed in a Child Guidance Clinic as Having Cerebral Dysfunction. Major Adviser: Prof. A. J. Hafner.

Timothy John Keaveny, Tintah

B.A. '64, St. John's University; M.A. '66, University of Minnesota. Major: Industrial Relations. Minor: Supporting Field. Thesis: The Impact of Managerial Values on Managerial Behavior. Major Adviser: Prof. G. W. England.

Sookon Kim, Seoul, Korea

B.A. '57, Korea University; M.P.A. '65, City College of New York. Major: Industrial Relations. Minor: Supporting Field. Thesis: Determinants of the Labor Force Participation Among Mature Married Women 30-44 Years of Age. Major Adviser: Prof. H. G. Heneman, Jr.

Geraldine Elizabeth Beaty King, St. Paul

B.A. '58, Grinnell College; M.A. '62, University of Minnesota. Major: Library Science. Minor: Supporting Field. Thesis: Attitudes of Library School Students Towards Reference Librarians and Library Information Service. Major Adviser: Prof. D. K. Berninghausen.

Heikki Niilo Koivo, Helsinki, Finland

B.S.E.E. '67, Purdue University; M.S.E.E. '69, University of Minnesota. Major: Control Science. Thesis: Fredholm Resolvent in the Optimization of Linear Systems with State and Control Retardations. Major Adviser: Prof. E. G. Lee.

Francis A. Kulacki, Baltimore, Md.

B.S.M.E. '63, M.S. '66, Illinois Institute of Technology. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Thermal Convection in a Horizontal Fluid Layer with Uniform Volumetric Energy Sources. Major Adviser: Prof. R. J. Goldstein.

Michael Clyde LeMay, Milwaukee, Wis.

B.S. '66, M.S. '67, University of Wisconsin. Major: Political Science. Minor: Supporting Field. Thesis: Metropolitan Area Problems and the American States. Major Adviser: Prof. W. H. Flanigan.

Santa Hui-Cheng Lin, Chiayi, Taiwan

B.S. '65, National Taiwan University; M.S. '68, Rutgers—The State University. Major: Food Science and Industries. Minor: Supporting Field. Thesis: Studies on Size Characteristics and Reformation of Casein Micelles in Bovine Milk. Major Adviser: Prof. C. V. Morr.

Stanton Jay Linden, Belgrade

B.A. '57, St. Olaf College; M.A. '61, University of Minnesota. Major: English. Minor: Art History. Thesis: Alchemy and the English Literary Imagination: 1385 to 1633. Major Adviser: Prof. G. W. O'Brien.

James David MacDonald, Chicago, Ill.

B.A. '62, Quincy College; M.A. '64, University of Arkansas. Major: Speech Science, Pathology, and Audiology. Minor: Psychology. Thesis: Observer Agreement as a Method to Define Stuttering and Disfluency as Two Reliable and Unambiguous Response Classes. Major Adviser: Prof. R. R. Martin.

William Manley Mace, Wood River, Ill.

B.A. *magna cum laude* '67, Yale University. Major: Child Psychology. Minor: Supporting Field. Thesis: An Investigation of Spatial and Kinetic Information for Separation in Depth Using Computer Generated Dot Patterns. Major Adviser: Prof. J. H. Flavell.

Patricia Ann McCart, St. Paul

B.A. '60, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: Effects of an Independent School Merger on Boys' and Girls' Perceptions of Environmental Press. Major Adviser: Prof. V. D. Mueller.

Elliott Brooks McGrew, Jr., Athens, Greece

B.A. '50, Washington and Jefferson College; M.A. '52, University of Connecticut. Major: American Studies. Thesis: The Private School: A Study of an American Phenomenon. Major Adviser: Prof. R. H. Beck.

Theodore Wallace Meckstroth, Columbus, Ohio

B.A. *cum laude* '62, Whitman College; M.A. '65, University of Minnesota. Major: Political Science. Minor: Supporting Field. Thesis: Conditions of Partisan Realignments: A Study of Electoral Change. Major Adviser: Prof. J. E. Turner.

Ralph Davidson Megee III, Springfield, Pa.

B.S. '65, University of Delaware. Major: Chemical Engineering. Minor: Mathematics. Thesis: Interactions Between Dissimilar Microbial Populations and Their Environment. Major Adviser: Prof. H. M. Tsuchiya.

Thomas Nolan Meyer, Brookville, Ohio

B.S.A.E. '66, University of Cincinnati; M.S.M.E. '69, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Field. Thesis: Effects of Applied Voltage and Surface Chemistry on the Heat Flux to a Probe Immersed in an Arc Plasma. Major Adviser: Prof. Emil Pfender.

Dolores Jean Miller, Minneapolis

B.A. '68, University of Illinois. Major: Child Psychology. Minor: Psychology. Thesis: Visual Habituation in the Human Infant. Major Adviser: Prof. H. W. Stevenson.

James Dale Miller, Fargo, N.D.

B.S. '53, Hamline University. Major: Plant Pathology. Minor: Plant Genetics. Thesis: Studies on Phenotypic Variability within *Puccinia Gramminis* Var. *Tritici*. Major Adviser: Prof. M. F. Kernkamp.

Hong Shick Min, Pusan, Korea

B.S.E.E. '66, Seoul National University; M.S.E.E. '69, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Transport Theory of Noise in PN (or N + P) Junction-Like Devices at High Injection Levels. Major Adviser: Prof. Aldert van der Ziel.

Alden John Moe, Crookston

B.S. '63, University of Minnesota; M.A. '67, Clarke College. Major: Education. Minor: Supporting Field. Thesis: An Investigation of the Uniqueness of Selected Auditory Discrimination Skills Among Kindergarten Children Enrolled in Two Types of Reading Readiness Programs. Major Adviser: Prof. J. C. Manning.

Adalaide Kirby Morris, Charlottesville, Va.

A.B. '64, Wells College; M.A. '67, University of Minnesota. Major: English. Minor: French. Thesis: Imagination's Hymns: Christian Metamorphoses in the Poetry and Thought of Wallace Stevens. Major Adviser: Prof. G. T. Wright.

Eileen Dorothy Moynahan, Garden City, N.Y.

B.A. '67, Mount Holyoke College. Major: Child Psychology. Minor: Psychology. Thesis: The Development of Knowledge Concerning the Effect of Categorization Upon Free Recall. Major Adviser: Prof. J. H. Flavell.

Thomas Arthur Murray, St. Paul

B.S. '59, St. Cloud State College; M.A. '63, Spec.Cert.Ed. '66, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Individualization of Instruction in Special Learning Disability Resource Classrooms. Major Adviser: Prof. B. E. Balow.

Myron Henry Nelson, Alexandria

B.S. '53, M.A. '70, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: Selected Criteria Used in Admitting Students to the College of Veterinary Medicine and Their Relationship to Performance in the College. Major Adviser: Prof. M. J. Peterson.

Darwin Delbert Ness, Clark, S.D.

B.S. '61, M.F. '62, University of Idaho. Major: Forestry. Minor: Supporting Field. Thesis: Comparative Dynamics of Upland Forest Communities of Itasca State Park, Minnesota. Major Adviser: Prof. H. L. Hansen.

William Kenneth Nichols, Kent, Wash.

B.S. '66, University of Washington. Major: Pharmacology. Minor: Biochemistry. Thesis: Metabolic, Hormonal, and Triazine Influences on Liver Glycogen Metabolism. Major Adviser: Prof. N. D. Goldberg.

Patrick Bates Nolan, Minneapolis

B.A. '64, M.A. '67, University of Minnesota. Major: History. Minor: Supporting Field. Thesis: Vigilantes on the Middle Border: A Study of Self-Appointed Law Enforcement in the States of the Upper Mississippi from 1840 to 1880. Major Adviser: Prof. P. L. Murphy.

Anna Lou Blevins Obong, Arcola, Miss.

B.S. '56, Central State University; M.Ed. '67, Northeastern Illinois State Teachers College. Major: Educational Administration. Minor: Educational Psychology. Thesis: The Impact of Life-Space Interview Training on the Behavior of Teachers and Pupils as Measured by Two Classroom Interaction Analysis Systems. Major Co-Advisers: Profs. Richard Weatherman and F. B. Wilderson, Jr.

Kie-Pyung Oh, Seoul, Korea

LL.B. '57, Seoul National University; M.A. '66, University of Minnesota. Major: Political Science. Minor: Supporting Field. Thesis: The United Nations and Contemporary Japan's Foreign Policy. Major Adviser: Prof. R. E. Riggs.

Kathryn Ann Wellington Olson, Fort Kent, Me.

B.A. *magna cum laude* '66, Gustavus Adolphus College. Major: Organic Chemistry. Minor: Supporting Field. Thesis: An Approach to the Synthesis of the Macrolide Antibiotics Methymycin and Neomethymycin. Major Adviser: Prof. R. F. Borch.

Necla P. Oner, Ankara, Turkey

B.A. '58, Doane College; M.A. '59, Spec.Cert. '66, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Impact of Teacher Behavior and Teaching Technique on Learning by Anxious Children. Major Adviser: Prof. B. E. Balow.

Norman Francis Paradise, Minneapolis

B.A. '66, University of Minnesota. Major: Physiology. Minor: Physical Chemistry. Thesis: Perfusion Heterogeneity in Skeletal Muscle Using Tritiated Water. Major Adviser: Prof. I. J. Fox.

Jean Miriam Paul, Minneapolis

B.A. *magna cum laude* '63, Smith College. Major: Philosophy. Minor: Mathematics. Thesis: Realism Versus Nominalism. Major Adviser: Prof. May Brodbeck.

James Merrell Peek, St. Paul

B.S. '58, M.S. '61, Montana State University. Major: Wildlife. Minor: Forestry. Thesis: Moose Habitat Selection and Relationships to Forest Management in Northeastern Minnesota. Major Adviser: Prof. A. C. Hodson.

Samiha Sidhom Peterson, Egypt

B.A. '61, M.A. '67, American University in Cairo. Major: Sociology. Minor: Anthropology. Thesis: Elites and the Modernization of Underdeveloped Countries: The Case of Egypt. Major Adviser: Prof. D. A. Martindale.

Douglas Leroy Phinney, Rapid City, S.D.

B.Phys. '65, University of Minnesota. Major: Physics. Minor: Supporting Field. Thesis: Heavy Rare Gases in Meteorites. Major Adviser: Prof. R. O. Pepin.

Inchol Phyoo, Seoul, Korea

D.D.S. '63, Seoul National University; M.A. '67, Dalhousie University. Major: Biometry. Minor: Mathematics. Thesis: Simulation and Resolution of Overlapping Chromatographic Peaks. Major Adviser: Prof. Eugene Ackerman.

Richard Irwin Pietz, Revere

B.S. '65, M.S. '67, University of Minnesota. Major: Soil Science. Minor: Biochemistry. Thesis: The Effect of Extraction Techniques on Metal-Organic Complexes Solubilized by a Chelating Resin. Major Adviser: Prof. R. S. Adams, Jr.

John Edward Poldoski, Duluth

B.A. '66, Bemidji State College; M.S. '68, University of Minnesota. Major: Analytical Chemistry. Minor: Supporting Field. Thesis: The Stability and Kinetics of Metal Ion Complexes of Ethylene Bis-N,N'-(2,6-dicarboxy) Piperidine. Major Adviser: Prof. T. J. Bydalek.

Marvin Adell Powell, Jr., Somerville, Tenn.

B.A. '62, Memphis State University. Major: History. Minor: Supporting Field. Thesis: Sumner Numeration and Metrology. Major Adviser: Prof. T. B. Jones.

Virginia Anne Pratt, Oswego, N.Y.

