



UNIVERSITY OF MINNESOTA

March Commencement, 1970

SATURDAY EVENING, MARCH 21, 7:30 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

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

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

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

The Honorable Fred J. Hughes, St. Cloud

The Honorable George W. Rauenhurst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Mr. James F. Hogg, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and nineteenth 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 218,215 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 45,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the State by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the State in their own homes.

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

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

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

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

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

As it meets the needs of present students, the University must also make plans for those of the future. The 50,145 students who enrolled at the University at the beginning of the 1969-1970 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

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

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

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

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

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and par-

ticipates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds.

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.

Beard, U.S.A., Professor of Military Science; Captain Walter T. Broughton, U.S.N., Professor of Naval Science; Colonel Frederick J. Adelman, U.S.A.F., Professor of Aerospace Studies; Mr. Fred Nylina, M.A., Department of Music, Soloist; Professor Robert M. Jordan, Ph.D., Institute of Agriculture, Marshal; and Professor Nelson T. Spratt, Ph.D., College of Biological Sciences, Marshal.

PRESENTATION OF COLORS: As the Color Guard, made up of University Army, Navy, and Air Force ROTC Cadets and Midshipmen, enters the Auditorium, the audience will rise and will remain standing for the National Anthem and for the Invocation. The Concert Band will play.

THE NATIONAL ANTHEM: The audience and Mr. Nylina.

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

INVOCATION: Reverend Steckel.

SPEAKING FOR THE UNIVERSITY: President Moos.

COMMENCEMENT ADDRESS: Dr. McElroy.

CONFERRING OF DEGREES: President Moos will confer certificates and degrees.

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

CONFERRING OF OTHER GRADUATE SCHOOL DEGREES: President Moos will confer the degrees upon the graduates. Dean Crawford will present the candidates to President Moos.

PRESENTATION OF DIPLOMAS: Vice President Shepherd will introduce the college deans or their representatives who will present the candidates for diplomas. (Candidates from the colleges will pass across the stage to receive their diplomas.) Vice President Shepherd will present Dean Vaughan for the General College; Dean Ziebarth for the College of Liberal Arts; Associate Dean Benson for the University College; Dean Caldecott for the College of Biological Sciences; Associate Dean Swalin for the Institute of Technology; Professor

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 Bells being played from Northrop Memorial Auditorium by Mr. Rick Allen Berg, College of Education '70. Admission to the March Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the colors are presented.

PRELUDE CONCERT: From 7:00 to 7:15 p.m., Associate Professor Frank Benciscutto, Bandmaster and Director of University Bands, Department of Music, will direct the University of Minnesota Concert Band.

Suite of Old American DancesRobert Russell Bennet
March InvercargillAlex Lithgow
Overture for WindsCharles Carter

PROCESSION: Candidates for degrees will be seated from 7:15 to 7:30 p.m. At 7:30 p.m., Professor Gordon I. Swanson, Ph.D., College of Education, Faculty Marshal, will carry the Mace into the Auditorium, concluding the arrival of the academic procession of candidates for degrees. Marshal Swanson, as Mace-Bearer, will present the Mace at the center of the stage. He will put the Mace in its cradle to signal the beginning of the ceremony. The Concert Band will play:

Proud Heritage MarchWilliam Latham

ON THE STAGE: Seated on the stage from left to right are Marshal Swanson; Professor W. Edwin Emery, Ph.D., School of Journalism, Marshal; Dean Lawrence C. Weaver, Ph.D., College of Pharmacy; Dean Richard S. Caldecott, Ph.D., College of Biological Sciences; Associate Dean Richard A. Swalin, Ph.D., Institute of Technology; The Reverend Clyde Steckel, Ph.D., United Campus Christian Fellowship; Recorder W. Donald Beatty, Ph.D., Admissions and Records; Assistant Dean Charles H. Mannel, M.A., School of Business Administration; Dean Robert J. Keller, Ph.D., College of Education; The Honorable George Rauenhorst, Regent of the University of Minnesota; Dean Bryce Crawford, Jr., Ph.D., Graduate School; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Dr. William D. McElroy, Ph.D., Director, National Science Foundation, Washington, D.C.; President Malcolm Moos, Ph.D., University of Minnesota; Vice President William G. Shepherd, Ph.D., Academic Administration; Associate Professor Isabel Harris, Ph.D., Acting Dean of the School of Nursing, College of Medical Sciences; John A. Gooding, Ph.D., Director of Resident Instruction, College of Agriculture, Forestry, and Home Economics; The Honorable Neil C. Sherburne, Regent of the University of Minnesota; Dean Alfred L. Vaughan, Ph.D., General College; Associate Dean F. T. Benson, Ph.D., University College; Colonel William D.

Beard, U.S.A., Professor of Military Science; Captain Walter T. Broughton, U.S.N., Professor of Naval Science; Colonel Frederick J. Adelman, U.S.A.F., Professor of Aerospace Studies; Mr. Fred Nylina, M.A., Department of Music, Soloist; Professor Robert M. Jordan, Ph.D., Institute of Agriculture, Marshal; and Professor Nelson T. Spratt, Ph.D., College of Biological Sciences, Marshal.

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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?
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O, say, does that star-spangled banner yet wave
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Gooding for the College of Agriculture, Forestry, and Home Economics; Dean Keller for the College of Education; Assistant Dean Mannel for the School of Business Administration; Dean Weaver for the College of Pharmacy; and Acting Dean Harris for the College of Medical Sciences.

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

HAIL! MINNESOTA: The University's Alma Mater sung by the audience and Mr. Nylind.

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

RECESSIONAL: The Concert Band will play.

Finale from Symphony VIWidor

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

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

Candidates for Graduation

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

Charles Edward Harwood, St. Paul
B.A. '56, Moorhead State College; M.A. '57, University of Minnesota. Major: Educational Administration. Minor: Education. Project: Legal Trends in Relation to the Dismissal of High School Students. Major Adviser: Prof. C. P. Hooker.

Doctor of Philosophy

John Edward Adams, Duluth

B.A. *cum laude* '58, M.A. '60, University of Minnesota. Major: Geography. Minor: Anthropology. Thesis: Marine Industries of the St. Vincent Grenadines, West Indies. Major Adviser: Prof. J. O. M. Broek.

Norton Douglas Addy, St. Paul

B.A. '61, M.A. '63, San Jose State College. Major: Entomology. Minor: Biochemistry. Thesis: A Study of the Biochemical and Cytological Changes that Occur in Male Spruce Budworm (*Choristoneura fumiferana* [Chem.]) Pupae Following Treatment with Tepas. Major Adviser: Prof. A. G. Richards.

Ronald Newell Bagley, Salt Lake City, Utah

B.S. with honors '62, University of Utah; M.S. '68, University of Minnesota. Major: Business Administration. Minor: Law. Thesis: Federal Income Taxation of Selected Foreign Corporations. Major Adviser: Prof. R. G. Berryman.

Ronald Wilde Barrett, Minneapolis

B.A. *magna cum laude* '62, Gustavus Adolphus College; M.S. '66, University of Minnesota. Major: Wildlife. Minor: Botany. Thesis: Behavior of Ruffed Grouse During the Breeding and Early Brood Rearing Periods. Major Adviser: Prof. W. H. Marshall.

Signe Tronborg Betsinger, North St. Paul

B.S. '53, Iowa State College; M.A. '59, University of Minnesota. Major: Home Economics. Minor: Supporting Program. Thesis: Danish Design Influences in Housing and Home Furnishings in a Selected Community in Southwest Iowa. Major Adviser: Prof. Gertrude Esteros.

Pierre Albert Beynet, Grenoble, France

D'Ingenieur '66, Universite de Nantes; M.S. '68, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Plastic Plate Impact Without Perforation. Major Adviser: Prof. Robert Plunkett.

David Charles Black, Minneapolis

B.Phys. '65, M.S. '67, University of Minnesota. Major: Physics. Minors: Mathematics and Electrical Engineering. Thesis: Trapped Helium, Neon and Argon in Meteorites: Boundary Conditions on the Formation and Evolution of the Solar System. Major Adviser: Prof. R. O. Pepin.

Frederick Harold Borgen, Red Wing

B.A. '63, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Taxonomic Analysis of Occupational Environments: A Comparison of Three Grouping Methods. Major Adviser: Prof. R. G. Warnken.

Dimitrios Nicholaos Bougalis,
Athens, Greece

B.E.E. '63, M.S.E.E. '68, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Space Charge Limited Solid State Devices. Major Adviser: Prof. Aldert van der Ziel.

James Howard Bridges, Hopkins

B.A. '53, M.A. '57, M.S.W. '57, University of Minnesota. Major: Social Work. Minor: Supporting Program. Thesis: Job Purification and Job Satisfaction in Social Welfare. Major Adviser: Prof. J. C. Kidneigh.

Thomas Barton Brill, St. Louis, Mo.

B.S.Chem. with honors '66, University of Montana. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Studies in Nuclear Quadrupole Resonance Spectroscopy. Parts I, II, and III. Major Adviser: Prof. Z. Z. Hugus.

Banvir Singh Chaudhary, Baraut,
India

B.S. '61, Agra University; M.S. '63, Rajasthan University. Major: Physics. Minor: Mathematics. Thesis: Pion Nucleon Interactions in Deuterium at 3.65 GeV/c. Major Adviser: Prof. H. W. Courant.

Woo Hyun Chyung, Incheon, Korea

B.S. '56, Chonnam National University; M.A. '66, New Mexico State University. Major: Agricultural Education. Minor: Horticulture. Thesis: A Study of Vocational Agriculture Student Teaching in the Central Region. Major Adviser: Prof. M. J. Peterson.

Robert Lloyd Cliplef, Minneapolis

B.S. with distinction '60, M.S. '63, University of Minnesota. Major: Animal Science. Minor: Veterinary Pathology. Thesis: Effects of Level of Feed Intake, Breeding Group and Sex on Quantitative Aspects of Pork Quality. Major Adviser: Prof. L. E. Hanson.

David Brian Coates, Harper, Wash.

B.A. '65, Stanford University. Major: Child Psychology. Minor: Psychology. Thesis: Interrelations in the Attachment Behavior of 10- and 14-month Old Human Infants. Major Adviser: Prof. W. W. Hartup.

Louis Sayles Cohen, Bloomington

B.A. '50, M.Ed. '51, University of California, Los Angeles. Major: Curriculum and Instruction. Minor: Educational Psychology. Thesis: An Investigation of the Effectiveness of Certain Scheduling Procedures on Mathematical Achievement of Junior High School Pupils. Major Adviser: Prof. R. L. Jackson.

Leonila Alzate Corpuz-Raros,
Isabela, Philippines

B.S.A. '61, M.S. '64, University of the Philippines. Major: Entomology. Minor: Supporting Program. Thesis: A Revision of the North American *Capitophorus* Vander Goot and *Plectrichophorus* Börner (Homoptera: Aphididae). Major Adviser: Prof. E. F. Cook.

Paul Francis Curnow, Cumberland,
Wis.

B.A. '65, Macalester College. Major: Psychology. Minor: Supporting Program. Thesis: Integration of Linguistic Materials. Major Adviser: Prof. J. J. Jenkins.

Gary Ronald Currie, Council Bluffs,
Iowa

B.S. '54, Colorado State College; B.F.T. '58, American Institute for Foreign Trade; M.A. '62, University of Omaha. Major: History. Minor: Area Studies. Thesis: Latin America and the Era of Disarmament: The First Stage, 1920-1925. Major Adviser: Prof. W. D. Beatty.

Bruce Estin Cutler, Chicago, Ill.

B.S. '64, City College of New York. Major: Entomology. Minor: Supporting Program. Thesis: A Taxonomic Revision of the Genus *Consingis* Simon, 1900 (Salticidae: Araneae). Major Adviser: Prof. E. F. Cook.

Robert John Desnick, Minneapolis

B.A. '65, University of Minnesota. Major: Genetics. Minor: Supporting Program. Thesis: Biochemical and Genetic Studies of Glycolipid Lipidosis: Fabry's Disease. Major Advisers: Profs. S. C. Reed and William Krivit.

Robert Bruce Elo, Minneapolis

B.Met. '63, M.S.Met.Eng. '66, University of Minnesota. Major: Metallurgical Engineering. Minor: Supporting Program. Thesis: A Thermochemical Study of the Defect Structure of Barium Oxide. Major Adviser: Prof. R. A. Swalin.

Leslie Hirao Fuchigami, Lanai City,
Hawaii

B.S. '64, University of Hawaii; M.S. '66, University of Minnesota. Major: Plant Physiology. Minor: Plant Pathology. Thesis: The Environmental, Physiological and Chemical Control of Cold Hardiness in *Cornus stolonifera* Michx. Major Adviser: Prof. C. J. Weiser.

Earl William Gierke, Menomonie,
Wis.

B.S. with high distinction '51, M.A. '59, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Effect of Using Object Versus Non-object Illustrations in Teaching Programming Concepts for Digital Plotters. Major Adviser: Prof. H. F. Nelson.

Samuel Salimbangon Go, Kabacan,
Cotabato, Philippines

B.S.Agr.Ed. *magna cum laude* '57, M.S.Agr.Ed. '64, California State Polytechnic College. Major: Agricultural Education. Minor: Agricultural Economics. Thesis: Farm Business Management Training Needs of M.I.T. Graduates Teaching Elementary Agriculture in Cotabato, Philippines. Major Advisers: Profs. M. J. Peterson and T. R. Nodland.

John Kaska Hanes, Silver Spring, Md.

B.S.A. '55, M.S.A.E. '57, Louisiana State University and A. and M. College. Major: Agricultural Economics. Minor: Economics. Thesis: A Price Approach to Market Performance in the Red River Valley Potato Market. Major Adviser: Prof. D. C. Dahl.

Leland Laverne Hardman, Hot
Springs, S.D.

B.S.Ed. *cum laude* '61, Nebraska State Teachers College; M.S. '65, Oklahoma State University. Major: Plant Physiology. Minor: Botany. Thesis: The Effects of Some Environmental Conditions on Flower Production and Pod Set in Soybean (*Glycine Max* [L.]) Major Adviser: Prof. W. A. Brun.

Jerry Dean Hawton, Redwood Falls

B.S. '64, M.S. '68, University of Minnesota. Major: Animal Science. Minors: Physiology and Biochemistry. Thesis: Influence of Quantity and Quality of Protein Fed The Gravid Female on Reproductive Performance and Development of Offspring in Swine. Major Adviser: Prof. R. J. Meade.

George Leonard Hedin, Two Harbors

B.S. with high distinction '65, M.S.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Adaptive Nonparametric Reception of Weak Signals in Unknown Nonstationary Environments. Major Adviser: Prof. R. F. Lambert.

Dale Davis Huffington, Minneapolis

B.A. '57, Oberlin College; M.A. '63, Temple University. Major: Theatre. Minor: Supporting Program. Thesis: Post-Existentialist Thought in America Avant-Garde Drama. Major Adviser: Prof. A. H. Ballet.

Clyde Hurst, Helper, Utah

B.S. '63, M.S. '65, Utah State University. Major: Plant Physiology. Minor: Biochemistry. Thesis: The Effect of Light on Nitrogen Metabolism in Germinating Soybean Seeds. Major Adviser: Prof. T. W. Sudia.

Nematallah Naguib Ibrahim,
Alexandria, Egypt

B.Com. '60, Universite D'Alexandrie; M.A. '63, University of Minnesota. Major: Economics. Minor: Supporting Program. Thesis: A Comparison of the Economic Returns to Regular and Vocational High-School Education. Major Adviser: Prof. J. G. Turnbull.

Henry Veischay Isaacson, Chicago, Ill.

B.S. '61, University of Illinois. Major: Organic Chemistry. Minors: Physical Chemistry and Biochemistry. Thesis: The Mechanism of Pyrazole Formation from Pyrrolidines. Major Adviser: Prof. Edward Leete.

Paul David Johnson, Minneapolis

B.A. '62, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Predicting Self Reports of Adolescence Smoking Behavior with Step-Wise Multiple Regression, Moderator Analysis, and Interaction Detection Techniques. Major Adviser: Prof. M. D. Dunnette.

William Haymond Johnson, Stillwater

B.S. '58, University of Minnesota; M.S. '65, Syracuse University. Major: Nutrition. Minor: Supporting Program. Thesis: The Availability and Metabolism of Three Forms of Sulfur by Lambs. Major Advisers: Profs. J. C. Meiske and R. D. Goodrich.

George Kingsley Keyt, Norwalk,
Conn.

B.S. '61, M.A. '63, Pennsylvania State University. Major: Economics. Minors: Mathematics and Statistics. Thesis: Price Level Variability and the Demand for Money. Major Adviser: Prof. O. H. Brownlee.

Joseph Aaron Klaitz, Brooklyn, N.Y.

B.A. '64, Columbia University; M.A. '66, University of Minnesota. Major: History. Minor: Political Science. Thesis: Diplomacy and Public Opinion. Louis XIV, Colbert de Torcy and French War Propaganda 1700-1713. Major Adviser: Prof. J. B. Wolf.

David Lawrence Klemmack, Duluth

B.A. '66, M.A. '68, University of Minnesota. Major: Sociology. Minor: Educational Psychology. Thesis: Status, Participation and Educational Alienation. Major Adviser: Prof. C. E. Ramsey.

Stanley Herbert Kleven, Dawson

B.S. with high distinction '63, D.V.M. '65, University of Minnesota. Major: Veterinary Bacteriology. Minor: Biochemistry. Thesis: *Mycoplasma meleagridis* Infections of Turkeys. Host-Parasite Relationships and Control of Egg Transmission. Major Adviser: Prof. B. A. Pomeroy.

Chester Gregory Knight, Kenmore,
N.Y.

B.A. cum laude '63, Dartmouth College; M.A. '65, University of Minnesota. Major: Geography. Minor: Anthropology. Thesis: Unyiha: The Ecology of Agriculture and Change in an East African Community. Major Adviser: Prof. P. W. Porter.

Aage Krarup, Valdivia, Chile

Ing.Agr. '57, Universidad de Chile; M.S. '63, University of California. Major: Horticulture. Minor: Genetics. Thesis: Studies of Inheritance and Temperature Effects on Ovule Number and Components of Yield in Six Lines of *Pisum sativum* L. Major Adviser: Prof. D. W. Davis.

Sam Kuczun, Salem, Mass.

B.S. '54, M.S. '61, Boston University. Major: Mass Communication. Minor: American History. Thesis: History of the American Newspaper Guild. Major Adviser: Prof. W. E. Emery.

Jagannath M. Kudale, Malinagar,
India

B.S. '59, University of Poona; M.S. '62, Utah State University. Major: Food Science and Industries. Minor: Supporting Program. Thesis: An Investigation of Methods for Reducing Astringency in Heated Skimmilk. Major Adviser: Prof. E. L. Thomas.

David A. Lanegren, St. Paul

B.A. '63, Macalester College; M.A. '66, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: Alexander Dalrymple, Hydrographer. Major Adviser: Prof. J. O. M. Broek.

John Gen Lee, Taichung, Taiwan

B.S. '55, Taiwan Provincial College; M.S. '61, Rutgers University; M.S. '64, University of Minnesota. Major: Biometry. Minor: Statistics. Thesis: Some Mathematical Models for the Intravenous Glucose Tolerance Tests. Major Adviser: Prof. J. R. Boen.

Arthur Newton Ley, Guelph,
Ontario, Canada

B.S.A. '62, M.S.A. '63, Ontario Agricultural College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: A Study of Bacteriophage Infection of *Rhizobium Leguminosarum*. Major Adviser: Prof. H. R. Warner.

Linnea Diane Lilja, Minneapolis

B.S. with distinction '60, M.A. '61, University of Minnesota. Major: Education. Minor: English. Thesis: A Study of the Written Poetry Responses of Fifth Graders Given Selected Methods of Instruction. Major Adviser: Prof. N. C. Chase.

Paul Robert Lucas, Madrid, Iowa

B.A. '62, Simpson College. Major: History. Minor: Political Science. Thesis: Valley of Discord: The Struggle for Power in the Puritan Churches of the Connecticut Valley, 1636-1720. Major Adviser: Prof. D. B. Rutman.

Richard Harry Mattson, Chapman,
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B.S. in Agr. '64, University of Nebraska. Major: Horticulture. Minor: Genetics. Thesis: The Effects of Carbon Dioxide Supplemented Atmospheres, Solar Radiation, and Method of Soil Fertilization on Production of Northern Greenhouse Roses (*Rose hybrida*). Major Adviser: Prof. R. E. Widmer.

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B.S. '64, M.A. '67, University of Minnesota. Major: Speech Science, Pathology and Audiology. Minor: Psychology. Thesis: The Use of Displacement Transducers for Recording Velar Movement During Certain Speech Tasks. Major Adviser: Prof. R. R. Martin.

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B.S. '66, M.S.C.E. '67, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: A Numerical Solution of the Navier-Stokes Equations and the Study of the Separation Phenomena. Major Adviser: Prof. C. S. Song.

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B.Agr.Eng. '51, M.S. '52, Ohio State University. Major: Agricultural Engineering. Minor: Mathematics. Thesis: Size, Travel and Composition of Droplets Formed by Water-drop Splash on Thin Water Layers. Major Adviser: Prof. C. L. Larson.

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M.A. '68, College of St. Thomas. Major: Educational Administration. Minor: Educational Psychology. Thesis: The Secular State and Educational Policy in the United States with Implications for India. Major Adviser: Prof. G. F. Alkire.

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B.S. '46, St. Cloud State College; M.A. '56, University of Minnesota. Major: Educational Administration. Minor: Curriculum and Instruction. Thesis: Personality Factors of Teachers and the Acceptance of Audio-Visual Instructional Media Relative to Classroom Instruction. Major Adviser: Prof. C. P. Hooker.

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B.S. '50, North Carolina State College; M.Agr. '56, West Virginia University. Major: Animal Science. Minor: Supporting Program. Thesis: Abnormal Milk as Determined by Leucocyte Count and Changes in Composition. Major Adviser: Prof. C. L. Cole.

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B.S. '63, M.S. '64, Brigham Young University. Major: Education. Minor: Supporting Program. Thesis: A Study of School-Sponsored Programs in the North Central Region of the United States. Major Adviser: Prof. J. M. Anderson.

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B.S. '64, Hamline University; M.S. '68, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The (p,t) and (p,He⁺) Reactions on Light Nuclei. Major Adviser: Prof. R. E. Brown.

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B.Comm. '52, Alexandria University; M.A. '61, University of Minnesota. Major: Economics. Minors: Agricultural Economics and Political Science. Thesis: Oligopolistic Pricing of Wheat in the World Trade. Major Adviser: Prof. Edward Coen.

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B.A. '41, Macalester College; M.A. '51, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: Elementary School Climate and Its Relationship to Pupil Achievement. Major Adviser: Prof. R. T. Lambert.

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B.S. with distinction '62, M.S.E.E. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Impurity and Band Conductivity in Germanium from 4.2 to 298 °K Using Microwave Reflectivity. Major Adviser: Prof. K. S. Champlin.

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B.A. magna cum laude '53, B.S. magna cum laude '54, Wisconsin State College; M.S. '57, Kansas State College. Major: History. Minor: Geography. Thesis: Lumbering on the Chipewewa, the Eau Claire Area, 1845-1885. Major Adviser: Prof. R. C. Loehr.

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B.Com. '55, McGill University; M.A. '58, University of Toronto. Major: Economics. Minor: Statistics. Thesis: Estimation of the Elasticity of Capital-Labour Substitution in Postwar Canadian Manufacturing Industries. Major Adviser: Prof. Leonid Hurwicz.

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B.S. '61, Central College; B.E. '64, M.E. '66, Indian Institute of Science. Major: Electrical Engineering. Minor: Mathematics. Thesis: Study of Coupling in Interconnected Systems. Major Adviser: Prof. F. N. Bailey.

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B.A. '57, M.A. '58, Gonzaga University. Major: English. Minors: Philosophy and Art History. Thesis: *The Shadow and the Butterfly: James Agee's Treatment of Death*. Major Adviser: Prof. G. T. Wright.

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B.S. with high distinction '62, M.S.E.E. '64, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Photoemission Studies of Alkali-Covered Germanium (III) Surface. Major Adviser: Prof. W. T. Peria.

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B.A. '64, Amherst College. Major: Physics. Minor: Mathematics. Thesis: Production of Neutral Mesons in Backward PI Minus-Proton Scattering. Major Adviser: Prof. Keith Rudick.

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B.A. *magna cum laude* '63, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Construct Validation of the Minnesota-Briggs History Questionnaire: Age and Personality Correlates. Major Adviser: Prof. P. F. Briggs.

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B.A. '64, Oberlin College. Major: Psychology. Minor: Child Psychology. Thesis: Children's Beliefs About the Locus of Control in Illness Situations. Major Adviser: Prof. P. F. Briggs.

Philip James Salisbury, Vancouver,
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B.S.A. '39, University of British Columbia. Major: Plant Pathology. Minor: Botany. Thesis: The Effect of High Concentrations of Solutes in Agar Substrates on Growth of *Pythium* Spp., and on Susceptibility of Seedlings to Damping Off and Root-Rot Caused by *Pythium* Spp. Major Adviser: Prof. D. W. French.

Ulric Carl Scott, Winona

B.A. *cum laude* '57, St. Mary's College. Major: Philosophy. Minor: History and Philosophy of Education. Thesis: *The Philosophical Notebooks of George Berkeley: An Historical, Structural, Textual, and Interpretive Analysis*. Major Adviser: Prof. D. B. Terrell.

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B.A. with honor '63, Mankato State College; M.S. '68, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: *Polarization and Cross-section Measurements of 9.7 Mev Proton Elastic Scattering by Nuclei*. Major Adviser: Prof. G. W. Greenlees.

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B.A. '64, Cornell University. Major: Psychology. Minor: Supporting Program. Thesis: *Ego Resiliency, Ego-Control and Risk Taking in Psychiatric Patients*. Major Adviser: Prof. Auke Tellegen.

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B.A. '63, University of Missouri. Major: Psychology. Minor: Educational Psychology. Thesis: *Some Empirical Relationships of an Actuarial Pattern Analysis of Basic Scales of the Strong Vocational Interest Blank*. Major Adviser: Prof. R. G. Warnken.

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B.A. '60, Westminster College; M.A. '64,
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Examine Individual Differences in Managerial
Decision-making Styles. Major Adviser: Prof.
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B.A. '65, Wesleyan University. Major: Psy-
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Method of Extraction, Type of Data, and
Adequacy of Solutions in Factor Analysis.
Major Adviser: Prof. R. V. Dawis.

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B.A. *cum laude* '63, Amherst College. Major:
Physics. Minor: Mathematics. Thesis: A Bal-
loon Borne Gas Cerenkov-Scintillator Telescope
for the Measurement of the Charge Spectrum
of Cosmic Ray Nuclei at High Energies. Ma-
jor Adviser: Prof. W. R. Webber.

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B.S. '63, Nanyang University. Major: Ento-
mology. Minor: Biochemistry. Thesis: Rhy-
thometry Relationship of Rate of Oxygen
Consumption, Insecticide Sensitivity and ATP-
ase (Adenosine triphosphatase) Activity in
Larvae of the Mosquito, *Aedes aegypti* (L.).
Major Adviser: Prof. L. K. Cutkomp.

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B.E. '62, Yonsei University; M.S. '67, Univer-
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Wall Interactions in Laminar Flow of
Blood Suspensions. Major Adviser: Prof. K. H.
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Doctor of Philosophy in Surgery

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B.S. in Ed. '47, University of Minnesota. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. R. E. Eckert.

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B.A. '54, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. J. C. Levenson.

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B.A. '59, College of St. Thomas. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

Thomas Allyn Thomas, Cambridge
B.S. '60, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. C. H. Boeck.

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B.S. with distinction '65, University of Minnesota. Field of Concentration: German. Major Adviser: Prof. E. F. Menze.

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B.A. '66, Indiana University. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. R. R. Martin.

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B.Ed. '63, College of Education, Bangkok. Field of Concentration: Educational Administration. Major Adviser: Prof. V. D. Mueller.

Jane Northrup Warren, Hopkins
B.S. '62, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tennyson.

Rosalie Eiler Watts, Minneapolis
B.S. '65, University of Minnesota. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. C. D. Starr.

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B.S. '68, University of Minnesota. Field of Concentration: Speech Science, Pathology and Audiology. Major Adviser: Prof. M. C. Tempelin.

Ann Elizabeth Whetstone, Arlington, Va.
B.A. '66, Goucher College. Major: History. Minor: Economics. Thesis: The Scottish Members of Parliament, 1847-1859. Major Adviser: Prof. J. L. Altholz.

Lynn Mary White, Buffalo
B.A. '63, St. Benedict's College. Field of Concentration: English. Major Adviser: Prof. R. E. Moore.

Irene Wong, Oakland, Calif.
B.A. '57, University of California. Major: Child Psychology. Minor: Psychology. Thesis: Exploration of Methodology for Measuring Perceptual and Cognitive Development of the Infant. Major Adviser: Prof. S. G. Moore.

Lei Wu, Kiangsu, China
B.S.B.A. '63, Taiwan Provincial Cheng Kung University. Field of Concentration: Statistics. Major Adviser: Prof. R. J. Buchler.

Suan Ying, Singapore
B.A. with honors '64, University of Singapore. Major: Economics. Minor: Industrial Relations. Thesis: Economic Analysis of the Cost of Comprehensive Health Care in Children and Youth Projects. Major Adviser: Prof. J. A. Buttrick.

Fathi Salaama Yousef, Keyro, Egypt
B.A. '55, Ain Shams University. Field of Concentration: Linguistics. Major Adviser: Prof. Walter Lehn.

Janet Lynn Zimmerman, Roanoke, Ill.
B.A. with high honors '68, University of Illinois. Field of Concentration: American Studies. Major Adviser: Prof. M. C. Turpie.

Master of Arts in Public Administration

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B.A. '50, University of Minnesota. Major: Public Administration. Minor: Sociology. Thesis: Reorganization of the Minneapolis Police Department. Major Adviser: Prof. G. A. Warp.

Charles Fimian, Alexandria, Va.

B.S. '51, University of Wisconsin. Major: Public Administration. Thesis: The Applicability of Current U.S. Military Government Doctrine in an Occupied Communist State. Major Adviser: Prof. G. A. Warp.

John Joseph Morgenthaler, Minneapolis

B.A. '68, University of Minnesota. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Master of Business Administration

Roger Lee Anderson, Windom

B.A. '66, Concordia College. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

Gary Lee Buckmiller, Minneapolis

B.S.B. '66, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Michael Lynn Hudson, Minneapolis

B.S.B. with distinction '65, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Anthony Paris Leuthold, Edina

B.Math. '65, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Thomas James O'Neill, Minneapolis

B.C.E. '65, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffmann.

Dennis David Prothero, Roseville

B.S.M.E. '60, North Dakota State University. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

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B.A. *cum laude* '58, Carthage College; B.S. '58, Illinois Institute of Technology. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky, Jr.

Master of Fine Arts

Janece Fayette Manches, Miami Beach, Fla.

B.A. *cum laude* '67, University of Miami. Field of Concentration: Theatre Arts. Major Adviser: Prof. R. D. Moulton.

Certificate of Specialist in Education

John Richard Aura, Edina

B.S. '50, M.A. '57, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. C. P. Hooker.

Robert Marlow Grundsted, Minneapolis

B.S.I.Ed. '50, Stout Institute; M.A. '55, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. N. C. Nickerson.

Robert Chester Hall, Faribault

B.S. with distinction '47, M.A. '52, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. N. C. Nickerson.

Frederick Ambrose Parsons, Delano

B.Ed. with honors '39, St. Cloud State College; M.A. '47, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. O. E. Domian.

John Waldemar Sandberg, Wausau, Wis.

B.S. '53, Central State Teachers College; M.S. '58, University of Wisconsin. Field of Concentration: Educational Administration. Major Adviser: Prof. O. E. Domian.

Signy Ruth Zimdars, Minneapolis

B.S. '43, Winona State College; M.A. '68, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. N. C. Nickerson.

Master of Science

Kiyoko Aiba, Tokyo, Japan

B.S. '64, Waseda University. Major: Mathematics. Thesis: Maximum Principle for the Touchy Problem of the Wave Operator. Major Adviser: Prof. Walter Littman.

Liang-Jyu Chiu Chen, Taiwan, Republic of China

B.S. '66, New York University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. N. I. Harris.

Hae Sook Chyung, Incheon, Korea

B.S. '67, Sookmyung Women's University. Field of Concentration: Home Economics. Major Adviser: Prof. F. A. Ehrenkranz.

John Condie Corless, Idaho Falls, Idaho

B.S. *cum laude* '67, Brigham Young University. Field of Concentration: Business Administration. Major Adviser: Prof. J. M. Smith, Jr.

Alan James Craig, Dublin, Ireland

B.A. '67, University of Dublin. Major: Biology. Minor: Botany. Thesis: Absolute Pollen Analysis of Laminated Sediments from Northeastern Minnesota. Major Adviser: Prof. H. E. Wright.

Richard Allen Curtis, Cleveland, Ohio

B.S. in Phys. with high honors '66, Case Institute of Technology. Major: Physics. Thesis: A Hartree-Like Approach to the Solution of the Few-Body Problem. Major Adviser: Prof. L. H. Nosanow.

Leopoldo Espinosa Graham, Merida, Yucatan, Mexico

Civ.Eng. '63, Universidad de Yucatan. Field of Concentration: Geoengeering. Major Adviser: Prof. Charles Fairhurst.

Robert Bruce Hawkinson, West St. Paul

B.A. *cum laude* '65, Gustavus Adolphus College. Field of Concentration: Biometry. Major Adviser: Prof. E. A. Johnson.

Prabha Iyengar, Bangalore, India

B.E. '68, Bangalore University. Field of Concentration: Mechanics. Major Adviser: Prof. Robert Plunkett.

Sister Madonna Kuegelbeck, St. Cloud

B.S. '67, Boston College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. N. I. Harris.

Rodney Kenneth Lambert, Palmerston North, New Zealand

B.S. '62, M.S. '64, University of Canterbury. Major: Mechanics. Minor: Mathematics. Thesis: Flow in Collapsible Tubes. Major Adviser: Prof. T. A. Wilson.

Richard Carlton Leslie, Chester, Iowa

B.S. '67, University of Minnesota. Major: Soil Science. Minor: Biochemistry. Thesis: Poly- and Orthophosphate Fertilizer Effects on Soybeans (Glycine Max). Major Adviser: Prof. A. C. Caldwell.

Howard Paul Liszt, Minneapolis

B.A. '68, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. N. Cardozo.

Gladys L. MacCarthy, Edina

B.S.N. '53, University of Minnesota. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. N. I. Harris.

Edward Huffaker McCall, White
Bear Lake

B.S.Ch.E. '60, Iowa State College. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. W. D. Munro.

Wanda Warnes Olson, Fridley

B.A. '56, Augsburg College. Field of Concentration: Home Economics. Major Adviser: Prof. F. A. Ehrenkranz.

David Louis Rookh, San Juan
Capistrano, Calif.

B.A. '67, Yale University. Major: Physics. Minor: Mathematics. Thesis: Thermodynamic Properties of Tri-Glycine Sulfate Near the Ferroelectric-Paraelectric Transition Temperature. Major Adviser: Prof. M. R. Moldover.

Richard Wesley Ross, Jr., New
Canaan, Conn.

B.A. '67, University of Minnesota. Field of Concentration: Biometry. Major Adviser: Prof. R. L. Evans.

Master of Science in Aerospace Engineering

Lajpat Rai Utreja, Delhi, India

B.Tech. '67, Indian Institute of Technology. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. P. R. Sethna.

Master of Science in Agricultural Engineering

Pedro Bertin, Santiago, Chile

Cert. '66, Universidad Catolica de Chile. Field of Concentration: Agricultural Engineering. Major Adviser: Prof. S. A. Engene.

William Walter Brixius, Wells

B.S. with distinction '68, University of Minnesota. Major: Agricultural Engineering. Minor: Mathematics. Thesis: A Study of the Energy Characteristics of a Combined Tillage Tool Called the Modified Plow with Disk Pulverizer. Major Adviser: Prof. John Strait.

Master of Science in Anesthesiology

Byron Everett Johnson, St. Paul

M.D. '65, University of Wisconsin. Major: Anesthesiology. Minor: Pharmacology. Thesis: Pulmonary Pathology in Scoliosis. Major Adviser: Dr. H. D. Westgate.

Sheila Mary Muldoon, Rochester

M.D. '63, University College, Dublin. Major: Anesthesiology. Minor: Physiology. Thesis: Effect of Muscle Relaxants on Whole Body Oxygen Consumption and Haemodynamics. Major Adviser: Dr. R. A. Theye.

Master of Science in Civil Engineering

Angel Austria Alejandrino, Quezon
City, Philippines

B.S.C.E. *cum laude* '53, M.S.C.E. '61, University of the Philippines. Field of Concentration: Civil Engineering. Major Adviser: Prof. Edward Silberman.