B.A. '50, Allegheny College; M.A. '57, Cornell University. Major: American Studies. Thesis: The Influence of Domestic Controversy on American Participation in the United Nations Human Rights Commission 1946-1953. Major Adviser: Prof. P. L. Murphy.

Luis Mariano Proenza, Cuernavaca, Mexico

B.A. '65, Emory University; M.A. '66, Ohio State University. Major: Psychology. Minor: Supporting Field. Thesis: Proximal Negative Response of Mudpuppy (*Necturus maculosus*) Retina. Major Adviser: Prof. M. J. Meier.

Harvey Allen Quamme, Harrow, Ontario, Canada

B.S.A. '62, M.S. '64, University of Saskatchewan. Major: Horticulture. Minor: Plant Breeding. Thesis: The Use of Thermal Differential Analysis to Study Freezing and the Mechanism of Cold Injury in Woody Plants. Major Adviser: Prof. C. J. Weiser.

Raymond Willard Quist, Harrisonburg, Va.

B.A. '57, Hamline University; M.A. '67, University of Minnesota. Major: Speech Pathology. Minor: Supporting Field. Thesis: The Effect of Combined Continuous Visual Feedback and Verbal Punishment on the Disfluencies of Normal Speakers. Major Adviser: Prof. R. R. Martin.

Puthugramam Viswanath Ramasubramanian, Palghat, India

B.Tech. '65, Indian Institute of Technology. Major: Metallurgical Engineering. Minor: Supporting Field. Thesis: Grain-Boundary Embrittlement in Iron and Steels. Major Adviser: Prof. L. E. Toth.

Prabhakara Poovandur Rao, Kav, India

B.E. '63, University of Mysore; M.E. '65, Indian Institute of Science; M.S. '69, University of Minnesota. Major: Aeronautical Engineering. Minor: Supporting Field. Thesis: Analysis of Supersonic Far Wake Flow Past Two-Dimensional and Axisymmetric Bodies Using Method of Integral Relations. Major Adviser: Prof. H. G. Heinrich.

Ruth Willard Redhead, Brookings, S.D.

B.Ed. '45, M.A. '54, University of Vermont. Major: French. Minor: Classics. Thesis: Love and Death in the Fictional Works of Madame de Lafayette. Major Adviser: Prof. A. A. Renaud.

James Edward Reidy, St. Paul

B.A. '52, St. Ambrose College; M.A. '61, University of Minnesota. Major: English. Minor: Classics. Thesis: The Higher Criticism in England and the Periodical Debate of the 1860's. Major Adviser: Prof. W. A. Madden.

James Morton Richtik, Winnipeg, Manitoba, Canada

B.A. '60, M.A. '64, University of Manitoba. Major: Geography. Minor: History. Thesis: Historical Geography of Manitoba: 1870 to 1886. Major Adviser: Prof. F. E. Lukermann.

Omer Donald Robichaud, Moncton, New Brunswick, Canada

B.A. '60, B.Ed. '62, Université de Moncton; M.Ed. '65, University of Ottawa. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Study of Learning Performance and Analysis of Responses in Intra-dimensional and Extradimensional Shifts. Major Adviser: Prof. J. E. Tumure.

Christopher Scott Roosevelt, Minneapolis

B.S. '67, University of Delaware. Major: Organic Chemistry. Minor: Supporting Field. Thesis: Ring Expansions and Syntheses in the Hexahydrofluorene System. Major Adviser: Prof. W. E. Parham.

Garth Mervin Rosell, New Brighton

B.A. '61, Wheaton College; B.D. '64, M.Th. '66, Princeton Theological Seminary. Major: History. Minor: Theology. Thesis: Charles Grandson Finney and the Rise of the Benevolent Empire. Major Adviser: Prof. T. L. Smith.

Timothy Gerald Roufs, Duluth

B.A. '65, University of Notre Dame; M.A. '67, University of Minnesota. Major: Anthropology. Minor: Supporting Field. Thesis: Education and Occupational Aspirations in a Changing Society: An Analysis of a Highland Mexican Region. Major Adviser: Prof. F. C. Miller.

Esther Fern Rupel, West Lafayette, Ind.

B.S. '47, Purdue University; M.S. '57, Manchester College. Major: Home Economics. Minor: Education. Thesis: An Investigation of the Origin, Significance, and Demise of the Prescribed Dress Worn by Members of the Church of the Brethren. Major Adviser: Prof. G. A. Esteros.

Mary Ann Ryder, St. Paul

B.S. with distinction '55, M.A. '62, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: The Structure of a Sport: Implications for Teaching and Learning in Physical Education. Major Adviser: Prof. E. M. Jaeger.

Edward Michael Sabella, Cranston, R.I.

B.S. *cum laude* '60, University of Rhode Island. Major: Economics. Minor: Business Administration. Thesis: Capitalization of the Property Tax: An Inter-Tax Jurisdiction Empirical Study. Major Adviser: Prof. E. M. Foster.

Frederick Michael Schaer, Columbus, Ohio

B.S. '60, M.S. '65, Ohio State University. Major: Physics. Minor: Mathematics. Thesis: Fluctuation Broadening of the Resistive Transition to the Superconducting State of Nb₃Sn Thin Films. Major Adviser: Prof. A. M. Goldman.

Wilbert Albert Scheffler, New Orleans, La.

B.S.E. '61, M.S. '65, Tulane University. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Non-Equilibrium Statistical Mechanics of Irreversible Processes and Engineering Applications. Major Adviser: Prof. W. E. Ibele.

Frank Roland Schiebe, Minneapolis

B.E.E. '57, M.S. '62, University of Minnesota. Major: Civil Engineering. Minor: Environmental Biology. Thesis: The Stochastic Characteristics of Pressure Fluctuations on a Channel Bed Due to the Macroturbulence in a Hydraulic Jump. Major Adviser: Prof. Edward Silberman.

Oscar John Schmiede, Jr., San Diego, Calif.

B.A. '56, University of Wisconsin; M.A. '65, University of Minnesota. Major: Philosophy. Minor: Supporting Field. Thesis: Augustine on Perceiving the Natural World. Major Adviser: Prof. G. B. Matthews.

Harold Floyd Schrage, Glen Ellyn, Ill.

B.S. '51, M.S.W. '52, University of Wisconsin. Major: Education. Minor: Social Work. Thesis: Evolution of Professional Recreation in Missouri and Its Relationship to National Recreation Developments 1940-1965. Major Adviser: Prof. J. E. Anderson.

Lloyd Hunt Seamans, Wellsboro, Pa.

B.S. '63, Rensselaer Polytechnic Institute. Major: Physical Chemistry. Minor: Physics. Thesis: Magneto-Optical Activity of Molecular Systems. Major Adviser: Prof. A. J. Moscovitz.

Robert Carl Serfass, Nazareth, Pa.

B.S. with honor '62, East Stroudsburg State College. Major: Education. Minor: Supporting Field. Thesis: Changes in Cardiorespiratory Fitness and Body Composition of Participants in Selected Physical Education Classes. Major Adviser: Prof. J. F. Alexander.

Dudley Martin Sherman, Middleport, N.Y.

B.S. '66, University of Notre Dame. Major: Metallurgy and Materials Science. Minor: Supporting Field. Thesis: Nucleation and Early Growth of Sputtered Metals on Amorphous Carbon. Major Adviser: Prof. T. E. Hutchinson.

Jerold Lee Simmons, Lexington, Neb.

B.A. '63, Kearney State College; M.A. '67, University of Nebraska, Omaha. Major: History. Minor: Supporting Field. Thesis: Operation Abolition: The Campaign to Abolish the House Un-American Activities Committee, 1938-1965. Major Adviser: Prof. P. L. Murphy.

James Earl Sowers, Vernon Center

B.S. '63, M.S. '69, University of Minnesota. Major: Nutrition. Minor: Supporting Field. Thesis: A Reevaluation of the Threonine Requirement of the Growing Pig. Major Adviser: Prof. R. J. Meade.

Alex G. Stach, Letcher, S.D.

M.A. '53, University of Minnesota. Major: Sociology. Minor: Supporting Field. Thesis: Hippie Communes U.S.A.: Five Case Studies, 1970. Major Adviser: Prof. D. A. Martindale.

Robert Eugene Staples, Roanoke, Va.

B.A. '64, San Fernando Valley State College; M.S. '65, San Jose State College. Major: Home Economics. Minor: Child Psychology. Thesis: The Influence of the Social Context on Pre-marital Sexual Standards and Behavior: A Cross-Racial Analysis. Major Adviser: Prof. Irving Tallman.

Donna Margaret Irene Stark, Winnipeg, Manitoba, Canada

B.A. with honors '65, B.S. with honors '66, University of Manitoba. Major: Ecology. Minor: Supporting Field. Thesis: A Paleolimnological Study of Elk Lake in Itasca State Park, Clearwater County, Minnesota. Major Adviser: Prof. H. E. Wright, Jr.

Joe Charles Steelhammer, Victoria, Tex.

B.S. cum laude '67, M.S. '68, University of Houston. Major: Physical Chemistry. Minor: Supporting Field. Thesis: Rearrangement Collisions: Electron Excitation of Triplet States in Helium and Molecular Hydrogen. Major Adviser: Prof. Sanford Lipsky.

Gregory Paul Stein, Wayzata

B.A. '60, St. John's University; M.A. '61, University of Minnesota. Major: Geography. Minor: Supporting Field. Thesis: Lake Minnetonka: Historical Perceptions of an Urban Lake. Major Adviser: Prof. F. E. Lukermann.

Walter G. Stephan, Minneapolis

B.A. cum laude '65, Lawrence University. Major: Psychology. Minor: Educational Psychology. Thesis: A Developmental Study of the Effects of Need on Perception. Major Adviser: Prof. Ellen Berscheid.

John Ball Stever, Minneapolis

B.A. '66, University of Minnesota. Major: Mathematics. Minor: Philosophy. Thesis: Some Algebraic Properties of Recursive Flow Diagrams. Major Adviser: Prof. Erwin Engeler.

Charles Venable Stone, Roanoke, Va.

B.A. '63, Wake Forest College; M.A. '66, University of Minnesota. Major: English. Minor: Supporting Field. Thesis: Dramas of Christian Time: Temporal Assumptions and Dramatic Form in the Medieval Mystery Cycle, the Morality Play, and Shakespeare's Second Tetralogy. Major Adviser: Prof. J. D. Hurrell.

Ralph Gridley Straton, Sydney,
Australia

B.A. '62, University of Tasmania; B.Ed. '67, University of Melbourne. Major: Educational Psychology. Minor: Supporting Field. Thesis: An Investigation of the Nature and Measurement of Preference Data for Instructional Decision-Making. Major Adviser: Prof. J. C. Merwin.

Narasimhaiengar Sundararaj, Sivasa-
mupram, India

B.S. '52, B.S. '54, M.S. '55, University of Mysore; M.S. '63, University of Minnesota. Major: Biometry. Minor: Statistics. Thesis: The Biometric Analysis of Non-Linear Models with Applications to Disinfection. Major Adviser: Prof. R. B. McHugh.

Daniel Mullane Sunday, Jr., Toronto,
Ontario, Canada

B.S. '67, University of Toronto. Major: Mathematics. Minor: Philosophy. Thesis: The Self-Equivalences of an H-space. Major Adviser: Prof. D. W. Kahn.

Charles Orel Thoen, Harmony

B.S. '59, D.V.M. '61, University of Minnesota. Major: Microbiology. Minor: Supporting Field. Thesis: Alterations in Lipoprotein Profile of Blood Associated with Some Infections. Major Adviser: Prof. A. G. Karlson.

Howard Elija Anthony Tinsley, Fed-
eral Way, Wash.

B.A. '65, M.A. '66, Western Washington State College. Major: Psychology. Minor: Educational Psychology. Thesis: An Investigation of the Rasch Simple Logistic Model for Tests of Intelligence or Attainment. Major Adviser: Prof. L. H. Lofquist.

Jeff Todd Titon, Reading, Mass.

B.A. *cum laude* '65, Amherst College; M.A. '67, University of Minnesota. Major: American Studies. Thesis: Ethnomusicology of Down-home Blues Phonograph Records 1926-1930. Major Adviser: Prof. Johannes Riedel.

Luis Torres, Decorah, Iowa

B.A. '58, Muhlenberg College; M.A. '63, University of Minnesota. Major: History. Minor: Political Science. Thesis: The German Nationalverein, 1859-1867. Major Adviser: Prof. O. P. Pflanze.

Kerry Arnold Trask, Orillia, Ontario,
Canada

B.A. *cum laude* '65, Hamline University; M.A. '68, University of Minnesota. Major: History. Minor: Political Science. Thesis: In the Pursuit of Shadows: A Study of Collective Hope and Despair in Provincial Massachusetts During the Era of the Seven Years War, 1748 to 1764. Major Adviser: Prof. J. R. Howe.

Min-Chung Tsai, Taipei, Republic of
China

B.Ed. '52, National Taiwan Normal University; M.S.P.Ed. '62, M.S.H.S. '63, Indiana University. Major: Physical Education. Minor: Educational Administration. Thesis: A Study to Determine the Relationships Between Physical Fitness and Maximal Work Capacity, Professional Activity Skill Level, and Scholastic Aptitudes of Physical Education Majors. Major Adviser: Prof. J. F. Alexander.

Donald Paul Vanouse, Minneapolis

B.S. with distinction '62, University of Minnesota. Major: English. Minor: Supporting Field. Thesis: An Artifice Nearer to Nature: Decadence and Aestheticism in the Writings of Stephen Crane. Major Adviser: Prof. G. T. Wright.

Barbara Amy Vatter, Grants Pass, Ore.

B.S. '56, Oregon State University; M.A. '60, University of Minnesota. Major: History. Minor: American Studies. Thesis: A Forest History of Douglas County, Oregon, to 1900. Major Adviser: Prof. R. C. Loehr.

Subramanian Viswanathan, Madras,
India

B.S. '53, M.A. '55, University of Madras; M.S. '68, University of Minnesota. Major: Mineralogy and Petrology. Minor: Mineral Engineering. Thesis: A Petrological and Geochemical Study of Granitic and Metamorphic Rocks in and Adjacent to Western Part of the Giants Range Batholith, Northeastern Minnesota. Major Adviser: Prof. P. K. Sims.

I-Shou Wang, Taipei, Republic of
China

B.S. '61, National Taiwan University; M.A. '66, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: Chinese Migration and Population Change in Manchuria, 1900-1940. Major Adviser: Prof. J. M. Webb.

Frithjof Rodney Wannebo, Grand
Marais

B.A. '52, Hamline University; M.A. '58, M.A. '65, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: Meet and Confer: A Study in Minnesota Politics of Education. Major Adviser: Prof. W. M. Ammentorp.

Eric Watkins, Minneapolis

B.A. '61, M.A. '62, Yale University. Major: American Studies. Thesis: The Mississippi River as Image, Myth, and Metaphor in American Literature. Major Adviser: Prof. D. W. Noble.

Norman Mairs Watt, Northfield

B.A. '60, M.A. '63, University of Minnesota. Major: German. Minor: Supporting Field. Thesis: A Critical Analysis of Alfred Doblin's Novel *Babylonische Wandrung Oder Hochmut Kommt Vor Dem Fall*. Major Adviser: Prof. F. D. Hirschbach.

Elizabeth Liu Wee, Manila, Philip-
pines

B.S. '63, Mapua Institute of Technology; M.S. '66, Northeastern University. Major: Physical Chemistry. Minor: Supporting Field. Thesis: Studies on the Isotropic and the Liquid Crystal Phases of the System Poly- γ -benzyl- α ,L-glutamate-Dimethylformamide. Major Adviser: Prof. W. G. Miller.

Stephen George Wieting, Iowa City,
Iowa

B.A. '62, Whitworth College; B.D. '65, Princeton Theological Seminary. Major: Sociology. Minor: Supporting Field. Thesis: Family Factors and the Religious Belief Systems of Adolescents. Major Adviser: Prof. D. G. McTavish.

Timothy DeWitt Williams, Ashland,
Ore.

B.A. '66, Bethel College; M.A. '68, University of Minnesota. Major: Speech-Communication. Minor: Supporting Field. Thesis: Minimum Disposition, Personality and Negotiation Success. Major Adviser: Prof. D. H. Smith.

Homer Eugene Williamson, Eau
Claire, Wis.

B.A. '62, Carleton College; M.A. '63, Northwestern University. Major: Political Science. Minor: History. Thesis: Legislative-Executive Relations in Minnesota. Major Adviser: Prof. G. A. Warp.

Patricia Lynn Wolleat, Brainerd

B.S. with high distinction '64, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: An Investigation of Changes in the Interviewing Effectiveness of Student Counselors Associated with Enrollment in a Combined Didactic-Experimental-Practical Core Course. Major Adviser: Prof. D. H. Blocher.

Merle Gene Wovcha, Virginia

B.A. '62, B.S. '64, M.S. '67, University of Minnesota. Major: Biochemistry. Minor: Zoology. Thesis: Synthesis and Nucleolytic Degradation of Uracil-Containing DNA by *E. coli* DNA Polymerase. Major Adviser: Prof. James Koerner.

Jing-peir Yu, Nanking, China

B.S. '58, Taiwan Chung Kung University; M.S. '65, University of Wisconsin. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Experiments on Flow and Heat Transfer in a Cavity Bounded by Rotating Surfaces. Major Co-Advisers: Profs. E. R. Eckert and E. M. Sparrow.

Franklin Joseph Zieve, Minneapolis

B.A. '66, Harvard College. Major: Biochemistry. Minor: Pharmacology. Thesis: Inhibition of Ribonucleic Acid Polymerase by the Carcinogen N-Hydroxy-2-fluorenylacetamide. Major Adviser: Prof. H. R. Gutmann.

Nancy Hill Zingale, Niagara Falls,
N.Y.

A.B. with high distinction '64, University of Rochester; M.A. '65, Washington University. Major: Political Science. Minor: Supporting Field. Thesis: Electoral Stability and Change: The Case of Minnesota, 1857-1966. Major Adviser: Prof. W. H. Flanigan.

Doctor of Philosophy in Surgery

Ronald Herman Dietzman, St. Paul

B.A. '57, B.S. '60, M.D. '62, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: The Influence of the Sympathetic Nervous System Upon Survival in Experimental Cardiogenic and Endotoxic Shock. Major Adviser: Prof. R. C. Lillehei.

Master of Architecture

Douglas William Menzies, Hinsdale, Ill.

B.S. '65, B.Arch. '66, California State Polytechnic College. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.

David Edward Rogers, Minneapolis

B.Arch. '69, University of Nebraska. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.

Master of Arts

James Francis Allen, Belleville, Ill.

B.Ph. cum laude '61, University of St. Thomas, Rome. Field of Concentration: Educational Administration. Major Adviser: Prof. S. H. Popper.

Helen A. Bangsberg, Sparta, Wis.

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Douglas Clarence Anderson, Minneapolis

B.S. '61, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. F. H. Wood.

Mary Virginia Bathke, Rochester

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B.A. '65, University of Wisconsin. Field of Concentration: English as a Second Language. Major Adviser: Prof. B. W. Robinett.

William George Batz, Rochester

B.A. '69, St. John Fisher College. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Diana Margarita Aranda, Valparaiso, Chile

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Susan Shaw Bazin, Ridgewood, N.J.

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Phyllis Natalie Asmussen, Richfield

B.A. '39, University of Omaha. Field of Concentration: Education. Major Adviser: Prof. G. L. Piché.

Larry Becker, Philadelphia, Pa.

B.A. '62, University of Colorado. Field of Concentration: Psychology. Major Adviser: Prof. William Schofield.

George Gregory Balego, Minneapolis

B.S. '69, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. E. D. Gennaro.

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B.S. '61, Ball State University. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. D. Hall.

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John MacIntosh Callaway, Jr., New Castle, N.H.

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Keith McCall Campbell, Duluth

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Pamela Marie Carey, Rocky River, Ohio

B.A. '70, St. Mary's College. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Loren Lee Chamberlain, Clinton, Iowa

B.A. '66, College of St. Thomas. Field of Concentration: Journalism. Major Adviser: Prof. W. E. Emery.

Andrew Chan, Kowloon, Hong Kong

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B.S. '67, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. G. F. Alkire.

Russell Paul Christensen, Hendricks

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B.A. '63, Harvard University. Field of Concentration: Business Administration. Major Adviser: Prof. C. W. Rudelius.

Jake Jon Kooiman, Edgerton

B.S. '68, Mankato State College. Field of Concentration: Business Administration. Major Adviser: Prof. John Neter.

Ashok Sanatkumar Kothari, Rajkot, India

B.E. '67, University of Baroda; M.S. '68, Stanford University. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Wallace Allen Marx, Hawthorne, N.Y.

B.A. '68, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffmann.

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B.A. '69, St. John's University. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky.

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B.Ch.E. '56, Rensselaer Polytechnic Institute. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

James Edward Wright, Burnsville

B.S.E.E. '49, Michigan College of Mining and Technology. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky.

Mervin Ellwood Wright, St. Paul

B.A. '65, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

M. Matthew Yeknik, Minneapolis

B.S. '66, University of Wisconsin. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Master of Fine Arts

Daryl Robert Gibson, Minneapolis

B.S. with distinction '62, University of Minnesota. Field of Concentration: Music. Major Adviser: Prof. E. M. Turrentine.

Joanne Irene Titus, St. Paul

B.M. with distinction '68, Eastman School of Music. Field of Concentration: Music. Major Adviser: Prof. H. R. Fleischer.

Katherine Grace Weber, Jamaica, N.Y.

B.F.A. '70, St. John's University. Field of Concentration: Studio Arts. Major Adviser: Prof. Zigmunds Priede.

Master of Forestry

Joseph Allegre Brady, Maplewood

B.S. '66, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. A. C. Mace.

Master of Science

Soo Hyun Ahn, Kimhae, Korea

B.S. '64, Seoul National University. Field of Concentration: Horticulture. Major Adviser: Prof. Cecil Stushnoff.

Lynne Elizabeth Anderson, St. Paul

B.S. '60, Moorhead State College. Field of Concentration: Ecology. Major Adviser: Prof. B. O. Megard.

Jane Elizabeth Ballard, Hardin, Mont.
B.A. with honors '69, University of Montana.
Major: Microbiology. Minor: Public Health.
Thesis: Some Aspects of Microbiological Sterility in Surgical Theaters. Major Adviser: Prof. V. W. Greene.

Stephen Richard Barkin, East Meadow, N.Y.

B.B.A. cum laude '69, Hofstra University.
Field of Concentration: Business Administration. Major Adviser: Prof. N. L. Chervany.

William Charles Barr, Columbus, Ohio

B.S. '69, Ohio State University. Major: Horticulture. Minor: Plant Physiology. Thesis: Influence of Soil Temperature on Growth and Development of Woody Plants. Major Adviser: Prof. H. M. Pellett.

Joyce Ann Behrens, Bellevue, Wash.