Chander Kumar Sehgal, New Delhi,
India

B.E. with distinction '61, Delhi University. Major: Civil Engineering. Minor: Mathematics. Thesis: Effects of Polymer on Velocity Profiles in a Commercially Rough Pipe. Major Adviser: Prof. Edward Silberman.

Richard Edward Root, St. Paul

B.C.E. '68, University of Minnesota. Major: Civil Engineering. Minor: Geology. Thesis: Development of a Traffic Factor for the Design and Evaluation of Flexible Pavements. Major Adviser: Prof. M. S. Kersten.

Arnold John Ullevig, Jr., St. Paul

B.C.E. with distinction '67, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. D. L. Gerlough.

Pazhayannur Parasuram Vaidyaraman,
Pazhayannur, India

B.Tech. with honors '68, Indian Institute of
Technology. Field of Concentration: Civil
Engineering. Major Adviser: Prof. A. G. An-
derson.

Master of Science in Dentistry

M. Michael Cohen, Jr., Boston, Mass.
B.A. '65, University of Michigan; D.M.D. '66,
Tufts University. Major: Dentistry. Minor:
Pathology. Thesis: A Craniofacial and Dento-
facial Study of Acrocephalogyndactyly. Major
Adviser: Dr. R. J. Gorlin.

Pierre Hélie, Montreal, Quebec,
Canada

B.A. '62, D.D.S. '66, University of Montreal.
Major: Dentistry. Minor: Anatomy. Thesis:
Comparative Marginal Seal of Restorative Ma-
terials Under Stress. Major Adviser: Dr. J. R.
Jensen.

Gordon John Steuck, Farmington,
Mich.

D.D.S. '67, University of Detroit. Major:
Dentistry. Minor: Anatomy. Thesis: A Study
of Fractional Uptake of ⁸⁶Rb in Oral Tissues
of the Albino Rat Using the Isotope Fraction-
ation Technique. Major Adviser: Prof. J. R.
Jensen.

Master of Science in Dermatology

Robert Earl Jordon, Buffalo, N.Y.

B.A. '60, Hamilton College; M.D. '65, State
University of New York at Buffalo. Major:
Dermatology. Minor: Basic Dermatologic
Sciences. Thesis: The Immunopathology of
Bullous Pemphigoid. Major Adviser: Dr. W.
M. Sams, Jr.

Master of Science in Electrical Engineering

Mona Mahmoud Abdelrahman,
Cairo, Egypt

B.E.E. '66, Cairo University. Field of Concen-
tration: Electrical Engineering. Major Adviser:
Prof. R. E. Weber.

Kenneth William Brinkman, New
Brighton

B.S.E. '64, Princeton University. Field of Con-
centration: Electrical Engineering. Major Ad-
viser: Prof. F. N. Bailey.

Richard Lester Dorr, Rochester

B.S.E.E. *magna cum laude* '64, University of
North Dakota. Field of Concentration: Elec-
trical Engineering. Major Adviser: Prof. R. P.
Halverson.

Delvin Dale Eberlein, Edina

B.S. '62, South Dakota State University. Field
of Concentration: Electrical Engineering. Ma-
jor Adviser: Prof. J. E. Holte.

Donald Frank Lovely, Corning, Iowa

B.S.E.E. '61, Iowa State College. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. R. P. Halverson.

Jeffrey Lynn Lovgren, St. Paul

B.E.E. with high distinction '68, University of
Minnesota. Major: Electrical Engineering. Mi-
nor: Mathematics. Thesis: Surface Chemical
Analysis of Auger Spectroscopy. Major Adviser:
Prof. R. E. Weber.

Rodney Jerome Means, Rothschild,
Wis.

B.S.E.E. '65, University of Wisconsin. Major: Electrical Engineering. Minor: Mathematics. Thesis: Computer Analysis of a Digital Logic Circuit. Major Adviser: Prof. L. T. Anderson.

Thomas William Rusch, St. Paul

B.E.E. with distinction '68, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Auger Spectroscopic Analysis of S-1 Photocathodes. Major Adviser: Prof. R. E. Weber.

Master of Science in Industrial Engineering

Ahsanuddin Ansari, Hyderabad, India

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

V. E. Subramanian, Arimalan, India

B.E. (Mech.) '65, Annamalai University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Hariharan Padmanabhan, Madras,
India

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

Master of Science in Mechanical Engineering

Steven Edward Deneroff, New York,
N.Y.

B.S.Mech.Eng. '68, Massachusetts Institute of Technology. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Shear Stress Analysis of Dog Plasma Protein Adsorbed on Surfaces of Different Surface Free Energies. Major Adviser: Prof. P. L. Blackshear.

Prakash Ramnathpur Keshaviah,
Bangalore, India

B.Tech. '67, Indian Institute of Technology. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. R. C. Jordan.

Master of Science in Metallurgical Engineering

LeRoy Roger Curwick, Taunton

B. of Met.E. with distinction '67, University of Minnesota. Field of Concentration: Metallurgical Engineering. Major Adviser: Prof. M. E. Nicholson.

Noel Celeste Jagolino, Manila,
Philippines

B.S.Min.Eng. '64, Adamson University. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Application of a Segregation Process to a Philippine Nickeliferous Laterite. Major Adviser: Prof. Iwao Iwasaki.

Master of Science in Neurology

Drake D. Duane, Rochester

M.D. '62, Wayne State University. Major: Neurology. Minor: Basic Neurologic Sciences. Thesis: Effects of Emetine on Rat Red and White Skeletal Muscle. Major Adviser: Dr. D. W. Mulder.

Master of Science in Orthopedic Surgery

George W. Simons III, Rochester
M.D. '60, George Washington University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Calcium Metabolism and Bone Turnover in Adrenalectomized Dogs. Major Adviser: Dr. Jenifer Jowsey.

Master of Science in Surgery

James Raymond Pluth, Rochester
M.D. '56, University of Minnesota. Major: Surgery. Minor: Pathology. Thesis: Retroperitoneal Lipomatous Tumors: A Study of 21 Lipomas and 91 Liposarcomas. Major Adviser: Dr. J. W. Kirklin.

GENERAL EXTENSION DIVISION

Business Administration Certificate

Ronald Alan Carlson, Lake Elmo
Arthur Christensen, Roseville
Kenneth Elmer Salin, Duluth

Allan LeRoy Seierstad, Minneapolis*
Wayne David Yanke, Minneapolis

GENERAL COLLEGE

Associate in Arts

Jeffrey Comer Anderes, Minneapolis
Victor Ludvig Anderson, St. Louis Park
Robert Lloyd Arlandson, Minneapolis
Thomas Edwin Bauer, Minneapolis
T. David Bixler, Minneapolis
Steven Jon Boese, St. Paul
Barry Paul Bornstein, St. Paul
Patricia Ann Bradley, Minneapolis
Greg William Braun, Minneapolis
Robert Wayne Breeschoten, Prior Lake
David Kenneth Brown, Minneapolis
Claude Edward Casoria, Minneapolis

Thomas James Christiansen, Minneapolis
Charlotte Ann Cohen, Minneapolis
Colburne Shalaine Cook, Minneapolis
Duane Mathew Court, Minneapolis
Patrick Eugene Cunningham, St. Louis Park
Mark Sherrod Dalquist, Edina
Owen Charles Davis, Wayzata
James Edward Domian, St. Paul
John Allen Duff, St. Louis Park
Karen Suzanne Eckman, Minneapolis
Catherine Louise Eldridge, Minneapolis

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Philip Lynn Engstrom, Minneapolis
 Allan David Erickson, Minneapolis
 Ray Charles Fischer, Jr., St. Louis
 Park
 Andrew Stephen Fisher, Evans-
 ville, Ind.
 Michael Robert Flanigan, Minne-
 apolis
 Blaine James Frazier, Minneapolis
 Brian Peter Garvey, St. Paul
 Keith F. Gershkow, Minneapolis
 James Joseph Giese, Minneapolis
 Dennis E. Griffis, St. Paul
 Jack Merrill Gunderson, Minneapolis
 Deborah Katherine Hachey, St. Paul
 Dennis Brian Hanley, Franklin, Wis.
 Bradley K. Hansen, Bloomington
 James Irvin Hansen, St. Paul
 Richard Sig Helseth, Minneapolis
 Rachel Emma Henderson, Pittsburg,
 Kan.
 Vincent Hill, Minneapolis
 George Arthur Hokanson, Hinckley
 Lynne Marie Holewa, Minneapolis
 Robin A. Ingram, Minneapolis
 William Ipanis, Minneapolis
 Carol Helen Johnson, Minneapolis
 Clifford Gary Johnson, Minneapolis
 Gary Lee Johnson, Prior Lake
 Kenneth Charles Kline, New Hope
 Thomas Fritz Knoop, St. Paul
 Kathleen Ann Kopka, Minneapolis
 Joseph James Kotowicz, Minneapolis
 Gary Rodger LaMotte, St. Paul
 Nancy Lynne Lande, Minneapolis
 Brett Harvey Larson, St. Paul
 Rosemary Belle Larson, Minneapolis
 Arthur Gary Lemke, West St. Paul
 Russell William Lentz, Minneapolis
 Suzanne Jean L'Herault, Minneapolis
 Dean Jay Little, Aberdeen, S.D.
 Stephen John Luhman, Fridley
 John Eric Lundberg, White Bear Lake
 Peter Michael Lundin, Bloomington
 Marjorie Ellyn Mangine, St. Paul
 William Gabriel Marchiniak, Minne-
 apolis
 James Ernest Martinson, Minneapolis
 Joanne Carol McCall, Minneapolis
 Stephen Kendall McCracken, Edina
 Jean Ann Meyer, Minneapolis

William Paul Meyer, Glencoe
 Joseph Severe Morancey, White
 Bear Lake
 Gerald J. Muellner, St. Paul
 Bruce Marlow Nelson, Minneapolis
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 apolis
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 Plainview
 Susan Linda Olson, Minneapolis
 Marilyn Dean Ostrom, New Richland
 Gregory John Paquette, Minneapolis
 Grant Basil Peake, St. Paul
 Gregory Joseph Peters, St. Paul
 Richard John Peterson, St. Paul
 Russell Lawrence Peterson, Hopkins
 Anthony D. Pilla, St. Paul
 Howard Arthur Prestidge, Jr.,
 Bloomington
 Walter A. Puziewicz, Minneapolis
 Dennis Edward Richards, San
 Antonio, Tex.
 Craig Delos Richardson, Minneapolis
 Jacqueline Leslie Richardson, St. Paul
 Mark Cannon Rieger, Minneapolis
 Roberta Sharon Rubin, Minneapolis
 Lauren Gail Savage, St. Paul
 David Joseph Schumann, North
 St. Paul
 Joseph Henry Schwalen, Minneapolis
 Mary Ellen Shannon, Minneapolis
 Charles Glen Small, Jr., St. Paul
 Gerald Irwin Stamm, Minneapolis
 Robert Lee Stielow, West St. Paul
 Susan Diane Swanson, New Brighton
 Alger Raymond Syme, Minneapolis
 Jerry Timothy Taylor, Jr., Farrell, Pa.
 Michael Leslie Teetzal, St. Paul
 Cynthia M. Timmins, Minneapolis
 Brian David Toews, Fridley
 Roy Richard Ulrich, Rosemount
 Antoinette Rose Vilelli, Rosemount
 Lillian Joan Weinberg, Estherville,
 Iowa
 Ronald Arthur Westberry, Minne-
 apolis
 Darryl Charles Wieser, Webster, Wis.
 Karen Willes, Edina
 Nevin Craig Winkle, Minneapolis
 Michael Warren Young, St. Paul
 Thomas John Zins, Fulda

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Hazel F. Babcock, Anoka
Ray Wallace Benson, Minneapolis
Diana Marie Cloud, Mound
Vincent Roger Forsman, Minneapolis
Richard Allan Haugen, Minneapolis
Mark Steven Konecny, Minneapolis

Douglas Norman Kranz, Richfield
Wayne L. Lakso, Minneapolis
Susan Beth Melting, St. Paul
George Anton Polk, Duluth
Margaret Ellen Turngren, Hopkins*

Bachelor of Arts

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Mathew LeRoy Albrecht, A.A., Minneapolis
Joyce Hewitt Allard, Tracy
William Norman Alwin, St. Paul
Jeanne Louise Amonson, Minneapolis
Kristin Ruth Anderson, Minneapolis,
SUMMA CUM LAUDE, Sociology
Rodney Russell Anderson, New
Brighton
Bradley Carl Andrews, Edina
James Steven Angelos, Bloomington
Alan Gene Arbesfeld, A.A., Minneapolis
Brian Alphonso Arcari, Minneapolis
Patrick Joseph Ashton, St. Paul
Diane Ellen Askerooth, Minneapolis
Keith Owen Atwood, Minneapolis
Mattie Laverne Avent, Minneapolis
Phyllis Jean Bachman, White Bear
Lake
Jolene Kay Backer, Bloomfield, Neb.
Darlene Mary Baden, Minneapolis
Joseph Harold Baden, Richfield
Thomas Duane Baglien, Minneapolis
David Lloyd Bangasser, Garvin
Bruce Warren Becker, Minneapolis
Howard E. Becker, Minneapolis
Lois Eriksen Bergquist, Mora
Edith Diane Betten, St. Paul
Albert Phillip Beutel II, Minneapolis
Howard William Bohnen, Excelsior
Louis Albert Bosio, A.A., San Fran-
cisco, Calif.

Henry Owen Boudinot, Omaha, Neb.
Sylvia Sue Boynton, Naples, Fla.
Peter Lewis Brandt, Minneapolis
Timothy Andrew Bray, St. Paul
Ingrid Dagmar Breustedt, Minne-
apolis, CUM LAUDE, History
Ivar Christopher Brogger, Minne-
apolis, CUM LAUDE, Theatre
Wynne Ellen Broms, St. Louis Park
Charles Ivan Broten, Minneapolis
David Michael Brottman, Minneapolis
James Earl Broughton, Minneapolis
Charles Alvin Brown, Minneapolis
Roger Wesley Brown, St. Paul
Thomas Stephen Brussell, St. Paul
Marvin Ronald Bunnell, Minneapolis
Dorothy Marie Burke, Minneapolis
Laurel Ann Butts, Minneapolis
John Holt Buxell, Minneapolis
Richard Herbert Calenius, Minne-
apolis
James Clifford Campbell, Hibbing
Gary Paul Carlon, Minneapolis
Curtis Alan Carlson, Minneapolis
Nancy Lee Carroll, Minneapolis
Thomas Robert Carter, St. Louis Park
Mary Jean Cerny, St. Paul, CUM
LAUDE, Spanish
Michael LeRoy Chaffee, South St.
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Barry Allen Chanen, St. Louis Park
Foster William Chapman III, Brook-
lyn Center
Mary Elizabeth Banwell Chatfield, St.
Cloud

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John Ralph Chejne, Minneapolis
 David Frank Chovan, Minneapolis
 Verna Jean Clark, St. Paul
 Jerome L. Clendenin, Sauk Rapids,
 MAGNA CUM LAUDE, *Geography*
 Richard Allen Coffey, Rochester
 Wendy Ober Cole, New Orleans, La.
 Jerome Dennis Commerford, Pierz
 Sharon Jean Conlin, St. Paul
 Robert Francis Culbertson, Edina
 Charles Victor Dahl, Minneapolis,
 CUM LAUDE, *Psychology*
 Gary Frederick Dahl, Minneapolis
 David Evan Daniels, West St. Paul
 Ione Teigen Daniels, Minneapolis
 Carol Sue Danielson, A.L.A., St. Paul
 Richard Lorimer Davie, Sioux Falls,
 S.D., CUM LAUDE, *English*
 Rosemary Sue Davison, Eden Valley,
 SUMMA CUM LAUDE, *English*
 Michael James Delaney, St. Paul
 Ingo Dere, Minneapolis
 Eric A. DeRycke, A.A., Pipestone
 Barbara Deuhs, St. Paul
 Dennis Matthew Devereaux, West St.
 Paul
 Deborah Jo Diessner, Minneapolis
 Anita Frances Dille, North St. Paul
 Peter Michael Dircks, Minneapolis
 Thomas Patrick Dixon, Bloomington,
 CUM LAUDE, *Psychology*
 Karen Sue Doble, St. Paul
 Carolyn Paula Donart, Mound
 Mark Ignatius Donnelly, St. Paul
 Margaret Ann Dostal, Jackson
 Faith Anne Drake, Minneapolis
 Suzanne Marie Duban, St. Paul
 Katherine Leah Eastlack, St. Paul,
 SUMMA CUM LAUDE, *Social Welfare*
 Rochelle Eastman, Bloomington
 Hariett Fern Edwards, St. Paul, CUM
 LAUDE, *German*
 Martin Elliot Eisler, Minneapolis
 Ingemar Ekstrom, Minneapolis
 Kenneth Raymond Engberg, St. Paul
 Patricia Rae Engesath, A.L.A., St.
 Paul
 Meredith Ann Englund, Edina
 Steven Allan Erickson, Lakeville, CUM
 LAUDE, *Speech*
 Jean Noel Evans, St. Paul

John Mattox Farmer, Minneapolis
 Manley Fording Fellows II, Duluth
 Bruce Arthur Finzen, Minneapolis
 Paul John Flick, Jr., Minneapolis
 Thomas Allen Foley, Kenyon
 Donald Keith Freestone, Minneapolis
 Richard Edward Freis, Bloomington
 Carol Jeanne Pajala Frick, Brainerd
 Wayne Victor Fridlund, Edina
 Bentley Behring Frost, Pasadena,
 Calif.
 Glendia Schiffman Fulkerson, Minne-
 apolis
 Vito Joseph Galisto, Minneapolis
 Francis Elmer Galt, Minneapolis,
 SUMMA CUM LAUDE, *English*
 Lyle Jeffrey Gary, Minneapolis
 Donald Leo Generous, Minneapolis
 Mark Charles Geyer, St. Louis Park
 Christine Jule Ginkel, Minnetonka
 Mark Edward Ginther, St. Paul
 Marshall Robert Ginthner, Minne-
 apolis
 Steven Edward Gjerde, Minneapolis
 Bettie Lee Glineburg, Minneapolis
 Ellen Faye Goldenberg, Minneapolis
 Bette Karen Goldstein, Rochester
 Michael Joseph Graw, Minneapolis
 Dennis Dale Greenhagen, St. Paul
 Jeffrey Peder Gustafson, Minneapolis
 William Phillip Hamm, St. Cloud
 Karen Ann Hammerlund, New
 Brighton
 Larry Joseph Hampel, White Bear
 Lake
 Barantha Logan Hansen, Minneapolis
 Mary Roberta Harlan, Minneapolis
 Bonnie Jean Hassinger, St. Paul,
 SUMMA CUM LAUDE, *International
 Relations*
 Jeanne Henderson, St. Paul
 Dale Patrick Hennessy, A.A., Minne-
 apolis
 James Norman Herther, St. Paul
 Robert Jay Hezzelwood, St. Paul,
 CUM LAUDE, *Theatre*
 David Allen Hilleren, Benson
 William Edward Hines, Minneapolis,
 MAGNA CUM LAUDE, *Psychology*
 William Andrew Hinke, Bloomington

Bruce Allen Hixson, A.A., Minneapolis
 Lesley Joyce Hoel, Minneapolis
 Raymond Victor Holm, Minneapolis
 Dennis Albert Honigs, Hopkins
 Leatetta Marie Hough, Bagley, *SUMMA CUM LAUDE, Sociology*
 Roger Timothy Hubbs, Bloomington
 Richard Milo Huntley, A.L.A., Minneapolis
 Kristi Marie Hvistendahl, A.A., Worthington
 Cheryl Gayle Indahl, Minneapolis
 Sue Alison Ivory, Minneapolis
 Joyce Anne Jarve, Menoham, N.J.
 James Arthur Jenson, Albert Lea
 Craig Randal Johnson, Minneapolis
 David Lloyd Johnson, Hopkins
 Kristen Louise Johnson, Minneapolis, *SUMMA CUM LAUDE, Psychology*
 Lindsay Lee Johnson, A.L.A., Cambridge
 Marilyn Gayle Johnson, St. Paul
 Robin Arthur Johnson, Minneapolis
 Rosalyn Naomi Johnson, Wheaton
 Ward Martin Johnson, Minneapolis
 Terence Joseph Juneau, Duluth
 Damon Dallas Junge, A.A., Harmony
 James Peder Kangel, Winona, *cum LAUDE, Mathematics*
 Susanne Mary Kasner, Minneapolis
 Carole Ellen Kastigar, Minneapolis
 Mary Josephine Keefe, Richfield
 Charles John Keeler, Minneapolis
 Nona Marie Kelly, Wilmington, Del.
 Clayton Walter Kemp, A.A., St. Paul
 Carol Lindquist Kilbane, New Ulm
 Andrew Truax Knapp, Minneapolis
 Katharine Anne Knutsen, Minneapolis
 Leslie Edward Knutson, Zumbrota
 Daniel Thomas Koch, Minneapolis
 James R. Koch, Minneapolis
 Hans Jost Koenig, Kassel, West Germany
 Konrad William Krans, Coon Rapids
 Phyllis Mae Kub, St. Cloud
 Steven Philip Laden, Minneapolis
 James Anders Lair, Zumbrota
 Thomas Orson Lake, Rochester
 Jeannie Strobel Laliberte, Minneapolis
 Jill Annette Landers, Fulda
 Karen Marie Langseth, St. Paul
 Anthony Frederick LaSelle, St. Cloud
 Michael Jeffrey Laub, Edina
 Daniel Paul Leaf, A.A., Brainerd
 Linda Painter Marie Lee, Maple Plain
 Dian Marie Leibel, St. Paul
 Eileen Gail Leiderman, St. Louis Park
 Stephanie Lynn Lemenowsky, St. Paul
 Gerald Lee Lemke, North St. Paul
 Steven Nels Lennartson, St. Paul
 Elaine Sandra Levine, A.L.A., Robbinsdale, *SUMMA CUM LAUDE, Social Welfare*
 Marjorie Carol Lewis, Red Wing
 Richard Dean Lindquist, Bloomington
 Paul Davis Linnee, St. Louis Park
 Karen Ford Lofgren, Weymouth, Mass.
 Andre-Georges G. Louckx, Liege, Belgium
 Kathryn Patrice Lubin, Golden Valley
 Linda Joanne Luken, Hopkins
 Charles Boyd Lutner, Albert Lea
 Peter Bernard Maercklein, Minneapolis
 Charles Clifford Manly, A.A., Minneapolis
 Viola Patricia Manteufel, St. Paul
 Mark Edward Manthey, St. Paul
 Jill Ann Mantor, St. Paul
 James Brooks Martinson, Hopkins
 Bonnie Lola Mazzitelli, Virginia
 Franklyn Morris McCoy, St. Paul
 Thomas James McElligott, Jr., Minneapolis
 Gary Steven McGlennen, Richfield
 Michael Joseph McGlynn, Minneapolis
 John Alexander McLaren, Jr., Wilmette, Ill., *cum LAUDE, Architecture*
 William Robert McLean, St. Paul
 Susan Ann Meek, St. Paul
 John Robert Melbostad, Minneapolis
 Curtiss John Meredyk, Minneapolis
 Deborah Laura Mesner, Minneapolis, *MAGNA CUM LAUDE, German*
 Joyce Moody Miller, Stonington, Conn.

*Pamela Anne Miller, Glenview, Ill.,
 CUM LAUDE, French*
Karl Millers, Minneapolis
*Debra Laura Misner, Minneapolis,
 MAGNA CUM LAUDE, German*
David Lee Mitchell, Edina
Janet Willgohs Morell, Dawson
*Gordon Edward Morrill, A.A., Minne-
 apolis*
Diana Jane Morris, St. Paul
*Steven Alexander Muenzer, Minne-
 apolis, CUM LAUDE, History*
Michael Joseph Murphy, St. Paul
Linda Ruth Neils, St. Cloud
Marsha Kathleen Neitz, St. Paul
Christine Ida Marie Nelson, Dunnell
Jennifer Ann Nelson, Worthington
*John Frederick Nelson, A.L.A.,
 Bloomington*
Norma Adair Nelson, Minneapolis
*Patricia Louise Nelson, A.L.A., Min-
 neapolis*
Richard Charles Nelson, Minneapolis
Philip Neville, Jr., Minneapolis
Darrel Gene Nicholson, Minneapolis
Barbara Ann Nordin, Excelsior
*Dennis Lee Noreen, Inver Grove
 Heights*
Richard Henry Nowak, Minneapolis
Beverly Jean Nystrom, Minneapolis
*Pedro Victor Olcoz-Verdun, Bilbao,
 Spain, MAGNA CUM LAUDE, Spanish*
Randolph Milan Olive, Richfield
Jeffrey Thomas Olsen, Minneapolis
Robert Clarence Olsgard, Minneapolis
Calvin Wallace Olson, Fargo, N.D.
David Louis Olson, St. Paul
Virginia Eloise Olson, Anoka
William Henry Olson, St. Paul
Joseph Terence O'Neill, St. Paul
Lucille Ellen Osojnicky, Minneapolis
Dennis Gregory Owens, Minneapolis
Ordean James Oyen, Appleton
Robert Bernard Padden, Waverly
Edna Theresa Pampy, Browerville
Lynn Marie Path, South St. Paul
Malcolm Ross Patton, Fairmont
Neil Raymond Paulson, Edina
Patricia Joan Peirsol, Minneapolis
Kenneth D. Pekarek, St. Paul
Rudite Ilze Pelecis, Minneapolis

*Thomas Victor Pence, Seattle, Wash.,
 MAGNA CUM LAUDE, Psychology*
Bruce Dennis Peterson, Minneapolis
Gregory Charles Peterson, Gaylord
Ralph Stanley Peterson, Minneapolis
Steven John Peterson, Stacy
Susan Rae Peterson, Willmar
Thomas John Phillips, Minneapolis
Charles Thomas Platt, St. Paul
Judith Anne Plett, Butte, Mont.
Mary Whitcomb Ponto, St. Paul
*David Kinny Porter, Rochester, CUM
 LAUDE, Social Welfare*
Susan Marie Primus, Red Wing
Rochelle Lynn Quast, Gaylord
David Joseph Ramirez, Minneapolis
Ricky Kay Rask, Warren, Mich.
John Paul Reed, Minnetonka
Stephanie Solvason Reed, Edina
*Thomas Peter Reimers, Sioux Falls,
 S.D.*
Richard Dean Reuter, Bloomington
Charles Michael Rex, Minneapolis
Terry Judith Ring, Minneapolis
Kent William Robbins, St. Louis Park
Mary E. Robertson, Redwood Falls
*Donald Henry Robinson, White Bear
 Lake*
Stanley Hilding Rolfsrud, Alexandria
Gary Orvin Rolstad, Minneapolis
*Richard Leslie Rosenberg, Minne-
 apolis*
*Judith Eileen Gordon Rosenstein,
 Albert Lea*
Linnea Kay Ross, A.A., Minneapolis
Bruce Tucker Rowe, South St. Paul
*Barbara Jeanne Rusche, Sturgeon Bay,
 Wis.*
Jay Danford Sanders, Minneapolis
Michael Anthony Sauter, Minneapolis
Susan Georgia Schaeve, Glencoe
*Susan Jane Schauwecker, Downers
 Grove, Ill.*
*Arlene Carol Schreiber, Golden
 Valley*
*Robert Daniel Schmidt, West St.
 Paul*
Donna Louise Schoberg, Fairmont
*Barbara Ann Segal, Minneapolis,
 SUMMA CUM LAUDE, English*
Matthias Edward Schl, Rochester

Rolle Sue Selcer, Minneapolis
 Janet Anne Senft, Stillwater
 Ellyn Dee Sher, Golden Valley
 Steven Samuel Sher, St. Paul
 Claudia Ann Shronts, Edina
 David Frank Siemback, A.A.,
 Rochester
 Daniel Howard Silverman, Minne-
 apolis
 Mark Stanley Simmons, Minneapolis
 Joanne Marie Sivertson, Ulen
 Brenda Ruth Skelly, Cohasset
 John Thomas Slater, Beaver Bay
 Caryn Cornelia Cox Smith, Minne-
 apolis
 Elwood Douglas Smith, Cottonwood
 Kathleen Ann Smith, Avon
 Linda Ann Soltis, Minneapolis
 Peter Michael Spangrud, Richfield
 Carolyn Sue Spicer, Wabasso
 James Harvey Stierna, Sebeka
 Marilyn Helen Stodghill, Minneapolis
 Irving David Strauchler, Minneapolis,
 MAGNA CUM LAUDE, *Chemistry*
 Janet Lynn Sundberg, St. Paul
 Margaret Anne Svendsen, Minneapolis
 Dale Gordon Swanson, St. Paul,
 SUMMA CUM LAUDE, *Political Sci-
 ence*, CUM LAUDE, *Philosophy*
 Donald Lee Swanson, Faribault
 Carolyn Jo Swartz, Fairmont
 Ian Marc Swatez, St. Louis Park
 David Howard Swenson, Minneapolis

Joan Elizabeth Szomor, Willmar
 James Dayton Talley, Lakeville
 Charles Raymond Tappe, Minneapolis
 Paul Michael Tatone, Minneapolis
 David Draper Taylor, Wilmington,
 Del.
 Roy Stephen Taylor, Minneapolis
 Elizabeth Signe Torgersen, St. Paul
 Lynn Wright Trost, Rochester
 Carol Breese Van Why, Rochester
 David Allan Voegele, Owatonna
 Alexander M. Vranesh, Hibbing
 Susan Wickland Wahlin, Minneapolis
 Linda Ann Wales, St. Paul
 Thomas Lee Wannarka, Fairmont
 Patrick Francis Whelan, Edina
 James Carlyle Whelpley, Minneapolis,
 MAGNA CUM LAUDE, *Sociology*
 Thomas Alden Winter, Richfield
 Howard Otto Wirth, Minneapolis
 Eliane Helene Wittman, St. Paul,
 MAGNA CUM LAUDE, *French*
 John Henry Wodele, Jr., Wabasha
 James Frederick Woehrl, Minne-
 apolis
 Manuel T. Woods, A.A., Kansas City,
 Kan.
 Robert Harry Worshek, Minneapolis
 Steven Owen York, Waconia
 Thomas Ka-Tom Yue, Minneapolis
 Paul Alan Yule, Minneapolis
 Jo Anne Margaret Zoff, St. Paul

Bachelor of Fine Arts

Bruce Bernard Ringstrom, Minne-
 apolis

Philip Jeffrey Sularz, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Linda Kay Brandt, Olivia
 Helen Jane Buchmueller, Minneapolis
 Donald Francis Herron, Bloomington

Evelyn Jeanette Larson, St. Paul Park,
 CUM LAUDE

Bachelor of Science

Judy Louise Andolshek, Cross Lake
Joyce L. Grahn, A.L.A., Edina, *cum*
LAUDE

John Edward Primus, St. Paul
William James Pudwell, Rochester

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Jerome Walter Fahrman, Fargo,
N.D.

Juliet Catherine Lilga, Petoskey,
Mich., *cum* LAUDE, *Biology*

Harold Stanley Nelson, Jr., Bloom-
ington

Andrew J. Streifel, Huron, S.D.
Rolf Tore Tandberg, Missoula, Mont.

INSTITUTE OF TECHNOLOGY

Bachelor of Aeronautical Engineering

Eugene Larkin Dahl, Duluth
Vernon Lawrence Diekmann,
Wilmont
Robert Hugh Monahan III, St. Paul

David Jared Morrow, Winnipeg,
Canada
Gregory Arthur Walker, Pengilly,
WITH DISTINCTION
John Steven Weisert, Burnsville

Bachelor of Agricultural Engineering

Gerold Gene Goertzen, Windom
Paul Philip Grabowski, Hopkins

Daniel Evan Peterson, Waseca

Bachelor of Architecture

Heriberto Jorge Carbia, B.S., Santurce,
Puerto Rico
John Thomas Klick, Black River Falls,
Wis.

Thomas Glenn Mortenson, St. Paul
John Whiting Peirsol, Jr., Carmel,
Calif.

Bachelor of Chemical Engineering

Charles Myron McGinley, St. Paul

Bachelor of Civil Engineering

William Joseph Brenny, Minneapolis	David Orion Miller, Mound
Craig Allen Christenson, Brooten	Joseph John Mueller, South St. Paul
Larry Rudolph Cole, Granite Falls	James Edwin Nelson, Paynesville
Edward Joseph De La Forest, St. Paul	Russell Lee Oyster, Hewitt
Gene Allen Erickson, St. Louis Park	Bruce Michael Polaczyk, Minneapolis
Wesley Loren Gjovik, Greenbush	Roger Puchreiter, Minneapolis, WITH DISTINCTION
Edwin L. Haftings, Minneapolis	Darrell Lester Trygstad, A.A., Byron, WITH DISTINCTION
Patrick James Hines, Randall	David Maher Warner, St. James
Stephen Raymond Krakau, Minne- apolis	James George Wawra, Minneapolis
Robert E. Lyman, Minneapolis	
Douglas Martin Mattick, Clarks Grove	

Bachelor of Electrical Engineering

Richard George Tubbesing, St. Paul

Bachelor of Geo-Engineering

Douglas Michael Julsen, Hopkins Bruce William Kramer, St. Paul

Bachelor of Mathematics

Theodore Leo Beaudoin, Duluth

Bachelor of Mechanical Engineering

Steven Gordon Adams, Minneapolis	Kendall Richard McBroom, Burnsville
Patrick James Gilligan, Bloomington	Abbas Moezzi, Shiraz, Iran
Eugene Alvin Hawkinson, St. Paul, WITH DISTINCTION	Craig Richard Mueller, Excelsior
John Roger Helland, Albert Lea	Norman Walter Nordeen, Sunrise
Julian Arnold Imes, Jr., New Brighton	Steven Paul Oman, St. Paul
Arthur Herman Jech, Austin	Allen Irving Osberg, Minneapolis

Bachelor of Metallurgical Engineering

James William Kloet, Minneapolis

Bachelor of Physics

Marsha Joan Krantz, St. Paul

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

Bachelor of Science

- Bruce Howard Almquist, Minneapolis, Agriculture
Susan Rose Austad, St. Paul, Home Economics
Michael Bruce Bendell, Hopkins, Forestry
Paul Gary Benson, Mahtowa, Agriculture
Jack Alexander Blackwell, Grand Marais, Forestry
Elaine Patricia Bolland, St. Paul, Home Economics
Thomas William Butler, Blooming Prairie, Agriculture
Robert Eugene Crowley, Iona, Agriculture
Paulette Ann Crown, Stephen, Home Economics
Jean Ann Davies, Golden Valley, WITH DISTINCTION, Home Economics
William Edward Draheim, Olivia, Agriculture
Robert Stephen Dye, Hopkins, Agriculture
Lynn Marie Everson, A.A., Robbinsdale, Home Economics
Fredrick William Fey, Darwin, Forestry
Dennis Clarence Fisher, Gaylord, Agriculture
Frank Fleischhacker, Chaska, Agriculture
Larry Dean Frank, Fairfax, Agriculture
Harold William Freyholtz, Jr., Bertha, Agriculture
Bruce Lawrence Fuller, St. Paul, Forestry
Leon Henry Gengler, Slayton, Agriculture
Craig Alan Gilbertson, Mound, Forestry
Alan Ray Grunst, Jackson, Agriculture
Earl Conrad Haarstad, Norwood
David Jerome Halverson, St. Paul, Forestry
Robert James Hemming, Morris, Agriculture*
Patrick Aloys Hoffmann, Sleepy Eye, WITH HIGH DISTINCTION, Agriculture
Michael Dean Howe, Alexandria, Agriculture
Larry L. Irvine, Amboy, Agriculture
Gregg Lawrence Johnson, Minneapolis, Forestry
William Dennis Johnson, Richfield, Forestry
Thomas Albert Karl, Willemie, Forestry
Ruth Ann Klossner, New Ulm, WITH HIGH DISTINCTION, Home Economics
Linda Peterson Lang, Minneapolis, Home Economics
Sheldon Loel Lehmann, Anoka, Agriculture*
Owen John Lorenz, Bricelyn, Agriculture
Kathryn Lee Marthaler, Edina
Robert Walter Morrow, Minneapolis, Forestry
Kenneth Ray Moum, A.A., Thief River Falls, Agriculture
Keith Edwin Nelson, Litchfield, WITH DISTINCTION, Agriculture
Herbert Kenneth Neudahl, St. Paul, WITH DISTINCTION, Agriculture*
Nancy Neumeier, Stillwater, Home Economics
Lorraine Catherine Perzel, Minneapolis, Home Economics
Leland Owen Raske, Renville, Agriculture
Gregory Lyn Ryan, St. Paul, Forestry
Allan Lloyd Sallee, Minneapolis, Agriculture

* Degree conferred as of December 20, 1969

Charles James Salonek, Pine City,
Agriculture
Thomas Robert Schulz, Sebeka, WITH
HIGH DISTINCTION, Agriculture
Janice Peterson Styve, Cokato, WITH
DISTINCTION, Agriculture
Kathleen Ann Svendsen, A.A., St.
Paul, Home Economics

Judith Kathleen Swoboda, Rose-
mount, WITH HIGH DISTINCTION,
Agriculture*
Eloise Ann Tytrell, Browerville, WITH
DISTINCTION, Home Economics
Lynn Mary Vanoverbeke, Marshall
John V. Wiersma, Lost Nation, Iowa,
Agriculture

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

Bachelor of Science

Sandra Kay Brockmann, Granada,
WITH DISTINCTION, Home Econom-
ics Education
Marlys Darlene Carlson, Sandstone,
Home Economics Education
Karen Charlotte Mattson Clarke, B.S.,
Anoka, Home Economics Education
Catherine Sawatzky Erickson, Butter-
field, Home Economics Education
Therese Kay Gaudette, Minneapolis,
WITH DISTINCTION
JoAnne Heltner, Starbuck, WITH HIGH
DISTINCTION, Home Economics
Education
Carol Roberta Henkel, Fridley, Home
Economics Education
Diane Kay Herter, Minneapolis, Home
Economics Education
Kenneth David Kristenson, A.A.,
Motley, Agricultural Education
Susan Ellen Kruger, Bloomington,
Home Economics Education*
Eugene Benedict Mager, Le Sueur,
Agricultural Education
Evonne Marie Mead, Seward, Neb.,
WITH DISTINCTION, Home Econom-
ics Education

Paul Joseph Meyers, Adams, WITH
DISTINCTION, Agricultural Education
Jeanne Gay Morford, Chaska, Home
Economics Education
Claudia Jeanne Nelson, St. Paul,
Home Economics Education
Marjorie Ann Peavey, Faribault, Home
Economics Education
Mary Ellen Prothero, Roseville, Home
Economics Education
Beverly A. Dyrdaahl Rude, Gonvick,
WITH DISTINCTION, Home Econom-
ics Education
Marlin Ernest Schmidt, Albert Lea,
Agricultural Education
Darlene Karen Schwalen, New
Brighton
Dudley Edwin Thiesse, Ceylon, Agri-
cultural Education
Ellen Louise Vollmers, Wheaton,
Home Economics Education
Diane Marie Wright, Cedar Rapids,
Iowa, Home Economics Education

* Degree conferred as of December 20, 1969.

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

Bachelor of Agricultural Business Administration

William Howard Anderson, St.
Charles, WITH DISTINCTION
Anthony Joseph Leifeld, Hastings,
WITH DISTINCTION

Richard Victor Lindquist, Paynesville
Dennis Lee Verthein, Altura

COLLEGE OF EDUCATION

Bachelor of Science

Anne Marie Ahern, Red Wing, WITH
DISTINCTION
Christine Ardel Amdahl, Roseville,
WITH DISTINCTION
Diane Kay Anderson, Fergus Falls
Kristin Ruth Anderson, Minneapolis,
WITH HIGH DISTINCTION
Judith Grace Angvik, St. Paul
Sharon Gay Bachman, Minneapolis
Arthur Jerome Bailey, B.B.A., M.S.,
New Hope
Sharon Rae Baller, Circle Pines
Jan Kathleen Baltrusch, Billings, WITH
HIGH DISTINCTION
Stephen Bernhardt Barlau, B.S., Min-
neapolis, WITH DISTINCTION
Karla Fay Bathke, St. Paul
Nancy Lee Bauer, Osseo, WITH DIS-
TINCTION
Margaret Frances Belay, Virginia
Mary Theresa Benson, B.A., Minne-
apolis
Rick Allen Berg, Willmar
Julia Ellen Blue, New Brighton, WITH
HIGH DISTINCTION
Thomas Floyd Boesch, St. Paul
Janet Lou Carley Bohn, Minneapolis

Jeanne Rae Bowron, Luverne
Patricia Anne Bozonie, Minneapolis
Nancy Joan Brogan, A.A., Chatfield
Scott Lowell Brown, Balsam Lake,
Wis.
Odette Jeanne Bruneau, A.L.A., Min-
neapolis, WITH DISTINCTION
Cheryl LouRae Buckley, Milaca
Estelle Joan Busch, Bloomington
Jeanine Karen Carlson, A.L.A., Min-
neapolis
Nanette Jane Connor, Minneapolis,
WITH DISTINCTION
Tasia J. Demos, Greece
William Burnett Denker, Minneapolis
Cheryl Lynn Ditch, Minneapolis,
WITH DISTINCTION
Kathleen Dower, Minneapolis
Margaret Jane Drugge, Duluth
Barbara Louise Ennis, Minneapolis
James Eugene Erickson, Hopkins
Joan Marie Erickson, Minneapolis
Judith Kay Erickson, A.A., Hibbing
Phillip Leroy Erickson, Lanesboro
Carol Lee Erwin, Minneapolis
Jeanette Irene Fair, St. Paul
Craig Dean Falkman, Hopkins

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Hollis Olivia Felt, Minneapolis, WITH
 DISTINCTION
 Norma Ann Flinn, Bloomington,
 WITH HIGH DISTINCTION
 Janet Lee Floten, Edina
 Claire Ball Forsberg, White Bear Lake
 Margo Miller Friedman, A.A.,
 St. Paul
 Marian Grette Fronk, B.A., Edina,
 WITH DISTINCTION
 Russell Ray Fryer, A.A., Minneapolis
 Ann Marie Gallien, Minneapolis
 Janice Lea Galanter Goldstein, St.
 Paul, WITH DISTINCTION
 Ruth Ann Gessner, B.S., St. Paul
 Diane Ruth Goserud, A.A., St. Paul
 Mary Beata Graupman, A.A., Circle
 Pines, WITH DISTINCTION
 Beverly Hitchcock Graves, St. Paul
 Bonita Lynn Grenell, Edina, WITH
 DISTINCTION
 June Marie Jepsen Griffith, Anoka
 Trudie Ann Gustad, Minneapolis
 Jeanne Stine Gustafson, Minneapolis
 Betty JoAnn Hammer, Minneapolis
 Barbara Ann Hansen, Edina
 Diane Kathleen Thoemke Hansen, St.
 Paul
 Linda Ann Hansen, Columbia Heights
 Karen Lynn Hanson, Edina
 Mary Anne Hayes, Minneapolis
 Marilyn Grace Hein, Fridley, WITH
 DISTINCTION
 Mary Katherine Henriksen, St. Peter
 Linda Dalen Hoelscher, St. Paul
 Jonathan Hofer, St. Paul
 Dennis Martin Hoglin, Long Lake
 Larry Reed Houg, Richfield
 Gertrude Helen Houle, St. Louis Park
 Marilyn Jean Huso, Minneapolis
 Beverly Jean Lindquist Isaacson, A.A.,
 Wyoming
 Leonard LaVerne Iverson, Austin
 Robert Roger Jax, Adams
 Alva Christ Jensen, Jr., Albert Lea,
 WITH DISTINCTION
 Barbara Ann Johnson, Richfield, WITH
 DISTINCTION
 Cynthia Ann Johnson, Minneapolis
 Sandra Lee Joseph, St. Paul
 Barbara Ann Kimball, Fargo, N.D.
 Shirley Ann Kuduk, Minneapolis
 Nancy Lynn Kuehl, Ormsby
 Nancy Harriet Lake, Minneapolis,
 WITH HIGH DISTINCTION
 Fletcher William Lewis, Minneapolis,
 WITH DISTINCTION
 Marjorie Ann Littlefield, Minneapolis,
 WITH DISTINCTION
 Dorothy Penella Loeffler, Hamel
 Patricia Kristine Lucken, Anoka
 Patricia Ann Lundquist, Rockford, Ill.,
 WITH DISTINCTION
 Rosella Helen Lutz, Minneapolis
 Julie Kaye Madura, Minneapolis
 Mary Joan Maxa, St. Paul
 Patricia Louise McClure, Minneapolis
 Gloria Eleanor McDonald, Alexandria
 Margaret Ann McKee, Minneapolis,
 WITH DISTINCTION
 Lillian Paige Miles, St. Louis Park,
 WITH DISTINCTION
 James David Moenke, B.A., St. Louis
 Park
 Richard Vale Myers, St. Paul
 Charles Arthur Nachtsheim, Robbins-
 dale
 Ann Christine Nelson, St. Louis Park
 Janice Lynn Nelson, B.S., Shakopee,
 WITH DISTINCTION
 Nancy Caye Nelson, St. Paul, WITH
 DISTINCTION
 Frank Ellis Nichols, Ironton
 Elizabeth Anne Norman, Bloom-
 ington, WITH DISTINCTION
 Gail Lee Norstrom, Spicer
 Gloria Kathleen Nozal, Virginia
 Claudia Karen O'Brien, Minneapolis
 Joan Nelson Odden, Coon Rapids
 Jacquelyn Joy O'Dowd, Minneapolis
 Shirley Ann Paplow, Dundee
 Judith Carolyn Payne, Minneapolis
 Judith Eileen Pentz, Fridley
 Sylvia Diane Perry, B.A., Minneapolis
 Barbara Sharon Philipson, Fridley
 William Richard Pohl, St. Paul
 Susan Faye Raymond, Hibbing
 Deanna Lee Rippentrop, Ledyard,
 Iowa
 Cassandra Fiene Rodgers, Wayzata,
 WITH DISTINCTION
 Ralph Jay Rye, Minneapolis

Mary Louise Saari, Minneapolis
 Mary Ann Sawdey, Minneapolis
 Gary Dean Schafer, Minneapolis
 Betty K. Moore Schoettler, B.A., St. Paul
 Elaine Rosalind Lapidés Schwartz, Minneapolis
 Marjorie Jean Sheldon, St. Paul
 Carol Ann Brockman Smith, Minneapolis
 Patricia Ann O'Brien Smith, Minneapolis
 Janet Elaine Solchaga, B.A., Minneapolis
 Kathleen Jean Splett, New Richland
 Bruce Herbert Spoo, St. Paul, WITH DISTINCTION
 Gary Richard Stevens, Minneapolis
 Joan Beck Stockman, Golden Valley
 Jennifer Schiller Stone, Minneapolis
 Mary Ann Sundeen, Duluth
 Judith Ann Tenney, St. Paul
 Marilyn Joyce Thaden, St. Paul, WITH HIGH DISTINCTION

Dianna Kay Triggs, Montevideo, WITH DISTINCTION
 Terry Thomas Trooien, St. Paul
 Carol Agnes Urban, A.A., White Bear Lake
 Linda Lea Van Horn, St. Paul
 Sandra Jean Van Orden, Minneapolis
 Alan Leo Vokaty, St. Paul
 Sandra Lee von Fischer, Virginia
 Clarlynn Jean Wachter, St. Paul
 Gary Verne Wachter, St. Paul
 Patricia Mae Weatherston, St. Paul
 Ruth Ann Webster, New Ulm
 Roger Elliot Wenschlag, Minneapolis, WITH HIGH DISTINCTION
 Linda Marie Westerberg, Edina
 Elaine Ahna White, Winona, WITH DISTINCTION
 Joyce Nadene White, Minnetonka WITH DISTINCTION
 Nancy Beth Winer, Minneapolis
 Susan Marie Youngdahl, St. Paul
 Jean Susan Zamor, Excelsior

Master of Education

John Peter Perkovich, B.S., South St. Paul

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Thomas Evan Ames, Bloomington
 Gary Jerome Anderson, A.A., St. Paul
 Keith Wesley Anderson, B.Ch.E., Hutchinson
 David Lee Anzivino, St. Paul
 William LeRoy Bedor, Minneapolis, WITH DISTINCTION
 Phillip Raymond Blazovich, St. Paul, WITH DISTINCTION
 Dale John Brinkman, A.A., St. Paul
 Richard Rodney Brooks, Minneapolis
 Stephen John Bryan, Minneapolis

Edward Curtis Buhr, Minneapolis*
 Timothy Jon Burggren, St. Paul
 Luz Campa, Jr., Minneapolis
 John Alfred Carlson, St. Paul
 Walter John Carlson, Jr., A.A., Inver Grove Heights
 Keith Ellis Carr, B.S.M.E., St. Paul
 Bruce Edward Clauson, Minneapolis
 Charles Allan Code, St. Paul
 Edward Arthur Cunningham, A.A., Minneapolis

* Degree conferred as of December 20, 1969.

Keith Thomas Dahlen, B.A., Minneapolis

Curtis Dean Dockter, Brooklyn Center

Donald William Dubay, Minneapolis

Mark Richard Ellis, Minneapolis

Kathryn Ann Engevik, Gatzke

Roger Lee Erola, Deer River

Leo William Froemming, A.A., Alexandria

Frank Edward Gedelman, Minneapolis

Matthew A. Gray, Edina

Herman Harold Gutzke, Robbinsdale

Mark Alan Hamre, Fairmont

Roger Dale Haro, Minneapolis

Steven Oliver Haugland, Browns Valley

Gary Allen Havemeier, Hutchinson

Michael Dale Hix, St. Louis Park

Aldon Horner, Hopkins

John David Johnson, Minneapolis

Kerry John Juntti, Minneapolis

Eugene Lawrence Kelzer, A.L.A.,

Bellingham, WITH DISTINCTION

John Joseph Klingelhut, Shakopee

Richard Nelson Koch, St. Paul

Mark Peter Kovalchuk, Minneapolis,

WITH DISTINCTION

Stanford Douglas Krueger, Delano

Patricia JoAnn Lane, Minneapolis

Jon Albert Logar, Ely

Barbara Ann Long, La Crosse, Wis.

Robert Lee Meisenheimer, North St. Paul

Paul David Michaelson, Burnsville

George Michael Mihm, Ivanhoe,

WITH DISTINCTION

William Steward Myers, Minneapolis

Gary Herbert Nordean, Aitkin

Edward Thomas Nowak, Wayzata

Timothy Joseph Pease, Pine Bend

Steven Ray Perlman, St. Louis Park

James Kenneth Peterson, Minneapolis

Mark Carl Peterson, Mahtomedi,

WITH HIGH DISTINCTION

William John Pfeiffer, Hopkins

Ronald Lee Piri, Menahga

Kevin Thomas Rees, Browns Valley

Clyde Edward Reynolds, Inver Grove

Heights

Vernon David Riediger, Minneapolis

John Richard Rupp, St. Paul

Richard Arnold Schrupp, Edina

Roberton Henry Seeman, Minneapolis

Thomas Herbert Skoog, Bloomington

Donald Cameron Smith, Bloomington

James A. Spencer, St. Paul

John Daniel Stevens, La Prairie

Marilyn Jean Tokarczyk, Stephen

Thomas Walter Tokarczyk, Duluth

James Harold Tolchiner, Minneapolis

Joseph Stephen Vamos, Minneapolis

Robert Lee Warner, Minneapolis

Gregory Jerome Wasick, Minneapolis

Richard James Weldon, South

St. Paul

John George West, A.A., Minneapolis

James Theodore White, Grand Marais

Richard Brooke Whiting, Minneapolis

Roger William Wigen, St. Paul

Clark LeRoy Worthington, Minneapolis

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Curtis Elliott Gjengdahl, B.A.,
Ortonville

Guillaume Gerardus Hensgens, Minneapolis

Thomas Edward Jacobsen, B.A.,
Litchfield

Diane Yoko Yonekawa, Denver, Colo.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

- Rankin Carl Ahlm, Grand Rapids, Mortuary Science
- Sharon Kaye Anderson, St. Charles, Physical Therapy
- Peggy Anne Bozonie, Minneapolis, WITH DISTINCTION, Medical Technology*
- Alberic Baptiste Cardinal, A.M.S., Maplewood, Mortuary Science
- Rita Laurine Craig, Montgomery, Ala., Mortuary Science
- Joyce Louise Cundy, Minneapolis, Medical Technology*
- David Jerome Danielson, Bigelow, Physical Therapy
- Diane Marie Doll, Perham, WITH DISTINCTION, Medical Technology*
- Eric George Dulka, Chardon, Ohio, WITH DISTINCTION, Mortuary Science
- Hariett Fern Edwards, St. Paul, WITH DISTINCTION, Medical Technology*
- Timothy Thomas Gregersen, Onawa, Iowa, WITH DISTINCTION, Mortuary Science
- John Robert Hastings, B.A., Minneapolis, Medicine
- Cristine Barbara Hoche, Minneapolis, WITH DISTINCTION, Physical Therapy
- Kenneth Eugene Lamm, Mankato, Physical Therapy
- James Robert Lang, St. Paul, Physical Therapy
- Vicki Irene Marti, Kasson, Medical Technology*
- Diana Gail McRae, Dutton, Mont., WITH DISTINCTION, Physical Therapy
- Rosalyn Anne Nosco, Minneapolis, Physical Therapy
- Marit Elizabeth Oden, Minneapolis, WITH DISTINCTION, Medical Technology*
- Beverly Ann Olsen, St. Paul, Physical Therapy
- Dixie Lee Paige, Slayton, Physical Therapy
- Claudia Simonson Parks, Argusville, N.D., Physical Therapy
- Jolyon David Peterson, B.A., Edina
- Linda Rae Peterson, Virginia, Physical Therapy
- Robert K. W. Phibbs, Bemidji, Physical Therapy
- Marilee Jane Preble, Richfield, WITH DISTINCTION, Medical Technology*
- Phoebe Corrine Reinhart, Duluth, WITH DISTINCTION, Physical Therapy
- William Herbert Reynolds, Minot, N.D., Physical Therapy
- Kathleen J. Skogman Runion, Cambridge, Physical Therapy
- Priscilla Marie Rupp, New London, WITH DISTINCTION, Medical Technology*
- Joallyn Leslie Sanstad, St. Paul, Physical Therapy
- Arlene Luella Sletten, Brainerd, Medical Technology*
- Mary James Sowden, A.A., Fergus Falls, WITH DISTINCTION, Physical Therapy
- Gene Clemence Stifter, A.M.S., Hopkins, Mortuary Science
- Kathleen Louise Swenson, Rockford, Ill., WITH DISTINCTION, Occupational Therapy
- Wesly Glen Syverson, Minneapolis, Mortuary Science
- Louise Helen Tengquist, Duluth, Medical Technology*
- Arlene Mae Werman, Hibbing, Medical Technology*
- Janice Elaine Youngquist, Minneapolis, Physical Therapy
- Patricia Lou Ziemer, New London, WITH DISTINCTION, Medical Technology*

* These degrees are conferred subject to the completion of practical work prior to June 13, 1970.

Master of Public Health

Beth Katharine Fields Bonestroo, B.S., M.S., St. Paul
James Eugene Hildebrand, B.A., Minneapolis
Anthony La Mastra, B.S., Pine Plains, N.Y.

Doctor of Medicine

James William Dey, B.A., Lakeville
James John Gerdin, B.S., Belgrade
John Robert Hastings, B.A., Minneapolis
Stephen Gayle Henry, B.A., Parkers Prairie
Richard G. Kirchoerfer, B.A., Austin
John Daniel Lamey, Jr., B.A., B.S., South St. Paul
Joe Lawrence Morgensen, B.A., Spencer, Iowa
Jolyon David Peterson, B.A., Edina

Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Infantry

Larry Joseph Hampel, White Bear Lake

Second Lieutenant, Signal Corps

Richard George Tubbesing, St. Paul

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

John S. Weisert, Burnsville

Academic Costume

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

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

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

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

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

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

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

President's Reception

MARCH, 1970

- The members of the graduating class, their families, and friends are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held in the Main Ballroom of the Coffman Memorial Union. Refreshments will be served.
- Those in the receiving line will be President and Mrs. Moos, Dr. McElroy, and Vice President and Mrs. Shepherd.
- Assisting in the Reception are students and staff members, including those from Gamma Sigma Sigma Sorority, ROTC, and the Department of University Relations.



UNIVERSITY OF MINNESOTA

June Commencement, 1970

SATURDAY EVENING, JUNE 13, 7:30 P.M.

GRANDSTAND AREA
MINNESOTA STATE FAIRGROUNDS

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

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

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

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

The Honorable Fred J. Hughes, St. Cloud

The Honorable George W. Rauenhurst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Mr. James F. Hogg, Secretary

Mr. Clinton T. Johnson, Treasurer

Mr. Sterling B. Garrison, Assistant Secretary

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and nineteenth 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 218,215 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 45,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the State by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the State in their own homes.

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

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

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

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

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

As it meets the needs of present students, the University must also make plans for those of the future. The 50,145 students who enrolled at the University at the beginning of the 1969-1970 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

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

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

The summary financial statement of 1968-1969 showed that the University's current income amounted to \$213,904,479. Of the total received, \$18,422,666 came from student tuition and fees; \$33,438,168 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; \$1,870,514 from intercollegiate athletics; \$29,714,645 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 \$13,050,547 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also, \$46,383,128 came from the federal government for instruction, research, and agricultural extension. The State provided \$71,024,811 or 33.2 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$17,179,689.

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and par-

ticipates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds.

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 from 6:30 to 7:00 p.m., they will hear the Frances Miller Brown Memorial Bells recorded at Northrop Memorial Auditorium by Miss Janet Orjala, College of Liberal Arts, '70, University Carillonner. The Commencement exercises are open to all; guest cards are not necessary.

PRELUDE CONCERT: From 7:00 to 7:30 p.m., the University Concert and Symphony Bands, conducted by Assistant Bandmaster Fred A. Nyline, B.S., will play:

<i>Festive Overture</i>	Tchaikovsky
<i>Overture in B Flat</i>	Giovannini
<i>Man from LaManche</i>	Leigh
<i>Alla Barocco</i>	Giovannini

PROCESSION: At 7:30 p.m. the Mace-Bearer, Professor Gerald R. McKay, Ph.D., College of Agriculture, Forestry, and Home Economics, will carry the Mace onto the platform, heralding the arrival of the academic procession of candidates for degrees. The procession includes the candidates, marching by colleges, the faculty, distinguished guests, and the Regents. The line of march for degree candidates is as follows: General Extension Division; General College; College of Liberal Arts; University College; College of Biological Sciences; Institute of Technology; College of Agriculture, Forestry, and Home Economics in the Institute of Agriculture; College of Education; School of Business Administration; College of Pharmacy; Law School; College of Veterinary Medicine; School of Dentistry; College of Medical Sciences; and Graduate School. During the procession the Bands will play:

<i>March from the Original Suite</i>	Jacob
<i>Academic Processional</i>	Grundman
<i>Pentland Hills</i>	Howe
<i>Proud Heritage March</i>	Latham

THE NATIONAL ANTHEM: As Mr. Leslie Stokely, Department of Music, 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 Carl C. Caskey, Wesley Foundation Campus Minister and Chairman of the Council of Religious Advisers.

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

A FAREWELL FROM THE OUTGOING PRESIDENT OF THE MINNESOTA STUDENT ASSOCIATION: Mr. Tom Gilsenan, '70, College of Liberal Arts.

PRESENTATION OF CANDIDATES: Vice President William G. Shepherd, Ph.D., Academic Administration, will introduce the deans of the several colleges or their representatives, who will present to President Moos the candidates for certificates and degrees. They are, in order of their introduction, Dean Willard L. Thompson, Ph.D., General Extension Division; Assistant Dean Norman W. Moen, Ph.D., General College; Dean E. W. Ziebarth, Ph.D., College of Liberal Arts; Assistant Dean Frank T. Benson, Ph.D., University College; Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences; Dean Warren B. Cheston, Ph.D., Institute of Technology; Dean Sherwood O. Berg, Ph.D., Institute of Agriculture; Dean Robert J. Keller, Ph.D., College of Education; Dean Paul V. Grambsch, D.B.A., School of Business Administration; Dean Lawrence C. Weaver, Ph.D., College of Pharmacy; Dean William B. Lockhart, S.J.D., Law School; Dean William T. S. Thorp, D.V.M., College of Veterinary Medicine; Assistant Dean James R. Jensen, D.D.S., School of Dentistry; Dean Robert B. Howard, M.D., College of Medical Sciences; and Dean Bryce Crawford, Jr., Ph.D., Graduate School.

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

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

CONFERRING OF OTHER GRADUATE SCHOOL DEGREES: President Moos will confer the degrees upon the graduates. Dean Crawford will present the candidates to President Moos.

PRESENTATION OF DIPLOMAS: With Vice President Paul H. Cashman, Ph.D., Student Affairs, presiding, representatives of the June graduating classes will move to the stage to receive their diplomas. The deans and those faculty members assisting them in the presentation of diplomas are Associate Dean

Donald Z. Woods, Ph.D., General Extension Division; Assistant Dean Norman W. Moen, Ph.D., General College; Associate Dean John G. Turnbull, Ph.D., College of Liberal Arts; Assistant Dean Frank T. Benson, Ph.D., University College; Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences; Assistant Dean Paul A. Cartwright, Ph.D., Institute of Technology; Assistant Dean Keith N. McFarland, Ph.D., Institute of Agriculture; Assistant Dean William E. Gardner, Ph.D., College of Education; Associate Dean George Seltzer, Ph.D., School of Business Administration; Associate Dean Frank E. DiGangi, Ph.D., College of Pharmacy; Assistant Dean Robert F. Grabb, LL.B., Law School; Dean William T. S. Thorp, D.V.M., College of Veterinary Medicine; Assistant Dean James R. Jensen, D.D.S., School of Dentistry; Associate Professor Isabel Harris, Ph.D., College of Medical Sciences; and Associate Dean Francis M. Boddy, Ph.D., Graduate School.

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

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

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

Afghanistan	Ghana	Pakistan
Angola	Greece	Panama
Argentina	Guatemala	Peru
Australia	Guyana	Philippines
Austria	Haiti	Poland
Barbados	Hong Kong	Portugal
Belgium	Iceland	Republic of China
Bolivia	India	Republic of the
Botswana	Indonesia	Congo
Brazil	Iran	Rhodesia
Bulgaria	Iraq	Saudi Arabia

Burma
Cameroon
Canada
Central African
 Republic
Ceylon
Chile
China — Taiwan
Colombia
Costa Rica
Cuba
Cyprus
Czechoslovakia
Denmark
Dominican Republic
Ecuador
El Salvador
Ethiopia
Finland
France
Germany

Ireland
Israel
Italy
Jamaica
Japan
Jordan
Kenya
Korea
Kuwait
Lebanon
Liberia
Libya
Macao
Malawi
Malaysia
Mexico
Nepal
Netherlands
New Zealand
Nigeria
Norway

Singapore
South Africa
Spain
Surinam
Sweden
Syria
Tanzania
Thailand
Trinidad and
 Tobago
Tunisia
Turkey
Uganda
United Arab
 Republic
United Kingdom
Upper Volta
Uruguay
Venezuela
Vietnam
Yugoslavia

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

Ronald Steven Mortaloni, Virginia
B.S. '61, M.S. '64, Bemidji State College. Major: Educational Administration. Minors: Educational Psychology and History and Philosophy of Education. Project: Provision of Normative Data Relating to Criteria Utilized in Evaluating Elementary Schools. Major Adviser: Prof. R. T. Lambert.

Glenn Charles Snook, Golden Valley
B.A. '56, Carleton College; M.A. '59, State University of Iowa. Major: Educational Administration. Minor: Educational Psychology. Project: A Study of Special Education Administration in the Minneapolis Public Schools Decentralized Educational Pyramids. Major Adviser: Prof. R. F. Weatherman.

Doctor of Philosophy

John W. Adams, Bloomington
B.S. '63, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: An Analysis of Student and Teacher Verbal Behavior in Two Plans of Junior High School Organization — Modular and Traditional. Major Adviser: Prof. W. M. Ammentorp.

George Linwood Barney, South Nyack, N.Y.

B.A. '45, Taylor University; M.A. '57, University of Minnesota. Major: Anthropology. Minor: Linguistics. Thesis: An Analysis of Swidden Cultures in Southeast Asia. Major Adviser: Prof. R. F. Spencer.

Pierre Philippe Antoine, Ottignies, Belgium

Ing. Chim. et des Ind. Agr. '65, Universite Catholique de Louvain. Major: Soil Science. Minor: Supporting Program. Thesis: Mineralogical, Chemical and Physical Studies on the Genesis and Morphology of a Rockwood Sandy Loam (Typic Fragiboralf). Major Adviser: Prof. R. H. Rust.

Bernhard Wayne Bartel, West St. Paul

B.S. with honor '46, Winona State Teachers College; M.A. '55, Cert. of Spec. in Ed. '66, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: The Effectiveness of Student Feedback in Changing Teacher Classroom Image. Major Adviser: Prof. N. C. Nickerson.

Alvin Armond Arens, Marshall

B.B.A. '60, M.B.A. '67, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: The Adequacy of Audit Evidence Accumulation in Public Accounting. Major Adviser: Prof. R. G. Berryman.

Richard Ernest Beedle, Jr., Cottage Grove

B.Phys. '64, M.S. '67, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Study of the Low Energy Electron Component of the Cosmic Radiation. Major Adviser: Prof. W. R. Webber.

Samuel Floyd Barger, Petrolia, Pa.

B.S. in Ed. '58, Clarion State Teachers College; M.S. '61, University of Minnesota. Major: Mathematics. Minor: Educational Psychology. Thesis: Generic Perfection and the Theory of Grade. Major Adviser: Prof. J. A. Eagan.

John Dana Bernard, St. Louis, Mo.

B.A. '57, M.A. in Teaching '69, Harvard College. Major: English. Minor: Classics. Thesis: Studies in the Love Poetry of Wyatt, Sidney and Shakespeare. Major Adviser: Prof. L. H. Unger.

Surinder Mohan Bhardwaj, Ludhiana,
India

B.A. '55, M.A. '58, Panjab University; M.A. '65, University of Minnesota. Major: Geography. Minor: Anthropology. Thesis: Hindu Places of Pilgrimage in India—A Study in Cultural Geography. Major Adviser: Prof. J. O. M. Brock.

Jacquelyn Anne Boaz, Camp Verde,
Ariz.

B.S. in Ed. '57, Northern Arizona University; M.A. '64, Colorado State College. Major: Education. Minor: Supporting Program. Thesis: A Comparison of the Interests of Female Professional Personnel in Community Recreation to Other Occupations Described by the Strong Vocational Interest Blank for Women. Major Advisers: Profs. R. J. Donnelly and D. E. Richardson.

John William Boyer, Jr., Cloquet

B.S. *cum laude* '60, M.A. '62, University of Minnesota. Major: Business Administration. Minor: Education. Thesis: Evaluation of the Effectiveness of Selected Manpower Training Programs. Major Adviser: Prof. H. G. Hene-man, Jr.

Louis Bernard Bushard, St. Paul

B.Math. with distinction '65, M.S. '67, University of Minnesota. Major: Mathematics. Minor: Mechanical Engineering. Thesis: Qualitative and Quantitative Description of Locking-in. Major Adviser: Prof. W. S. Loud.

I-pin Chang, Taipei, Republic of
China

B.S. in Agr. '64, National Taiwan University; M.S. '67, University of Minnesota. Major: Plant Pathology. Minors: Microbiology and Soil Science. Thesis: Ecology of Fungi in the Rhizosphere of Corn. Major Adviser: Prof. Thor Kommedahl.

William Lien Chen, China

B.S. '59, Taiwan Provincial Cheng Kung University; M.S. Ch.E. '65, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Study of Depressurization Phenomena. Major Adviser: Prof. H. S. Isbin.

Yong Sup Cho, Suwon, Korea

B.S. '58, Seoul National University; M.S. '61, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Studies on Nature of Resistance in Alfalfa to Bacterial Wilt. Major Adviser: Prof. M. F. Kernkamp.

Corindo Joseph Cipriani, Albany,
N.Y.

B.B.A. *magna cum laude* '64, City College of New York. Major: Economics. Minor: Supporting Program. Thesis: A Labor Market Model: Married Women. Major Adviser: Prof. N. J. Simler.

William M. Copa, Little Falls

B.S. '61, South Dakota State College. Major: Analytical Chemistry. Minor: Supporting Program. Thesis: Coulostatics at Solid Metal Electrodes. Major Adviser: Prof. Stanley Bruckenstein.

Lyle Richards Darnauer, St. Paul

B.A. '49, M.A. '60, State University of Iowa. Major: Sociology. Minor: Anthropology. Thesis: Social Psychology and Ethnography: A Study of Perindesam. Major Adviser: Prof. G. P. Stone.

Timothy Nichols Doyle, Minneapolis

B.A. '63, Denison University; M.A. '66, University of Maryland. Major: Speech Science, Pathology and Audiology. Minor: Psychology. Thesis: Auditory Temporal Summation with Variable Inter-Signal Intervals in Normal and Non-Normal Subjects. Major Adviser: Prof. F. M. Lassman.

Elwood Wayne Drehmel, Edina

B.S. in Econ. '58, M.A.P.A. '64, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Cost and Budget Parameters in Higher Education. Major Adviser: Prof. W. M. Ammentorp.

Lester Richard Drewes, Deshler, Ohio

B.S. '65, Capital University. Major: Biochemistry. Minor: Microbiology. Thesis: Fungal Polysaccharides: Structure and Biosynthesis of an Exocellular Phosphopoly-saccharide of *Penicillium charlesii*. Major Adviser: Prof. J. E. Gander.

Joseph Thornton Eastman, Minne-
apolis

B.A. '66, M.S. '68, University of Minnesota. Major: Zoology. Minor: Anatomy. Thesis: The Pharyngeal Bones and Teeth of Minnesota Cyprinid and Catostomid Fishes: Functional Morphology, Variation and Taxonomic Significance. Major Adviser: Prof. J. C. Underhill.

Jean Adams Ervin, Minneapolis

B.A. '46, Smith College; M.A. '63, University of Minnesota. Major: English. Minor: Art History. Thesis: Pope Among the Victorians. Major Adviser: Prof. R. E. Moore.

Gary Lewis Filerman, McLean, Va.

B.A. '59, M.H.A. '61, M.A.P.A. '63, University of Minnesota. Major: Hospital Administration. Minor: Political Science. Thesis: An Exploratory Field Study of the National Health Service of Chile: Health Services Organization in Two Communities. Major Adviser: Prof. T. J. Litman.

Robert Thomas Flint, Modesto, Calif.

B.A. '61, M.A. '63, San Francisco State College. Major: Psychology. Minor: Anthropology. Thesis: The Relationship of Women's Tenure in Occupational Therapy to Strong Vocational Interest Blank and Demographic Variables. Major Adviser: Prof. G. R. Hathaway.

Clifford Charles Fortin, Hamel

B.S. '43, M.A. '51, University of Minnesota. Major: Education. Minor: Library Science. Thesis: The Relation of Certain Personal and Educational Characteristics of School Librarians to Their Life Values and Work Satisfaction. Major Advisers: Profs. R. E. Eckert and C. J. Hoyt.

Robert Lovell Frey, Lynchburg, Va.

B.A. '60, Indiana Central College; M.A. '62, Pennsylvania State University. Major: History. Minor: Supporting Program. Thesis: A Technological History of the Locomotives of the Northern Pacific Railway Company. Major Adviser: Prof. R. C. Loehr.

Carl Evert Gall, Burlington, Ontario,
Canada

B.A.Sc. '55, University of Toronto; M.S. '62, Queen's University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Application of Functional Analysis to Some Chemical Reactor Stability and Control Problems. Major Adviser: Prof. Rutherford Aris.

Ulric Philbert McKell Gibson, Georgetown, Guyana

B.S.C.E. with honors '58, University of Edinburgh; M.S. '62, University of Minnesota. Major: Environmental Health. Minor: Hydrogeology. Thesis: Integrating Water Quality Management into Total Water Resources Management. Major Adviser: Prof. R. G. Bond.

Waldo Sumner Glock, Jr., St. Paul

B.A. '47, M.A. '48, Yale University. Major: English. Minor: Supporting Program. Thesis: The Plot of Tom Jones: Its Significance and Effect. Major Adviser: Prof. F. J. Montgomery.

Alicia Saavedra Go, Baybay, Leyte,
Philippines

B.S.E. magna cum laude '53, Silliman University; M.A. '64, California State Polytechnic College. Major: Education. Minor: Supporting Program. Thesis: The Effect of Phonemagrapheme Cues and Test-Study Spelling of First Year High School Students at Vac, Philippines. Major Adviser: Prof. E. M. Birksmaier.

Boyd William Goetzman, Olivia

B.S. '67, M.D. '67, University of Minnesota. Major: Physiology. Minor: Physical Chemistry. Thesis: Alveolocapillary Permeability to Albumin. Major Adviser: Prof. M. B. Visscher.

Wesley John Fred Grabow, Minneapolis

B.B.A. '44, M.A. '50, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: An Historical Study of an Audio-Visual Program at a Large University. Major Adviser: Prof. G. H. McCune.

R. Clyde Greer, Fort Collins, Colo.

B.S. in Agr. '64, Colorado State University; M.S. '68, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Analysis of Price Dispersion. Major Adviser: Prof. D. C. Dahl.