B.S. '66, University of Illinois. Major: Medical Technology. Minor: Hematology. Thesis: Isolation and Characterization of an Inhibitor Prothrombin Activation in Normal Serum. Major Adviser: Prof. L. G. Stewart.

Izak Benbasat, Istanbul, Turkey

B.A. with high honors '69, Robert College.
Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

Charles William Berg, Clarkfield

B.A. '70, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. B. Upton.

Susan Leigh Bishop, Casper, Wyo.

B.S. in H.E. '68, University of Nebraska. Major: Home Economics. Minor: Sociology. Thesis: Meaning Variations of Selected Fashion Innovations Among Adopter Categories. Major Adviser: Prof. M. P. Grundereng.

Helen Arlene Boyer, Halifax, Pa.

B.A. '68, Millersville State College. Major: Ecology. Minor: Biometry. Thesis: The Effect of Passage of Zooplankton Through Peach Bottom Atomic Plant, Unit No. 1. Major Adviser: Prof. R. O. Megard.

Terrill Lee Burch, Reston, Va.

B.S. '68, American University. Major: Geology. Minor: Ecology. Thesis: The Morphology and Hydrodynamics of Potholes. Major Adviser: Prof. H. E. Wright.

Richard La Mar Carpenter, Goshen, Ind.

B.A. cum laude '70, Fresno Pacific College.
Field of Concentration: Environmental Health. Major Adviser: Prof. C. P. Straub.

Robin David Cavalier, Melbourne, Australia

B.Com. '65, University of Melbourne. Field of Concentration: Business Administration. Major Adviser: Prof. P. F. Jessup.

Koo Heung Chung, Seoul, Korea

B.S. '66, M.S. '68, Seoul National University.
Major: Biochemistry. Minor: Organic Chemistry. Thesis: Purification and Properties of the Endo-Beta-[1-3]-Glucanase from *Rhizopus arrhizus*. Major Adviser: Prof. L. M. Henderson.

Henry B. Clark III, Afton

B.Ch. with distinction '65, University of Minnesota. Field of Concentration: Organic Chemistry. Major Adviser: Prof. W. E. Parham.

Phyllis Anderson Collier, Minneapolis

B.S. '62, South Dakota State University. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Walter Scott Combs, Jr., Pueblo, Colo.

B.A. '69, University of Colorado. Field of Concentration: Chemistry. Major Adviser: Prof. A. J. Moscowitz.

Edward Arthur Cunningham, Minneapolis

B.S.B. '70, University of Minnesota. Major: Business Administration. Minor: Statistics. Thesis: An Experiment in Unit Pricing. Major Adviser: Prof. R. J. Holloway.

Judith Louise Dean, Toledo, Ohio

B.A. '69, Hiram College. Major: Botany. Minor: Ecology. Thesis: Wetland Forest Communities of the Eastern Boundary Waters Canoe Area. Major Adviser: Prof. E. J. Cushing.

Narinder Kumar Dhir, Ludhiana, India

B.S. '65, Punjab Agricultural University; M.S. '66, Indian Agricultural Research Institute. Major: Forestry. Minor: Genetics. Thesis: Study of Some Seedling and Nuclear Characteristics of Red Pine (*pinus resinosa* Ait.). Major Adviser: Prof. E. I. Sucoff.

Gary A. Eckhoff, Steamboat, Iowa
D.V.M. '68, Iowa State University. Field of Concentration: Veterinary Physiology and Pharmacology. Major Adviser: Prof. G. E. Miller.

Corinne T. Ellingham, St. Paul
B.S. '59, Northwestern University. Major: Physical Therapy. Minor: Educational Psychology. Thesis: Relationship of Velocity of Contraction to Torque Developed During Shoulder Flexion and Extension. Major Adviser: Prof. H. V. Skowlund.

Robert Phillips Graham, Kenton,
Manitoba, Canada
B.S.A. '65, University of Manitoba. Major: Horticulture. Minor: Botany. Thesis: Cold Injury and Its Determination in Selected Rhododendron Species. Major Adviser: Prof. Robert Mullin.

Yeo-Shin Hong, Seoul, Korea
B.S. with distinction '61, University of Minnesota. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

James Charles Johnson, Minneapolis
B.S.B. '69, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. L. Chervany.

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B.S. with distinction '69, University of Minnesota. Major: Home Economics. Minor: Sociology. Thesis: The Development of a Personal Appearance Rating Scale and Its Relationship to Selected Social Factors for Adolescent Girls. Major Adviser: Prof. M. P. Grindereng.

Gaylord John Knutson, Owatonna
B.A. *cum laude* '69, St. Olaf College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Correlation Between Mammary Gland ATP-Citrate Lyase and Citrate Content of Milk. Major Adviser: Prof. Robert Jenness.

Sylvia Ho-Ling Lam, Hong Kong
B.A. '67, University of Oregon. Major: Organic Chemistry. Minor: Related Fields. Thesis: The Crystal Structures of *p*-Iodobenzonitrile and *o*-Iodobenzonitrile. Major Adviser: Prof. D. J. Britton.

Philip Michael Lamb, Michigan, N.D.
B.A. '67, University of Notre Dame. Major: Computer and Information Science. Minor: Statistics. Thesis: A Learning Computer Program. Major Adviser: Prof. M. L. Stein.

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M.B.A. '69, City College of New York. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

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B.S. '61, Hamline University. Field of Concentration: Biometry. Major Adviser: Prof. R. B. McHugh.

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B.A. '67, College of St. Teresa. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Glucose Synthesis by a Cell-Free System of Rat Liver. Major Adviser: Prof. Frank Ungar.

Norman Lee Moll, Wauseon, Ohio
B.S. '65, Ohio State University. Major: Horticulture. Minor: Biometrics. Thesis: A Study of Some Factors Affecting the Toxicity of 2-Chloro-N-isopropylacetanilide to Weeds and Seed-Grown Onions. Major Adviser: Prof. R. E. Nylund.

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B.S. '67, University of Arizona. Major: Physics. Minor: Mathematics. Thesis: A Study of Negative Space Charge Neutralization in Gas Diodes. Major Adviser: Prof. H. J. Oskam.

David John Pritchard, London,
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B.S. '69, University of Birmingham. Major: Soil Science. Minor: Chemistry. Thesis: The Influence of Soil pH on the Phytotoxicity of Three s-Triazine Herbicides. Major Adviser: Prof. R. S. Adams.

Purnima Ray, Raipur, India

M.S. '64, University of Sagar. Major: Genetics. Minor: Biochemistry. Thesis: Mapping Non-Vital Genes of Bacteriophage T₄: A Gene-Cluster Involved in Nucleic Acid Metabolism. Major Adviser: Prof. D. P. Snustad.

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B.S. '68, Seoul National University. Field of Concentration: Horticulture. Major Adviser: Prof. H. F. Wilkins.

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B.S. '63, University of Alexandria. Field of Concentration: Animal Science. Major Adviser: Prof. R. N. Shoffner.

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James Alan Senn, Minneapolis

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B.S. '68, Canisius College. Field of Concentration: Plant Pathology. Major Adviser: Prof. M. F. Kernkamp.

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B.A. '64, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. N. Cardozo.

Frank Winslow Stodola, Buffalo

B.Math. '69, University of Minnesota. Major: Computer and Information Science. Minor: Mathematics. Thesis: Recognition of Hand-Printed Alphabetical Characters Using Contour Tracing. Major Adviser: Prof. A. R. Hanson.

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B.Phys. with distinction '69, University of Minnesota. Field of Concentration: Physics. Major Adviser: Prof. J. S. Lilley.

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Jonathan Colliesson Tetherly, Laconia,
N.H.

B.S. '66, University of New Hampshire. Major: Forestry. Minor: Related Fields. Thesis: Phenological and Morphological Variation Among Some Paper Birch Seed Sources (*Betula papyrifera* Marsh). Major Adviser: Prof. C. A. Mohn.

Joanne Marie Thurber, Barwell, Neb.

B.S. '67, University of Nebraska. Major: Home Economics. Minor: Child Psychology. Thesis: The Relationship of Clothing Opinions, Sex, Grade and Socio-Economic Levels Among Pre-adolescents. Major Adviser: Prof. M. P. Grindereeng.

Takeshi Tsuwano, Kurayoshi, Japan

B.Eng. '66, Nagoya Institute of Technology; M.Eng. '69, University of Tokyo. Field of Concentration: Fluid Mechanics. Major Adviser: Prof. E. M. Sparrow.

Daniel Yaw Twumasi, Kumasi, Ghana

B.S. '69, University of Science and Technology, Ghana. Major: Biochemistry. Minor: Chemistry. Thesis: Purification and Characterization of a Proteinase from Navy Beans (*Phaseolus Vulgaris* Var. Sanilac). Major Adviser: Prof. I. E. Liener.

Linda Jean Van Zele, Moline, Ill.

B.S. '64, Marycrest College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. J. M. Tuberty.

Karen Ann Vogl, New Brighton

B.S. '60, Iowa State University. Field of Concentration: Home Economics. Major Adviser: Prof. E. S. Maynes.

Julius James Wadekamper, Faribault

B.S. with distinction '54, St. Edward's University. Field of Concentration: Horticulture. Major Adviser: Prof. P. D. Ascher.

Joseph John Warthesen, Plainview
B.S. with distinction '70, University of Minnesota. Major: Food Science and Industries. Minor: Nutrition. Thesis: Determination of Available Lysine in Foods as an Index of Protein Quality. Major Adviser: Prof. P. B. Manning.

Richard Linus Wenkel, St. Paul
B.S. with distinction '67, University of Minnesota. Field of Concentration: Horticulture. Major Adviser: Prof. R. E. Nylund.

Barbara Catherine Weber Wetzell,
Prairie Du Chien, Wis.
B.A. '69, Viterbo College. Major: Entomology. Minor: Biometrics. Thesis: Effects of Cold Temperature on Hatching of the Forest Tent Caterpillar, *Malacosoma disstria*. Major Adviser: Prof. H. M. Kulman.

Calvin Lamont White, Portola, Calif.
B.S. '69, University of California, Davis. Field of Concentration: Metallurgy and Materials Science. Major Adviser: Prof. R. A. Swalin.

John Van Wiersma, Lost Nation,
Iowa
B.S. '70, University of Minnesota. Major: Plant Physiology. Minor: Agronomy. Thesis: Gynotypic Differences in Root Characteristics Among Soybean [*Glycine Max L.*]. Major Adviser: Prof. W. A. Brun.

Ho Seung Yang, Seoul, Korea
B.S. '69, Seoul National University. Major: Nutrition. Minor: Biochemistry. Thesis: Evaluation of Vitamin D₃ Supplements by Biological Assay with Young Turkeys. Major Adviser: Prof. P. E. Waibel.

Robert Cheng-Hsiao Yen, Taipei,
Taiwan
B.S. '67, National Taiwan Normal University. Field of Concentration: Organic Chemistry. Major Adviser: Prof. M. M. Kreevoy.

Master of Science in Aeronautical Engineering

Harwood Allan Hegna, Minneapolis
B.A.E. with high distinction '69, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Rarefied Gas Flow Through a Slit. Major Adviser: Prof. A. S. Berman.

Master of Science in Aerospace Engineering

David Kermit Holger, Rushford
B.Aero.E. with high distinction '70, University of Minnesota. Major: Aerospace Engineering. Minor: Related Fields. Thesis: Acoustic Impedance of a Smooth Edged Orifice. Major Adviser: Prof. G. S. Beavers.

Master of Science in Anesthesiology

Klaus Wilhelm Korten, Essen,
Germany
Physikum '62, Universität Würzburg; M.D. '66, University of Muenster. Major: Anesthesiology. Minor: Biochemistry. Thesis: The Effects of Volatile Anesthetics on the Biotransformation of Drugs. Major Adviser: Prof. Kai Rehder.

Master of Science in Chemical Engineering

Italo Hilario Farina, La Plata,
Argentina

Chem. Engr. '65, University of La Plata. Major: Chemical Engineering. Minor: Computer Science. Thesis: Transients in Model Chemical Reactors. Major Adviser: Prof. Rutherford Aris.

Dan Joseph Foley, Cambridge

B.S.Ch.E. *cum laude* '70, University of Notre Dame. Major: Chemical Engineering. Minor: Mathematics. Thesis: Profile Creep in a Fixed Bed Catalytic Reactor. Major Adviser: Prof. N. R. Amundson.

James Bennet Lane, Cambridge

B.Ch.E. with high distinction '69, University of Minnesota. Major: Chemical Engineering. Minor: Ecology. Thesis: The Anaerobic Digestion of Cattle Manure. Major Adviser: Prof. N. R. Amundson.

Charles Victor Wittmann, Strasbourg,
France

Dipl. '70, Ecole Nationale Supérieure de Chimie de Paris. Major: Chemical Engineering. Minor: Mechanical Engineering. Thesis: Analysis of a Model for a Non-Isothermal Continuous Fluidized Bed Catalytic Reactor with a Dilute Phase. Major Adviser: Prof. N. R. Amundson.

Master of Science in Civil Engineering

Takashi Kobayashi, Tokyo, Japan

B.S. '65, Osaka University. Major: Civil Engineering. Minor: Statistics. Thesis: Pavement Behavior under the Moving Wheel Load on the Tomei Expressway. Major Adviser: Prof. E. L. Skok, Jr.

Master of Science in Dentistry

Alfonso Moreno de Leon, Monterrey,
Mexico

D.D.S. '64, University of Nuevo Leon. Major: Dentistry. Minor: Microbiology. Thesis: Clinical Evaluation of Endodontic Culturing Techniques. Major Adviser: Prof. J. R. Jensen.

Gary Theodore Pederson, Rochester

D.D.S. '68, University of Minnesota. Major: Dentistry. Minor: Pathology. Thesis: The Ultrastructure of the Langerhans Cell in the Oral Mucosa. Major Adviser: Prof. J. A. Gibilisco.

Francis Charles Steyaert, Marshall

B.S. '66, D.D.S. '68, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Antibacterial Effect of Using an Irrigating Agent in Conjunction with Intracanal Medication in Root Canal Therapy. Major Adviser: Prof. J. R. Jensen.

Donald Ray Vap, Bladen, Neb.

D.D.S. '65, Creighton University. Major: Dentistry. Minor: Pathology. Thesis: A Study of the Effect of Salivary Gland Homogenate and Thyroxine Injection upon the Gonads and Adrenals of the Hypophysectomized Albino Rat. Major Adviser: Prof. J. A. Gibilisco.

Master of Science in Electrical Engineering

William Brice Elkington, Tooele,
Utah

B.S.E.E. *cum laude* '63, University of Utah. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. M. Waltz.

Diwakar G. Gan, Nagpur, India

B.E. '66, M.E. '68, Indian Institute of Science. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. T. Anderson.

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Dipl. with honors '67, University of Munich.
Field of Concentration: Electrical Engineering.
Major Adviser: Prof. R. Y. Kain.

William Charles Johnson, Foley

B.Phys. with distinction '69, University of
Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: Application of
Auger Spectroscopy to the Chemical Analysis
of Solutions. Major Adviser: Prof. W. T. Peria.

Sing Fook Lo, Hong Kong

B.E.E. with distinction '68, Stanford Univer-
sity. Field of Concentration: Electrical Engi-
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Frank A. Preese, Minneapolis

B.A. *summa cum laude* '69, St. Thomas Col-
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of Rubidium Antimonide. Major Adviser: Prof.
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Thomas James Spence, St. Paul

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B.S. '67, National Taiwan University. Field of
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Shiuchung Yam, Hong Kong

B.E.E. with high distinction '69, University of
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ney.

Master of Science in Industrial Engineering

Dov Baruchson, Holon, Israel

B.S. '69, Roosevelt University. Field of Con-
centration: Industrial Engineering. Major Ad-
viser: Prof. J. S. White.

Master of Science in Mechanical Engineering

Gregory George Brucker, Pittsburgh,
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Pittsburgh. Field of Concentration: Mechani-
cal Engineering. Major Adviser: Prof. E. M.
Sparrow.

William John Harris, Rochester

B.S.M.E. '64, South Dakota School of Mines
and Technology. Field of Concentration: Me-
chanical Engineering. Major Adviser: Prof.
D. A. Frohrib.

David Charles Jones, Minneapolis

B.S.M.E. *magna cum laude* '67, University of
Miami. Major: Mechanical Engineering. Mi-
nor: Mathematics. Thesis: Experiments on
Natural Convection Mass Transfer on Hor-
izontal Surfaces. Major Adviser: Prof. E. R.
Eckert.

Kei Yun Lau, Canton, China

B.S. '68, National Taiwan University. Field
of Concentration: Mechanical Engineering. Ma-
jor Adviser: Prof. R. J. Goldstein.

Sam Ross Montgomery, La Grange,
Ill.

B.S. '64, University of Illinois. Field of Con-
centration: Mechanical Engineering. Major
Adviser: Prof. T. E. Murphy.

James Robert Pasch, Princeton

B.S. '64, United States Naval Academy. Field
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Major Adviser: Prof. K. T. Whitby.

Dennis Eldon Zeidler, Annandale

B.M.E. '65, University of Minnesota. Major:
Mechanical Engineering. Minor: Mathematics.
Thesis: Optimization of a Combined Ruzicka
System and Snowdon Vibration Isolator. Ma-
jor Adviser: Prof. D. A. Frohrib.

Master of Science in Medicine

Jose Joaquim Barbosa, Oporto,
Portugal

M.D. '61, Oporto Medical School. Major: Medicine. Minor: Biochemistry. Thesis: Effects of Steroids on Plasma Proteins. Major Adviser: Prof. R. P. Doe.

Howard Clark Hoagland, Rochester

M.D. '63, Medical College of Virginia. Major: Medicine. Minor: Hematology. Thesis: Chromosomal Aberrations in Acute Leukemia. Major Adviser: Prof. J. M. Kiely.

Raul Oliveira Bizarro, Oporto,
Portugal

Lyceum '54, Alexandre Herculano; M.D. '60, Oporto Medical School. Major: Medicine. Minor: Pathology. Thesis: Correlation of VCG and Anatomic Findings. Major Adviser: Prof. R. E. Smith.

Master of Science in Obstetrics and Gynecology

Oscar Litwak, Mexico, Mexico

M.D. '64, Universidad Nacional de Mexico. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Demonstration of Fetal Erythrocytes in Maternal Circulation During Early Pregnancy and Abortions. Major Adviser: Prof. D. G. Decker.

Master of Science in Urology

Michael Mark Warren, Jersey City,
N.J.

A.B. '59, Cornell University; M.D. '63, State University of New York. Major: Urology. Minor: Pathology. Thesis: The Use of Gold Leaf in Urologic Surgery. Major Adviser: Prof. L. F. Greene.

Certificate of Specialist in Education

Lorne Clifford Carlson, Rochester

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COLLEGE OF AGRICULTURE

Bachelor of Science

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Jerome Curtis Behrens, Northrop

Gregory P. Daniel, Mendota Heights
Valerie Anne George, LeSueur

Daniel Malcolm Koester, Dennison
William Robert Malecha, A.A.,
Northfield

Walter Ewald Miller, Sauk Centre
Mark Robert Parker, Redwood Falls

Gary Lee Polzin, Glencoe, WITH HIGH
DISTINCTION

Randall Stephen Schlieper, St. Paul
Charles James Smith, A.A., Austin

Jeffrey Ardeen Soma, Harmony, WITH
DISTINCTION

Warren Daniel Springer, Albert Lea,
WITH DISTINCTION

David Vernon Wroblewski, East
Grand Forks

COLLEGE OF AGRICULTURE AND SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Robert Emer Anderson, Anoka
David Daryl Bauck, New York Mills,
WITH DISTINCTION
Kenneth Dwayne Emde, Appleton
Dale Ebenhard Gandrud, Owatonna,
WITH DISTINCTION

Mike Hinrichsen, Blue Earth
Robert Dean Richardson, Austin
Warren Sanford Smith, Austin
James Alan Sobey, Minneapolis
Steven Duane Wilson, Gaylord

COLLEGE OF AGRICULTURE AND COLLEGE OF EDUCATION

Bachelor of Science

Harry Howard Gerdes, A.A., Worthington

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Reinette Lea Bialke, A.A., Babbitt
Dona Barbara Brewer, St. Paul
Thomas Edward Glatzel, B.S., St. Paul
Robert Sze-Ker Hon, Hong Kong

Maureen Theresa Laughlin,
Hong Kong
Patricia Theresa Vos, West St. Paul
John Alfred Weber, Minneapolis
David Paul Zilly, Minneapolis

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Frances Mary Ahlstrom, Long Lake
Oscar Ole Akerlund, Minneapolis
Harold Douglas Anderson, Minne-
apolis
Rolf Fredrick Anderson, St. Paul
Stephen Brian Anderson, Atwater
Craig Charles Avery, Edina, WITH
DISTINCTION
Robert Stephen Bach, Crystal

Joseph Kenneth Benson, Blooming
Prairie
Neil Frederic Berman, Edina
William Durand Bjerke, Minneapolis
Bradley Dale Bjorklund, Minneapolis
Richard James Black, Richfield
Wayne Lawrence Blake, Dilworth
Arthur Irving Bruns, St. Paul, WITH
DISTINCTION.

Richard Raphael Bullerman, Minneapolis, WITH DISTINCTION
Bruce Arnold Burton, St. Paul, WITH DISTINCTION
Barbara Elizabeth Burt, Wayzata
Timothy Paul Byrne, St. Paul
Thomas Neil Charbonneau, A.A., St. Paul
Patrick John Connoy, Edina
Robert Ralph Croft, B.A., Minneapolis
Charles Russell Curtis, Redwood Falls
Darrel Wallace Damhof, Litchfield
Wayne John Dankowski II, Rosemount
John Michael DeVries, Robbinsdale
John Michael Dignan, Finlayson
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Mark Alan Hughes, Minneapolis
Ronald Carl Jacobson, Minneapolis
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Peter John Jasan, New Prague
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Wallace Theodore Johnson, Jr., St. Paul
William Charles Johnson, Lindstrom
Robert Harold Kaitz, St. Paul
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John Andrew Knutson, Jr., Minneapolis
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William Joseph Sauro, St. Paul
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 Paul
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 tional Falls
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 Paul
 Elliot Steven Weinstein, St. Paul
 Joseph Otto Weissenborn, Mound,
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 Charles Frederick Woodbury, St. Paul,
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 Lakes
 Evaughn Marie Anderson, Hitterdal,
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 Kristin H. Bahl, St. Paul
 Dellin Richard Bakkum, Mountain
 Iron, WITH HIGH DISTINCTION
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 Joan Emilie Bayers, St. Paul
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 James Raymond Behrenbrinker, Min-
 neapolis, WITH DISTINCTION
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 Bruce Keith Bowland, Minneapolis
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 Pamela Jane Bradley, Minneapolis
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 Nancy Bernhagen Chose, Minneapolis
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 Prairie
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 Michael James Connelly, Burnsville,
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 WITH HIGH DISTINCTION
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 Marilyn Thiebault Daniels, Minne-
 apolis, WITH DISTINCTION
 Albert Walter Davis, Minneapolis,
 WITH DISTINCTION
 Cynthia Louise Dowdall, Humboldt,
 WITH DISTINCTION
 Susan Mae Dreblow, Excelsior
 Constance Marie Dressler, Robbins-
 dale, WITH HIGH DISTINCTION
 Layna Ann Engum, Morris

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- Marsha Louise Ettema, Round Lake
- John Arthur Fazio, St. Paul
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- Kathleen Ann Gallagher, Richfield, WITH DISTINCTION
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- Rebecca Lynne Grover, Minneapolis
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- Kathleen Kay Helmeke, Minneapolis
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- Mary Janet Lindstrom, St. Paul
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- Jean Lillian Mendenhall, Minneapolis
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- Susan Lynn Moldestad, Redwood Falls
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* Degree conferred as of August 20, 1971.