Lawrence Michael Gruman, Minneapolis

B.A. magna cum laude '64, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: The Distribution of Zeros of Entire Functions of Several Complex Variables and Their Asymptotic Growth. Major Adviser: Prof. Alfred Aeppli.

William Thornley Hamilton, Fort Dodge, Iowa

B.A. '61, University of Washington; M.A. '63; University of Maryland. Major: English. Minor: Supporting Program. Thesis: Alexander Wilson's America. Major Adviser: Prof. M. C. Turpie.

William Frith Harris, Johannesburg,
South Africa

B.S. (Eng.) '62, University of Witwatersrand; M.S. Ch.E. '64, University of Minnesota. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Defects in Surface Crystals. Major Adviser: Prof. L. E. Scriven.

Erhard Haus, St. Paul

M.D. '51, University of Innsbruck. Major: Pathology. Minor: Supporting Program. Thesis: Biologic Aspects of Chronopathology. Major Adviser: Prof. J. R. Dawson, Jr.

Stanley Earl Hedeon, Cincinnati,
Ohio

B.A. cum laude '65, Augustana College. Major: Zoology. Minor: Supporting Program. Thesis: The Ecology and Life History of the Mink Frog, *Rana Septentrionalis* Baird. Major Adviser: Prof. J. C. Underhill.

Wanda June Marcum Henton,
Hominy, Okla.

B.S. '61, Oklahoma State University; M.S. '63, University of Nebraska. Major: Home Economics. Minor: Supporting Program. Thesis: Problem Solving Through Conflict in Marriage. Major Adviser: Prof. Irving Tallman.

Henry Rohrs Hilgard, Santa Cruz,
Calif.

B.A. cum laude '58, Harvard College; M.D. '62, Stanford University. Major: Microbiology. Minor: Supporting Program. Thesis: Graft-Host Interactions of Lymphoid Tissues. Major Adviser: Prof. R. A. Good.

Richard Donald Jensen, Hartington,
Neb.

D.V.M. '64, Iowa State University. Major: Veterinary Pathology. Minor: Microbiology. Thesis: A Study of *Mycoplasma synoviae* Infection in Turkeys and Its Relationship to the Cervical Osteoarthropathy Syndrome. Major Adviser: Prof. Victor Perman.

Lucie Jeanne Rom Johnson, Louvain,
Belgium

Lic. en Sciences Pédagogiques with grande distinction '64, Université Catholique de Louvain. Major: Educational Psychology. Minor: Psychology. Thesis: A Program to Teach a Simple Abstraction: Its Application to Disjunctive Concept Learning. Major Adviser: Prof. Wells Hively.

Stanley Charles Johnson, Minnetonka
Beach

B.M.E. with distinction '59, M.S.I.E. '64, University of Minnesota. Major: Industrial Engineering. Minor: Statistics. Thesis: The Effective Allocation of Resources in a Nonprofit Organization. Major Adviser: Prof. G. W. McElrath.

Dale Orville Jorgenson, Fulda

B.A. magna cum laude '66, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: An Experimental Analysis of the Relationship Between Expectancy Attitudes and Behavior. Major Adviser: Prof. J. P. Campbell.

Gerald Wayne Kattke, Sioux Falls,
S.D.

B.S. '65, M.S.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Thermal Radiation. Major Adviser: Prof. Aldert Van Der Ziel.

Robert Warren Kent, Jr., Chestnut
Hill, Mass.

B.A. '59, Tufts College. Major: English. Minor: Classics. Thesis: The Poems of John Dyer: A Critical Edition. Major Adviser: Prof. S. H. Monk.

Yong Kwon Kim, Seoul, Korea

B.A. '54, M.A. '57, Seoul National University. Major: American Studies. Thesis: Alfred Stieglitz and His Times: An Intellectual Portrait. Major Adviser: Prof. M. C. Turpie.

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B.S. '54, Springfield College; M.A., '66, University of Nevada. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Prompting in Initial Reading Instruction. Major Adviser: Prof. B. E. Balow.

William Raymond Knolle, Carle
Place, N.Y.

B.S. '65, State University of New York at Stony Brook. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: An Electron Spin Resonance Study of Fluorinated Radicals. Major Adviser: Prof. J. R. Bolton.

John William Knudsen, Northfield

B.A. cum laude '62, St. Olaf College. Major: Economics. Minor: Supporting Program. Thesis: Balance of Payments Policy and Export Performance. Major Adviser: Prof. A. C. Krueger.

Carl Ernest Knutson, Benson

B.S. '47, Bemidji State College; M.A. '58, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: Comparison of Physical Fitness and Sports Skills Performance and Academic Achievement of Elementary School Pupils. Major Adviser: Prof. R. J. Donnelly.

Ralph Carl Kolbeck, St. Paul

B.A. '66, University of Minnesota. Major: Physiology. Minor: Biochemistry. Thesis: Factors Modifying the Contractile Effect on the Uptake of Sugars by the Isolated, Perfused Rat Diaphragm. Major Adviser: Prof. H. M. Cavert.

David Lachar, Detroit, Mich.

B.A. '66, Wayne State University. Major: Child Psychology. Minor: Psychology. Thesis: The Development of a Childhood Psychosis Scale, Using the Personality Inventory for Children (PIC). Major Adviser: Prof. R. D. Wirt.

Harold Frederick Langworthy,
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B.S. *cum laude* '62, Rensselaer Polytechnic Institute. Major: Mathematics. Minor: Physics. Thesis: Imprimitivity in Lie Groups. Major Adviser: Prof. L. W. Green.

James Dean Likens, Bakersfield, Calif.

B.A. with honors '60, M.B.A. '61, University of California. Major: Economics. Minor: Business Administration. Thesis: The Welfare Costs of Non-Optimal Airport Utilization: A Case Study of the Washington-Baltimore Airports. Major Adviser: Prof. H. D. Mohring.

Margery Cunningham Macoubrie,
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B.A. *summa cum laude* '63, M.A. '66, University of Minnesota. Major: Comparative Literature. Minor: Italian. Thesis: Modern Religious Drama in the Secular Theatre. Major Adviser: Prof. G. H. Weiss.

Warren William Marquardt, St. Paul

B.S. with distinction '59, D.V.M. '61, University of Minnesota. Major: Veterinary Bacteriology. Minor: Biochemistry. Thesis: The Production, Purification and Characterization of Active and Inactive Staphylococcal Alpha Toxin. Major Adviser: Prof. R. K. Lindorfer.

Joseph Melville Marshall, Somerset,
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B.S. '53, M.Ed. '55, Springfield College. Major: Education. Minor: Educational Administration. Thesis: Evaluation of Undergraduate Professional Preparation in Physical Education in Canada. Major Adviser: Prof. D. E. Richardson.

David Ralph L. Matthews, St. John's,
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B.A. with honors '64, Memorial University of Newfoundland; M.A. '67, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Communities in Transition: An Examination of Government Initiated Community Migration in Rural Newfoundland. Major Adviser: D. A. Martindale.

Stephen Ford McCool, Santa Ana,
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B.S. (For.) '65, University of Idaho; M.S. '67, University of Minnesota. Major: Forestry. Minors: Sociology and Mass Communication. Thesis: Dynamics of Interpersonal Interaction in the Forest Environment: An Exploration of Outfitter-Camper Relationships in the Boundary Waters Canoe Area. Major Adviser: Prof. L. C. Merriam, Jr.

Richard Alden Meisch, Minneapolis

B.A. *magna cum laude* '64, University of Minnesota. Major: Pharmacology. Minor: Psychology. Thesis: Self-Administration of Ethanol by the Rat. Major Adviser: Prof. F. E. Shideman.

Raghuvir Jagmohandas Mody, Baroda,
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B.A. '58, M.A. '60, University of Baroda. Major: Economics. Minor: Supporting Program. Thesis: A Critique of Monetary Policy in India, 1947-1967. Major Adviser: Prof. J. H. Karenken.

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B.S. '51, University of Manitoba; M.A. '53, University of Toronto. Major: Home Economics. Minor: Organic Chemistry. Thesis: Tensile Behavior of Irradiated Nylon. Major Adviser: Prof. Suzanne Davison.

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B.S. with honors '58, M.S. '60, Bihar University. Major: Metallurgical Engineering. Minors: Mathematics and Physics. Thesis: Cation Diffusion in Barium and Strontium Oxide Crystals. Major Adviser: Prof. R. A. Swalin.

Darby Miles Nelson, Anoka

B.S. with distinction '64, B.A. '64, M.S. '66, University of Minnesota. Major: Zoology. Minors: Botany and Fisheries. Thesis: Ecology of the Cosco, *Coregonus Arted* in Two Minnesota Lakes. Major Adviser: Prof. J. C. Underhill.

Curtis Duane Norenberg, Towner,
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B.S. '53, North Dakota State University;
M.Ed. '62, Colorado State University. Major:
Education. Minor: Educational Administration.
Thesis: An Interest Inventory of Vocational
Agriculture Teachers. Major Adviser: Prof. M.
J. Peterson.

Susan Dee Gordon Nummedal,
Walnut Creek, Calif.

B.A. '64, University of California. Major: Edu-
cational Psychology. Minor: Child Psychology.
Thesis: The Existence of the Substance-
Weight-Volume Decalage. Major Adviser:
Prof. F. B. Murray.

Frank Quentin Nuttall, Logan, Utah

B.S. '51, Utah State Agricultural College;
M.D. '55, University of Utah. Major: Bio-
chemistry. Minor: Organic Chemistry. Thesis:
Studies on the Hormonal and Non-Hormonal
Control of the Rat Heart Glycogen Transferase
System. Major Adviser: Prof. Joseph Larner.

Louis Henry Peters, Lake City

B.A. '60, University of Minnesota; M.S. '64,
University of Oregon. Major: Biochemistry.
Minor: Organic Chemistry. Thesis: The Effect
of Aluminum Phosphate on the Gastroin-
testinal Absorption of Fluoride from Diets
Containing Fish Protein Concentrate or Casein.
Major Adviser: Prof. Leon Singer.

Robert Victor Poirier, Loomis, Calif.

B.S. with distinction '65, Stanford University.
Major: Chemical Engineering. Minor: Physical
Chemistry. Thesis: Kinetic Studies with a Dis-
charge-Flow Reactor. Major Adviser: Prof. R.
W. Carr, Jr.

Jon Michael Prescott, Amarillo, Tex.

B.S. '65, M.S. '67, Oklahoma State University.
Major: Plant Pathology. Minor: Agronomy.
Thesis: Resistance and Virulence Relationships
in the *Triticum Aestivum* Puccinia Graminis
Tritici System. Major Adviser: Prof. M. F.
Kernkamp.

Edgardo Carlos Quisumbing, Cagayan,
De Oro City, Philippines

B.S.Agr. with honors '59, University of the
Philippines. Major: Horticulture. Minor: Plant
Physiology. Thesis: Influence of Succinic Acid
2,2-Dimethyl Hydrazide (B-995) on the Growth
and Fruiting Characteristics of the Pea (*Pisum
Sativum* L.). Major Adviser: Prof. R. E.
Nylund.

David Lee Rabas, Lena, Wis.

B.S. '65, Wisconsin State University; M.S. '69,
University of Minnesota. Major: Agronomy.
Minor: Plant Physiology. Thesis: The Rela-
tionship of HCN, Total Sugars, Dry Matter,
and Morphological Characteristics to Palata-
bility in Sorghum Species and Crosses. Major
Adviser: Prof. A. R. Schmid.

Putchakayala Srinivasa Rao, Gunter,
India

B.E. '61, Andhra University; M.S. '67, Univer-
sity of Minnesota. Major: Electrical Engineer-
ing. Minor: Mathematics. Thesis: A Theoreti-
cal Study of Excess Noise in Mosfet's. Major
Adviser: Prof. Aldert Van Der Ziel.

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Germany

Staats examen '62, Universitat Munster; M.A.
'65, University of Minnesota. Major: German.
Minors: Germanic Philology and French. The-
sis: Hans Erich Nossack als Betrachter und
Kritiker Seiner Zeit (A Critical Observer of
His Age). Major Adviser: Prof. F. D. Hirsch-
bach.

John Walter Ring, St. Paul

B.A. '51, M.Ed. '58, Macalester College. Ma-
jor: Education. Minor: Educational Psychol-
ogy. Thesis: Peirce's Contribution to a Logic
of Discovery. Major Adviser: Prof. R. H.
Beck.

Laurence Charles Rodgers, Seattle,
Wash.

B.S.M.E. '62, M.S.M.E. '64, University of
Washington. Major: Mechanics and Materials.
Minor: Mathematics. Thesis: Dynamic Stability
of Curved Rods. Major Adviser: Prof. W. H.
Warner.

Alan Paul Roelfs, Stockton, Kan.

B.S. in Agr. '59, M.S. '64, Kansas State Uni-
versity. Major: Plant Pathology. Minor: Plant
Genetics. Thesis: Gradients in Horizontal Dis-
persal of Cereal Rust Uredospores. Major Ad-
visers: Profs. J. B. Rowell and R. W. Romig.

Herbert Samuel Rutman, Minneapolis

B.A. cum laude '58, University of Minnesota;
M.A. '65, Kansas State University. Major: His-
tory. Minor: Supporting Program. Thesis: De-
fense and Development: A History of Min-
neapolis Jewry, 1930-1950. Major Adviser:
Prof. Hyman Berman.

Paz Eulalia Lacuna Saplala, College,
Laguna, Philippines

B.A. cum laude '53, University of the Philip-
pines; M.A. '56, State University of Iowa.
Major: English. Minor: Art History. Thesis:
Renaissance Psychology and the Plays of
Thomas Middleton. Major Adviser: Prof. G.
W. O'Brien.

Shil Kumar Saxena, Jabalpur, (MIP)
India

B.S. '51, Bombay University; M.S. '58, Uni-
versity of Illinois. Major: Veterinary Physi-
ology. Minor: Biochemistry. Thesis: Effect of
Alkali Treatment of Forage and Nitrogen
Source on Energy and Nitrogen Utilization in
Ruminants. Major Adviser: Prof. A. L. Good.

David Ernest Scanlan, Newark, N.J.

B.A. '57, University of California; M.A. '60,
University of Minnesota. Major: Theatre.
Minors: English and Scandinavian Drama.
Thesis: Comic Form in Strindberg's Natural-
istic Drama. Major Adviser: Prof. F. M
Whiting.

David Lowell Seaquist, Nye, Wis.

B.A. '57, Bethel College. Major: Psychology.
Minor: Educational Psychology. Thesis: An
Investigation of the Effectiveness of a Pro-
grammed Interpretive Guide to the Strong
Vocational Interest Blank. Major Adviser:
Prof. L. H. Lofquist.

Lawrence Gale Shelton, Carrollton,
Ill.

B.A. cum laude '65, Harvard College; M.A.
'67, University of Minnesota. Major: Child
Psychology. Minor: Psychology. Thesis: The
Role of Anxiety and Social Comparison in the
Instigation of Cheating. Major Adviser: Prof.
W. W. Hartup.

Betty Jane Sherman, Washington,
Mich.

B.A. '65, Oakland University; M.A. '66, Uni-
versity of Minnesota. Major: Political Science.
Minor: Supporting Program. Thesis: Political
Parties and Political Development: An Explora-
tory Study of Legislators' Perceptions in the
Indian States of Punjab and Haryana. Major
Adviser: Prof. R. T. Holt.

Ying Ming Shy, Taichung, Taiwan

B.S. Eng. '62, National Taiwan University;
M.S.M.E. '67, University of Minnesota. Major:
Metallurgical Engineering. Minor: Physics.
Thesis: The Structure and Electrical and Su-
perconducting Properties of Niobium Nitrides
Thin Films. Major Adviser: Prof. L. E. Toth.

Patrick Joseph Starr, St. Paul

B.M.E. '62, M.S.M.E. '66, University of Min-
nesota. Major: Mechanical Engineering. Minor:
Mathematics. Thesis: Dynamic Mechanism
Synthesis Via Optimal Control. Major Adviser:
Prof. D. A. Frohrib.

Ruth Meyerson Stein, Minneapolis

B.A. '46, University of California, Los Angeles;
B.S. '61, M.A. '65, University of Minnesota.
Major: Education. Minor: History. Thesis: A
Method for Studying the Children's Literature
of a Foreign Country Using the Children's
Literature of Israel as the Case Study. Major
Adviser: Prof. Norine Odland.

Gayle V. Stone, Minneapolis

B.A. '65, Northwestern College. Major: Psy-
chology. Minor: Educational Psychology. The-
sis: The Relationship Between Personality and
Work Need-Reinforcer Correspondence. Major
Adviser: Prof. R. G. Warnken.

Robert Norman Stone, West Olive,
Mich.

B.S. '53, Michigan State University; M.S. in
For. '55, Montana State University. Major:
Forestry. Minor: Agricultural Economics. The-
sis: A Comparison of Woodland Owner Intent
with Woodland Practice in Michigan's Upper
Peninsula. Major Adviser: Prof. R. A. Skok.

Sara Lyons Sudo, Minneapolis

B.A. summa cum laude '65, M.S. '68, Univer-
sity of Minnesota. Major: Microbiology.
Minor: Biochemistry. Thesis: Separation of
Partial Characterization of Extracellular Bac-
teriolytic Enzymes from *Myxococcus Xanthus*.
Major Adviser: Prof. Martin Dworkin.

James Edward Swearingen, Jackson-
ville, Fla.

B.A. '61, M.A. '62, North Texas State Uni-
versity. Major: English. Minor: Philosophy.
Thesis: The Critical Reception of Gray's
Poems: 1747-1889. Major Adviser: Prof. R. E.
Moore.

Erik Ingvar Thurin, Lund, Sweden

F.K. '50, F.M. '52, F.L. '57, University of
Gothenburg. Major: English. Thesis: A Love
Impersonal or the Identity of Ralph Waldo
Emerson. Major Adviser: Prof. C. H. Foster.

Armand Ronald Tjong-A-Hung,
Paranaribo, Surina, me.

B.S. '65, M.S. '68, University of Minnesota.
Major: Animal Science. Minors: Biochemistry
and Physiology. Thesis: Effects of Protein
Level Sequence, and Sex, on Rate and Effi-
ciency of Gain of Growing Swine, and on
Carcass Characteristics Including Composition
of Lean Tissue. Major Advisers: Profs. L. E.
Hanson and R. J. Meade.

James Richard Tobias, Columbia
Heights

B.S. with distinction '62, M.S.M.E. '63, Uni-
versity of Minnesota. Major: Mechanical Engi-
neering. Minor: Electrical Engineering. Thesis:
The Design of Planar Mechanisms with Dis-
tributed Flexibility and Inertia. Major Adviser:
Prof. Katsuhiko Ogata.

George Dimitri Tselos, Monmouth,
Ill.

B.A. '61, Carleton College; M.A. '65, Univer-
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Political Science. Thesis: The Minneapolis
Labor Movement in the 1930's. Major Adviser:
Prof. Hyman Berman.

Ralph Charles Underwager, St. Paul

B.A. '51, Concordia Seminary. Major: Psy-
chology. Minor: Neuropsychiatry. Thesis: Sta-
tistical Ecclesiology. Major Adviser: Prof. P. E.
Meehl.

George Edward Veatch, Jr., Thawville,
Ill.

B.S. with highest honors '64, M.S. '65, Uni-
versity of Illinois. Major: Electrical Engi-
neering. Minor: Mathematics. Thesis: Processes
Occurring in Decaying Rare Gas Plasmas.
Major Adviser: Prof. H. J. Oskam.

Herman Lecil Warren, Tyler, Tex.

B.S. in Agr. '53, Prairie View Agricultural and
Mechanical College of Texas; M.S. '62, Michi-
gan State University. Major: Plant Pathology.
Minor: Plant Physiology. Thesis: Ecological
Factors Affecting the Prevalence of *Fusarium*
Species Associated with Roots of Crop Plants.
Major Adviser: Prof. Thor Kommedahl.

Chris Weintz, St. Paul

B.S. in Ed. with high honor '55, M.S. in Ed.
'56, Northern State College. Major: English.
Minor: Art History. Thesis: Frederick God-
dard Tuckerman: A Prophet of Perfected
Grief. Major Adviser: Prof. C. H. Foster.

Jane Idell Wenger, Halifax, Pa.

B.S. cum laude '65, Elizabethtown College;
M.S. '68, University of Minnesota. Major:
Biochemistry. Minor: Organic Chemistry. The-
sis: Mitochondrial Alcohol Dehydrogenase from
Saccharomyces Cerevisiae. Major Adviser: Prof.
G. A. Fleisher.

Frithjof Orval Martinus Westby,
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B.S. in Ed. '41, Northern State Teachers
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Major: Sociology. Minor: Political Science.
Thesis: The Blue-Collar Worker: A Study of
Socio-Cultural Influences on Work Behavior.
Major Adviser: Prof. D. A. Martindale.

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B.A. cum laude '58, Bryn Mawr College; M.A.
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B.A. '64, Boston College; M.S.W. '66, Uni-
versity of Michigan. Major: Social Work.
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for Child Care Institutions. Major Adviser:
Prof. Gisela Konopka.

Chorngh-Huey Wong, Chiayi, Taiwan

B.A. in Econ. '62, National Taiwan University.
Major: Economics. Minor: Supporting Pro-
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Behavior. Major Adviser: Prof. M. K. Richter.

Bertram Ford Woolfrey, St. Paul

B.A. magna cum laude '50, M.D. '55, Uni-
versity of Minnesota. Major: Pathology. Minor:
Hematology. Thesis: An Investigation Con-
cerning the Validity of Thin Substrate Film
Techniques for the Historical Detection of
Ribonuclease Activity. Major Adviser: Prof. J.
R. Dawson, Jr.

Grenith Johnson Zimmerman,
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B.A. '58, M.S. '61, University of Minnesota.
Major: Mathematics. Minor: Statistics. Thesis:
Topics in Multiparameter Processes. Major
Adviser: Prof. Gopinath Kallianpur.

Robert Laurence Zimmermann, Min-
neapolis

B.A. cum laude '64, M.A. '66, University of
Minnesota. Major: Psychology. Minors: Psy-
chiatry and Neurology. Thesis: Validation of
Family Ratings of Psychiatric Patients. Major
Adviser: Prof. G. T. Heistad.

Master of Arts

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B.S. *cum laude* '65, University of Minnesota. Field of Concentration: History. Major Adviser: Prof. E. N. Livingston.

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B.Ed. '66, Chulalongkorn University. Major: Educational Psychology. Minor: Sociology. Thesis: Visual Discrimination Training and Facilitation in Learning Letter Names. Major Adviser: Prof. S. J. Samuels.

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B.A. '68, University of Sheffield. Major: Geography. Minor: Architecture. Thesis: Offices — An Element of Urban Geography: The Case of Minneapolis, Minnesota. Major Adviser: Prof. J. R. Borchert.

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B.A. *summa cum laude* '68, University of Minnesota. Major: German. Minor: Italian. Thesis: Georg Büchner's *Dantons Tod* — the Epitome of Man. Major Adviser: Prof. W. F. Taraba.

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William Marks Bomash, Minneapolis

B.A. '64, Knox College. Major: Area Studies. Thesis: The Role of the *Herredage* (1523-1533) in the Danish Reformation. Major Adviser: Prof. Nils Hasselmo.

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B.A. *magna cum laude* '65, University of Minnesota. Major: Speech-Communication. Minor: Spanish. Thesis: The Development of Chilean Television: 1959 to 1965. Major Adviser: Prof. L. D. Bart.

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B.S. in Nur. '67, Loretto Heights College. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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B.S.N. *magna cum laude* '63, University of Pittsburgh. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

Jane Price McKinnon, White Bear Lake

B.S. with high distinction '57, University of Minnesota. Field of Concentration: Horticulture. Major Adviser: Prof. Robert Mullin.

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B.S. with honor '64, Michigan State University. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

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B.S.N. '61, State University of Iowa. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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

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B.S.N. '66, Baylor University. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

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B.S. in Phys. with honors '68, University of North Carolina. Major: Physics. Minor: Mathematics. Thesis: Infrared Observations of the Temperature of the Planet Mercury. Major Adviser: Prof. E. P. Ney.

James Dennis Neaton, Galveston, Tex.

B.S. cum laude '69, University of Minnesota. Major: Biometry. Minor: Mathematics. Thesis: An Investigation of the Partitioning of the Total Mean Difference. Major Adviser: Prof. E. A. Johnson.

Lyman Henry O'Neal, St. Paul

B.A. '63, Oakland City College. Major: Entomology. Minor: Zoology. Thesis: An Evaluation of Injury by *Lygus lincolaris* to Alfalfa Grown for Forage in Minnesota. Major Adviser: Prof. A. G. Peterson.

Robert Davis Rickard Parker, Honolulu, Hawaii

B.A. '64, M.S. '67, University of Hawaii. Field of Concentration: Environmental Health. Major Adviser: Prof. T. A. Olson.

Philly Lin-Moo Peng, Taipei, Taiwan

B.S. in Ag. '65, National Taiwan University. Major: Entomology. Minor: Zoology. Thesis: Resistance of *Medicago* to Mirid Attack. Major Adviser: Prof. E. B. Radcliffe.

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B.S.B.A. '66, University of South Dakota. Field of Concentration: Business Administration. Major Adviser: Prof. J. K. Simmons.

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B.E. (Vic.) '66, N.E.D. Government Engineering College. Field of Concentration: Civil Engineering. Major Adviser: Prof. P. P. Christiano.

Stephen Allen Richards, St. Paul

B.S. in Econ. '65, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. J. R. Nelson.

David Robin Richmond, Sydney,
Australia

M.B.Ch.B. '61, Leeds University. Major: Physiology. Minor: Biometry. Thesis: Measurement of Regional Myocardial Blood Using ^{131}I -Macroaggregates of Albumin. Major Adviser: Dr. J. B. Bassingthwaighte.

James Scott Seck, Minneapolis

B.Math with high distinction '68, University of Minnesota. Major: Computer and Information Science. Minors: Mathematics and Physics. Thesis: A Third Order Iterative Method for Solution of an Equation $F(x) = 0$. Major Adviser: Prof. K. S. Frankowski.

Muwaffaq M. Shayota, Detroit, Mich.

B.S.C.E. '68, Wayne State University. Field of Concentration: Mechanics. Major Adviser: Prof. Robert Plunkett.

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B.S. cum laude '68, Wagner College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

Boo Shik Shin, Seoul, Korea

B.S. '63, Ewha Womans University. Major: Pharmacognosy. Minor: Biochemistry. Thesis: Lipid Analysis of Selected Plant Tissue Culture. Major Adviser: Prof. E. J. Staba.

Warren Neil Sifferath, Farmington

B.S. '61, University of Minnesota. Field of Concentration: Animal Science. Major Adviser: Prof. D. E. Otterby.

Robert Albert Smith, Minneapolis

B.S.B. with distinction '67, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: Marketing Research Communication. Major Adviser: Prof. C. W. Rudelius.

Charanjit Singh Sra, Chapais, Quebec, Canada

A.C.S.M. '63, Cambourne School of Metaliferous Mining. Field of Concentration: Mineral Engineering. Major Adviser: Prof. E. P. Pfeider.

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B.S.N. '68, Duquesne University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. N. I. Harris.

Donald Arthur Stulc, McGrath

B.A. '67, University of Minnesota. Major: Analytical Chemistry. Minor: Physical Chemistry. Thesis: Spectrophotometric Determination of Dissolved Oxygen. Major Adviser: Prof. T. J. Bydalek.

Dale Gustaf Swan, St. Louis Park

B.A. '63, Bethel College. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Bicyclo-[3,3,0]-Octane-3,7-Dione: a Possible Precursor of Dodecahedrane. Major Adviser: Prof. C. F. Koelsch.

David Peter Swendsrud, Carlisle

B.S. '66, Moorhead State College. Major: Plant Physiology. Minor: Plant Pathology. Thesis: Physiological Studies on *Darluca Filum*, a Hyperparasite of Uredinales. Major Adviser: Prof. Lucas Calpouzos.

Eugene Harmon Thompson, Austin

B.S. '67, University of Minnesota. Major: Animal Science. Minor: Biochemistry. Thesis: The Relationship Between the Rate of *In Vitro* Enzymatic Desaturation of Stearate and the Stearate/Oleate Ratios of Animal Tissues. Major Adviser: Prof. C. E. Allen.

Sandra Evelyn Larsen Titus, Palo Alto, Calif.

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

Victor Van Ballenberghe, St. Paul

B.S. '66, State University Teachers College, Oneonta, New York. Major: Wildlife. Minor: Ecology. Thesis: Movements, Home Range and Habitat Use of Moose as Determined by Radio-Tracking. Major Adviser: Prof. R. J. Mackie.

Phillip Valere Vanderschaegen, Iron Belt, Wis.

B.S. '67, Wisconsin State University. Major: Wildlife. Minor: Ecology. Thesis: Food Habits of Ruffed Grouse at the Cloquet Forest Research Center, Minnesota. Major Adviser: Prof. W. H. Marshall.

Richard Jerome Wedlund, Minneapolis

B.A. '63, University of Minnesota. Field of Concentration: Entomology. Major Adviser: Prof. E. F. Cook.

Frank Joseph Wilary, Jr., Cicero, Ill.

B.S. '66, Knox College. Major: Analytical Chemistry. Minors: Inorganic Chemistry and Physical Chemistry. Thesis: A Study of Methods for the Electro-Analytical Determination of Oxide in Fused $\text{NaNO}_3\text{-KNO}_3$ at 250°C . Major Adviser: Prof. H. S. Swofford, Jr.

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B.A. '68, University of Minnesota. Field of Concentration: Ecology. Major Adviser: Prof. D. B. Siniff.

Master of Science in Aerospace Engineering

Leslie Louis Kumpula, Minneapolis

B.E.E. '62, University of Minnesota. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. H. G. Heinrich.

Master of Science in Agricultural Engineering

Richard Edward Nicolai, Hector

B.Agr. Eng. '65, University of Minnesota. Major: Agricultural Engineering. Minor: Industrial Engineering. Thesis: Design of a Covered Hopper Railroad Car Leader for Bulk Handled Potatoes. Major Adviser: Prof. John Strait.

Fabio Tobon, Cali, Colombia

Ing.Agr. '66, Universidad Nacional de Colombia. Field of Concentration: Agricultural Engineering. Major Adviser: Prof. E. R. Allred.

Master of Science in Chemical Engineering

Wayne Arthur Gifford, Buffalo, N.Y.

B.S. with distinction '68, Clarkson College of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Flotation Stability and Interaction Between Flotation Particles. Major Adviser: Prof. L. E. Scriven.

Master of Science in Civil Engineering

Janq Shyong Chiou, Taiwan, China

B.A. in Eng. '67, National Taiwan University. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. T. Hanley.

Wu-Seng Lung, Wuchow, China

B.S.E. '67, Taiwan Cheng Kung University. Major: Civil Engineering. Minor: Mathematics. Thesis: Vibration of Cavitating Body. Major Adviser: Prof. C. C. S. Song.

Master of Science in Dentistry

Leonard Victor Ackermann, Minneapolis

D.D.S. '68, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Genetic Study of Class III Malocclusion. Major Adviser: Dr. R. J. Isaacson.

Glen Del Anderson, Minneapolis

D.D.S. '62, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Influence of Major Connector Design on the Dimensional Accuracy of Cobalt Chromium Castings for Removable Partial Dentures. Major Adviser: Dr. E. S. Olsen.

James Lee Baker, Bloomington

D.D.S. '65, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Cephalometric Evaluation of the Occlusal Plane and the Axial Inclination of the Anterior Teeth in Complete Denture Wearers. Major Adviser: Dr. E. S. Olsen.

David Dale Benson, Minneapolis

B.S. '63, D.D.S. '65, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Study of the Rate of Bone Repair. Major Adviser: Dr. D. E. Waite.

James David Dresen, St. Paul

D.D.S. '65, Marquette University. Major: Dentistry. Minor: Anatomy. Thesis: An Evaluation of the Bennett Angle by Pantographic Survey and by Mathematical Determination (Hanau's Formula). Major Adviser: Dr. E. S. Olsen.

Michael Warren Geiser, Minneapolis

B.S. '65, D.D.S. '65, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Comparative Sealability of Four Cements for Sealing Root Canals. Major Adviser: Dr. J. R. Jensen.

Robert Henry Grossman, St. Paul

D.D.S. '68, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Laminographic Cephalometric Survey of Some Variables Involved in the Application of Extra-Oral Traction on the Maxillary First Permanent Molar. Major Adviser: Dr. R. J. Isaacson.

John Richard Isaacson, St. Paul

B.S. with distinction '64, D.D.S. '66, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Analysis of Some Vertical Growth Measurements in Extreme Variations in Anterior and Posterior Facial Height. Major Adviser: Dr. R. J. Isaacson.

Douglas Arthur Jolstad, Hopkins

D.D.S. '66, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Laminographic Evaluation of Relapse Following the Discontinuance of Class II Intermaxillary Elastics. Major Adviser: Dr. R. J. Isaacson.

Joyce M. Heckenlaible LeFebvre,
White Bear Lake

D.D.S. '68, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Effect of Low Temperatures on the Oral Mucous Membrane. Major Adviser: Dr. L. E. A. Folke.

Thomas Arvid Molin, St. Paul

D.D.S. '68, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Evaluation of Some Dental and Facial Skeletal Changes Following Maxillary Orthopedics. Major Adviser: Dr. R. J. Isaacson.

Master of Science in Electrical Engineering

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B.S.E.E. '59, Iowa State College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Gerald Michael Heiling, Redwood Falls

B.E.E. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Second Harmonic Generation at 3164 Angstroms with a Phase-Locked Ring Amplifier. Major Adviser: Prof. J. A. Carruthers.

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B.A. '61, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Influence of High-Order Modes in the Guided Wave Faraday Effect in Semiconductors. Major Adviser: Prof. Allen Nussbaum.

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

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B.S.E.E. '68, Robert College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. Allen Nussbaum.

Edward Ralph Wuori, Hibbing
B.E.E. '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Magnetic Properties of Magnetic Thin Films. Major Adviser: Prof. D. E. Speliotis.

Master of Science in Industrial Engineering

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B.E.E. '63, University of Delhi. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Praveen Chander Jolly, Chandigarh, India
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B.Tech. with honors '68, Indian Institute of Technology. Major: Industrial Engineering. Minor: Statistics. Thesis: A Study of Drug Distribution System in the University of Minnesota Hospitals. Major Adviser: Prof. S. R. Arora.

Kanchan Vinayak Nabar, Bombay, India
B.E. (Mech.) '66, University of Bombay. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Hanuman Mall Pugalia, India
B.S. (Eng.) '67, Birla Institute of Technology. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Chinnakonda Krishnamachari Radhamohan, Madurai, India
B.E. (Mech.) '68, University of Madras. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Narayanaswamy Sethuraman, Madras, India
B.E. (Mech.) '64, University of Madras. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Agam Nath Sinha, Srinagar, Bihar, India
B.Tech. '68, Indian Institute of Technology. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Master of Science in Mechanical Engineering

Rolf Donald Anderson, Minneapolis
B.Mech.Eng. with distinction '68, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. K. T. Whitby.

Larry Kent Johnson, Reeds Ferry, N.H.
B.S.M.E. '65, Northwestern University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Dev Raj Malik, New Delhi, India
B.S.Eng. (Mech.) '63, Ranchi University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

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B.S.E. '68, Regional Institute of Technology. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Atluri Sivaram Prasad, Hyderabad, India
B.E. (Mech.) with distinction '68, Osmania University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. K. T. Whitby.

Seshan Rammohan, Sindri, India
B.Tech. (Mech.) '68, Indian Institute of Technology. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

Master of Science in Medicine (Internal)

Paul Henry Andreini, Rochester
B.A. '55, M.D. '58, McGill University. Major: Medicine (Internal). Minor: Biochemistry. Thesis: Phagocytosis and Uricolysis of C^{14} Labeled Sodium Urate Crystals by Leucocytes. Major Adviser: Dr. L. E. Ward.

Master of Science in Metallurgical Engineering

Surendra Gupta, Delhi, India
B.S. '61, M.S. '63, University of Delhi. Field of Concentration: Metallurgical Engineering. Major Adviser: Prof. J. M. Sivertsen.

Bruce Donald Hanson, Eyota
B.M.E. '68, University of Minnesota. Major: Metallurgical Engineering. Minor: Physics. Thesis: Electron Transfer in Fifth and Sixth Group Transition Metal Borides. Major Adviser: Prof. L. E. Toth.

Master of Science in Mineral Engineering

John Aurel Belanger, Sudbury, Ontario, Canada
B.Eng. '68, McMaster University. Field of Concentration: Mineral Engineering. Major Adviser: Prof. E. P. Pfeider.

Guy Allen Johnson, Hoyt Lakes
B.M.E. '67, University of Minnesota. Major: Mineral Engineering. Minor: Business Administration. Thesis: An Engineering Study of the Stripping of Muskeg from a Mesabi Range Taconite Deposit. Major Adviser: Prof. E. P. Pfeider.