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Linda Yvonne Nelson, Minneapolis

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Diane Carol Larson Olson, Windom,
WITH DISTINCTION

Margaret Ann Palazzari, St. Paul,
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Peggy Lynn Person, St. Paul

Ronald William Person, Minneapolis

Joyce Ann Peters, St. Paul

Deborah Andrea Plumb, Lakeville

Jill Marie Potts, Spring Valley, WITH
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Joycelyn Edmund Radebach, A.A.,
Bloomington

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Robbinsdale, WITH DISTINCTION

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Charles Anthony Romportl, Hopkins,
WITH DISTINCTION

Barbara Gail Rooney, Brooklyn Center

Judith Katherine Ross, Minneapolis,
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Kay Lynn Rude, Farmington, WITH
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Gina Laurin Mann Salisbury, Rich-
field, WITH DISTINCTION

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Mary Claire Skon, B.A., St. Paul

Terry Ann Slette, Blue Earth

Sally Crippa Sloan, St. Paul, WITH
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WITH DISTINCTION

Margarete Helen Smith, Howard Lake

Mildred Hazel Smith, Minneapolis,
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Ronald Allen Spies, Willmar, WITH
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Rachel Tal, Beit-Alfa, Israel, WITH
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Christy Diane Tender, Minneapolis,
WITH DISTINCTION

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B.A., Schroeder

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apolis, WITH DISTINCTION

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Wis., WITH DISTINCTION

Lynda Lee Warhol, St. Paul

Darise Dee Weller, Minneapolis

Pauline Joy Wojciak, Minneapolis,
WITH DISTINCTION

James D. Wujek, St. Paul

John Thomas Ziegenhagen, Hopkins,
WITH DISTINCTION

Francis Anthony Zurek, West St. Paul

Master of Education

Philip Harris Miller, B.A., Leonardtown, Md.

COLLEGE OF FORESTRY

Bachelor of Science

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Heights

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Robert Joseph Behr, South St. Paul

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 William Michael Davidek, St. Paul
 Stuart Allen Fox, Hopkins
 Thomas Charles Henderson, Golden
 Valley
 William Harrison Morrissey, St. Paul
 Walter Newell Murfin, Lake Park,
 WITH DISTINCTION

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 Theodore Robert Sheppard, Blaine
 Duane Allan Sippel, Albert Lea
 Gordon Arnold Straka, Jr., St. Paul
 Donald Norman Wehland, A.A., St.
 Paul
 Guy Anthon Wold, Cass Lake, WITH
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 James Edward Asbury, Minneapolis
 John Atvars, St. Paul
 Terrance Alvar Augustson, Minne-
 apolis
 Terrance William Ball, Minneapolis
 Brian Lee Bartholmey, Austin
 Norman Thomas Bayard, Esko
 LeRoy James Bendickson, Plymouth
 Patricia Mae Berg, Minneapolis
 Rebecca Rose Bicker, Minneapolis
 Dennis James Cannon, St. Louis Park
 David Cornelius Carlsen, Minneapolis
 David Alan Chambers, White Bear
 Lake
 Rosita Wai Chan, St. Paul
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 Kim Charles Eckerstrom, Hopkins
 Connie Lenore Erickson, Minneapolis
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 Robert Calvin Fairchild, Minneapolis
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 John Mark Gustafson, St. Paul
 John Joseph Hackett, Richfield
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 William Horne, St. Paul
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 Park
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 Thomas Lowell Johnson, Minneapolis

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 Beverly Fern Adler Juengel,
 Minneapolis
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 Gary John Kasid, St. Paul
 Suzanne Kedrok, Minneapolis
 William Wallace Keenan, St. Paul
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 Ruth Ksilander, Minneapolis
 Todd Scott Kysylyczyn, St. Paul
 Kenneth Dale Larson, Richfield
 Colin Alistair Lowe, Minneapolis
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 Michael Ray Miller, Minneapolis
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 Steven Judd Mulally, St. Paul
 James Carl Ogren, Minneapolis
 Charles Warren Olson, Richfield
 Ernest Henry Orf, North St. Paul
 Lee B. Otis, Edina
 Michael John Peck, St. Paul
 Gregory Dean Peterson, Richfield
 John Patrick Picha, St. Paul
 Susan Lorraine Pierson, Minneapolis
 Michael Howard Plocher, White Bear
 Lake
 Robert Arnold Powell, Robbinsdale

William Michael Powers, St. Paul
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Donna Ruden, Minneapolis
David Harvey Scheele, St. Paul
Nancy Schrempp, Minneapolis
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Ronald Dennis Sjodin, St. Louis Park
Ann Louise Taylor, Faribault
Cheryl Marie Ternes, Minneapolis
Gladys Thomas, St. Paul
Michael Allen Thrall, Minneapolis

Gerald Leander VanHeel, Minneapolis
Joseph Thomas Vilelli, Rosemount
Jonathan Curtis Weinhold, St. Paul
Shirley Ann Wilcox, Minneapolis
Edward Francis Wilford, St. Paul
Timothy Rex Williams, Minneapolis
James Joseph Witkowski, Minneapolis
Patricia Jane Wolff, St. Paul
Judith Helen Wolner, Ortonville
Cheri O'Neill Woodall, Edina
Mary Kay Wussler, St. Paul

GENERAL EXTENSION DIVISION

Business Administration Certificate

Lee Elmer Vaughan, Minnetonka

Electrical Engineering Technician Certificate

Gordon Graham Adams, Duluth

David Proctor Poate, Minneapolis

Engineering Science Certificate

David Leroy Anderson, Minneapolis
Walter Charles Barnard, White Bear
Lake

William Lawrence Blakeway, St. Paul

Social Work Certificate

Catherine Ann Emmons, Minneapolis
Verna Irene Johnson Hart, Edina
Claire Grace James, St. Paul
Frances Louise N. McDonald, Edina

Thomas Adam Staufenberg, Minne-
apolis
Floyd Thorsen, Minneapolis

Undergraduate Development Certificate in Electrical Engineering — 90 credits

John Peter Pick, Savage

**Undergraduate Development Certificate
in Engineering and Science — 90 credits**

Rodger Conrad Gulmon, Plymouth

**Undergraduate Development Certificate
in Industrial Engineering — 90 credits**

Michael Raymond Fagerberg, Minneapolis

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Susan Marie Anderson, Robbinsdale
Kathleen Joan Armstrong,
Minneapolis

Marylynn Lucille Bujalski, Robbins-
dale

Margaret Lydia Cloak, Red Wing
Susan Gail Dalquist, St. Louis Park
Paula Renee Forsberg, Thief River
Falls

Colleen Roberta Gallagher, St. Paul
Margaret Patricia Hammill, Minne-
apolis

Susan Ann Herzog, Rochester
Carol Lee Hogness, Minneapolis
Sharon Anne Kunerth Hostetler, A.A.,
Chanhassen, WITH DISTINCTION

Jill Irene Hunter Johnson, Minne-
apolis, WITH DISTINCTION

Patricia Arlene Lee, Howard Lake
Cheryl Lee Lindstrom, Minneapolis
Patricia A. Livingston, Rochester

Therese Irene Marchessault, Bloom-
ington

Marcia Zakariasen McCombs,
Hopkins

Barbara Jean McIver, Hopkins
Wanda Weldon Kelly McKee,
Minneapolis

Jane Woodcock Mosher, Edina, WITH
DISTINCTION

Joanne Margaret Nachtsheim,
Minneapolis

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Dana Jean Riggs, St. Cloud

Linda Marie Rygwalski, St. Paul
Valorie Ann Satterstrom, Princeton,
WITH HIGH DISTINCTION

Bonnie Jeanette Schultz, North St.
Paul

Janet Lea Shamp, Minneapolis
Linda L. Skinner, Robbinsdale

Terrel Lee Soderberg, Minneapolis,
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Audrey Jean Thorston, Springfield
Kay Evelyn Thunstedt, Willmar

Carolyn Roberta Voss, St. Paul

Arlynne Wilda Wentzel, St. James
Elisabeth Ann Wenzel, St. Paul

Janet Kaye Wilson Westre, Hazel Run
Anne M. Zietlow, North St. Paul

**COLLEGE OF HOME ECONOMICS AND
COLLEGE OF EDUCATION**

Bachelor of Science

Susan Kay Oswell Behrends, Hastings

Patricia Ann Brandt, A.A., Willmar,
WITH DISTINCTION

Joan Nadine Freathy, Bloomington
Gail Jo Githens, Hutchinson
Lorraine Patricia Dahl Kvistberg,
Coon Rapids, WITH HIGH DISTINC-
TION
Sally Ann Madsen, St. Paul
Darlene Lee Noland, Austin, WITH
DISTINCTION

Arlene Joyce Olson, Montrose
Cynthia Kay Ronning, Farmington
Mary Virginia Strutz, St. Paul, WITH
DISTINCTION
Nita Lorraine Whyte, Roseville, WITH
HIGH DISTINCTION
Mary Katherine Williams, Wayzata

LAW SCHOOL

Juris Doctor

James Harvey Leviton, B.A., St. Paul
Richard Gustav Lindahl, B.A.,
Hopkins
David G. Martin, B.S., College
Springs, Iowa
Richard Albert Moore, Jr., B.A., St.
Paul

Jon Kevin Murphy, B.A., St. Paul
William Allison Neiman, B.A.,
Minneapolis
Lisbeth Jane Nudell, B.A.,
Minneapolis
Jon Edwin Stafsholt, B.A., St. Paul

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Karna Marie Anderson, St. Paul
Russell John Artwohl, West St. Paul
Susan Marie Bodene, St. Paul
Marcus Albert Boehlke, Columbia
Heights
Joanne Laverne Bohlander, New
Brighton
Dale Louise Coleman, Roseville

Marlys Mary Kosik, Minneapolis
Elizabeth Jane Kuck, Chicago, Ill.
Geralee Nancy Matz, Princeton
William David Miller, Minneapolis
James Joseph Pedric, Minneapolis
Merlin Dean Quiggle, Fairmont
Barbara Jeanne Radsom, St. Paul
Evelyn Boyle Wilson, Minneapolis

Bachelor of Arts

*Honors citations are provisional and will not become final until
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Minneapolis
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Joseph D. Avent, Pittsburgh, Pa.