Master of Science in Orthopedic Surgery

Darrell Ervin Fisher, Mason City,
Iowa

M.D. '61, State University of Iowa. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Corticosteroid Induced Aseptic Necrosis. Major Adviser: Dr. W. H. Bickel.

Master of Science in Otolaryngology

Philip John Furman, Rochester

M.D. '63, University of Pennsylvania. Major: Otolaryngology. Minor: Anatomy. Thesis: Experimental Studies of Electro-depolarization of the Facial Nerve for Hemifacial Spasm. Major Adviser: Dr. K. M. Simonton.

Master of Science in Pathology

Orhan Mukbil Bulay, Ahwaz, Iran

M.D. '56, University of Ankara. Major: Pathology. Thesis: The Study of Development of Lung and Skin Tumors in Mice Exposed In Utero to Polycyclic Hydrocarbons. Major Adviser: Prof. J. F. Dawson, Jr.

Master of Science in Surgery

James Eugene DeMeules, Minneapolis
B.S. '59, College of St. Thomas. Major: Surgery. Minor: Pathology. Thesis: Comparison of Hemodilution vs Hemologous Blood Perfusion in the Immature Animal. Major Adviser: Dr. J. F. Perry, Jr.

William Reginald Shamblin, Tuscaloosa, Ala.

M.D. '62, Tulane University. Major: Surgery. Minor: Pathology. Thesis: The Behavior of Carotid Body Tumors: A Clinical and Histopathological Investigation. Major Adviser: Dr. W. H. ReMine.

Master of Science in Urology

William Loomis Furlow, Rochester

B.A. '48, M.D. '53, George Washington University. Major: Urology. Minor: Pathology. Thesis: The Re-Establishment of Ureteral Continuity Using a Mechanical Stapler: An Experimental Study. Major Adviser: Dr. D. C. Utz.

Master of Social Work

James E. Abts, Cottage Grove

B.S. '60, Winona State College. Field of Concentration: Social Work. Major Adviser: Prof. C. L. Bower.

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

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B.A. '63, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. M. R. Cohn.

Janet Muriel Kellogg, Minneapolis

B.A. '68, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. B. E. Compton.

Hi-Taik Kim, Seoul, Korea

B.A. '63, Korea School of Social Welfare; B.A. '66, Dan Kook College. Field of Concentration: Social Work. Major Adviser: Prof. H. J. Yesner.

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Field of Concentration: Educational Psychol-
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tion: Educational Psychology. Major Adviser:
Prof. F. H. Wood.

James Sheldon Omdal, Minneapolis
B.S. with distinction '62, M.A. '68, Univer-
sity of Minnesota. Field of Concentration:
Educational Psychology. Major Adviser: Prof.
M. D. Hall.

Arthur Laurence O'Neil, Sauk Centre
B.S. with honor '51, Winona State Teachers
College; M.A. '57, University of Minnesota.
Field of Concentration: Educational Adminis-
tration. Major Adviser: Prof. N. C. Nickerson.

John Arthur Schoen, Aurora
B.S. '50, M.A. '69, University of Minnesota.
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Marilyn Esther Sorensen, Minneapolis
B.S. '56, M.A. '68, University of Minnesota.
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ogy. Major Adviser: Prof. D. G. Force, Jr.

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Heights

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Michael Walter Cudmore, Interna-
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Harley L. Prell, Little Falls

Thomas George Ranney, Wheaton
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Terry Michael Bedin, Minneapolis
Sherwin John Belisle, Minneapolis
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Diane C. Determan, Minneapolis
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Julianne Page, St. Paul
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Bachelor of Arts

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 Peggy Sue Brown, St. Paul, SUMMA CUM LAUDE, English
 Tedreen Kay Brox, St. Paul
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 Tamara Ann Bryant, Minneapolis
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 Douglas Baird Fink, St. Paul
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 LAUDE, Economics
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 apolis, SUMMA CUM LAUDE,
 Humanities
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Michael Joseph Gardner, St. Paul

Linda Marie Garvey, Minneapolis, *SUMMA CUM LAUDE*, Social Welfare

Joan Annette Gathje, Stewartville, *SUMMA CUM LAUDE*, Biology

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Barbara Jean Gavin, Richfield

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Marion Levitan Gepner, St. Paul

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 Ohio
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 Moines, Iowa
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 apolis
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 Harbors

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 Valley
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 apolis, WITH DISTINCTION
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 Louis Park
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Milton Robert Bellin, Minneapolis
John DeWitt Binford, Robbinsdale
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WITH DISTINCTION*
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Iroquois Falls, Ontario, Canada
LeRoy Charles Damar, Isle
John Lawrence Edmundson, Wichita,
Kan.
Keith Douglas Ernst, Donnelly
Joseph Felder, Jr., Minneapolis
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Marcel Edward Hoffmann, Jr., Sleepy
Eye
*Peter Lynn Hovde, Edina, WITH
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Maxallen Duane Jackson, South St.
Paul
*Gary Lynn Kaiser, Wells, WITH
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Richard Carl Lien, Austin
Richard Allen Lippert, Blomkest
Arthur Edward Patterson, Duluth
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Paul, WITH DISTINCTION*
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Michael Andrew Regan, Minneapolis
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Gary Henry Schoeppner, LeSueur
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Park

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Heights
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Peter Lantz Pastika, Babbitt

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Donovan Michael Bakalyar, Circle
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Stephen Jeffrey Davidson, St. Louis
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netonka

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nomics
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nomics
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apolis, Home Economics
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Agriculture
Joy Carol Anthony, Norseland, Home
Economics
Cynthia Jean Archibald, South St.
Paul, Home Economics
Janice Marie Bahr, Humboldt, Home
Economics
Blaine Paul Baker, A.A., Austin, WITH
DISTINCTION, Forestry
William Harvie Baker, Deerwood,
Forestry

Raymond Russell Barks, Sebeka,
Agriculture
Diane Mary Bechtloff, Minnetonka,
Home Economics
Carol Frances Berger, St. Paul, Home
Economics
Lyle Keith Best, Sleepy Eye, Agricul-
ture
Alden Michael Booren, Forest Lake,
Agriculture
Gene Elliott Borud, Fosston, Agricul-
ture
Michael Kenneth Brandt, St. Paul,
Forestry
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culture
Thomas Francis Brokl, Minnetonka,
Forestry
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- Alfred Benjamin Burt, Minneapolis, Forestry
- Barbara Louise Busch, St. Paul, Home Economics
- Linda Stetler Cahalan, Minneapolis, Home Economics
- Leon Leslie Carlson, A.A., Pillager, Agriculture
- Jeremiah Patrick Cashman, Minneapolis, Agriculture
- Steven Victor Christensen, Lambert, Agriculture
- Dell Marlow Christianson, Thief River Falls, WITH HIGH DISTINCTION, Agriculture
- Raymond Matthew Claesgens, Minneapolis, Forestry
- Susan Lundgren Clausen, Cushing, Wis., Home Economics
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- Andrea Lynn Dangerfield, Minneapolis, Home Economics
- Janet Marie Danielson, Jackson, Home Economics
- Robert Adair Davis, St. Paul, Agriculture
- Keith Darwin Delzer, Dodge Center, Forestry
- Mary Leeila Dooley, A.A., Austin, Home Economics
- Charlene Marie Draheim, Spring Lake Park, WITH DISTINCTION, Home Economics
- Philip Charles DuFrene, St. Paul Park, Forestry
- Robert John Dunne, A.A., Paynesville, Agriculture
- Mary Jane Edin, Hinckley, Home Economics
- Mary Kathryn Elias, Cokato, WITH DISTINCTION, Home Economics
- Daniel Evavold, Ashby, Agriculture
- James Howard Eychaner, Dekalb, Ill., WITH HIGH DISTINCTION, Forestry
- Jane Ann Fahning, Cleveland, Home Economics
- Gary Franklin Fay, Minneapolis, Forestry
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- Stanley Lowell Finkelson, St. Paul, Agriculture
- Sandra Kay Ford, A.A., Burnsville, Home Economics
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- William Everett Freeman, St. Paul, Forestry
- Patricia Clare Gangelhoff, Minneapolis, WITH DISTINCTION, Home Economics
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- Susan Katherine Gengler, Anoka, Home Economics
- Bruce Howard Gerbig, Faribault, WITH HIGH DISTINCTION, Forestry
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- Carole June Grafstrom, St. Paul, Home Economics
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- Frederick John White, North St. Paul, Forestry*
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- Richard Owen Wigley, Lake Crystal, Agriculture*
- Daniel Harry Wilson, Remer, Forestry*
- Stephen Gordon Wilson, A.A., Round Lake, Agriculture*
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- Donna Marie Wittrock, Waseca, Home Economics*
- William Robert Wykoff, Richland, Wash., WITH DISTINCTION, Forestry*
- Janet Marie Ziebol, Minneapolis, Home Economics*
- Lawrence Joseph Zilliox, Belgrade, Agriculture*

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Home Economics Education
- Susan Jean Anderson, Minneapolis,
Home Economics Education
- Jacqueline Mary Baran, Hinckley,*
WITH DISTINCTION, Home Eco-
nomics Education
- Gerald Earl Bartel, Kasson, Agri-
cultural Education
- Patricia Isora Bathke, Waseca,* WITH
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- Linda May Hallquist Berg, Hopkins,
Home Economics Education
- Frank A. Bezdicek, Jackson, Agri-
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Home Economics Education
- Robert Edward Bollesen, Tyler, Agri-
cultural Education
- Ann Stiefel Booren, St. Paul Park,
Home Economics Education
- Norman Arthur Busse, Prior Lake,
Agricultural Education
- Susan Elizabeth Kromer Campbell,
Bloomington, Home Economics
Education
- Ione Mae Carlson, Atwater, Home
Economics Education
- Barbara Irene Carter, A.L.A., Minne-
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- Cheryl Lee Coady, B.S., St. Paul,
Home Economics Education
- Kathleen Page Corneillier, Minne-
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- Roger Michael Damlo, Frazee, WITH
DISTINCTION, Agricultural Education
- Lee Walter Eastland, Parkers Prairie,*
WITH DISTINCTION, Agricultural
Education
- Kathryn Frances Ende, Rogers, Home
Economics Education
- Elaine Marie Engan, Atwater, Home
Economics Education
- Gary L. Erdmann, A.A., Luverne,
Agricultural Education
- Lea Mary Frank, St. Paul, Home
Economics Education
- Virginia Kay Huso Frisk, Burnsville,*
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Home Economics Education
- John William Gintner, St. Peter,
Agricultural Education
- Dean Allen Hanson, A.A., Lyle,* WITH
DISTINCTION, Agricultural Education
- Darrell Edward Hartle, Owatonna,
Agricultural Education
- Eileen June Hansen Hemme, Luverne,
Home Economics Education
- Joyce Lynette Hempftling, Red Wing,*
WITH DISTINCTION, Home Eco-
nomics Education
- Karen Jean Hudson, New London,
WITH DISTINCTION, Home Eco-
nomics Education
- Raymond Ole Jallo, Jr., Alberta, Agri-
cultural Education
- Dorothy Jean Jensen, Glencoe, Home
Economics Education
- Janis Lester Jordan, Roseville,* WITH
HIGH DISTINCTION, Home Eco-
nomics Education
- Steven David Josephson, A.A., Still-
water, Agricultural Education
- Mary Mathison Karels, Ortonville,*
WITH DISTINCTION, Home Eco-
nomics Education
- Marvin Duane Kleene, Clara City,
Agricultural Education
- Kathleen Joy Kleven, Richfield, Home
Economics Education

- Elaine Johnson Koivumaki, Edina, WITH HIGH DISTINCTION, Home Economics Education
- Barbara Lindstrom Kosiak, Chisholm, WITH HIGH DISTINCTION, Home Economics Education
- Carlyn George Kraabel, Belgrade, Agricultural Education
- John Joseph Kvasnicka, Hayfield, Agricultural Education
- Nancy Marie LaZella, Biwabik, WITH DISTINCTION, Home Economics Education
- Peggy Jean Anderson Ludeman, Tracy, WITH DISTINCTION, Home Economics Education
- Mary Esther Lund, Bemidji, WITH DISTINCTION, Home Economics Education
- Anthony William Machtemes, Franklin, Agricultural Education
- Margaret Mary McAndrews, Rosemount, Home Economics Education
- Robert Lee Olson, St. Francis, Agricultural Education
- Shirley Gail Karen Olson, St. James, WITH HIGH DISTINCTION, Home Economics Education
- Jo Ann Oltmans, Sherburn, Home Economics Education
- Jean Rose Pemble, Blaine, WITH DISTINCTION, Home Economics Education
- Letha Mae Phelan, Jackson, WITH DISTINCTION, Home Economics Education
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- Claudia Ann Rohs, Shoreview, WITH DISTINCTION, Home Economics Education
- Gary Dean Sande, Thief River Falls, WITH DISTINCTION, Agricultural Education
- Elmer Vernon Sanford, Faribault, Agricultural Education
- Jerome Walter Schuetz, Henderson, WITH HIGH DISTINCTION, Agricultural Education
- Paul Michael Simonsen, Franklin, Agricultural Education
- Edward Wenceslaus Smisek, Jr., Lonsdale, Agricultural Education
- Erva May Snyder, St. Paul, WITH DISTINCTION, Home Economics Education
- Carol Ann Stenborg, Golden Valley, WITH DISTINCTION, Home Economics Education
- Lorely Ruth Thompson, Morristown, Home Economics Education
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- Loren Dean Vander Top, A.A., Edgerton, WITH DISTINCTION, Agricultural Education
- Kay Lavon Wittman, Warren, WITH DISTINCTION, Home Economics Education
- Steven Allen Yackley, Canby, WITH DISTINCTION, Agricultural Education
- Kathleen Elizabeth Young, St. Paul, Home Economics Education

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

Bachelor of Agricultural Business Administration

- | | |
|---|--|
| <p>Claude DeVere Davis, Northwood, Iowa</p> <p>Steven Reuben Joecks, Hutchinson</p> | <p>Timothy Allen Laffen, Lake Lillian</p> <p>Lester Paul Loecher, Adams</p> <p>Kenneth Paul Vagts, Harmony</p> |
|---|--|

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Bachelor of Science

- Sharon Lea Abrahamsen, Sandstone
Rodney Bert Amonett, St. Paul
Audrey Ann Anderson, St. Paul
Charles Henry Anderson, Columbia Heights, WITH DISTINCTION
Doris Marion Anderson, Cottonwood
Jerry Bruce Anderson, Minneapolis
Linda Jeanne Anderson, Brainerd, WITH DISTINCTION
Patricia Nan Anderson, St. Paul, WITH DISTINCTION
Ronald Anthony Anderson, New Brighton
Sarah Jean Anderson, Minneapolis
Nancy Kaye Andreotti, Richfield
Ardis Merchant Arendt, B.S., Minneapolis
Kathleen Joyce Arnold, St. Paul
Patricia Rae Arnold, Wayzata
Catherine Ann Audette, Minneapolis
David Edward Babcock, Jr., A.A., Wayzata
Clare Elizabeth Baker, St. Cloud, WITH DISTINCTION
Darlene Marie Baker, Minneapolis
Crystal Lee Bauer, St. Paul
Maureen Lois Bazinet, Minneapolis
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Richard T. Beck, Winona
Barbara Jean Becker, Minneapolis
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Shirley Ann Belland, Moorhead
Linda Holstein Benson, Tracy, WITH HIGH DISTINCTION
Hope Williams Berg, Bloomington, WITH DISTINCTION
Karen Marguerite Bergeleen, Wessington Springs, S.D., WITH HIGH DISTINCTION
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Dorothy Caroline Bergerson, Minneapolis
Bonita Welna Bergerud, St. Paul
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Gail Elizabeth Bongaarts, Minneapolis
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Vicki Rose Bristol, Minneapolis
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* Degree conferred as of March 21, 1970

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- Jeffrey George Lalla, B.A., St. Paul
- Harriet M. Lansing, B.A., St. Paul
- Jerome Victor Lavin, B.S.Econ., St. Paul
- David V. Lee, B.S., South St. Paul, MAGNA CUM LAUDE
- Gary Howard Levinson, B.A., Minneapolis, CUM LAUDE
- Timothy Emil Levstik, B.Chem., Mentor, Ohio
- Marvin Grover Lind, B.S., Rippey, Iowa
- Paul John Lokken, B.A., Benson
- Paul Joseph Luedtke, B.A., Marshall
- Richard Charles Lund, B.A., Minneapolis
- William Paul Luther, B.S., Fergus Falls, CUM LAUDE
- Gary Reed Macomber, B.A., St. Paul, CUM LAUDE
- Thomas Richard Mahler, B.A., Minneapolis, CUM LAUDE
- Timothy David Marrinan, B.A., St. Paul
- Rick E. Mattox, B.A., Maplewood
- Thomas George Mattson, B.S., Biwabik, MAGNA CUM LAUDE
- George Lewis May, B.A., St. Paul
- Kenneth Edgar McCoy, B.A., Aitkin
- David William McKenna, B.S., St. Paul
- David Duncan McMillan, B.A., Duluth
- Michael Douglas McNair, B.S.Econ., Fargo, N.D.
- Michael Bernard McShane, B.A., Waseca
- Roger William Meyer, B.A., St. Paul
- John James Michalik, B.A., Minneapolis
- Lenore Last Miller, B.S., New York, N.Y.
- William Jerome Miller, B.A., Minneapolis, SUMMA CUM LAUDE
- Larry Charles Minton, B.A., International Falls
- Thomas Benjamin Moss, B.A., Los Angeles, Calif., CUM LAUDE
- Robert Louis O'Brien, B.C.E., Benson
- David John Odlaug, B.A., St. Paul
- Margaret Anne Olsen, Chicago, Ill.
- David Richard Ornstein, B.A., Minneapolis
- Michael James O'Rourke, B.A., Minneapolis
- Duane Leon Paulson, B.A., Minneapolis
- Stephan Anthony Pezalla, B.A., Moorhead
- Jack Linn Pfeilsticker, B.S.B., St. Paul
- Charles Alexander Porter, Jr., B.A., Sister Bay, Wis.
- Ann Margaret Pougiales, B.A., Rochester
- Gary Michael Rankila, B.A., Virginia
- James Nelson Reeves, Minneapolis
- Stephen Thor Refsell, B.A., Blair, Neb.
- Camilla Langguth Reiersgord, B.A., B.S., St. Louis Park
- Edgar H. Rex, Jr., B.A., St. Paul
- James George Roban, A.L.A., B.A., Minneapolis
- Anthony Thomas Rozycki, B.A., St. Cloud
- Allan A. Ryan, Jr., Newton, Mass., MAGNA CUM LAUDE
- Richard James Sands, B.A., St. Paul
- Melvin Roy Schaupp, B.A., Winona
- Paul John Scheerer, Minneapolis, MAGNA CUM LAUDE
- Ronald N. Schlangen, B.A., St. Cloud
- Robert Harrington Scott, B.A., St. Anthony Village

Richard Peter Shumaker, B.A., Cadillac, Mich.
Jack Frederick Sjöholm, Jr., B.A., St. Paul
William Frederick Skewes, B.A., Luverne
Sheila Ellen Sobel, Brooklyn, N.Y.
Richard Harold Speeter, B.A., Minneapolis
Jon Edward Staudohar, B.A., Duluth
Leo G. Stern, Minneapolis, CUM LAUDE
L. Douglas Storey, B.A., Jeffers
Edward John Thomas, B.A., Duluth

Howard John Vogel, B.A., New Ulm, CUM LAUDE
Dennis H. Weber, B.S., Trimont
Robert Michael Wetherbee, B.S., Racine, Wis.
Ronald Allen White, B.A., St. Paul
Richard Allen Williams, Jr., B.A., St. Paul, CUM LAUDE
Michael Andrew Wolff, B.A., Minneapolis, CUM LAUDE
Gary Gene Wollschlager, B.A., Fairmont
Steven Craig Wroe, B.S., Fargo, CUM LAUDE

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

Gary Leroy Andersen, Prior Lake
John Wight Baillie II, St. Paul
Lorna Catherine Brown, Wykoff,
WITH DISTINCTION
William Kent Brunell, Delano
Gerald Keith Ching, Castlewood,
S.D., WITH HIGH DISTINCTION
Michael Thomas Collins, Minneapolis
Larry John Connelly, Graceville,
WITH DISTINCTION
James Elmer Dick, Mountain Lake
Jo-Ann Mae Drees, A.A., Rochester,
WITH DISTINCTION
Stanley James Fagerness, Rushmore
Craig Steven Frisk, Minneapolis,
WITH HIGH DISTINCTION
Gary Warren Gordon, Albert Lea,
WITH DISTINCTION
Daniel Vernon Groth, Zumbrot
Wayne Orville Hagen, Belgrade
John Paul Hartgen, Pewaukee, Wis.
Roland Lynn Hofmeister, Waseca
Jill Roxanne Johnson, Waubay, S.D.,
WITH HIGH DISTINCTION
Steven Carl Johnson, Minneapolis
Vernon Richard Krebs, Albany
Julian Kent Lang, Grantsburg, Wis.,
WITH DISTINCTION
Richard Lyle Leither, St. Louis Park

William Bernard Luckemeyer, B.S., St. Cloud
Richard Allen Maage, Ostrander
Glenn Wayne Madsen, Arco, WITH DISTINCTION
Dennis Joseph Meyer, Medford, Wis.
Loren Forrest Minear, A.A., Glenville
John Frank Miskowicz, Columbia Heights
Mark Robert Nelson, St. Louis Park
Philip Lewis Nelson, Golden Valley
Gary Allan Noser, Rochester
Gary Donn Palubicki, Cudahy, Wis.
Joanne Marie Rick, Crystal
Glen Paul Rouse, Olivia, WITH HIGH DISTINCTION
William Woodrow Ryan, Waconia
David R. Steiner, Wadena
James LeRoy Tomlinson, Mankato
Robert Dennis Walton, Minneapolis
William Charles Wieland, Morris
Michael Harvey Williams, Austin
Stephen John Withrow, Edina
Barry Lester Yano, Mound, WITH HIGH DISTINCTION
John Michael Zimmerman, Chaska,
WITH DISTINCTION
John Thomas Zimmerman, Minneapolis

Doctor of Veterinary Medicine

- Maitama Yusuf Ahmed, B.S., Kano, Nigeria
David John Balkman, B.A., Minneapolis
Philip Henry Berends, B.S., Clarkfield
Stephen Leonard Berg, B.S., Shoreview
David L. Bourget, B.S., Cadott, Wis.
Terry James Buchli, B.S., Arcadia, Wis.
Mark Gregory Burns, B.S., Madison, Wis.
Charles Frederic Chesney, B.S., Rockaway, N.J.
William E. Clauson, Hadley
William Albert Croft, Jr., B.S., Crivitz, Wis.
Gary Donovan Daniels, B.S., Eyota
Gary William Engebretsen, B.S., West De Pere, Wis.
David Monroe Ennis, B.S., Mt. Kisco, N.Y.
Keith Alvar Joseph Friendshuh, B.S., Monticello
Linda Ruth Gandrud, B.S., Owatonna
Jeffrey William Gaver, B.S., Dousman, Wis.
Dennis Carl Geisler, B.S., Exeland, Wis.
Steven Ronald Gilbertson, B.S., Bloomington
Daniel Albert Goller, B.S., Cornell, Wis.
Leland John Gross, B.S., Ellsworth, Wis.
Jon Michael Hamm, Eveleth
Jerry Allen Henke, B.S., Buffalo Lake
Gerald Thomas Hoffman, B.S., Annandale
Thomas Daniel Huhnerkoch, B.S., Nevis
Robert Bruce Johnson, B.S., St. James
Rodney George Johnson, B.S., Roseau
Arnold Gervas Jostock, B.S., Lake City
Curtis Lee Krieg, B.S., Alberta
Arleen June Larson, B.S., Minneapolis
Diane Sue Trennepohl Lauritsen, B.S., Minneapolis
Judy Davidson McBain, B.S., Bellevue, Wash.
Donn Arthur Moll, B.S., Sleepy Eye
Donald Eugene Nelson, B.S., Eau Claire, Wis.
Elliott Bernard Nudell, B.S., Minneapolis
Marvin Joseph O'Connell, B.S., Waverly
Jerry Dean Olson, B.S., Dassel
Michael Edward Orman, B.A., B.S., Duluth
Arlan Peary Paulson, B.S., Jackson
Jon Jeremy Paulson, B.S., Hills
Arthur John Posch, B.S., St. James
Lyle Wilfred Rud, B.A., Pelican Rapids
Larry Dale Russell, B.S., Montevideo
Kenneth Paul Sarauer, B.S., St. Paul
Rodger D. Schneck, B.S., Ortonville
Patricia Naomi Schultz, B.S., Fari-bault
Arlynn Walter Schwanke, B.S., Westfield, Wis.
Bradley Edson Seguin II, B.S., Alma Center, Wis.
Larry Martin Slinden, B.S., Atwater
Theodore Erwin Specht, Elk River
Priscilla Karen Stockner, B.S., M.S., St. Paul
Larry Norman Swenberg, B.S., Red Wing
Larry James Tischer, B.S., Clara City
Joseph C. Valenta, B.S., Suring, Wis.
Helmuth von Bluecher, B.S., Wayzata
Jerrold Lee Woods, B.S., New Richmond, Wis.
John Scott Wright, B.S., St. Louis Park

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Kris Illene Bengtson, Hallock
Susan Jeanne Berkhahn, Hibbing
Elizabeth Ann Boyle, Mohall, N.D.
Janet Louise Brown, East Lansing,
Mich.
Nora Jean Campbell, Minneapolis
Gloria Marie Ciccone, St. Paul
Linda Marie Crask, Edina
Kathleen Sara Doherty, St. Paul
Jean Lorraine Edwards, St. Paul
Karen Lee Eggleston, Dassel
Dorothy Mae Erickson, Mankato
Leah Irene Eyster, Hokah
Margaret Mary Fisher, Grafton, N.D.
Roxanne N. Gakemeier, Minnetonka
Mary Ellen Gingrass, St. Louis Park
Kathleen Rae Gooch, Mount Pros-
pect, Ill.
Shelley Ann Hansen, St. Paul
Patricia Lois Harrison, Minneapolis
Gay Frances Hokenstrom, Minne-
apolis
Linda Kaye Horn, St. Paul
Carol Kathleen Horrisberger, Minne-
apolis
Barbara Joyce Jansen, LaCrescent
James John Jerome, Lancaster
Alice Ann Kemen, Madison
Margaret Aletha King, St. Paul
Barbara Jean Klenner, Rochester

Kimberly Ann Kolkman, Mahtomedi
Barbara Jean Krcil, Hutchinson
Karen Marie Kusche, Hopkins
Jennifer Claire Lake, Minneapolis
Linda Renee Laelly, Owatonna
Margaret Elizabeth MacMillan,
A.L.A., St. Louis Park
Susan K. Maki, Duluth
Diane Jean Malone, Hibbing
Kathleen Joan Melson, Minneapolis
Barbara Joan Muska, St. Paul
Melanie Clifford Nedrud, Newport
Beach, Calif.
Ruth Ann Nienaber, Minneapolis
Leslie Dianne Nordgren, Minneapolis
Margaret Helen Nordstrom, Indus
Nancy Gail Perry, Valley City, N.D.
Susan Elizabeth Schwartz, New Ulm
Janet Elizabeth Sterk, St. Paul
Kathryn Louise Strand, Minneapolis
Judith Ann Swanburg, St. Paul
Janet Carol Swearingen, St. Paul
Shelley Dene Townsend, Mankato
Nancy Jean Turk, St. Paul
Kathie Lynn Weigel, Golden Valley
Sharen Ann Wendt, St. Paul
Linda Helen Westbrook, Holding-
ford
Annette Louise Zuehlke, Eau Claire,
Wis.

Bachelor of Science

Harvey Alan Akerson, Minneapolis
Richard Walter Anderson, Trimont
Wallace Jay Anderson, St. Paul
Robert Charles Beattie, Whitewater,
Wis.
Theodore Marvin Beeman, Minne-
apolis
Robert Lloyd Childress, B.A., St.
Paul
Kirk Robert Dahl, Minneapolis
Robert Clark Dahleen, Jr., St. Peter
Steven Paul Dekoster, Hutchinson

David John Elasky, Minneapolis,
WITH DISTINCTION
James M. Eliassen, Grand Marais
Gary Eugene Epp, A.A., Parkville
Teddy James Erickson, Starbuck,
WITH DISTINCTION
Norman Gerald Fahrenholz, B.A.,
Edina
James Gibbs Figenschau, B.A., Min-
neapolis, WITH DISTINCTION
Steven James Flinn, Redwood Falls
Donald Barry Gerst, Minneapolis

John Mark Grunseth, Mandan, N.D.,
 WITH DISTINCTION
 Steven Frank Gunberg, B.A., Minne-
 apolis
 David W. Gunelson, A.A., Hibbing,
 WITH DISTINCTION
 Robert Curtis Gustafson, Jr., Edina
 Michael Larry Hamann, Willmar
 Craig John Hamilton, Minneapolis
 Dennis Wayne Harnish, St. Paul
 John Lee Harrison, Jr., Minneapolis,
 WITH DISTINCTION
 Thomas Taylor Hodgson, St. Paul
 Thomas Raymond Horton, Grand
 Rapids, WITH DISTINCTION
 Wayne Calvin Howard, Aitkin
 John Blair Hughes, B.S., Minneapolis
 Bruce David Hustad, Duluth
 James Michael Jagusch, St. Paul
 Brad Mark Kasson, Wahpeton, N.D.,
 WITH DISTINCTION
 Ronald Lee King, Richfield
 Glenn Arthur Kurtz, Richmond
 Michael Neil Lampi, Richfield
 Ronald Kent Leach, New Ulm
 Lyndon Lee Liebelt, Wayzata
 Richard Allen Look, Minneapolis,
 WITH DISTINCTION
 Richard George Lorenz, Paynesville
 James Kerr MacFarlane, White Bear
 Lake
 Steven Kent Mahler, Franklin
 Ernest Eastburn Martin III, Grand
 Forks, N.D., WITH DISTINCTION
 Wayne A. Mattern, Bismarck, N.D.,
 WITH DISTINCTION
 Robert James McCormack, Edina
 Meredith Mellon, Campbell, WITH
 DISTINCTION
 Daniel H. Menser, B.A., Minneapolis
 Anthony Charles Michelich, Keewatin
 Dennis Allan Miller, Arlington
 Heights, Ill., WITH DISTINCTION
 Mark Harlow Nedrud, Minot, N.D.
 John Peter Nei, Goodhue
 Jerome Raymond Nyberg, North
 Branch, WITH HIGH DISTINCTION
 John David Nydahl, Eden Prairie,
 WITH HIGH DISTINCTION
 Daniel Owen Odegaard, Minneapolis,
 WITH DISTINCTION
 Lawrence William O'Halloran, Olivia
 Richard Moe Page, B.A., Merrill,
 Wis., WITH DISTINCTION
 John Charles Pearsall, Virginia
 John Monrath Posselt, Minneapolis
 Cornell Thomas Post, Bloomington,
 WITH DISTINCTION
 Dwight Lyle Radeke, Princeton
 Frederick Eldred Renneke, Richfield
 Jeffrey Allan Rossmann, B.A., St. Paul,
 WITH DISTINCTION
 Robert Henry Rubey, Sleepy Eye
 Bernard Rubin, B.A., Minneapolis
 Ervin George Savord, St. Paul
 Darrell Edward Schmidt, South St.
 Paul
 Richard Earl Schmotter, B.A., St. Paul
 James Anthony Schorn, B.A., Jordan,
 WITH DISTINCTION
 Ronald Kent Scott, Eau Claire, Wis.
 Jerry Wayne Sherwood, South St. Paul
 Dennis Sogar Simpson, Menomonie,
 Wis., WITH DISTINCTION
 Gary Ralph Smisek, Minneapolis
 James Michael Smyrak, Minneapolis
 Michael James Spencer, Brooklyn
 Center
 Richard Lloyd Streeter, Bemidji
 Thomas Frederick Styrlund, St. Cloud
 John Myler Wiberg, White Bear Lake

Doctor of Dental Surgery

Frederick Michael Allis, B.S.,
 Minneapolis
 John Mark Anderson, B.S., Excelsior
 Richard Walter Anderson, Trimont
 Thomas Peter Barton, B.S., La
 Crescent
 John Craig Baumgartner, B.S., Janes-
 ville, Wis.
 William Richard Beasley, B.A., B.S.,
 Grand Rapids
 Frank James Belinsky, B.S., Milnor,
 N.D.

Thomas Melvin Bell, B.S., Livingston, Mont.
 Lyle Walfred Belling, B.S., B.A., Minnesota Lake
 Donavon Dean Berge, B.S., Mankato
 Robert Mayo Brandjord, B.S., Minneapolis
 Ronald Lee Broman, B.A., B.S., Minneapolis
 Dwight Griffith Buller, B.S., Minneapolis
 John Peter Cary, Edina
 Judd Stuart Copeland, B.S., B.A., Minneapolis
 Robert Clark Dahleen, Jr., St. Peter
 Stephen Harold Danielson, B.S., Minnetonka
 Michael George Davies, B.S., Winona
 Thomas Peter Dimich, B.S., Bovey
 Ronald Leonard Dvorak, B.S., Hopkins
 Gerald Ross Egge, B.A., B.S., Willmar
 David Allan Elrod, B.A., B.S., St. Paul
 Gary E. Erickson, B.S., Cambridge
 Leslie E. Fallstrom, B.A., Buhl
 Joseph Alan Fiedler, Edina
 Thomas Frederick Fiedler, Edina
 Phillip Steven Fitch, B.S., Rochester
 Albert David Flor, B.S., New Richland
 Lars Erik Axel Folke, M.S.D., Ph.D., Malmo, Sweden
 Kirk Phillip Gentling, B.A., Rochester
 Dale Arvid Gibson, B.S., St. Cloud
 James Allan Gilman, B.A., Glenwood
 Michael Ray Greene, B.A., Little Falls
 Steven Michael Gurstelle, B.S., St. Paul
 Robert Curtis Gustafson, Jr., Edina
 Randy Michael Halstrom, B.S., St. Cloud
 Gerald Oliver Hjertstedt, B.A., Chicago, Ill.
 James Robert Hockin, B.S., Edina
 Bruce Floyd Holt, Duluth
 Ralph G. Honkola, B.S., Brocket, N.D.
 Wayne Calvin Howard, Aitkin
 Steven Eugene Jacobson, B.S., St. Louis Park
 Cameron Joseph Jayson, B.S., Virginia
 Orvis Jon Raymond Johnson, B.S., Willmar
 Richard Mathias Johnson, B.S., Grand Marais
 George Victor Kajala, B.S., Biwabik
 John Stephen Kanyusik, B.S., St. Cloud
 Douglas John Knudson, B.S., Hopkins
 William Dean Kranzler, B.S., Ellendale, N.D.
 William Henry Kuhlmann, B.A., Minneapolis
 Glenn Arthur Kurtz, Richmond
 Donald Norman Larson, B.A., B.S., Denver, Colo.
 Thomas D. Larson, B.A., B.S., St. Paul
 William Gregory Lawton, B.S., Loretto
 Ronald Kent Leach, New Ulm
 Lee Corson Lerberg, B.S., Minneapolis
 Nolen Leib Levine, B.S., Chicago, Ill.
 David Harris Lipschultz, B.A., B.S., St. Paul
 Donald John Lundrigan, B.S., Pine River
 James Kerr MacFarlane, White Bear Lake
 Peter Jule MacLeod, B.S., Moorhead
 Michael Steven March, B.S., Slayton
 Thomas Edward Mauszycki, B.A., Winona
 James Fredrick May, B.A., New Brighton
 Robert James McCormack, Edina
 Roger Alan Mondale, B.S., Minneapolis
 Bruce George Myers, B.S., New Brighton
 Mark Harlow Nedrud, Minot, N.D.
 John Peter Nei, Goodhue
 John Henry Nelson, A.A., Minneapolis
 Richard Lawrence Nelson, B.S., St. Paul
 Lawrence William O'Halloran, Olivia
 Howard Earl Olson, B.A., Minneapolis
 Marlin John Peach, Dent
 William Edward Petersen, St. Paul
 David Norman Peterson, Erskine

James Homer Plets, B.S., Meadowlands
 John Monrath Posselt, Minneapolis
 William F. Pucel, B.S., Ely
 Dwight Lyle Radeke, Princeton
 Dean Michael Reedstrom, B.S., Sauk Rapids
 Marlin Francis Rekow, B.S., New Brighton
 John Carl Remien II, B.S., Beresford, S.D.
 Bernard Rubin, B.A., Minneapolis
 Ervin George Savord, St. Paul
 Darrell Edward Schmidt, South St. Paul
 Richard Earl Schmotter, B.A., St. Paul
 Bruce Leland Schulz, B.S., Golden Valley
 Barry McGill Schweim, B.S., Pipestone
 Jack Edward Shepard, B.S., St. Paul

Raymond Lee Simmons, B.S., Blackduck
 James Michael Smyrak, Minneapolis
 Richard Alan Sorenson, B.S., Duluth
 Charles Edward Surface, B.S., St. Vincent
 Edwin Randall Thorp, B.A., St. Paul
 Bruce Dale Waterman, B.S., B.A., Albert Lea
 John Myler Wiberg, White Bear Lake
 David Charles Wilcox, B.S., Albert Lea
 Michael Thomas Winter, B.S., Virginia
 Robert Thomson Workinger, B.A., Madison, Wis.
 Kenneth LeRoy Zakariasen, Jr., B.A., Hopkins
 Thomas James Zehren, B.S., Sheboygan, Wis.