Ralph Colt Bagley III, Wayzata
Elaine Grey Baillie, White Bear Lake
Judith Marie Bang, Minneapolis
Susan Claire Beerhalter, Duluth,
MAGNA CUM LAUDE, English
Alberta Louise Bell, Brainerd, MAGNA
CUM LAUDE, Anthropology

John Donald Bengtson, A.A., Minneapolis, CUM LAUDE, Scandinavian
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 John Paul Berg, Lake Elmo
 Joel Fredrick Berger, Minneapolis
 Allan Lee Bjorklund, Osakis
 Alan Jay Bleyer, Minneapolis
 Thomas Arthur Bliss, Burnsville
 William Keith Boerner, Minneapolis
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 Kathleen Webster Brooke, Minneapolis
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 Patricia Ann Brothen, Minneapolis
 Rosemary Lee Bruggeman, A.A., Thief River Falls
 Marvin Hans Burmeister, A.A., Minneapolis
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 Peter Lynn Carlson, Edina
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 Margaret Ellen Cawley, Waseca
 Andrea Lyn Cepress, St. Paul
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 Rocci Patrick Contardo, Duluth
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 Myron Henry Creager, A.L.A., St. Paul
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 James Robert Doran, Minneapolis
 Sylvia Carolyn Dornquast, Owatonna
 June Vera Druley, Minneapolis
 Katherine Ann Drummond, Oak Lawn, Ill.
 Edward James Drury, LL.B., Wabasha
 Bodo Richard Dumke, St. Paul
 Daniel J. Durda, Excelsior
 T. Alan Dwyer, Mill Valley, Calif.
 Brian Blake Dyball, St. Paul
 Pamela Newsome Edstrom, Minneapolis
 Thomas Edward Edstrom, White Bear Lake
 Charles Rudolph Ek, Minneapolis
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 Robert Lee Elvin, Minneapolis
 Claudia Jane Engwall, Minneapolis
 Sally-Jo Enstad, Hopkins
 Richard Allan Erickson, Minneapolis
 Helen Constance Esco, Minneapolis
 Donna Marie Etienne, St. Paul
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 Robert Lawrence Fiedler, St. Paul
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 Stephen Robert Fisher, Minneapolis
 Vicki Elizabeth Fleury, Excelsior
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 Janet Hohncke Focht, St. Paul
 Irene Foster, Minneapolis
 Jean Anne Freeman, Grand Rapids
 John Truman Gardner, White Bear Lake
 Collin Michael Gau, Pierz

Gail Elizabeth Gendler, Albert Lea
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 S.D.
 Marlene Gibas, Isle
 David Edwin Giese, St. Paul
 Kristen Anne Gilbertson, Mahtomedi
 Rolf Edward Gilbertson, Minnetonka,
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 Susan Jo Thompson Gold,
 Minneapolis
 James Lowell Goltz, Squaw Lake
 Andrew J. Goodman, Minneapolis
 Gregory Lee Gordon, Albert Lea
 John Russell Greaser, Telford, Pa.
 Clyde Robert Green, A.A., Edina
 James Paul Grove, Minneapolis
 Dennis Lee Guertin, White Bear Lake
 Anita Louise Haemig, Minneapolis
 Anne Carol Haga, Minneapolis
 Stephen Jay Hammel, St. Paul
 Stephen Charles Hammond, St. Paul
 Mary Frances Hanrahan, St. Louis
 Park
 William Arthur Hansen, Robbinsdale
 Fred Abbott Haskell, St. Louis Park
 Marc Alan Haskovitz, Minneapolis
 Marne Beth Heim, Minneapolis
 Richard James Heinz, Prior Lake
 Alan Dempster Henaman,
 Minneapolis
 Roman Michael Hendrickson, Largo,
 Fla.
 Holly Lynn Highfield, A.L.A., Edina
 Louis Fors Hill, St. Paul
 William Craig Holm, St. Paul
 Tometro Hopkins, Minneapolis
 Judith Ann Howard, New Brighton,
 SUMMA CUM LAUDE, *Theatre*
 George Kenneth Hoyum, Cloquet
 Patricia Heaton Hulin, South St. Paul
 Stephen Forrest Hutchinson, Duluth
 Steven Clifford Isaacson, Minneapolis
 Daniel John Jacobson, Hopkins
 Ellen Lewis James, St. Paul, cum
 LAUDE, *Spanish*
 Timothy Frank James, Bloomington
 Linda Elise Jaspersen, Minneapolis
 Eileen Jeanette Johnson, Sherburn
 Gary Raymond Johnson, Minneapolis
 Joyce Michele Johnson, Minneapolis

Merry Elizabeth Lewis Johnson,
 Minneapolis
 Phillip Edmond Johnson, Anoka
 Susan Kay Johnson, Richfield
 Terrence Kevin Johnson, Minneapolis
 Timothy Leonard Johnson, White
 Bear Lake
 Susan Gail Jorgenson, Ellendale
 Robert Harold Kaitz, St. Paul
 Nicholas Kane, A.A., St. Paul
 Dean Barry Kaner, Minneapolis
 Nancy Anne Kasner, Minneapolis,
 CUM LAUDE, *Art History*
 Juliana Marie Kehoe, Minneapolis
 Stephen Charles Keister, Minneapolis
 Mary Lee Kelly, Moorhead
 Michael Adrian Kline, Minneapolis
 George Juri Klosinski, Minneapolis
 William Gregory Kohlmann, South
 St. Paul
 Bennett Hugh Krelitz, Minneapolis
 John Clarence Kuehn, Minneapolis
 Alexandra Kulijewicz, Minneapolis
 Theresa Anne LaBat, Minneapolis
 Trudy Lampert, Edina
 Dennis Lang, St. Paul
 Stephanie Anne Lawson, Minneapolis
 Carmen Terry Lee, Minneapolis
 Stephen George LeMoine,
 Minneapolis
 Duane Darrell Lengsfeld, Inver Grove
 Heights
 Ernest James Myron Lepore, A.A.,
 Minneapolis
 Thomas Olaf Lien, Minneapolis
 Bruce Lee Lindquist, Minneapolis
 Arlene Londer, St. Paul
 Laura Elizabeth Lund, Minneapolis
 Michael Eugene Madson, St. Paul
 Robert Walter Mandybur,
 Minneapolis
 Catherine Anne Marienau,
 Montevideo
 Josephine Anna Masanz, St. Paul
 Edward William Mathewson,
 Burnsville
 Elizabeth Anne Mauri, Lake Elmo,
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 Robert Bruce May, Golden Valley
 Diana Hopkins Mayer, Minneapolis

Jeffrey Fredrick McCullough, Minneapolis
 Timothy Lee McDaniels, Spring Lake Park
 Robert Allen McGlynn, Minneapolis
 Patrick John McLaughlin, Minneapolis, MAGNA CUM LAUDE, *English*
 Luranne McLean, Duluth
 James Andrew McRae, Jr., St. Paul
 Karel Anne Meierding, Missoula, Mont.
 Arthur Frederick Meincke, Lake City
 Luis Rafael Gomez Mejia, Merino, Dominican Republic, SUMMA CUM LAUDE, *Economics*
 Kerry Randal Mildon, Minneapolis
 Mark Rudnick Miller, Edina, SUMMA CUM LAUDE, *Political Science**
 Barbara Susan Moos, A.A., Wayzata
 Mark Robert Morrison, Excelsior
 Laurel May Murphy, St. Paul
 Daniel Andrew Nagy, New York, N.Y.
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 Debora Jean Olsen, St. Paul
 Georgianne Jean Olson, St. Paul
 Marilyn Jean Olson, Minneapolis
 Kathlyn Thompson Oltmans, Boulder, Colo.
 James Paul Ondik, Minneapolis
 George Elmer Paajanen, Minneapolis
 Judith Ann Palmer, Minneapolis
 John Robert Pattee, Golden Valley
 Bruce Carl Paulus, South St. Paul
 Thomas John Perrizo, Benson
 Diana Lynn Pinkston, Rochester
 Rita Jansevics Plesums, Spooner, Wis.
 Janet Olsen Poeschl, Duluth
 John Graham Pogalz, St. Paul
 Lois Jeanette Pogin, St. Paul
 Thomas Gordon Poole, Minneapolis
 Cristine Lee Pribble, Bloomington
 Jeri Lynne Price, Minneapolis
 Gerald Allen Proskin, Minneapolis, CUM LAUDE, *Interdepartmental*
 Dale Phillip Putrah, Blue Earth
 Sara Jo Qualey, Goshen, Ind.
 Pamela Benson Quist, Minneapolis
 Donna Mae Ramsey, St. Paul
 Pamela Elaine Ramsey, Tracy
 Thomas Paul Rasmussen, St. Paul
 Fredrick Michael Raumer, Minneapolis
 Federico Rescigno, Minneapolis
 Betty Jean Riess, New Ulm
 Toni Kae Ristau, Aberdeen, S.D.
 Ann Margaret Rivard, Richfield
 Alberto Miguel Rivera-Gutierrez, Bogotá, Colombia, SUMMA CUM LAUDE, *Humanities*
 Arlene Joan Robinson, Minneapolis
 Beverly Ann Robinson, Gaylord
 Clarissa Mae Rogers, A.L.A., Minneapolis
 Stanton Terry Rosen, Minneapolis
 Janet Mary Rosenthal, Columbia Heights
 Lily E. Rothschild, A.A., St. Paul
 Virgil Klaus Saari, Embarrass
 Marsha Kay Samways, Rochester, MAGNA CUM LAUDE, *Anthropology*
 Mary Elizabeth Sanders, Minneapolis
 John Jay Sandgren, Robbinsdale
 Mary Gorman Sandve, Minneapolis
 Bruce A. Saunders, St. Paul
 Norma Harris Schanfield, Excelsior, SUMMA CUM LAUDE, *English*
 Clara Louise Schmit, North Mankato
 Carolyn Diana Schmitz, Minneapolis
 Mary Ellen Seiwert, Minneapolis
 William Faulds Shenk, Wayzata
 Burkhard Ruediger Sherva, Minneapolis

* Degree conferred as of June 12, 1971.

Jeffrey Mark Silesky, B.A.,
 Minneapolis
 Alan Irving Silver, St. Louis Park,
 CUM LAUDE, Journalism
 Diane Sue Sjerven, St. Louis Park
 Daniel Laverne Sjodin, Aitkin
 James Kenneth Smith, St. Paul
 George M. Soldatow, Minneapolis
 Jeanne Margaret Soleim, Duluth
 Deborah Rose Sommer, St. Louis
 Park, MAGNA CUM LAUDE, Japanese,
 and CUM LAUDE, Humanities
 David Edward Sonnenburg, Esko
 John Bernhard Sorum, A.A., Remer
 Diane Marie Soshnik, Delano
 Dennis W. Southward, Minneapolis
 Gregory Harlan Staber, Minneapolis
 Michael David Stadtherr,
 Minneapolis
 Laura Marie Starkey, Burnsville
 Dana Marie Steele, St. Paul
 Alan Lee Steiner, South St. Paul
 Gary Lewis Sticka, Richfield
 John C. Straiton, Minneapolis
 Peter Vincent Strand, Minneapolis
 Harold Albert Strandquist, St. Paul,
 CUM LAUDE, Economics
 Janean Ann Strong, Geneva, Switzer-
 land
 Kathryn Ann Swan, West St. Paul
 Gregory Herbert Swanson, St. Paul
 Judith Parker Tenner, Minneapolis
 Terry Allan Thomas, Clinton, Iowa
 James Richard Thury, St. Paul
 Susanne Tillotson, Thomson, Ill.