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science in Nursing

Mary Helen Alcorn, Walnut Grove, WITH DISTINCTION
 Kathlyn Mae Aldrich, Robbinsdale
 Jane Elizabeth Anderson, Mahtomedi
 Judith Ann Anderson, St. Paul, WITH DISTINCTION
 Rebecca Lynn Anderson, Minnetonka
 JoAnne Doris Berkman, Minneapolis
 Lois Gene Bernhardson, Minneapolis
 Jean Marie Bey, Alexandria, WITH DISTINCTION
 Nancy Lee Bull, Gaylord
 Christine Marie Chick, Richfield
 Fern Ruth Christofferson, St. Paul
 Laurel Lee Clark, Mound
 Heather Ann Cook, Minneapolis
 Karleen Kay Dahlberg, Askov
 Claudia Suzan Droel, New Brighton, WITH HIGH DISTINCTION
 Josephine Marie Duffy, Highland Park, Ill.
 Beverly Jean Dyer, Moorhead, WITH DISTINCTION

Wendie Marie Fay, Bloomington, Ind., WITH DISTINCTION
 Laura Campbell Fredricks, Duluth
 Lois Elaine Freeberg, A.A., Wayzata
 Sonja Lee Gabrielson, Minneapolis
 Mary Annette Garven, Minneapolis, WITH DISTINCTION
 Susan Lindberg Griggs, Kennedy
 Lynne Elizabeth Hackman, St. Paul, WITH DISTINCTION
 Linda Marie Hadley, Caledonia
 Gayle Annette Hallin, St. Louis Park
 Jean Marie Halverson, Austin
 Linda Joan Hawkinson, Hibbing
 Linda Leah Hedemark, Ortonville, WITH HIGH DISTINCTION
 Judith Freiberger Hintz, St. Paul
 Linnea Harding Hoppenrath, A.L.A., Robbinsdale
 Karon Jewel Jahn, New Prague
 Mary Margaret Jewison, Janesville
 Connie Lynn Johnson, Hutchinson, WITH HIGH DISTINCTION

Mary Ruth Keller, Bloomington,
 WITH HIGH DISTINCTION
 Mary Ann Keturakat, A.L.A., St. Paul
 Janet Susan Kraabel, Kerkhoven,
 WITH DISTINCTION
 Vieno Helen Krekula, Minneapolis
 Millie M. Krocak, Montgomery
 Sharon Ann Larsen, St. Paul
 Patricia Ann Magnuson, Minneapolis,
 WITH DISTINCTION
 Shirley Mary Maniak, Columbia
 Heights
 Caryl Joan Matthews, Rochester,
 WITH DISTINCTION
 Barbara Jean Mauger, Excelsior, WITH
 HIGH DISTINCTION
 Sandra Jean Maynard, Oconomowoc,
 Wis., WITH DISTINCTION
 Mary Ann McGuire, Minneapolis,
 WITH DISTINCTION
 Claudia Marie Meier, Minneapolis
 Jane Elizabeth Wittich Michels,
 Bloomington, WITH HIGH DISTINC-
 TION
 Susan Kathleen Miller, Cedar Falls,
 Iowa
 Carolyn Mavis Missell, Minneapolis,
 WITH DISTINCTION
 Jean Louise Moeckel, Minneapolis
 Janet Lorraine Morris, St. Paul, WITH
 DISTINCTION
 Mary Ellen Murray, B.A., Minne-
 apolis, WITH HIGH DISTINCTION
 Cary Louise Nicholson, Minneapolis
 Lea Ann Nordvold, Zumbrota, WITH
 DISTINCTION
 Nancy Louise Oulman, Minneapolis,
 WITH DISTINCTION
 Joan Marie Paulson, Sunburg, WITH
 DISTINCTION
 Twyla Ann Paulson, Walters, WITH
 DISTINCTION
 Mary Margaret Peters, White Bear
 Lake
 Laura Agnes Reid, Duluth, WITH
 DISTINCTION
 Lynn Ann Richardson, Plainview
 Susan Stirling Rodgers, Chicopee,
 Mass.
 Margaret Kuhfeld Roseberg, White
 Bear Lake, WITH HIGH DISTINCTION
 Peggy Lee Rosenow, Rialto, Calif.
 Mary Lois Rudolphi, Minnetonka,
 WITH DISTINCTION
 Mary Rossi Ruegg, Pine Island
 Mary Elizabeth Runholt, Marshall
 Karen Ann Sandberg, Edina
 Nancy Louise Schamber, St. Cloud,
 WITH DISTINCTION
 Jane Ann Schmidt, Red Wing
 Jeanine Lavonne Schutz, St. Paul
 Ihleen Evonne Severson, Cottonwood,
 WITH DISTINCTION
 Ellen Kushner Siegel, St. Louis Park
 Margaret Ann Sorensen, St. Paul,
 WITH HIGH DISTINCTION
 Bonnie Kay Stelmazek, Minneapolis
 Karin Barbara Sterner, St. Paul, WITH
 DISTINCTION
 Joyce Marie Strait, A.L.A., St. Louis
 Park
 Teresa Marie Swanson, Minneapolis
 Nancy Ann Sydejko, Minneapolis
 Yvonne Margaret Tandberg, Minne-
 apolis, WITH DISTINCTION
 Hazelann Marion Tateosian, St. Paul
 Leslie Anne Tatham, St. James,
 Manitoba, Canada
 Joanne Marie Foster Thorson, B.S.,
 New Brighton
 Shirley Viola Thyen, St. Paul, WITH
 DISTINCTION
 Beth Karen Vossen, Windom, WITH
 HIGH DISTINCTION
 Patricia Florence Walkner, Minne-
 apolis, WITH DISTINCTION
 Kathleen Louise Wallace, South
 St. Paul
 Susan Margrette Wheeler, Delavan
 Ruth Rayburn White, Minneapolis
 Linda Jeanne Wold, Edina
 Virginia Lillian Zimms, Minneapolis

Bachelor of Science

- Kimberly Ann Aho, Rosemount, Physical Therapy
- Julane Mary Anderson, Columbia Heights, Physical Therapy
- Michele Lorraine Angell, Des Plaines, Ill., Occupational Therapy
- Nancy Lynn Applebaum, St. Paul, WITH DISTINCTION, Medical Technology*
- Allen Myron Arneson, Granite Falls, Mortuary Science
- Patrick N. Arnold, Pengilly, Medicine
- Frederick Hartley Bagley, B.A., Duluth, Medicine
- John Peter Bantle, Minneapolis, Medicine
- Richard Lee Beck, B.A., Fergus Falls, Medicine
- Lowell Lester Becker, Jr., B.A., Buffalo Lake, Medicine
- Maurice Wayne Beers, Minneapolis, Medicine
- Nancy Suzanne Behler, St. Paul, Occupational Therapy
- Janis Elaine Belmont, Hibbing, WITH DISTINCTION, Physical Therapy
- Richard Lawrence Belmont, B.S., Marshall, Physical Therapy
- Randal Dean Bjerke, Hoffman, Medicine
- Janis Barbara Bruce, Albert Lea, Medical Technology*
- Lawrence Christie Cairns, Bemidji, Medicine
- Robert Dennis Campbell, Minneapolis, Medicine
- Devron Henry Char, B.A., SUMMA CUM LAUDE, St. Paul
- Grace J. Chesborough, A.A., Battle Lake, WITH DISTINCTION, Occupational Therapy
- Marjorie Ann Christenson, Glenwood, WITH DISTINCTION, Medical Technology*
- Gary Douglas Cooney, B.S., Reno, Nev., Medicine
- Thomas Michael Cosgriff, B.A., Moorhead, Medicine
- Joan Marie Cundy, Minneapolis, Medical Technology*
- Kay Marie Delger, Townsend, Mont., Medical Technology*
- Kathleen Ann Devine, Rochester, Occupational Therapy
- Mary Lee Diedrich, Mendota Heights, Physical Therapy
- Charyl Rae Dotson, Minneapolis, Medical Technology*
- Joan Louise Dumas, Minneapolis, Physical Therapy
- Karen Ruth Ecker, Kimball, Physical Therapy
- Wendy Sue Engel, Minneapolis, Medical Technology*
- Margorie Ann Erickson, Brainerd, WITH DISTINCTION, Physical Therapy
- Mary Ellen Evenson, St. Louis Park, Occupational Therapy
- Linda Kay Fellner, St. Paul, Occupational Therapy
- Carol Ann Ferguson, West Concord, Medical Technology*
- Mary Anne Frush, Minneapolis, WITH HIGH DISTINCTION, Occupational Therapy
- Richard Campbell Gehrz, St. Paul, Medicine
- Steven Forrest Glass, Minneapolis, Medicine
- Connie Joy Good, Owatonna, Occupational Therapy
- Alan Marc Gorden, B.A., Blackduck, Medicine
- Julie Suzanne Grudzinskas, Austin, WITH DISTINCTION, Medical Technology*
- Charles Justin Gullickson, Rockford, Ill., Medicine
- Cheryl Anne Diekman Hall, Minneapolis, Medical Technology*
- Jan Margurite Hanson, Warroad, Physical Therapy
- Maureen Patricia Hart, St. Paul, Medical Technology*
- Randall Gus Hartquist, Fort Dodge, Iowa, Mortuary Science

* These degrees are conferred subject to completion of practical work prior to December 19, 1970.

- Michael John Hennessy, B.S., Austin, Medicine
- Billie Anne Herranen, Milaca, WITH DISTINCTION, Medical Technology*
- Charlotte Ann Highmark, Duluth, WITH HIGH DISTINCTION, Medical Technology*
- Carol Ann Hughes, St. Paul, WITH DISTINCTION, Medical Technology*
- Bonnie Kathleen Hultman, Cokato, WITH HIGH DISTINCTION, Medical Technology*
- Susan Marie Huppler, Watertown, S.D., WITH DISTINCTION, Physical Therapy
- Janis Lynn Jacobsen, Richfield, Medical Technology*
- Lynn Marie Johnson, Hibbing, Medical Technology*
- Arlys Edna Kelly, Hector, Medicine
- Carole Lynn Kinnunen, St. Paul, WITH DISTINCTION, Physical Therapy
- Marilyn Helen Koenst, Minneapolis, WITH DISTINCTION, Medical Technology*
- Martha Ann Kolar, Duluth, WITH DISTINCTION, Occupational Therapy
- Darrell Duane Kolden, Roseglen, N.D., Mortuary Science
- Jean Anne Korupp, Winona, Medical Technology*
- Annette Ruth Laabs, Arlington, Physical Therapy
- Louise Anne Lamusga, Browerville, Medical Technology*
- Jeffrey Robert Latts, Duluth, Medicine
- Elfreddie Lee, Jr., A.M.S., San Antonio, Tex., WITH DISTINCTION, Mortuary Science
- Susan Kay Lindahl, Minneapolis, Medical Technology*
- Marcia Joy Lindberg, Wayzata, Physical Therapy
- Martin Lee Lipschultz, Minneapolis, Medicine
- Carol Elaine Lund, Morris, Physical Therapy
- Reid Kirk Lund, Provo, Utah, Mortuary Science
- Jon A. Maier, B.A., St. Paul, Medicine
- Marlys Elizabeth Mankell, New London, Occupational Therapy
- Reuel Anthony Martinson, Bemidji, Medicine
- Lorraine Ann McCarvill, Minneapolis, Medical Technology*
- Burnell John Mellema, Reading, Medicine
- Margaret Mary Menold, St. Paul, Medical Technology*
- Marilyn Irene Mieras, A.A., Rochester, Physical Therapy
- Linda Gail Miller, Hinckley, Occupational Therapy
- Jay Merle Milstein, B.A., Minneapolis, Medicine
- Janet Elaine Mongan, Richfield, Medical Technology*
- John Charles Morgan, B.A., Minneapolis, Medicine
- Roger Allen Mosser, Merrill, Wis., WITH DISTINCTION, Mortuary Science
- John Carl Muesing, B.A., New Ulm, Medicine
- Loren Jay Mulhair, Lynch, Neb., Physical Therapy
- Lynn Margaret Nalezny, Minneapolis, WITH DISTINCTION, Occupational Therapy
- Susan Jane Nelson, Duluth, Medical Technology*
- Frederic David Nemer, B.A., Minneapolis, Medicine
- Carol Lillian Niemi, Iron, Medical Technology*
- Jerry Jay Noren, B.A., Moose Lake, Medicine
- James Francis O'Connor, Brattleboro, Vt., Mortuary Science
- Richard John Oeljen, B.A., Waseca, Medicine
- Lilla Ruth O'Grady, B.A., Minneapolis, Medicine
- Edward Charles Olsgard, B.A., Minneapolis, Medicine

* These degrees are conferred subject to completion of practical work prior to December 19, 1970.

- Bradley Kent Olson, Richfield
Constance Lou Parks, Vernon Center,
WITH HIGH DISTINCTION, Physical
Therapy
- Lance Robert Peterson, Minneapolis,
Medicine
- Mary Irene Peterson, Madison, WITH
DISTINCTION, Occupational Therapy
- Jennifer Lynne Powell, Edina, WITH
DISTINCTION, Medical Technology*
- Georgiann Elizabeth Powers, Minne-
apolis, WITH DISTINCTION, Occupa-
tional Therapy
- Rlynn Craig Rockman, A.M.S., Ches-
ter, Mont., Mortuary Science
- Gordon Alvin Rockswold, B.A.,
Madison, Medicine
- Lee Ann Roetman, Sioux Center,
Iowa, WITH DISTINCTION, Occupa-
tional Therapy
- Craig Alan Ruschoff, Golden Valley,
Physical Therapy
- John Bruce Sargeant, St. Louis Park,
Physical Therapy
- Dale Richard Schibonski, Sauk Rapids,
Physical Therapy
- Daniel Alfred Schulte, St. Paul, Medi-
cine
- Charlene Ruth Schwartz, Minne-
apolis, Medical Technology*
- Kathleen Rose Gombold Siesennop,
St. Paul, Medical Technology*
- Kathleen Jeanne Skradski, St. Paul,
Medical Technology*
- Roxanne Ruth Steinbeiser, Stillwater,
Physical Therapy
- Jerome Samuel Steinbrecher, Glen-
coe, Medicine
- John Frederick Stock, Kensington,
Medicine
- Richard Joel Sukov, B.A., Minne-
apolis, Medicine
- Kathleen Sulentic, B.A., Gilbert,
Medicine
- Nancy Ann Sundeen, Virginia, WITH
HIGH DISTINCTION, Occupational
Therapy
- Gary Lee Swanson, Minneapolis,
Medicine
- Henry Joseph Tamminen, Virginia,
WITH DISTINCTION, Physical Therapy
- Julia Theresa Taube, St. Paul, Occu-
pational Therapy
- Donald I. Twito, B.A., Minneapolis,
Medicine
- Carolyn Mae Vittori, Chisholm, WITH
HIGH DISTINCTION, Physical Therapy
- Thomas Eugene Vorpahl, B.A., St.
Paul, Medicine
- Richard Dennis Wachter, B.A., St.
Louis Park, Medicine
- Cora Ann Ward, Anoka, WITH DIS-
TINCTION, Medical Technology*
- William Frank Welke, St. Paul,
Mortuary Science
- Karen Louise Wisniewski, Ivanhoe,
WITH HIGH DISTINCTION, Physical
Therapy
- Lynda Rae Wredberg, Minneapolis,
Medical Technology*
- Danielle Suzette Yoemans, Motley,
Occupational Therapy

Master of Hospital Administration

- Philip King Beauchamp, B.Geol.,
Warwick, R.I.
- Sister Jean Clingerman, B.S.N.,
Mt. St. Joseph, Ohio
- Clarence Byron Cory, B.S., Webster
City, Iowa
- Roy Alfred Ettlinger, B.S., Meriden,
Conn.
- Norman A. Good, Jr., B.A., Min-
neapolis
- Richard Wayne Hahn, B.S., Oxford,
N.J.
- Donald Douglas Hamilton, B.A.,
Minneapolis
- Kuei Han, B.A., Taiwan, Republic of
China
- Richard F. Henderson, B.A., Minne-
apolis
- Chip Nolan Hinckley, B.S., Beaver-
ton, Ore.

* These degrees are conferred subject to completion of practical work prior to December 19, 1970.

Kenneth William Isaak, B.S.,
Mitchell, S.D.
Louis Francis Kramer, B.A., Duluth
James Melvin Larson, B.A., Coopers-
town, N.D.
Philip Courtney Loofbourrow, B.S.,
New Auburn, Wis.
David Lawrence Mack, B.B.A.,
Anoka
Sister Ruth Marie Marek, B.A.,
Wabasha
Sister Margaret Mary McManus,
B.B.A., Allegany, N.Y.
John Harry Neir, B.S., Minneapolis
Albert Warren Nisley, B.A., Nash-
ville, Tenn.
Terrence Michael O'Rourke, B.B.A.,
Grand Rapids, Mich.
William David Petasnick, B.A.,
Sheboygan, Wis.

Robert Joseph Reinkober, St. Paul
Wegayehu Sahlu, B.S., Addis Ababa,
Ethiopia
Gene Earl Schmidt, B.A., Hagers-
town, Md.
Edward Chalkley Schott, B.A., Shaw-
nee Mission, Kan.
Raymond Franklin Smith, B.S., Mil-
waukee, Wis.
John Theodore Tiano, B.S., Clarks-
burg, W.Va.
Willard Junior Vanry, B.A., Red-
wood City, Calif.
Stanley Eugene Williams, B.A.,
St. Paul
Francesco Rocco Yacone, B.B.A.,
Dunmore, Pa.
Martin E. Zizzi, B.S.B., Tulsa, Okla.

Master of Public Health

James David Aronen, B.A., Minne-
apolis
Andrew Edward Bernhardt, B.A.,
LaGrangeville, N.Y.
Elbert Charles Brainard, B.S., Spo-
kane, Wash.
Caroline Gertz Brodkey, B.S., Miami,
Fla.
Frederic Michael Brown, B.S., M.D.,
Minneapolis
John Kwamina Bruce, B.S., Ghana
James Joseph Canalichio, D.D.S.,
Philadelphia, Pa.
Phyllis Lorene Colhoff, B.S., Pine
Ridge, S.D.
Thomas Allen David, B.A., D.D.S.,
Shawnee, Okla.
David John Giese, B.S., Pittsville,
Wis.
Cyril Bernard Henke, B.M.E., In-
dianapolis, Ind.
Ruth Ann Herzog, B.S., DeWitt,
Iowa
James Francis Hoffman, Jr., B.S.,
M.D., El Paso, Tex.
Oscar Levand, B.S., M.S., Ph.D.,
St. Paul

Sally Ann Lewis, B.S.N., Minneapolis
Thuy Lan Luu, B.S.N., Saigon, Viet-
nam
Hilma Olivia MacKenzie, M.S.,
Media, Pa.
William C. Maurer, B.S., D.D.S.,
Springfield, Ill.
Roy Dehn McKeag, B.A., Richmond,
Calif.
Leo Neil McKenzie, M.D., St. Peters-
burg, Fla.
Robert Leland Murray, B.C.E., Jo-
liet, Ill.
Steven John Oakland, B.A., Grand
Forks, N.D.
Richard William Payant, Hialeah,
Fla.
Amelia Ann Peterson, B.S., Hixson,
Tenn.
James Tony Platto, B.A., San Fran-
cisco, Calif.
Gary Kent Radtke, B.S., Bethesda,
Md.
Stanley Dean Ratcliffe, B.S., Dallas,
Tex.
Juan Cruz Rosario, Jr., B.S., Dededo,
Guam

Isabel Margaret Salisbury, B.S.N.,
Minneapolis
Ruth Grace Romoser Schuh, B.S.,
M.D., Watertown, Wis.
Edward Paul Valaer, B.S., M.S.,
Washington, D.C.

Galen Blair Warren, B.S., M.D.,
Shippensburg, Pa.
Thomas E. Whitson, B.Ch.E.,
Wayzata
George Banker Zeiner, B.A., M.D.,
Greene, N.Y.

Doctor of Medicine

Daniel Berton Ahlberg, B.A., West
St. Paul
David Elbert Anderson, B.A., Grass-
ton
Gordon Paul Anderson, B.S., Lisbon,
N.D.
Bruce Allen Asleson, B.A., Ulen
Frederick Hartley Bagley, B.A.,
Duluth
Bernard Charles Baier, B.S., Minne-
apolis
Richard Craig Bailly, B.A., Fargo,
N.D.
Daryl John Batalden, B.A., Lamberton
Charles Henry Beck, B.A., Minne-
apolis
Richard Lee Beck, B.A., Fergus Falls
Lowell Lester Becker, Jr., B.A.,
Buffalo Lake
Forrest Curtiss Bennett, B.S., St. Paul
William David Berg, B.S., Grand
Rapids
William A. Bevan, Jr., B.S., Chisago
City
Gary Richard Blackmore, B.A., Bi-
wabik
Berton Donald Blewett, B.S., Billings,
Mont.
Michael Carl Brabeck, B.S., St. Paul
John Richard Brage, B.S., Minneapolis
Donald Elroy Brandt, B.A., B.S.,
St. Paul
James Dean Brosseau, B.A., B.S.,
Drayton, N.D.
Wesley Earl Brugger, B.A., Austin
Paul E. Buhr, B.A., St. Paul
J. Paul Carlson, B.A., Newman Grove,
Neb.
John D. Cervenka, B.S., M.S., Min-
neapolis
Devron Henry Char, B.A., SUMMA
CUM LAUDE, St. Paul

John Edward Coonan, B.S., Minne-
apolis
Gary Douglas Cooney, B.S., Reno,
Nev.
Thomas Michael Cosgriff, B.A.,
Moorhead
Russell Allyn Dean, B.A., M.S.,
St. Paul
Dorr Gellatly Dearborn, Ph.D.,
New Brighton
Dirk Jon Derksen, B.A., Lake Crystal
Robert P. Dickey, B.S., M.S.Ch.E.,
Cottonwood
William Charles Duane, Jr., B.A.,
Mankato
Raymond LeRoy Duncan, B.A.,
Minneapolis
Noel Kennedy Dysart, Jr., B.A.,
Springfield
James Robert Eckman, B.A., Bloom-
ington
K. James Ehlen, B.A., Minneapolis
James Dwight Elkjer, B.A., Min-
neapolis
James Robert Enright, B.S., St. Paul
Ralph Jay Faville, Jr., B.S., Minne-
apolis
Ralph E. Fedor, B.A., Lakefield
John Arvin Flaskerud, B.A., CUM
LAUDE, St. Paul
William Lloyd Flood, B.Ch.E., Mt.
Prospect, Ill.
Daniel Harold Frenning, B.S.,
St. Paul
Carroll Michael Calvin, B.A., B.S.,
Watertown, S.D.
David Charles Gauvin, B.A., North
St. Paul
David James Giles, B.A., Holland
Richard Lee Good, B.A., Faribault
Alan Marc Gorden, B.A., Blackduck

Kathleen Marjorie Grant, B.A., Duluth
 Mark Alan Gray, B.S., Elk River
 Edward Whitman Green, B.A., B.S., Plankinton, S.D.
 Thomas Wright Hadley, B.A., Bagley
 Dale Edward Hammerschmidt, B.A., MAGNA CUM LAUDE, Minneapolis
 Carl William Hansen, B.S., Dresser, Wis.
 David Lee Hanson, B.A., SUMMA CUM LAUDE, St. Cloud
 Milton Carroll Hanson, B.A., Minneapolis
 Frederick Dye Hathaway, B.A., Lincoln, Neb.
 Susan Hedberg, B.A., St. Paul
 Michael John Hennessy, B.S., Austin
 David Lawrence Howard, B.A., St. Paul
 Patrick William Irvine, B.A., Detroit Lakes
 Richard Judson Ivance, B.A., St. Paul
 Robert Bruce Jacobson, B.A., Nevis
 Robert James Johnson, B.A., Minneapolis
 William John Kane, B.S., St. Paul
 Richard Gardner Kasper, B.A., St. Paul
 Dwight Allen Kauffman, B.S., Minot, N.D.
 Patrick Aloysius Keenan, B.S., St. Paul
 Ronald Wayne Keller, B.S., Miles City, Mont.
 Warren Clarence Ketterling, B.A., Morris
 Gene Francis Kishel, B.S., Virginia
 Ernest William Lampe II, Minneapolis
 Stephen Michael Larkin, B.S., Minnetonka
 Ernest LaVerne Larson, B.S., B.S., Rolla, N.D.
 Herbert Allen Levin, B.A., Minneapolis
 Jeffrey S. Liebo, B.A., B.S., Minneapolis
 Gerald Patrick Lilja, B.A., M.A., Minneapolis
 Stephen Arthur Lindahl, B.S., Sleepy Eye
 Mark Schloff Lindau, B.A., Aberdeen, S.D.
 Robert Steven Lund, B.A., Minneapolis
 Jon A. Maier, B.A., St. Paul
 Frank Richard Malin, B.A., LaCrosse, Wis.
 Gary James Miller, B.A., Minneapolis
 Howard Gerald Milstein, B.A., St. Paul
 Jay Merle Milstein, B.A., Minneapolis
 Kent Douglas Molde, B.A., SUMMA CUM LAUDE, Milan
 Wayne Virgil Moore, Ph.D., Wichita, Kan.
 John Charles Morgan, B.A., Minneapolis
 John Carl Muesing, B.A., New Ulm
 John Howard Myhre, B.S., Detroit Lakes
 Gregory Glenn Nelson, B.A., Redwood Falls
 Roger Lee Nelson, B.A., Rochester
 Frederic David Nemer, B.A., Minneapolis
 Jerry Jay Noren, B.A., Moose Lake
 Sherman Frank Ogle, B.S., St. Peter
 Lilla Ruth O'Grady, B.A., Minneapolis
 Eugene Willard Ollila, B.A., Zim
 Mark Alan Olson, B.S., Minneapolis
 Richard H. Olson, B.S., Minneapolis
 Michael Joseph Osborn, B.S., Rochester
 George Lincoln Osland, B.A., B.S., Mayville, N.D.
 Eric Stephen Overland, B.S., Missoula, Mont.
 Frank Louis Parker, Valley Cottage, N.Y.
 Charles Henry Pegelow, Jr., B.A., Sacred Heart
 Allen Leland Peterson, B.A., Minneapolis
 Jerome Raymond Peterson, B.A., M.S., St. Paul
 George Michael Pope, B.S., Silver Bay
 Arnold Samuel Potek, B.S., Minneapolis

Barbara Sue Puckett, B.A., Minneapolis
 Dwight Keith Rafferty, B.S., Devils Lake, N.D.
 John Robert Ragan, B.A., Minneapolis
 George Rawley, B.A., Minneapolis
 John James Regan, Jr., B.S., Minneapolis
 William Howard Reid, B.A., Minneapolis
 Nicholas Frank Reuter, B.A., Mazeppa
 Virgil Terrance Rhodes, B.S., Aitkin
 John Peter Ries, B.S., M.S., Rollingstone
 Gordon Alvin Rockswold, B.A., Madison
 William Robert Rowley, B.A., Owatonna
 Thomas Joseph Rozycki, B.A., Minneapolis
 William J. Sahl, Jr., B.S., St. Louis Park
 Steven Ray Salmela, B.A., Brooklyn Center
 Paul Nelson Sandager, B.A., B.S., Fargo, N.D.
 Paul Sidney Sanders, B.A., Stillwater
 Howard M. Savitt, B.A., Minneapolis
 Randall Terry Schapiro, Minneapolis
 Steven Jon Schepper, B.A., Vergas
 Tim B. Schmitt, B.S., Austin
 Richard Walter Schoewe, B.S., St. Paul
 Marshall Zane Schwartz, B.S., St. Louis Park
 Thomas Ray Scott, B.A., Minneapolis
 William Stephen Shimp, B.S., Minneapolis
 Lawrence Irvin Sirott, B.A., St. Paul
 Carl Wendell Sjoding, B.A., Mankato
 Joseph Ivan Skow, B.S., Mound
 Primus John Skumatz, Jr., B.S., Eveleth
 Stephen Lee Smith, B.A., Blue Earth
 Allan Bernhard Solum, B.A., B.S., Moorhead
 Ronald Marvin Sorenson, B.S. Pharm., Mountain Iron
 Bernard Wendlin Steele, B.A., North Oaks
 David Jay Stone, B.A., St. Louis Park
 Frederic Murray Stone, B.A., Minneapolis
 Erik Gordon Strom, B.A., Minneapolis
 James Christopher Strom, B.S., Rochester
 James Kenneth Struve, B.A., Rochester
 James Timothy Sturm, B.S., St. Paul
 Richard Joel Sukov, B.A., Minneapolis
 Kathleen Sulentic, B.A., Gilbert
 Mary Falenczykowski Tanghe, B.A., Richfield
 Thomas R. Terhorst, B.S., St. Paul
 Gordon James Thenemann, B.A., Winthrop
 Paul E. Thompson, B.A., Minneapolis
 Mary Barbara Tierney, B.A., Minneapolis
 James William Toskas, B.A., Mankato
 Terrence Don Truhler, B.A., St. Paul
 Thomas H. Tschetter, B.A., Jasper
 Thomas Martin Turek, B.S., Le Center
 Donald I. Twito, B.A., Minneapolis
 John Morrison Veitch, B.S., Lisbon, N.D.
 Harold Russell Veits, B.S., Minneapolis
 Ronald Francis Voltin, B.S., Minneapolis
 Thomas Eugene Vorpahl, B.A., St. Paul
 Richard Dennis Wachter, B.A., St. Louis Park
 James Robert Walker, B.A., Lakefield
 James Soren Westby, B.A., B.S., Minneapolis
 Paul Theodore Wicklund, B.A., St. Paul
 Thomas Arno Wittkopp, B.S., Worthington
 John V. Wrigley, B.S., Brookfield, Wis.
 John Thomas Ylvisaker, B.A., Minneapolis
 Victor Lin-Kai Yu, B.A., Minneapolis

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 MILITARY SCIENCE

Second Lieutenant, Adjutant General Corps

John T. Behrendt, Syracuse, Kan.
Raymond L. Erickson, Duluth

Second Lieutenant, Armor

Michael L. Czarniecki, Bethesda, Md.
John M. Degnan, Minneapolis
Josef Schroeder, Minneapolis

Second Lieutenant, Chemical Corps

Karl J. Aufderheide, Minneapolis

Second Lieutenant, Corps of Engineers

Peter L. Hovde, Edina

Second Lieutenant, Field Artillery

Brian A. Hawley, South St. Paul
Norman L. Newhall III, Minneapolis

Second Lieutenant, Infantry

Leon F. Hakkila, Roseville
Gary J. Krump, Circle Pines
Peter A. Michalski, Minneapolis

Jeffrey D. Ohm, Minneapolis
Gregory D. Shuster, St. Louis Park
Terence V. Zuber, Willoughby, Ohio

Second Lieutenant, Medical Service Corps

Rolf W. Parsons, Edina

Charles James Suk, Rochester

Second Lieutenant, Military Intelligence

David J. Davenport, Turtle Creek, Pa. John R. Velin, White Bear Lake

Second Lieutenant, Quartermaster Corps

Arnold R. Dick, Forest Lake Robin D. Linder, St. Paul

Second Lieutenant, Signal Corps

William D. Colbert, Houston, Tex. James C. Whelpley, Minneapolis
Donald F. Smith, Jr., Tuscaloosa, Ala.

Second Lieutenant, Transportation Corps

David W. McKenna, Lovelock, Nev. George R. Wilkinson, Blaine

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Robert Fulton Baarson, Edina Michael John Mayfield, Minneapolis
Carl Ralph Broberg, St. Paul Donald Peter Paskewitz, St. Paul
Robert Johnstone Gunn, Redwood Thomas William Sanders, Winona
Falls

Ensign, USNR

Alan Lawrence Edelmann, Minne- Jon Peter Moldestad, Minneapolis
apolis Robert George Rupp II, St. Paul
Ryan Lewis Hanson, Crosby, N.D. Russell Terrence Whitney, St. Paul
Richard Michael Huebner, Hastings

Second Lieutenant, USMC

Dan Thomas Bergstrom, Billings,
Mont.

Second Lieutenant, USMCR

Robert John Moberg II, St. Paul

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Charles A. Backman III, Rochester	David W. Mellum, Minneapolis
Richard G. Ballintine, Minneapolis	Jeffrey L. Obst, St. Paul
William E. Bowen, Jr., St. Paul	David E. Peterson, Rochester
David L. Broste, St. James	Lee H. Peterson, St. Paul
Richard B. Brown, Minneapolis	Christopher M. Pink, Minneapolis
James A. Buxell, Robbinsdale	David A. Puffer, White Bear Lake
Drue S. Christian, Bloomington	Gerald A. Reuter, Mapleton
James R. Codlin, Minneapolis	Craig A. Rhymers, Minneapolis
Earl H. Cohen, St. Paul	Thomas M. Scallen, Minneapolis
Andrew M. Crowe, Minneapolis	Ralph P. Schaefer, St. Cloud
Kenneth E. Ewald, Minnetonka	James P. Schafer, Minneapolis
John J. Fox, Jr., Brightwaters, N.Y.	Larry T. Schiller, Wadena
John L. Fox, Appleton	Joseph E. Snook, Jr., Millmont, Pa.
William S. Herbert, Jr., Edina	Ross O. Starkson, Rochester
Douglas G. Isaacson, Minneapolis	Robert L. Tibodeau, Storden
Alan K. Lambert, Minneapolis	Wayne A. Weslander, Coon Rapids
Robert M. Ludwig, Minneapolis	Timothy J. Whelan, Crystal
Timothy J. McCauley, Minneapolis	Robert J. White, Minneapolis
Michael B. McShane, Minneapolis	

Summary of Degrees Conferred by the University During the Academic Year, 1969-1970

Conferred July, August, and December, 1969; and March, 1970	5,264
Conferred June, 1970 (subject to completion of requirements)	<u>5,413</u>
Total degrees conferred 1969-1970	10,677*

* Includes 1,114 conferred at Duluth, 235 at Morris, and 100 at Crookston.

Academic Costume

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

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

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

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

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

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

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



UNIVERSITY OF MINNESOTA

August Commencement, 1970

FRIDAY AFTERNOON, AUGUST 21, 4:00 P.M.

ON THE MALL
IN FRONT OF
NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

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

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

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

The Honorable Fred J. Hughes, St. Cloud

The Honorable George W. Rauenhorst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

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 nineteenth 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 223,600 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 50,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Rochester campuses, the University offers, through its Schools of Agriculture and its General Extension Division, specialized training designed to assist those who wish to study on a part-time basis. It offers further educational opportunity throughout the State by providing county agents, home agents, 4-H club agents, and recreation and health consultants who give effective instruction to residents of the State in their own homes.

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

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

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

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

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

As it meets the needs of present students, the University must also make plans for those of the future. The 50,145 students who enrolled at the University at the beginning of the 1969-1970 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

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

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

The summary financial statement of 1968-1969 showed that the University's current income amounted to \$213,904,479. Of the total received, \$18,422,666 came from student tuition and fees; \$33,438,168 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; \$1,870,514 from intercollegiate athletics; \$29,714,645 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 \$13,050,547 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also, \$46,383,128 came from the federal government for instruction, research, and agricultural extension. The State provided \$71,024,811 or 33.2 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$17,179,689.

COMMENCEMENT marks only the conclusion of the individual's academic life at the University. As a graduate, he contributes to its history and par-

ticipates in its aspirations. Alumni are urged to continue their affiliation with the University through the Minnesota Alumni Association and its college groups. Also, support is urged for the University of Minnesota Alumni Fund, administered in the Alumni Office in Coffman Memorial Union, and the Special Projects Program, which includes scholarships, medical and technological research, and college service funds.

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Twin Cities campus of the University this 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 Thomas R. Teeter, College of Liberal Arts, '72. 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., University Organist, will play.