John Patrick Tittle, St. Paul
 John Alfred Torgerson, Bagley
 Kathryn Elizabeth Torrance, Richfield
 Barbara Mary Turning, St. Paul
 Barbara Joan van der Hagen, Bird
 Island
 Cynthia Van Winkle, Albert Lea
 Susan Alice Wachter, Rosemount
 Walter William Wagner, Roseville
 Sara Emilie Wahl, Lake Elmo
 Terrence Michael Walters, A.A.,
 Rochester
 Krisandra Kae Wamsley, Sioux Falls,
 S.D.
 Roger Thomas Watland, Minneapolis
 Lee James Weiss, Blaine
 John James Welch, Jr., Minneapolis
 Merry Lynn Whipple, St. Paul
 Patricia Jean Whiting, Moorhead
 Julie Louise Whitney, Minneapolis
 William Faxon Whorf, Minneapolis
 Dennis Michael Wiggin, St. Paul
 Lisa Ann Wilkinson, St. Paul
 Gregory Adrian Winkel, St. Paul
 Charles Seward Winship, St. Paul
 Park
 Emmett Francis Winter, A.A., Edina
 Ellen Jane Wirt, Hastings
 Michael John Wozniak, Zimmerman
 Peter Cleary Yeager, Golden Valley
 Mario Yepes-Lopez, Cali, Colombia,
 MAGNA CUM LAUDE, Economics
 Anita Zasters, Minneapolis
 Larry Allen Zavadil, Glenwood
 James Joseph Zender, A.A., St. James

Bachelor of Fine Arts

Raymond Hupy Allard, Minneapolis
 Joanne Christine Edstrom,
 Minneapolis
 Kay Margaret Rose Erickson, A.A.,
 Minneapolis
 Mark Edward Jensen, Minneapolis,
 MAGNA CUM LAUDE, Studio Arts
 Evonne Clarice Lindberg, Thief River
 Falls

Linda Kay Medcalf, Richfield, MAGNA
 CUM LAUDE, Studio Arts
 Thomas William Miller, Minneapolis
 Lois D. Roffers Pearson, B.S., Cannon
 Falls
 Carol June Stuber, Shakopee
 James Joost Tidwell, B.S., Minneapolis

MEDICAL SCHOOL

MEDICINE

Bachelor of Science

Robert Allan Coates, Grand Forks,
N.D.

Richard Marc Levinson, Minneapolis

Roger Alan Ralston, Virginia
Michael Scott Zlonis, Duluth

MORTUARY SCIENCE

Associate in Mortuary Science

Timothy Joe Crouch, Cleveland, Ohio

Bachelor of Science

Ronald Lee Bewley, Bemidji

Douglas Dennis Bruch, Kenosha, Wis.

Michael Grail Butler, Hastings, Neb.

Kenneth John Carlson, Jr., Grand
Rapids

Timothy Joe Crouch, Cleveland, Ohio

Karan Skipworth Erdman, Mott, N.D.

Thomas Glenn Griffin, Pontiac, Mich.

David Nelson Heald, Springvale, Me.

Michael William Schutz, Madison,
Wis.

Douglas William Schwartz, Bemidji,
WITH HIGH DISTINCTION

Charles Edward Torgerson, Black
River Falls, Wis., WITH DISTINCTION

Dexter Frank Yates, A.M.S., Coeur
d'Alene, Idaho, WITH DISTINCTION

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Katherine C. L. Goodman, B.S.,
M.D., St. Paul

Alfred George Lustig, B.S., Milwau-
kee, Wis.

Ivan R. Venero, B.S., Aragua,
Venezuela

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Mark Carl Albu, South St. Paul, WITH
DISTINCTION

Glenn Harvey Dalman, Minneapolis,
WITH DISTINCTION

Duane Enniss Gasser, Jr., Sauk Rapids

Richard Charles Keyt, St. Louis Park
Thomas Raymond Perkins, Red Wing

Roger Allen Schert, Coon Rapids
David Bennett Yanke, Ellendale,

WITH DISTINCTION

Bachelor of Architecture

Peter Mark d'Entremont, Feasterville, Pa., WITH DISTINCTION	Terry John Lamb, Neenah, Wis.
Gregory Allen du'Monceaux, Foley	Luc Olivier Masiee, Paris, France
Randy L. Engel, B.A., Minneapolis	John Rahn Natwick, Burnsville
John Bennett Axel Idstrom II, B.A., Edina	William David O'Malley, Minneapolis
Bruce Alan Jilk, Winona	David M. Ostreim, A.A., Minneapolis
Philip Arthur Johnston, East Greenwich, R.I., WITH HIGH DISTINCTION	James Nicholas Ruehl, Menomonie, Wis.
	John Francis Sanger, B.A., Bird Island
	Bruce Alan Tackman, Red Wing

Bachelor of Chemical Engineering

Vasudev Badrinath, Hyderabad, India	Hubert Harm Huls, Minneapolis
James Earl Colten, St. Paul, WITH DISTINCTION	Mark Allan Lorberbaum, Minneapolis

Bachelor of Chemistry

Upama Manubhai Patel, Ahmedabad, Gujarat, India, WITH DISTINCTION	Mark Alan Saliterman, Golden Valley
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Bachelor of Civil Engineering

John Howard Carlson, Duluth	Douglas Rodney McArthur, Minneapolis
Robert Allen Curtis, New Brighton	Kenneth Russell Meister, Stillwater
Steven Dale Koenes, Fulton, Ill.	Thomas Dale Montgomery, St. Croix Falls, Wis., WITH DISTINCTION
Norman Wayne Korhonen, Kelly Lake, WITH HIGH DISTINCTION	Richard Joseph Pilon, A.A., Minneapolis
Ray Louis Krans, Duluth	Jerome Richard Sivertson, Marshall
Min-Lung Kuo, B.A., Pintung, Taiwan, WITH HIGH DISTINCTION	Rex Carlton Stromquist, Hopkins
Gary Robert Lake, Minneapolis	Jon Davis Weller, Chaska
Arthur Douglas Larson, Bemidji	Michael Wayne Zippa, Argyle, WITH DISTINCTION
William Ernest Lischeid, Canandaigua, N.Y.	
Philip Oren Martinson, Alexandria, WITH HIGH DISTINCTION	

Bachelor of Computer Science

Terrence Allan Ethen, St. Paul	Cheryl Louise Nygaard, Superior, Wis.
Donald James Isler, Anoka	

Bachelor of Electrical Engineering

Steven James Anderson, Richfield
Dennis Albert Dingmann, Richmond,
WITH DISTINCTION
Thomas Carol Erickson, Overland
Park, Kan., WITH DISTINCTION
David Tak-Wai Fu, Hong Kong
Dennis Lee Getter, St. Paul
Robert Paul Groschen, Jr., St. Paul
Michael Francis Hammer, Alexandria
James Allen Hansen, Owatonna

Jay Robert Loberg, Buffalo
Michael Dennis Logan, Minneapolis
Sheldon William Mains, Minneapolis,
WITH DISTINCTION
Gary Lamont Nereson, Thief River
Falls
James Stuart Odmark, Mound, WITH
HIGH DISTINCTION
Robert John Vensas, Anoka

Bachelor of Geo-Engineering

Michael Allan Gilgosch, Bloomington

Bachelor of Landscape Architecture

Gary Martin Lampman, Rochester,
WITH DISTINCTION

Bachelor of Mathematics

David I. Bergum, Jr., Duluth, WITH
DISTINCTION
George Andrew Elfner, Richfield

David Carl Johnson, North St. Paul
Robert John Sukovich, Hoyt Lakes

Bachelor of Mechanical Engineering

Larry Alan Aalbers, Minneapolis
William Howard Anderson, Hibbing
Ward Allen Blandin, Edina
Robert Wenzel Brosch, Minneapolis
John Haines Burklund, Minneapolis
Duane Lee Ducommun, Anoka, WITH
DISTINCTION
Donald Paul Gabrielson, Minneapolis
Earle Arnold Gangestad, A.A.,
Brainerd
Michael John Hangege, St. Paul
Richard Lloyd Kirkeeide, Hopkins
Yuentsing Virginia Lee, Hong Kong
Phillip Stephen Lucachick, Interna-
tional Falls
James William Luke, Eveleth
H. Michael Lutgen, Osakis
Richard Henry Martin, A.A.,
Minneapolis
Steven Robert McNattin, A.A.,
Urbana, Ill.

John Edward Moriarty, B.A., St. Paul
Frederick William Niebuhr, Albert
Lea, WITH DISTINCTION
Daniel Arthur Oas, Hopkins, WITH
DISTINCTION
Kenneth Eino Oja, A.A., Buhl
James Patrick Olson, Mound
David John Peterson, A.A., Brainerd
Timothy Boyd Phillips, Ellendale,
WITH DISTINCTION
Michael Prijatel, Ely, WITH DISTINC-
TION
Michael John Pudil, Hopkins
David Clyde Rembold, Bloomington
Allen James Rivard, Argyle
Steven Wayne Skadsberg, Duluth,
WITH DISTINCTION
William Lee Sloneker, Cyrus
Gary Glenn Steele, St. Paul
Richard Edmund Zawacki, South St.
Paul

Bachelor of Physics

John Owen Christoffel, St. Paul
Stephen Lindfors, Minneapolis

Patrick Allen Mazorol, Bloomington

Certificate in Science

Claude Daniel Buettner, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Mary Ellen Gingrass, St. Louis Park
Charles Franklin McCarter,
Minneapolis

David Allan Webber, St. Paul

Bachelor of Science

Julie Helen Abrahamson, St. Paul
Darrell Jeffrey Brand, Minneapolis
Janelle Elaine Chorzempa,
Minneapolis
Kathleen Rae Gooch, G.D.H.,
Minneapolis
Pamela Ann Lanoue, Marshall

Gary Everett Pomerleau, Minneapolis
Robert James Pratt, Minneapolis
Gregory Lawrence Reichter,
Minneapolis
Sharon Marie Schroeder, Litchfield,
WITH DISTINCTION

Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Thomas C. Erickson, Overland Park, Kan. Richard C. Keyt, Chesterfield, Mo.

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Adjutant General Corps

Dale E. Gandrud, Owatonna

Second Lieutenant, Corps of Engineers

James S. Ferris, Duluth

Second Lieutenant, Field Artillery

Douglas E. Frykholm, White Bear Lake

Second Lieutenant, Infantry

Paul L. Christianson, Austin
Alan L. Murray, St. Louis Park

George E. Paajanen, Minneapolis

Second Lieutenant, Transportation Corps

Thomas E. Edstrom, White Bear Lake

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Patrick M. McClellan, Mound

Ensign, USNR

Dallas G. Olson, Buffalo Center, Iowa

Second Lieutenant, USMC

Russel Clyde Colten, Silver Bay

Academic Costume

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

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

At commencements degree candidates wear the gowns for the degrees they are about to receive. Hoods are worn only by those who already possess degrees. Anyone who has a University of Minnesota degree may wear the Minnesota hood — black with a maroon chevron on gold. The length and shape of a hood identify the most advanced degree its wearer has earned, and the hood's velvet edging shows the degree's field: dark blue for philosophy, light blue for education, green for medicine, lilac for dentistry, orange for engineering, russet for forestry, drab for business, olive green for pharmacy, purple for law, gray for veterinary medicine, golden yellow for science, white for liberal arts and letters.

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

College of Agriculture	maize
College of Biological Sciences	golden yellow
School of Business Administration	drab
School of Dentistry	lilac
College of Education	light blue
College of Forestry	maize
General College	crimson and white
General Extension Division	orange and drab
College of Home Economics	maize
Law School	purple
College of Liberal Arts	white
Medical School	green
School of Nursing	green
College of Pharmacy	olive
School of Public Health	green
Institute of Technology	orange
University College	old gold and white
College of Veterinary Medicine	gray
Graduate School	black

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

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

President's Reception

DECEMBER, 1971

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.

President and Mrs. Moos will be in the receiving line with other University guests.

Assisting in the Reception are students and staff members of the Department of University Relations.

Additional copies of this program are available from the Department of University Relations, S-68 Morrill Hall, University of Minnesota, Minneapolis, Minnesota 55455.

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