MALL PROCESSION: The audience is requested to remain seated so that all can see the academic procession as it proceeds from Coffman Union toward the stage. At 4:00 p.m., Associate Professor Keith Wharton, Ph.D., College of Agriculture, as Mace-Bearer, will carry the Mace to the stage, heralding the arrival of the academic procession of the candidates for degrees. Marshal Wharton will present the Mace to the audience and degree candidates. When all those marching have taken their seats, he will put the Mace into its cradle to signal the beginning of the ceremony. During the procession, Professor Fleischer will play:

Solemn MarchMendelssohn

ON THE STAGE: Seated from left to right are:

Marshal Wharton

Assistant Recorder Charles F. Liesenfelt, M.A., Admissions and Records
Acting Dean Frank H. Kaufert, Ph.D., School of Forestry, Institute of
Agriculture

The Reverend Robert S. Lehman, S.T.B., Senior Minister, First Unitarian
Society of Minneapolis, and Member of the Council of Religious
Advisers

Dean Willard L. Thompson, Ph.D., General Extension Division

Dean Lawrence C. Weaver, Ph.D., College of Pharmacy

Dean E. W. Ziebarth, Ph.D., College of Liberal Arts

Assistant Dean Frank B. Wilderson, Jr., Ph.D., College of Education

Vice President Paul H. Cashman, Ph.D., Student Affairs

The Honorable John A. Yngve, Regent of the University of Minnesota

Mr. Ved Mehta, M.A., author, speaker

President Malcolm Moos, Ph.D., University of Minnesota

Vice President William G. Shepherd, Ph.D., Academic Administration

Assistant Dean Millard L. Gieske, Ph.D., Graduate School

Assistant Dean Paul A. Cartwright, Ph.D., Institute of Technology

Associate Dean H. Mead Cavert, Ph.D., College of Medical Sciences

Associate Dean G. Gordon Kingsley, Ph.D., General College

Dean Alfred L. Vaughan, Ph.D., Director, University College

Associate Dean George Seltzer, Ph.D., School of Business Administration

Assistant Professor Philip Steen, M.A., College of Education, soloist

Professor Harold G. Swanson, Ph.D., Director of Information and
Agricultural Journalism, College of Agriculture, Marshal

THE NATIONAL ANTHEM: As Professor Steen 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: Reverend Lehman.

SPEAKING FOR THE UNIVERSITY: President Moos.

COMMENCEMENT ADDRESS: Mr. Mehta.

CONFERRING OF DEGREES: President Moos will confer certificates and degrees upon candidates representing both the July and August summer sessions.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: As each new Doctor of Philosophy is invested with his hood, assisted by Marshals Wharton and Swanson, he will be presented individually by Dean Gieske.

CONFERRING OF OTHER GRADUATE SCHOOL DEGREES: Dean Gieske will then present recipients of other graduate school degrees to President Moos and the audience.

PRESENTATION OF CERTIFICATES AND BACHELOR'S DEGREES: Vice Presidents Shepherd and Cashman will introduce the deans of the several colleges or their representatives, who will present to President Moos the recipients of certificates and degrees. They are, in order of their introduction:

Dean Kingsley for the General College
Dean Ziebarth for the College of Liberal Arts
Dean Vaughan for the University College
Dean Cartwright for the Institute of Technology
Acting Dean Kaufert, School of Forestry, for the Institute of Agriculture
Dean Wilderson for the College of Education
Dean Seltzer for the School of Business Administration
Dean Weaver for the College of Pharmacy
Dean Cavert for the College of Medical Sciences

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!	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 and guests leave their seats, Professor Fleischer will play:

Festival Music*Handel*

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

Candidates for Graduation

Subject to the completion of all curriculum requirements at the close of the summer sessions, 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

JULY

Jerome Ogdon Webster, St. Paul

B.A. '40, Gustavus Adolphus; M.A. '51, Ed.S. '58, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: A Study of Relationships Between School District Receipts From Minnesota's Tax Reform and Relief Act and Seven School District Variables. Major Adviser: Prof. Van Mueller.

AUGUST

John James Feda, Marshall

B.A. '50, St. John's University; M.A. '54, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: An Analysis of Intermediate Units as School Property Tax Bases to Meet the Fiscal Disparities Found in the Support of Education. Major Adviser: Prof. C. P. Hooker.

Thomas Louis Jackson, Du Quoin, Ill.

B.S. '51, Southern Illinois University; M.A. '59, M.A.P.A. '67, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: Factors Related to Secondary Teacher Turnover in the Minneapolis Public School System 1964-1967. Major Adviser: Prof. C. P. Hooker.

Gordon Bernard Johnson, St. Paul

B.S. '53, M.A. '60, University of Minnesota. Major: Educational Administration. Minor: Education. Project: A Comparative Evaluation of the Flexible-Modular Schedule at Harding High School, St. Paul, Minnesota. Major Adviser: Prof. Van Mueller.

Leland Stanford Renz, Spring Lake Park

B.S. '52, M.A. '63, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: A Model of an Independent Study Program for Modular Flexibly Scheduled Secondary Schools. Major Adviser: Prof. N. C. Nickerson.

Dean LaVon Swanson, Braham

B.S. '59, M.A. '66, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: An Analysis of the Effect of Residential Status on Student Achievement at Rochester State Junior College. Major Adviser: Prof. Van Mueller.

David Lee Wettergren, St. Peter

B.S. '61, Gustavus Adolphus College; M.A. '66, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: An Analysis of Selected State Legislation That Has Encouraged School District Reorganization. Major Adviser: Prof. N. C. Nickerson.

Doctor of Philosophy

JULY

Jean Phyllis Anderson, Oak Park, Ill.

B.S. '62, Wheaton College; M.A. '63, Northwestern University. Major: Education. Minor: Educational Psychology. Thesis: An Electromyographic Study of Ballistic Movement in the Tennis Forehand Drive. Major Adviser: Prof. Marjorie Wilson.

Roger Hartley Anderson, Minneapolis

B.A. '63, Carleton College; M.A. '65, University of Minnesota. Major: Educational Psychology. Minors: Psychology and Child Psychology. Thesis: Visual Recognition Memory, Paired Associate Learning and Reading Achievement. Major Advisers: Profs. J. Duker and S. J. Samuels.

**Saad Hassan Barghout, Alexandria,
United Arab Republic**

B.Com. '46, Faculty of Commerce; M.A. '53, University of Chicago. Major: Industrial Relations. Minors: Economics and Sociology. Thesis: Economic Development and Female Participation in the Labor Force. Major Adviser: Prof. George Seltzer.

Daniel Patrick Bergen, Oxford, Miss.

B.A. '57, University of Notre Dame; M.A. '61, University of Chicago; M.A. '62, University of Notre Dame; M.A. '68, University of Minnesota. Major: American Studies. Thesis: In Fear of Abstraction: The Southern Response to the North In Twentieth-Century Fiction and Non-Fiction. Major Adviser: Prof. J. Kwiat.

**Richard E. Boettcher, Kalamazoo,
Mich.**

B.A. *magna cum laude* '57, M.S.W. '59, Washington University. Major: Social Work. Minor: Sociology. Thesis: An Investigation of the Participation of AFDC Recipients in the Food Stamp Program Cast Within the Framework of Etzoini's Compliance Theory. Major Adviser: Prof. E. W. Francel.

James Henry Bowden, Louisville, Ky.

B.A. '55, University of Minnesota; M.A. '59, University of Louisville. Major: American Studies. Thesis: The Religious Significance of the Oneida Experiment. Major Adviser: Prof. M. Q. Sibley.

**Judith Ellen Chapman, Milwaukee,
Wis.**

B.A. '65, University of Wisconsin. Major: Child Psychology. Minor: Psychology. Thesis: Mirror-Image Discrimination in Pre-School Children. Major Adviser: Prof. H. L. Pick.

**Martha Novak Clinkscale, Riverside,
Calif.**

B.Mus. '53, University of Louisville; M.Mus. '55, Yale University. Major: Music. Minor: Art History. Thesis: Pier Francesco Cavalli's Xerse. Major Adviser: Prof. J. Riedel.

**Richard Paul Crawford, Jr., Iowa City,
Iowa**

D.V.M. '57, Texas Agricultural and Mechanical University; M.S. '61, Auburn University. Major: Veterinary Bacteriology. Minor: Public Health. Thesis: Leptospirosis Immunoglobulins In the Guinea Pig with Special Attention to Immunoglobulins Produced Following Infections with Serogroup Pomona Leptospire. Major Adviser: Prof. R. K. Anderson.

Robert Duane DeMaster, Lakeville

B.A. '63, St. Olaf College. Major: Organic Chemistry. Minor: Biochemistry. Thesis: A New Synthesis of Indoles. Major Adviser: Prof. W. E. Noland.

**Sidney Miller Dinsdale, Dundas,
Ontario, Canada**

M.D. '63, Queen's University. Major: Physical Medicine and Rehabilitation. Minor: Pathology. Thesis: Mechanical Factors in the Pathogenesis of Ischemic Skin Ulcers in Swine. Major Adviser: Dr. F. J. Kottke.

Craig Robb Ducat, Rochester, N.Y.

B.A. '66, Syracuse University; M.A. '68, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Dimensions of Jurisprudence and Judicial Decision-Making in the Law of Obscenity. Major Adviser: Prof. H. W. Chase.

Curtis William Ellison, Sumiton, Ala.

B.A. '65, University of Alabama; M.A. '67, University of Minnesota. Major: American Studies. Minor: Supporting Program. Thesis: Black Adam: The Adamic Assertion and the Afro-American Novelist. Major Adviser: Prof. M. C. Turpie.

Dean Richard Evert, Falcon Heights

B.S.E.E. '59, M.S.E.E. '60, University of Illinois. Major: Plant Physiology. Minor: Biochemistry. Thesis: The Characterization and Interpretation of Electrical Properties of Woody Plant Stems in Relation to Cold Acclimation and Injury. Major Adviser: Prof. C. J. Weiser.

Patrick George Gerster, St. Paul

B.A. '64, College of St. Thomas; M.A. '65, University of Minnesota. Major: History. Minor: American Studies. Thesis: Aesthetic Individualism: Key to the Alienation of the American Intellectual-Studies in Ralph Waldo Emerson, Henry David Thoreau, and Walt Whitman. Major Adviser: Prof. D. W. Noble.

**Dietmar Kurt Hennecke, Düsseldorf,
Germany**

Dipl.Ing. '64, Technische Hochschule Aachen. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Flow and Heat Transfer in a Rotating Cavity with Axial Through Flow. Major Advisers: Profs. E. Eckert and E. M. Sparrow.

Arthur Ludwig Herman, Buxton, N.D.

B.A. '52, M.A. '58, University of Minnesota. Major: Philosophy. Minor: Supporting Program. Thesis: The Problems of Evil and Indian Thought. Major Adviser: Prof. K. H. Potter.

Eleanore Sharon Jones, Holdrege,
Neb.

B.S. '61, Ottawa University; M.A. '64, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: A Generalization of Two-Vertex Theorem for Space Curves. Major Adviser: Prof. W. F. Pohl.

Jacques Georges Jouven, Paris, France
B. de l'Enseignement '64, Ecole Polytechnique, Paris. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Modeling Toward Stability Analysis of a Packed Bed Chemical Reactor. Major Adviser: Prof. R. Aris.

Arthur Martin Jungreis, Lawrence,
N.Y.

B.S. '63, University of Michigan; M.S. '67, University of Minnesota. Major: Zoology. Minor: Biochemistry. Thesis: Metabolic Aspects of Urea Production in the Frog *Rana pipiens*. Major Adviser: Prof. A. B. Hooper.

Ung Ring Ko, Seoul, Korea

M.D. '57, Seoul National University; M.S. '61, University of Minnesota. Major: Biometry. Minor: Public Health. Thesis: The Effect of Mortality Changes for Specific Causes of Death on Population Structure. Major Adviser: Prof. M. O. Kjelsberg.

Bruce Chandler Libby, Minneapolis

B.A. '65, University of Minnesota. Major: Psychology. Minor: Psychiatry and Neurology. Thesis: The AB Dimension in a Counseling Analogue. Major Adviser: Prof. A. Tellegen.

James Peter Licari, Biwabik

B.S. '65, M.S. '67, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Domain Dependence of Eigenvalues of Vibrating Plates. Major Adviser: Prof. W. H. Warner.

Stephan Carl Lundin, St. Paul

B.A. '64, Hamline University; M.A. '68, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: College Curriculum Evaluation Based on the Monitoring of Student Achievement. Major Adviser: Prof. D. G. Force.

Martin Francis McKneally, Newburgh,
N.Y.

B.A. *cum laude* '57, College of The Holy Cross; M.D. '61, Cornell University. Major: Microbiology. Minor: Biochemistry. Thesis: The Influence of the Thymus and Appendix on the Immune Responses of X-Irradiated Newborn and Adult Rabbits. Major Adviser: Prof. R. A. Good.

Lawrence Preston Moon, Spring
Valley

B.S. with distinction '54; M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Changes in Professional and Auxiliary Personnel Attitudes Toward Disadvantaged Children Associated with Working Relationships in a Public School Setting. Major Adviser: Prof. W. H. Edson.

Brian Joseph Murton, Gisborne, New
Zealand

B.A. '61, M.A. '62, University of Canterbury. Major: Geography. Minor: History. Thesis: Man, Mind and Land: A Peasant Production System in Late Eighteenth Century South India. Major Adviser: Prof. J. Broek.

Terry Marvin Nagel, Minneapolis

B.A. '65, Macalester College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Studies of the Kinetics of Formation and Dissociation of Monofluoropentaaquoiron (III) Ion in the Presence and Absence of Iron (II). Major Adviser: Prof. W. L. Reynolds.

David Arnold Nelson, St. Paul

B.A. '63, St. Olaf College; M.A. '66, University of Minnesota. Major: Speech Science, Pathology and Audiology. Minor: Psychology. Thesis: Interactive Effects of Recovery Period and Stimulus Intensity on the Human Auditory Evoked Vertex Response. Major Adviser: Prof. W. D. Ward.

Larry Burnett Newman, Cayuga, N.Y.

B.S. '65, M.S. '67, Cornell University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Effects of Freestream Turbulence on Local Heat Transfer from a Sphere. Major Adviser: Prof. E. M. Sparrow.

Paul Clifton Nystrom, St. Paul

B.S. with distinction '62, M.A.P.A. '66, University of Minnesota. Major: Industrial Relations. Minor: Supporting Program. Thesis: Simulation of a System of Managerial Manpower Flows Within a Corporate Labor Market. Major Adviser: Prof. T. Mahoney.

Lloyd Oliver Ollila, Tower

B.S. '62, M.A. '67, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Effects of Three Contrasting Readiness Programs on the Readiness Skills of Kindergarten Boys and Girls. Major Adviser: Prof. T. W. Clymer.

Oliver Sinclair Osterberg, Minneapolis

B.A. magna cum laude '47, University of Minnesota. Major: Theatre. Minor: Supporting Program. Thesis: Proteus: Form and Idea in Three Metaphysical Plays of George Gordon, Noel, Lord Byron. Major Adviser: Prof. F. M. Whiting.

Richard Francis Palas, Berwyn, Ill.

B.S.Ch.E. highest distinction '65, Purdue University; M.S.Ch.E. '66, University of Minnesota. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Direct Digital Control of a Distributed-Parameter Process. Major Adviser: Prof. N. H. Ceaglske.

Gretel Hoffman Pelto, St. Paul

B.A. '63, M.A. '67, University of Minnesota. Major: Anthropology. Minor: Psychology and Linguistics. Thesis: Life on The Upper Mississippi: Social and Psychological Adaptations in a Marginal Rural Area. Major Adviser: Prof. F. C. Miller.

Walter Luther Pelz, Lindsborg, Kan.

B.S.Ed. '48, Concordia College; M.A. '51, Northwestern University. Major: Music. Minor: Music Education. Thesis: Genesis to a Beat—A Contemporary Cantata Scored for Four Choirs, Tape Recorder and Orchestra. Major Adviser: Prof. P. Fetter.

Gerald John Pierre, Milwaukee, Wis.

B.A. '59, St. John's University; M.A. '63, University of Minnesota. Major: English. Minor: Supporting Field. Thesis: The Influence of Sir William Temple upon the Mind and Art of Jonathan Swift. Major Adviser: Prof. S. H. Monk.

Ann Bogue Pratt, Chicago, Ill.

B.A. '52, Antioch College; M.A. '61, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Meanings of Popular and Unpopular Occupations on the Strong Vocational Interest Blank for Women. Major Adviser: Prof. J. Darley.

Karl Bennett Raitz, Hector

B.A. '67, M.A. '69, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: The Location of Tobacco Production in Wisconsin. Major Adviser: Prof. E. C. Mather.

George James Rockwell, Jr., Chase City, Va.

B.A. '64, University of Richmond. Major: Child Psychology. Minor: Educational Psychology. Thesis: Children's Task Performance as a Function of Friendship Status, Independence or Interdependence of Means and Goals. Major Adviser: Prof. Marian D. Hall.

Gaylord Paul Schwartz, Bloomington

B.S. '56, Massachusetts Institute of Technology. Major: Mathematics. Minor: Statistics. Thesis: Parametric Representation of Plant Quasiconformal Mappings. Major Adviser: Prof. E. Reich.

Stuart Alan Schweitzer, Lexington, Ky.

B.B.A. cum laude '64, City College of New York. Major: Economics. Minor: Supporting Program. Thesis: Costs and Production in Banking: The Case of the Ninth Federal Reserve District. Major Adviser: Prof. J. Kareken.

Edward Peter Smereka, Aurora, Ontario, Canada

B.S.A. '54, University of Canada; M.S. '59, University of Minnesota. Major: Entomology. Minor: Botany. Thesis: The Life History and Ecology of *Enargia Decolor* WLK (Lepidoptera: Noctuidae) in Northwestern Ontario. Major Adviser: Prof. A. Hodson.

Velta Ligita Sparnins, St. Anthony Village

B.Chem. with high distinction '65, M.S. '68, University of Minnesota. Major: Biochemistry. Minor: Microbiology. Thesis: Purification and Characterization of Exonuclease IV-A from *Escherichia Coli* B. Major Adviser: Prof. J. F. Koerner.

Gaylord Herbert Todd, Detroit, Mich.

B.A. '51, Wayne State University; M.A. '52, University of Michigan. Major: Comparative Literature. Minor: French. Thesis: The New Novel in France and Germany: Convergence and Divergence. Major Adviser: Prof. F. S. Hirschbach.

Gary Neal Underwood, Piggott, Ark.

B.A. '62, M.A. '64, Texas A & M University. Major: English. Minor: Linguistics. Thesis: The Dialect of the Mesabi Iron Range in its Historical and Social Context. Major Adviser: Prof. H. B. Allen.

Marie Louise Waters, Radford, Va.

B.A. in Ed. '54, Radford College; M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Differences in Test Performance of Rural and Urban Culturally Disadvantaged Children. Major Adviser: Prof. R. O. Collier, Jr.

Mark Matthew Welter, Le Sueur

B.A. '55, St. John's University; M.S. '62, Mankato State College. Major: History. Minor: Curriculum and Instruction. Thesis: Minnesota Newspapers and the Cuban Crises, 1895-1898: Minnesota as a Test Case for the 'Yellow Journalism' Theory. Major Adviser: Prof. R. C. Loehr.

AUGUST

Leo James Alex, Rochester

B.A. *cum laude* '64, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: On Simple Groups Whose Order is of The Form $2a3p76p$. Major Adviser: Prof. G. Keller.

Richard David Arvey, Minneapolis

B.A. '66, Occidental College; M.A. '68, University of Minnesota. Major: Psychology. Minor: Statistics. Thesis: An Experimental Investigation of the Effects of Two Kinds of Expectancies on the Performance of a Laboratory Task. Major Adviser: Prof. J. P. Campbell.

Robert Allen Bassham, Tulsa, Okla.

B.A. *cum laude* '50, M.A. '52, University of Tulsa. Major: Child Psychology. Minor: Psychology. Thesis: The Relation of Test Anxiety to Aggression in Fourth Grade Boys. Major Adviser: Prof. H. Stevenson.

John David Berdahl, Grafton, N.D.

B.S. with honor '65, M.S., '67, North Dakota State University. Major: Plant Breeding. Minor: Plant Physiology. Thesis: The Effect of Leaf Area on Light Penetration, Photosynthesis, and Grain Yield of Barley (*Hordeum vulgare* L. emend. Lam.). Major Adviser: Prof. D. C. Rasmusson.

Terry Frank Bidleman, Chicago, Ill.

B.S. '64, Ohio University. Major: Analytical Chemistry. Minors: Inorganic and Physical Chemistry. Thesis: Bismuth-Dithizone Equilibria in the Carbon Tetrachloride-Water System. Major Adviser: Prof. E. B. Sandell.

Maurice Blaug, Minneapolis

B.S. '59, City College of New York; M.S. '66, University of Minnesota. Major: Zoology. Minor: Physics. Thesis: The Effect of Temperature on Continuously Cultured Algae. Major Adviser: Prof. F. M. Williams.

H. Daniel Bodley, Roseville

B.S. '61, Hamline University; M.S. '68, University of Minnesota. Major: Anatomy. Minor: Zoology. Thesis: Ultrastructural Studies on the Elastic Fiber. Major Adviser: Dr. R. L. Wood.

Paul Hugo Boerger, Minneapolis

B.S. '56, Concordia College; M.A. '63, University of Minnesota. Major: Educational Psychology. Minors: Psychology and Child Psychology. Thesis: The Relationship of Boys' Intellectual Achievement Behavior to Parental Involvement, Aspirations, and Accuracy of IQ Estimate. Major Adviser: Prof. J. Duker.

John Douglas Bransford, Minneapolis

B.A. '66, Hamline University. Major: Psychology. Minors: Child Psychology and Linguistics. Thesis: Temporal Integration and the Acquisition of Linguistic Ideas. Major Adviser: Prof. J. J. Jenkins.

Selma Ruth Burkorn, Clinton, N.Y.

B.S. '61, Towson State College; M.A. '63, New York University. Major: English. Minor: Philosophy. Thesis: A Reconciliation of Opposites: A Study of the Works of Doris Lessing. Major Adviser: Prof. G. T. Wright.

Martin Clare Campion, Minneapolis

B.A. *summa cum laude* '56, College of St. Thomas. Major: History. Minor: English. Thesis: The Gilded Age in American Historiography. Major Adviser: Prof. D. W. Noble.

Richard Yo Chuang, Shanghai, Republic of China

B.A. in Law '61, National Taiwan University; M.A. '64, University of Minnesota. Major: International Relations. Minor: Supporting Field. Thesis: The International Air Transport Association: A Case Study of a Quasi-Governmental Organization. Major Adviser: Prof. C. McLaughlin.

Peter James Connelly, Minneapolis

B.A. '59, Carleton College. Major: English. Minor: Classics. Thesis: Three Eighteenth Century Translations of the Iliad. Major Adviser: Prof. R. E. Moore.

George Hubert Copa, Little Falls

B.S. '65, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Identifying Educational System Inputs Toward Production Function Application in Education. Major Adviser: Prof. G. I. Swanson.

Roger Nugent Cornish, Washington, D.C.

B.A. '59, University of Connecticut; M.F.A. '63, Catholic University of America. Major: Theatre Arts. Minor: Comparative Literature. Thesis: The Decline of the Leader: Recent English and American Historical Plays. Major Adviser: Prof. A. H. Ballet.

Willy DeGeyndt, Brussels, Belgium

B.A. '52, Charles Buls College; M.S. '66, University of Minnesota. Major: Hospital Administration. Minor: Supporting Field. Thesis: Organization and Delivery of Comprehensive Health Services with Major Emphasis on Services to Children and on the Role of the Federal Government. Major Adviser: Prof. V. E. Weckwerth.

Robert Allyn Dick, Portland, Ore.

B.A. '65, Westmont College. Major: Psychology. Minor: Educational Psychology. Thesis: Independence of Component Tasks in a Multi-Dimensional Tracking Task. Major Adviser: Prof. P. W. Fox.

Edward Aldey Dorey, Deerfield, Mass.

B.S. '60, M.Ed. '61, Boston University. Major: Education. Minor: Educational Administration. Thesis: The Effects of Class Composition on Combatives Skills Physical Fitness and Attitudes of College Students. Major Adviser: Prof. D. E. Richardson.

John Henry Drew, Cleveland, Ohio

B.S. '65, Case Institute of Technology. Major: Mathematics. Minor: Statistics. Thesis: An Oscillatory System with Slip Damping. Major Adviser: Prof. W. S. Loud.

Neil Andrew Eklund, Minneapolis

B.S. cum laude '63, Hamline University; M.S. '66, University of Minnesota. Major: Mathematics. Minor: Supporting Field. Thesis: Regular Points for Parabolic Equations with Discontinuous Coefficients. Major Adviser: Prof. D. G. Aronson.

John Whitney Evans, Duluth

B.A. '53, St. Paul Seminary; M.A. '58, Catholic University of America. Major: Education. Minor: Educational Administration. Thesis: The Newman Movement: A Social and Intellectual History of Roman Catholics in American Higher Education, 1883-1969. Major Adviser: Prof. T. Smith.

Karl-Heinz Willi Evers, Duluth

B.S. '59, University of Minnesota, Duluth; M.A. '62, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Effects of Bilingualism on the Recall of Words Presented Aurally. Major Adviser: Prof. E. M. Birkmaier.

Harold Joseph Fitterer, North

Mankato

B.S. '50, Mankato State College; M.S. '55, University of Wisconsin. Major: Education. Minor: English. Thesis: A Sense of the Scrious Approach to Teaching Literature in the Secondary School: A Study of Selected Nineteenth-Century American Novels and Poems. Major Adviser: Prof. S. Kegerl.

Nancy Bohac Flood, St. Paul

B.A. '67, Beloit College. Major: Psychology. Minor: Supporting Field. Thesis: Effects of Telencephalic and Olfactory Tract Lesion on Appetitive Runway Performance of the Goldfish, *Carassius Auratus*. Major Adviser: Prof. J. B. Overmier.

Jeffery John Franks, Eveleth

B.S. '66, Michigan State University. Major: Psychology. Minors: Child Psychology and Linguistics. Thesis: Visual Pattern Recognition: The Acquisition and Use of Arbitrary Relational Systems. Major Adviser: Prof. J. J. Jenkins.

Bernard Allen Friedenson, Duluth

B.A. cum laude '65, University of Minnesota, Duluth. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Chemical Studies on the Protease Ficin and a Comparison of its Multiple Forms. Major Adviser: Prof. I. E. Liener.

Mary Howe Goette, St. Paul

B.A. cum laude '45, M.A. '51, University of Minnesota. Major: Political Science. Minor: Psychology. Thesis: A Study of Minnesota's Experience with the College Placement Examination as a Device for Recruiting Excellent College Graduates into the State Civil Service. Major Adviser: Prof. C. Warp.

**Lawrence Victor Gusta, Selkirk,
Manitoba, Canada**

B.S.A. '63, M.S. '65, University of Manitoba. Major: Plant Physiology. Minor: Biochemistry. Thesis: Changes in Nucleic Acids and Protein During Cold Acclimation in Korean Boxwood Leaves. Major Adviser: Prof. C. J. Weiser.

**Sabecha Hafeez, Lahore, West
Pakistan**

B.A. '62, M.A. '64, University of Karachi; M.A. '68, University of Minnesota. Major: Sociology. Minor: Supporting Field. Thesis: An Empirical Study of Dimensions of Inter-organizational Relationships and Their Relations to The Organizational Characteristics. Major Adviser: Prof. R. H. Hall.

Brian Joseph Hales, Des Plaines, Ill.

B.S. '66, Carnegie Institute of Technology. Major: Physical Chemistry. Minor: Physics. Thesis: Flash Photolysis Kinetics Using Electron Spin Resonance Spectroscopy. Major Adviser: Prof. J. R. Bolton.

**Kenneth Robert Hampton, Kingman,
Ariz.**

B.S. '61, Arizona State College. Major: Psychology. Minor: Neuropsychiatry. Thesis: Comparison of the Behavior of Recidivists During Group Psychotherapy in Prison as Reflected by Therapist Ratings. Major Adviser: Prof. R. D. Wirt.

William Barton Hatfield, Barboursville, W. Va.

B.S. '66, Virginia Polytechnic Institute. Major: Chemical Engineering. Minor: Mathematics. Thesis: Development and Analysis of a Model for an Idealized Continuous Fluidized Bed Chemical Reactor. Major Adviser: Prof. N. Amundson.

Norio Hayakawa, Yamazata, Japan

B.Eng. '62, M.Eng. '64, University of Tokyo. Major: Civil Engineering. Minor: Mathematics. Thesis: The Generation of Waves in an Alluvial Open Channel. Major Adviser: Prof. A. G. Anderson.

Gerald Robert Haywood, Fowler, Kan.

B.A. '62, Kansas State Teachers College; M.S. '65, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Quantitative Relationships Between Individual H-2 Isoantigens and Tumor Specific Antigens on Chemically Induced Tumors in Mice. Major Adviser: Prof. C. F. McKhann.

William George Heath, Jr., South Westport, Mass.

B.A. cum laude '66, Bowdoin College; M.A. '68, University of Minnesota. Major: English. Minor: History. Thesis: Cyrus Bartol, Transcendentalist: An Early Critic of Emerson. Major Adviser: Prof. C. H. Foster.

Bradley Warren Hempstead, Minneapolis

B.S. '65, University of Minnesota. Major: Mathematics. Minor: Philosophy. Thesis: Tight Immersions in Higher Dimensions. Major Adviser: Prof. W. Pohl.

Florence Evalyn Hennen, Alexandria

B.S. high distinction '55, M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Study of An Actuarial Method and a Markov Model as Approaches to the Problem of Estimating Professional Persistence Among Teachers. Major Advisers: Profs. R. O. Collier and R. E. Wilk.

Donald George Herron, Elkhart, Ind.

B.A. '61, Aurora College; M.A. '69, University of Minnesota. Major: Sociology. Minor: Supporting Field. Thesis: Alienation and Student Orientation in the Contemporary University. Major Adviser: Prof. D. Martindale.

Charles Russell Hill, Omaha, Neb.

B.S. '64, Iowa State University. Major: Economics. Minor: Supporting Field. Thesis: The Economic Determinants of Labor Supply for the Urban Poor. Major Adviser: Prof. N. Simler.

Virgil Dean Hoftiezter, St. Paul

B.S. '63, Northern State College. Major: Anatomy. Minor: Zoology. Thesis: A Comparison of Streptozotocin- and Alloxan-Induced Diabetes in the Rat. Major Adviser: Prof. C. B. Heffestad.

Martin Olaf Holoien, Fargo, N.D.

B.S. '51, Moorhead State; M.S. '59, North Dakota State University. Major: Education. Minor: Mathematics. Thesis: Calculus and Computing: A Comparative Study of the Effectiveness of Computer Programming as an Aid in Learning Selected Concepts in First-Year Calculus. Major Adviser: Prof. D. C. Johnson.

James Lawrence Jacobson, Duluth

B.A. '53, M.A. '68, University of Minnesota. Major: Psychology. Minor: Medical Sciences. Thesis: The Conceptualization and Specification of Target Behavior and Intermediate Outcome Criteria for Prison Group Psychotherapy. Major Adviser: Prof. D. T. Lykken.

Ruben Jacobsohn, Holon, Israel

B.S.Ag. '63, Hebrew University of Jerusalem; M.S. '67, University of Minnesota. Major: Plant Physiology. Minor: Agronomy. Thesis: Studies on Differential Response of Four Wild Oat Biotypes and Two Barley Varieties to Barban. Major Adviser: Prof. R. Behrens.

James Clifton Johnson, Southfield, Mich.

B.A. '63, University of Michigan. Major: Psychology. Minor: Educational Psychology. Thesis: Differences in the Vocational Interest Patterns of Engineers Engaged in Research, Development, Production, and Sales Functions. Major Adviser: Prof. M. Dunnette.

Diana Johnstone, Minneapolis

B.S. cum laude '62, M.A. '64, University of Minnesota. Major: French. Minor: Classics. Thesis: Malraux and the Ethical Novel: An Essay in Negative Criticism. Major Adviser: Prof. A. Renaud.

Richard Frank Kitchener, Covina, Calif.

B.A. '63, M.A. '67, California State College. Major: Philosophy. Minor: Psychology. Thesis: Explanation in Psychology. Major Adviser: Prof. H. Feigl.

Harvey Lee Klevar, Angleton, Tex.

B.A. '59, University of St. Thomas; M.A. '68, University of Minnesota. Major: American Studies. Thesis: The Sacredly Profane and Profanely Sacred: Flannery O'Connor and Erskine Caldwell as Interpreters of Southern Cultural and Religious Traditions. Major Adviser: Prof. M. Sibley.

Randolph Herbert Knapp, Belgrade,
Mo.

B.S. '65, Missouri University; M.S. '66, University of Colorado. Major: Chemical Engineering. Minor: Supporting Field. Thesis: Geometric Perturbations in Gas-Solid Reaction Systems. Major Adviser: Prof. R. Aris.

Lea Jean Korri, Calumet, Mich.

B.S. '61, Northern Michigan College; M.Ed. '62, Pennsylvania State University. Major: Education. Minor: History. Thesis: Instructional Problems Encountered by Women Physical Education Teachers and Their Relation to Teaching Competence as Expressed by Senior Physical Education Majors in Minnesota. Major Adviser: Prof. E. M. Jaeger.

Richard Ray La Croix, Roseville,
Mich.

B.A. '60, M.A. '62, Wayne State University. Major: Philosophy. Minor: Supporting Field. Thesis: An Examination of the Relationship Between *Prosligion II* and *Prosligion III*: Are There Two Arguments for the Existence of God in the *Prosligion*? Major Adviser: Prof. G. B. Matthews.

Charles Chau-yuh Lai, Taichung,
Formosa

M.D. '60, National Taiwan University. Major: Orthopedics. Minor: Biochemistry. Thesis: Phosphatase Activities of Bone and Calcification Mechanism in the Rat. Major Adviser: Dr. John Moe.

Gary Byron Lamont, Minneapolis

B.S. '61, M.S.E.E. '67, University of Minnesota. Major: Control Sciences. Minor: Supporting Field. Thesis: State Estimation in Distributed Parameter Systems. Major Adviser: Prof. K. S. P. Kumar.

John Fong-Loor Lee, Taipei, Taiwan

B.S.E.E. '49, National Taiwan University; M.S.E.E. '56, University of Minnesota. Major: Control Sciences. Minor: Mathematics. Thesis: Identification of Model Parameters from Input Output Data of Dynamic Systems with Time Delays. Major Adviser: Prof. E. B. Lee.

Gary Warren Leske, Buffalo Lake

B.S. '62, M.A. '68, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Evaluation of Instructional Innovations for Adult Agricultural Education in Farm Business Management. Major Adviser: Prof. M. J. Peterson.

Thomas William Lezniak, Anoka

B.S. '63, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: An Experimental Study of Magnetospheric Motions and the Acceleration of Energetic Electrons During Substorms. Major Adviser: Prof. J. R. Winckler.

Carlos Lopez, Minneapolis

B.A. '65, M.S. '66, University of Minnesota. Major: Environmental Health. Minor: Biochemistry. Thesis: Characterization in Tissue Culture of the Virus of Progressive Pneumonia of Sheep. Major Adviser: Dr. T. A. Olson.

Sister Nora Luetmer, St. Joseph

B.A. '43, Villa Madonna College; M.A. '56, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: The History of Catholic Education in the Present Diocese of St. Cloud, Minnesota, 1855-1965. Major Adviser: Prof. R. J. Keller.

Marissa Formento Manuel, Manila,
Philippines

B.S.Chem. '60, University of the Philippines. Major: Organic Chemistry. Minor: Biochemistry. Thesis: I. A. Biosynthesis of N-Methyltyremine in Barley Seedlings: Occurrence of the 'Nih Shift' in Higher Plants. B. Fluoro Analogs of Hordenine. II. Synthesis of 5-Fluoronicotine and Some Related 5-Fluoro-3-Substituted Pyridines. Major Adviser: Prof. E. Leete.

Pamela Minden Mattick, Newell,
Iowa

B.S. '66, Iowa State University; M.A. '67, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Effects of Three Instructional Conditions Upon the Exploratory Behavior of Normal and Down's Syndrome Infants. Major Adviser: Prof. B. Balow.

Mary Ann Mattoon, Minneapolis

B.A. '46, University of Nebraska; M.A. '48, Columbia University. Major: Psychology. Minor: Supporting Field. Thesis: The Theory of Dream Interpretation According to C. G. Jung: An Exposition and Analysis. Major Adviser: Prof. A. Tellegen.

James Henry Maysilles, Hayward,
Wis.

B.S.Ch.E. '64, Northwestern University. Major: Physical Chemistry. Minor: Physics. Thesis: Molecular Orbital Studies and Optical Properties. Major Adviser: Prof. A. Moscovitz.

Thomas Michael McNulty, Minneapolis

B.A. magna cum laude '62, College of St. Thomas. Major: Philosophy. Minor: Mathematics. Thesis: Realism in Physics. Major Adviser: Prof. H. Feigl.

Doris Janet McReynolds, Boulder, Colo.

B.A. '55, University of Texas; M.A. '62, University of Oregon. Major: English. Minor: Theatre. Thesis: Image of the Theatre in Victorian Literature. Major Adviser: Prof. R. E. Moore.

John Leonard Meyer, Edgar, Wis.

B.S. '58, Wisconsin State University; M.S. '63, University of Wisconsin. Major: Speech. Minor: Supporting Field. Thesis: Arthur Larson: Campaigner for World Peace Through World Law—Research as Rhetoric. Major Adviser: Prof. R. L. Scott.

Patricia Hackney Miller, Wellington, Kan.

B.A. '66, University of Kansas. Major: Child Psychology. Minor: Psychology. Thesis: Attention to Stimulus Dimensions in the Conservation of Liquid Quantity. Major Adviser: Prof. J. Glick.

Emogene Anita Nelson, River Falls, Wis.

B.S. '47, La Crosse State College; M.A. '57, University of Minnesota. Major: Physical Education. Minor: Educational Psychology. Thesis: Value Patterns of Physical Educators in Colleges and Universities of the United States. Major Adviser: Prof. E. M. Jaeger.

Gary Lee Nelson, Roslyn, S.D.

B.A. '59, M.A. '65, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: An Investigation of Selected Correlates of Self-Concept in Children. Major Adviser: Prof. J. Duker.

James Warner Nettleton, Albert Lea

B.S. cum laude '62, McPherson College. Major: Anatomy. Minor: Zoology. Thesis: Insulin Studies During the Perinatal Period in the Rat Under Normal and Experimental Conditions. Major Adviser: Dr. C. Heffestad.

Philip Douglas Noer, Philadelphia, Pa.

B.M. '63, M.M. '66, M.A. '68, University of Louisville. Major: English. Minor: Music History. Thesis: The Rhetorical Structure of Milton: An Introduction to the Reading of Blake's Major Prophecies as Poetry. Major Adviser: Prof. J. L. Scoggins.

Amos Otieno Odenyo, Nairobi, Kenya

B.A. '65, Augustana College; M.A. '67, University of Wyoming. Major: Sociology. Minor: Anthropology. Thesis: Africans and Afro-Americans on Campus: A Study of Some of the Relationships Between Two Minority Sub-Communities. Major Adviser: Prof. D. Martindale.

Carl Andrew Osborne, St. Paul

D.V.M. '64, Purdue University. Major: Veterinary Medicine. Minor: Pathology. Thesis: Experimental and Clinical Evaluation of Needle Biopsy of the Kidney and Its Complications in the Dog. Major Adviser: Prof. D. G. Law.

Robert Allen Peterson, Fridley

B.S.B. high distinction '66, M.S. '68, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: Identifying Predictors of New Product Acceptability for Selected Grocery Products. Major Adviser: Prof. R. Holloway.

Jeralyn Jean Plack, Minneapolis

B.S. '59, M.A. '64, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: An Evaluation of the Purdue Perceptual Motor Survey as a Predictor of Achievement in Academic and Motor Tasks. Major Adviser: Prof. M. Wilson.

Charles Gordon Plourde, Haliburton, Ontario, Canada

B.A. '59, M.A. '65, Queen's University. Major: Economics. Minor: Mathematics. Thesis: Optimal Exploitation of a Replenishable Natural Resource. Major Adviser: Prof. E. M. Foster.

Victoria Suzanne Poulakis, New York, N.Y.

B.A. cum laude '60, Hunter College. Major: English. Minor: Art History. Thesis: The Psychological Novels of William Dean Howells. Major Adviser: Prof. R. Foster.

Willard William Pulkrabek, St. Paul

B.S. '61, M.S. '63, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Field. Thesis: An Experimental Study of the Temperature Dependence in the Flow Equation for Porous Media as Applied to High Temperature Gas Viscosity Measurements. Major Adviser: Prof. W. E. Ibele.

Ashok Kumar Raheja, Simla, India

B.S. '62, University of Poona; M.S. '65, University of Hawaii. Major: Entomology. Minor: Microbiology. Thesis: Nuclear Polyhedrosis Virus Disease of the Forest Tent Caterpillar, *Malacosma Disstria*, Hubner (Lepidoptera Lasiocampidae) with Notes on the Microsporidian Parasite *Glugea Disstriae* (Thomson). Major Adviser: Prof. M. A. Brooks.

Barat Someswara Rao, Digapahandi, India

M.V.S. '62, Agra University, India; M.S. '67, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Dietary Factors in the Regulation of Growth and Hepatic Lipogenesis of Chicks Fed a Chemically Defined Diet. Major Adviser: Prof. P. E. Waibel.

Jan Clifton Robbins, Williamsport, Pa.

B.S. '65, Pennsylvania State University; M.A. '68, University of Minnesota. Major: Mass Communication. Minor: Philosophy. Thesis: Social Science Information and First Amendment Freedoms: An Aid for Supreme Court Decisionmaking. Major Adviser: Prof. D. Gillmor.

Manuel RuizUrbiet, Ciudad Real, Spain

Dip. Ing. '64, Technische Hochschule Braunschweig. Major: Mechanical Engineering. Minor: Mathematics. Thesis: New Methods for the Determination of the Index of Refraction and Thickness of Thin Films. Major Adviser: Prof. E. Eckert.

Sarah Madden Ryan, Waltham, Mass.

B.S. cum laude '66, Tufts University. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Investigation of Cross Modal Transfer of Shape and Texture Dimensions in Children. Major Adviser: Prof. J. Glick.

Jack Theodore Saari, Minneapolis

B.Ch.E. '65, University of Minnesota. Major: Physiology. Minor: Chemical Engineering. Thesis: Calcium Kinetics and Contractile Force in the Rabbit Heart. Major Adviser: Prof. J. A. Johnson.

Seymour Herbert Sargent, Oshkosh, Wis.

B.A. '54, University of New Hampshire; M.A. '60, University of Minnesota. Major: English. Minor: History. Thesis: Roman History and the Elizabethan Drama. Major Adviser: Prof. G. W. O'Brien.

Thomas Michael Scanlan, Sleepy Eye

B.A. '61, University of Minnesota; M.A. '63, Cornell University. Major: American Studies. Thesis: The American Family and Family Dilemmas in American Drama. Major Adviser: Prof. D. W. Noble.

Dieter Sam Schmidt, Friedrichsdorf, West Germany

Dipl. '66, Technical University. Major: Mathematics. Minor: Electrical Engineering. Thesis: Families of Periodic Orbits in the Restricted Problem of Three Bodies Connecting Families of Direct and Retrograde Orbits. Major Adviser: Prof. W. S. Loud.

Edwin Charles Seim, Excelsior

B.S. '54, University of Missouri; M.S. '66, University of Minnesota. Major: Soil Science. Minor: Botany. Thesis: Sulfur Dioxide Absorption by Soil. Major Adviser: Prof. A. C. Caldwell.

C. Thomas Shay, Winnipeg, Manitoba, Canada

B.A. '60, M.A. '65, University of Minnesota. Major: Anthropology. Minor: Botany. Thesis: The Itasca Site: An Early Bison Kill in Northwestern Minnesota. Major Adviser: Prof. O. E. Johnson.

Leverett Tyrell Smith, Jr., Millbrook, N.Y.

B.A. '62, Middlebury College; M.A. '64, University of Minnesota. Major: American Studies. Thesis: The American Dream and the National Game. Major Adviser: Prof. B. Bowron.

Robert Walter Soll, Minneapolis

B.A., M.D. '56, State University of Iowa. Major: Microbiology. Minor: Neurology. Thesis: Mechanism of Sensitization in Delayed Hypersensitivity. Major Adviser: Prof. D. Watson.

Jon Henry Sontag, Plattsburgh, N.Y.

B.S. with honor '55, Winona State College; M.S. '62, University of Minnesota. Major: Education. Minor: Art. Thesis: A Survey and Evaluation of the Development and Contemporary Nature of General Education Art Programs in American Colleges and Universities. Major Adviser: Prof. R. Hastie.

Charles Nicholas Standing, Minneapolis

B.S. '65, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Microbial Growth in Two-Substrate Systems. Major Adviser: Prof. H. Tsuchiya.

Bernard Eugene Statland, St. Paul

B.A. *summa cum laude* '63, M.D. '68, University of Minnesota. Major: Biochemistry. Minor: Pathology. Thesis: The Role of Calcium Ion in Muscle Contraction and a Possible Transformational Change of Action During the Contraction Cycle. Major Adviser: Dr. E. S. Benson.

Clark Williard Strausser, Sunbury, Pa.

B.A. '62, M.A. '63, Pennsylvania State University. Major: Economics. Minor: Supporting Field. Thesis: Essays on Optimal Economic Growth. Major Adviser: Prof. A. Krueger.

John Marvin Taborn, Minneapolis

B.S. '56, Southern Illinois University; M.Ed. '58, University of Illinois. Major: Educational Psychology. Minor: Supporting Field. Thesis: Achievement Behaviors of Elementary Boys As a Function of Belief in Internal Versus External Control of Reinforcement. Major Adviser: Prof. D. M. Callahan.

Fay Morgen Thompson, St. Paul

B.A. *magna cum laude* '63, University of Minnesota. Major: Organic Chemistry. Minor: Supporting Field. Thesis: Studies on the Structure and Reactions of the Nitrosation Products of Certain Dispirominolactams. Major Adviser: Prof. W. E. Noland.

Fr. David Turner, O.S.B., Lisle, Ill.

B.A. '59, St. Procopius College; M.A. '63, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Group Behavioral Change Through Imitation Learning Among Disturbed Children. Major Adviser: Prof. B. Balow.

Tsong Chang Wei, Taipei, Taiwan

B.S. '57, National Taiwan University; M.S. '66, Texas A & M University. Major: Agricultural Engineering. Minor: Mathematics. Thesis: Effects of Areal and Time Distribution of Rainfall on Runoff Hydrographs. Major Adviser: Prof. C. L. Larson.

Gilad Weingarten, Haifa, Israel

B.S. '66, University of Wyoming. Major: Education. Minor: Psychology. Thesis: Effects of Cardiorespiratory Conditioning Increase Upon Mental Performance Under Physiological Stress and on Personality Variables. Major Adviser: Prof. J. F. Alexander.

Larry Wayne Weiss, St. Paul

B.A. '64, Dana College. Major: Anatomy. Minor: Zoology. Thesis: A Light and Electron Microscopic Study of the Development of the Epidermis in the Mouse. Major Adviser: Dr. C. B. Haggstad.

Bruce Leland Wilson, Manhattan, Kan.

B.S., B.S. '56, M.S. '59, Kansas State University. Major: English. Minor: History. Thesis: Studies in the Formal Verse Satires of Edward Young (1683-1764). Major Adviser: Prof. S. H. Monk.

Robert Anthony Windsor, Aloha, Ore.

B.S. '62, M.A. '64, University of Houston. Major: Physics. Minor: Mathematics. Thesis: Radio Noise Generation by Scattering of Plasma Waves. Major Adviser: Prof. P. J. Kellogg.

Glen Carl Woker, Owatonna

B.A. '57, St. Olaf College; M.A. '65, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: The Effect of Teacher Tempo on the Reading Progress of Reflective and Impulsive Boys. Major Adviser: Prof. J. Duker.

Byard Dean Wood, Boise, Idaho

B.S. '63, M.S. '66, Utah State University. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Mass Fire Model: An Experimental Study of the Heat Transfer to Liquid Fuel Burning From a Fuel Soaked Wick. Major Adviser: Prof. P. Blackshear.

David Meredith Wright, Syracuse, N.Y.

B.A. '61, University of Michigan. Major: Psychology. Minor: Child Psychology. Thesis: Impairment in Abstract Conceptualization in the Parents of Poor-premorbid Male Schizophrenics. Major Adviser: Prof. N. Garnezy.

Chiao Yeh, Taipei, Taiwan, China

B.S. '63, National Taiwan University; M.A. '67, University of Minnesota. Major: Biometry. Minor: Statistics. Thesis: Stochastic Follow-Up Models in a Large Scale Cooperative Clinical Trial: Logits, Life Tables and Competing Risks. Major Adviser: Prof. R. B. McHugh.

Master of Arts

JULY

Gerald Albert Ackermann, Burnsville
B.S. '66, Bemidji State College. Field of Concentration: Educational Curriculum and Instruction. Major Adviser: Prof. R. T. Lambert.

Mary Louise Hook Allen, Bloomington
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Margaret Johnstone Anderson, Minneapolis
B.S. high distinction '48, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. R. H. Shove.

Paul Edward Anhalt, North Bergen, N.J.
B.A. '60, University of Minnesota. Major: Business Administration. Minor: Economics. Thesis: *The Technical Approach to Timing the Purchase and Sale of High-Performance Common Stock*. Major Adviser: Prof. J. R. Nelson.

Joan Elizabeth Armentrout, Kansas City, Kan.
B.S. with distinction '64, University of Kansas. Field of Concentration: Educational Curriculum and Instruction. Major Adviser: Prof. N. Odland.

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Marilyn Hoppe Barach, Oswego, N.Y.
B.A. '59, Macalester College. Major: Political Science. Minor: Geography. Thesis: *A Study Concerning The Woman's Role in the Home and Politics and its Relation to Political Activity*. Major Adviser: Prof. F. J. Sorauf.

Edgardo Enrique Barandiaran, Buenos Aires, Argentina
Lic. '65, Catholic University. Field of Concentration: Economics. Major Adviser: Prof. E. M. Foster.

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B.Ed. *cum laude* '68, University of Ohio. Field of Concentration: Spanish. Major Adviser: Prof. W. T. Pattison.

Susan Hartman Belyea, Riverton, Wyo.
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James Kasper Benson, Bismarck, N.D.
Ph.B. '63, University of North Dakota. Major: History. Minor: Political Science. Thesis: *New England of the West: The Emergence of American Mind in Early St. Paul, Minnesota 1849-1855*. Major Adviser: Prof. T. Smith.

Clarence Lloyd Bjornlie, Bloomington
B.A. '50, Concordia College. Field of Concentration: Educational Administration. Major Adviser: Prof. C. P. Hooker.

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B.S. '68, Iowa State University. Field of Concentration: Latin American Area Studies. Major Adviser: Prof. W. D. Beatty.

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B.A. '68, Johns Hopkins University. Major: Child Psychology. Minor: Psychology. Thesis: The Relative Efficacy of Reinforcement Imitation and Instruction in Establishing a Social Prohibition. Major Adviser: Prof. John C. Masters.

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B.S. '68, St. Cloud State College. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. Odland.

Edwin Jay Curle, Rock Springs, Wyo.
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Master of Arts in Public Administration

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B.A. '49, Hardin-Simmons University. Major: Public Administration. Thesis: The Experimental Use of an Electronic Voting System in Bloomington, Minnesota. Major Adviser: Prof. G. A. Warp.

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Master of Business Administration

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Master of Fine Arts

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B.S. '60, D.V.M. '62, University of Minnesota. Major: Veterinary Medicine. Minor: Bacteriology. Thesis: Epizootiological and Experimental Studies of Blurtongue Virus in Cattle. Major Adviser: Prof. K. K. Sorensen.

John Charles Aust, Minneapolis
B.A. '60, University of Rochester; M.D. '64, University of Western Ontario. Major: Microbiology. Minor: Biochemistry. Thesis: The Effect of Methylcholanthrene-Induces Sarcinas on the Immune Response. Major Adviser: Prof. R. A. Good.

Raymond Oscar Benson, Adrian

D.V.M. '66, University of Minnesota. Major: Veterinary Anatomy. Minor: Veterinary Pathology. Thesis: A Study of the Ansa Cervicals and its Relationship to the Brachial and Lumbrosacral Plexuses in the Dog. Major Adviser: Prof. T. F. Fletcher.

Francisco Orlando Bravo-Bolanos-Cacho, Mexico City, Mexico

D.V.M. '68, National University of Mexico. Field of Concentration: Animal Science. Major Adviser: Prof. R. J. Meade.

Sister Elaine Ruth Carpenter, Milwaukee, Wis.

B.S.N. '52, Alverno College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. N. I. Harris.

Jonathan Richard Cole, Arlington, Mass.

B.A. cum laude '67, Amherst College. Field of Concentration: Physics. Major Adviser: Prof. A. M. Goldman.

Gregory Lawrence Conley, Silver Spring, Md.

B.S. '67, Georgetown University. Field of Concentration: Physics. Major Adviser: Prof. L. J. Cahill, Jr.

Carlos Dinis Da-Gama, Luanda, Portugal

Mining Engineer '63, Technical University of Lisbon. Major: Geo-Engineering. Minor: Mineral Engineering. Thesis: Laboratory Studies of Cunnintion in Rock Blasting. Major Adviser: Prof. C. Fairhurst.

Gerald Vernon Dahling, Minneapolis

B.S. with special honor '68, Winona State College. Field of Concentration: Botany. Major Adviser: Prof. G. Ownbey.

Barbara Marie Hachtel Dickinson, St. Paul

B.A. '62, Augustana College. Field of Concentration: Veterinary Anatomy. Major Adviser: Prof. A. F. Weber.

Joycelyn Duncan, Minneapolis

B.S. with distinction '58, University of Minnesota. Major: Microbiology. Thesis: Assimilation of Hydrocarbons by Pseudomonas Strains Isolated from Human Clinical Specimens. Major Adviser: Prof. J. A. Ulrich.

Ralph James Farnsworth, Whitehouse, Ohio

B.S. '59, D.V.M. '62, Ohio State University. Major: Veterinary Medicine. Minor: Microbiology. Thesis: Epidemiology and Pathogenesis of Yeast Mastitis in Dairy Cattle. Major Adviser: Prof. K. K. Sorensen.

Marlys Jane Friederichs, Mankato

B.S. '60, Mankato State College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. N. I. Harris.

Alvaro Gaviria, Bogota, Colombia

D.V.M. '67, Universidad Nacional de Colombia. Field of Concentration: Veterinary Obstetrics and Gynecology. Major Adviser: Prof. R. A. Schultz.

Chanshyam Gupta, Chandigarh, India

B.Comm. '66, Punjab University; Post-Grad. Dipl. in Mgmt. '68, Indian Institute of Management. Field of Concentration: Business Administration. Major Adviser: Prof. K. F. Skousen.

Kathryn Chandler Hatch, Cedar Falls, Iowa

B.S. '66, Iowa State University. Major: Home Economics. Minor: Biometrics. Thesis: Soil Removal on White Fabrics Laundered at Various Water Hardnesses. Major Adviser: Prof. S. Davison.

Janet Grace Herringshaw, Bloomington

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

Barbara Jean Hoult, Montreal, Canada

B.S. '64, Bishop's University. Field of Concentration: Zoology. Major Adviser: Prof. W. S. Herman.

Ronald Steven Kari, Minneapolis

B.S.B. with distinction '64, University of Minnesota. Major: Business Administration. Minor: Sociology. Thesis: Inter-Magazine Study of Other Directedness in Consumer Goods Advertising. Major Adviser: Prof. R. Holloway.

Chin Man Kim, Seoul, Korea

B.S. '61, Seoul National University. Major: Geo-Engineering. Minor: Related Fields. Thesis: The Effect of Dynamic Loading on Confined Tennessee Marble Using the Split Hopkinson Bar Method. Major Adviser: Prof. C. Fairhurst.

Robert Clark Lewis, McMinnville,
Ore.

B.S. '68, Oregon State University. Major: Agricultural Economics. Minor: Statistics. Thesis: The Marginal Cost of Alternative Levels of Water Quality in the Upper Mississippi River. Major Adviser: Prof. J. Waeltli.

Gilbert George Lonzarich, San Mateo,
Calif.

B.A. '67, University of California, Berkeley. Field of Concentration: Physics. Major Adviser: Prof. W. Zimmerman.

Edward Francis Manny, Chippewa
Falls, Wis.

B.S. '68, Wisconsin State University. Field of Concentration: Genetics. Major Adviser: Prof. L. A. Snyder.

Katalin Marton, Vienna, Austria

Diplom. Kaufmann '67, Doktor '69, Hochschule für Welthandel. Field of Concentration: Business Administration. Major Adviser: Prof. C. Rudelius.

Ricardo Mont, Lima, Peru

Ing. Agronomo '62, Universidad Agraria. Major: Plant Pathology. Minor: Biometrics. Thesis: Studies of Non-specific Resistance to Stem Rust in Spring Wheats. Major Adviser: Prof. J. B. Powell.

Shirley Skrdla Musich, Minneapolis

B.A. *summa cum laude* '68, Mount Marty College. Major: Biochemistry. Minor: Microbiology. Thesis: Some Aspects of the Effect of Albumin on the Synthesis Rates of Alpha and Beta Lipoproteins. Major Adviser: Prof. I. Frantz.

David Nathan, Johannesburg, South
Africa

M.B.B.Ch. '62, University of Witwatersrand. Major: Physiology. Minor: Biometry. Thesis: The Effect of Insoproterenol on Mammalian Heart Muscle. Major Adviser: Dr. E. H. Wood.

Elizabeth J. Chase Neese, St. Paul

B.S. '57, Iowa State College. Field of Concentration: Botany. Major Adviser: Prof. G. B. Ownbey.

Roger George Nyquist, Milford, Mass.

B.A. '65, Clark University. Field of Concentration: Physics. Major Adviser: Prof. W. Weyhmann.

Grace Tang Peng, Chia-Yi, Taiwan,
Republic of China

B.S. '67, National Taiwan University. Field of Concentration: Biometry. Major Adviser: Prof. G. E. Bartsch.

Joanne McCullough Petrin, Chester,
Pa.

B.S. with distinction '67, University of Delaware. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Enthalpy Studies of BIS (2,4-Pentanedionate) Nickel (II) — Base Adducts. Major Adviser: Prof. H. F. Henneke.

Matthew J. Petrin, Missoula, Mont.

B.S. '67, University of Montana. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Nuclear Magnetic Resonance Studies of BIS (2,4-Pentanedionate) Ni (II) Complexed with Methyl Substituted Pyridine Bases. Major Adviser: Prof. W. Reynolds.

James Joseph Pojar, Little Canada

B.S. '69, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. G. Ownbey.

Donald Joseph Pusch, St. Paul

B.A. '49, University of Minnesota. Major: Food Science and Industries. Minor: Public Health. Thesis: Influence of Incubation Temperature and Preenrichment Medium on Growth of *Salmonellae* in Dried Milk Products. Major Adviser: Prof. J. J. Jezeski.

Lynn Leroy Rogers, Grand Rapids,
Mich.

B.S. with high honor '68, Michigan State University. Major: Ecology. Minor: Statistics. Thesis: An Analysis of Succinylcholine Chloride Immobilization of Black Bears. Major Adviser: Prof. A. W. Erickson.

Donald Gene St. Angelo, Cumber-
land, Wis.

B.B.A. '55, University of Wisconsin. Field of Concentration: Business Finance. Major Adviser: Prof. J. R. Nelson.

Marcia K. Larson Schmehl, Stillwater

B.S. '64, University of Minnesota. Field of Concentration: Veterinary Anatomy. Major Adviser: Prof. A. F. Weber.

Robert James Smith, Springfield, Va.

B.S.C.E. '58, Montana State University. Field of Concentration: Geo-Engineering. Major Adviser: Prof. Charles Fairhurst.

David Akira Suzuki, Oakland, Calif.

B.A. '68, University of California, Berkeley.
Field of Concentration: Physiology. Major
Adviser: Dr. G. Kepner.

Roger Stuart Wilson, Trenton, N.J.

B.S. '63, Philadelphia College of Pharmacy
and Science. Field of Concentration: Hospital
Pharmacy. Major Adviser: Prof. H. Kabat.

John George Wright, Jr., Cleveland,
Ohio

B.S. '69, University of Pennsylvania. Field of
Concentration: Business Administration. Ma-
jor Adviser: Prof. E. H. Lewis.

Sister Paul Mary Wynkoop, New
Orleans, La.

B.S. '54, Xavier University; M.A. '59, Catho-
lic University of America. Field of Concen-
tration: Pharmaceutics. Major Adviser: Prof.
P. Harris.

Dennis L. Zak, Ellendale

B.S. '67, University of Minnesota. Major:
Food Science and Industries. Minor: Analyti-
cal Chemistry. Thesis: Detection of Stale
Flavor in Sodium Caseinate. Major Adviser:
Prof. H. A. Morris.

Master of Science in Aerospace Engineering

JULY

Babatunde Alli Masha, Lagos, Nigeria

B.Aero.Eng. with distinction '69, University
of Minnesota. Field of Concentration: Aero-
space Engineering. Major Adviser: Prof. A. S.
Berman.

Charles Owen Reinhart, Warroad

B.Aero.Eng. '67, University of Minnesota.
Field of Concentration: Aerospace Engineer-
ing. Major Adviser: Prof. T. A. Wilson.

Master of Science in Architecture

AUGUST

Gary Alan Schaefer, Fairview Park,
Ohio

B.Arch. '66, Ohio State University. Field of
Concentration: Architecture. Major Adviser:
Prof. W. K. Vivrett.

Master of Science in Chemical Engineering

JULY

Stephen Rester, Clifton, Tex.

B.S.Ch.E. '67, University of Texas. Major: Chemical Engineering. Minor: Mathematics. Thesis: Variational Bounds on the Effectiveness Factor. Major Adviser: Prof. R. Aris.

AUGUST

Howard William Cox, Mattoon, Ill.

B.S. with high distinction '68, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Effect of Transport on Linear Chromatography. Major Adviser: Prof. N. Amundson.

Norman Floyd Lee, Proctor

B.S. with distinction '65, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Study of Pure and Mixed Monolayers of L- α -Dipalmitoyl Lecithin, L- α -Dipalmitoyl Cephalin and Cholesterol and the Air-Water and Oil-Water Interfaces. Major Adviser: Prof. M. D. Rosenberg.

Dale Leonard Schruben, Manhattan, Kan.

B.S. '67, Kansas State University. Major: Chemical Engineering. Minor: Related Field. Thesis: Temperature Transients in a Plug Flow-Channel Wall System with Convective Heat Transfer Coupling. Major Adviser: Prof. L. D. Schmidt.

Michael Grant Topor, Hillside, Ill.

B.S.Ch.E. with distinction '67, University of Illinois. Major: Chemical Engineering. Minor: Mathematics. Thesis: Energy Partition in Photolysis of Ketene-propylene. Major Adviser: Prof. R. W. Carr, Jr.

Master of Science in Civil Engineering

JULY

Thomas Edward Raster, White Bear Lake

B.C.E. with distinction '66, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. W. Hayden.

AUGUST

Okon Edward Bassey, Oron, Nigeria

B.C.E. '67, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. T. W. Thomas.

Takekazu Mizumaki, Nishinomiya, Japan

B.E. '61, Kyoto University. Field of Concentration: Civil Engineering. Major Adviser: Prof. L. Pederson.

Frank Michael Monteiro, Nagpur, Nigeria

Bac. of Eng. '69, University of Mysore. Field of Concentration: Civil Engineering. Major Adviser: Prof. Paul Christiano.

Master of Science in Dentistry

JULY

Kirby Joseph Guidry, Breaux Bridge, La.

D.D.S. '63, Loyola University. Major: Dentistry. Minor: Anatomy. Thesis: Influence of Vitamin D on the Periodontium During Tooth Movement. Major Adviser: Dr. R. J. Isaacson.

Irwin Joel Leeb, South Orange, N.J.

D.D.S. '65, Columbia University. Major: Dentistry. Minor: Pathology. Thesis: Post Natal Development of the Rat Gland. Major Adviser: Dr. R. J. Gorlin.

David Hedges Schroeder, Rochester

D.D.S. '64, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Effect of Ultrasonic Cement Removal Upon Ca⁴⁵ Penetration Beneath Orthodontic Bands. Major Adviser: Dr. J. A. Gibilisco.

AUGUST

Donald Robert Mehlich, Baltimore, Md.

D.D.S. '64, University of Iowa. Major: Dentistry. Minor: Pathology. Thesis: The Effect of a Sclerosing Agent on Odontogenesis. Major Adviser: Dr. J. A. Gibilisco.

Master of Science in Electrical Engineering

JULY

Roland D. Rothenberger, Rosemount

B.S.E.E. '58, Kansas State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. R. Halverson.

Azmi Kaya, Acik, Turkey

Dip. '52, Technical Teacher's College; M.S.M.E. '62, University of Wisconsin. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

AUGUST

Edward William Kirk, Jr., Philadelphia, Pa.

B.S.E.E. '68, Lafayette College. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Metal Oxide Silicon-field Effect Transistors. Major Adviser: Prof. A. van der Ziel.

Ilbok Lee, Seoul, Korea

B.S.E.E. '68, Seoul National University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Reflection and Transmission Coefficient of an Inhomogeneously Filled Rectangular Waveguide. Major Adviser: Prof. K. Champlin.

Frederick Joseph Wenthe, Minneapolis

B.S.E.E. '62, University of Dayton. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Halverson.

Master of Science in Industrial Engineering

JULY

Jiya Lal Jain, Danauda, Kalan, India

B.S.Eng. '65, Panjab University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Subhash Chandra Kulshreshtha, Bombay, India

B.E. '64, University of Roorkee. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

AUGUST

Pardeep Puri, Chandigarh, India

B.S. '68, Punjab University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Master of Science in Mechanical Engineering

JULY

Joseph Henry Steinbach, St. Paul

B.S. with distinction '64, University of Minnesota. Major: Mechanical Engineering. Minor: Industrial Engineering. Thesis: In Vitro Hemolysis Studies. Major Adviser: Prof. P. L. Blackshear.

Bhupinder Nath Wahi, Bombay,
India

B.M.E. '68, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Mobility and Coefficients of Slip of Polystyrene Latex Particles. Major Adviser: Prof. B. Y. H. Liu.

Victor Kpodo, Accra, Ghana

B.S.Eng. '67, University of Science and Technology, Ghana. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. W. Kleinhenz.

AUGUST

John Charles Anderson, Cambridge

B.S. '64, University of Minnesota. Major: Mechanical Engineering. Minor: Hydromechanics. Thesis: A Study of Liquid-Solid Phase Transition of the Water, Salt and Glycerol Systems. Major Adviser: Prof. W. E. Ibele.

Michel Yves LeGall, Pont de Buis,
France

Dipl. '69, Ecole Nationale d'Ingenieurs de Constructions Aeronautiques. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. P. Blackshear.

Douglas Charles Mittag, Gordonsville

B.M.E. with distinction '68, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Master of Science in Metallurgical Engineering

JULY

Harold Rudolph Kokal, Eveleth

B.S. '64, University of Minnesota. Major: Metallurgical Engineering. Minor: Physical Chemistry. Thesis: The Oxidation Mechanism of Single Magnetite Pellets. Major Adviser: Prof. G. Bitsianes.

Master of Science in Neurosurgery

JULY

Robert Douglass Gordon Blair,
Vancouver, British Columbia,
Canada

M.D. '65, Dalhousie Medical School. Major: Neurology. Minor: Basic Neurologic Sciences. Thesis: Correlation of Changes in Superficial Microcirculation with Regional Blood Flow During Acute Cerebral Ischemia. Major Adviser: Dr. A. S. Waltz.

Master of Science in Orthopedic Surgery

JULY

Franklin Hindson Sim, Rochester
M.D. '64, Dalhousie Medical School. Major: Orthopedic Surgery. Minor: Pathology. Thesis: The Relationship of Bone Remodeling, Oxygen Consumption and Blood Flow in Canine Tibia. Major Adviser: Dr. P. J. Kelly.

Master of Science in Surgery

JULY

Gunnar H. Gunnlaugsson, Reykjavik, Iceland

M.D. '62, University of Iceland. Major: Surgery. Minor: Pathology. Thesis: Primary Neoplasms of the Greater Omentum: A Clinico-Pathologic Study. Major Adviser: Dr. M. A. Adson.

AUGUST

Manuel Rodrigues Gomes, Porto, Portugal

M.D. '61, University of Oporto. Major: Surgery. Minor: Pathology. Thesis: The Effect of Intestinal Bypass on Atherosclerosis in the White Carneau Pigeon. Major Adviser: Dr. P. E. Bernatz.

Master of Social Work

JULY

Nancy Jean Baltins, Minneapolis

B.A. '67, Smith College. Field of Concentration: Social Work. Major Adviser: Prof. C. Bower.

Nancy Mathews Wiggins, Minneapolis

B.A. *summa cum laude* '66, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. M. Cohn.

Certificate of Specialist in Education

JULY

Gloria Mae Miller, San Diego, Calif.

B.A. '57, M.A. '62, San Diego State College. Field of Concentration: Educational Psychology. Major Adviser: Prof. D. G. Force, Jr.

Phyllis E. M. Paul, Minneapolis

B.A. '67, B.S. with distinction '67, M.A. '68, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tennyson.

Harold George Maine, New Hope

B.S. '48, M.S. '62, Mankato State College. Field of Concentration: Educational Psychology. Major Adviser: Prof. D. G. Force, Jr.

Susan Strauss Roberts, Danville, Ill.

B.A. with highest distinction '64, Purdue University. M.A. '68, University of Minnesota. Field of Concentration: Child Development. Major Adviser: Prof. M. D. Hall.

AUGUST

Charles Joseph Burbach, St. Paul

B.A., B.S. '59, M.A. '64, University of Minnesota. Field of Concentration: Special Education. Major Adviser: Prof. R. Weatherman.

Teresa Ann Haubenhofer, St. Paul

B.A. '67, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. W. W. Tennyson.

Jerome Benjamin Simondet, Minneapolis

B.A. *magna cum laude* '52, M.Ed. '53, College of St. Thomas; B.S. '56, M.A. '59, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. N. C. Nickerson.

Dixon Ellis King, Anoka

B.S. '61, Bemidji State; M.A. '69, University of Minnesota. Field of Concentration: Psychology. Major Adviser: Prof. J. Duker.

Sister Moira Wild, St. Joseph

B.S. '62, College of St. Benedict. Field of Concentration: Educational Administration. Major Adviser: Prof. N. C. Nickerson.

GENERAL EXTENSION DIVISION

Social Work Certificate

Barbara Ellen Erbe, Rochester*
John Thomas Jette, Austin*

Clarence Millard Quanrud, Preston*
Thomas Edward Sullivan, Byron*

GENERAL COLLEGE

Associate in Arts

JULY

Bruce Gilles Brown, St. Paul
Harold James Christianson, Hopkins
Shelley Maire Dent, St. Paul*
Leonard C. Franklin, Minneapolis
Ronald Roger Hagen, Rosemount
David Craig Martin, Minneapolis
Gary Dale Olsen, Robbinsdale
Andrea Jaye Perlman, Minneapolis
Donald Edwin Shaw, Jr., Edina
Nancy Carol Zook, Columbia Heights

AUGUST

David Eugene Barrett, St. Paul
David Martin Dyrud, Newfolden
Herbert William Eberhardt, St. Paul
Richard Henry Fick, Lake City
Jack Brian Frandle, Golden Valley

Joseph Bernard Horstmann, Minneapolis
Marilyn Janice Keating, North St. Paul
Michael Lee Kelley, Minneapolis
George William Knox, Minneapolis
Douglas Eugene McMonagle, Minneapolis
Gunnar G. Nordheim, Minneapolis
George Otieno Ongiri, Kisumu, Kenya
Dale Carl Peterson, Minnetonka
Teresa Helen Porter, Minneapolis
Bartholomew Anthony Riney, Minneapolis
Karen Sue Robitz, St. Louis Park
Carol Lynn Rose, St. Louis Park
Michael Edward Spreigl, St. Paul
Berlene W. Turner, Minneapolis
John K. Wojtowich, Crystal

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

JULY

George Spencer Blakeslee, Richfield
Rodney I. Eaton, Minneapolis
Debra Karen Rendahl, Ostrander

AUGUST

James Joseph Duffey, Jr., St. Paul
James Paul Peterson, St. Paul
Teresa Bernice Pozniak, Minneapolis
Kathleen Elizabeth Snow, Minneapolis
Marjorie Lorraine Woodcock, St. Paul

* Degree conferred as of June 13, 1970

Bachelor of Arts

JULY

- Judith Ann Abdel-Monem, Minneapolis
 Veronica Jean Ahern, Minneapolis
 Darrell Hartley Anderson, Brooklyn Center
 Kathryn Joyce Anderson, Bloomington
 Robert John Asher, Rosemount
 Renette Pauline Bachaus, Le Sueur
 Gerald Edward Barry, Pipestone
 Lowell Thomas Benson, Minneapolis
 David Raymond Berberick, St. Paul Park
 David John Berggren, St. Louis Park
 Russell Forrest Bey, Alexandria
 Karen Jo Bezat, Minneapolis
 Gary Paige Blume, A.A., St. Paul
 Harry Bojman, Minneapolis
 Joanne Margaret Bondy, Minneapolis
 Susan Lee Boyd, St. Paul, MAGNA CUM LAUDE, French
 Spencer Clarke Brand, Wayzata
 Daniel Albert Brouillette, A.L.A., Minneapolis
 Jean Marie Caldwell, St. Paul
 Thomas Edward Cary, Minnetonka
 Ivy Chang, St. Paul
 Angela Faye Chovan, Minneapolis
 Susanne Mary Code, Minneapolis
 Marjorie Jo Cohen, St. Paul
 Elizabeth Ann Collinge, G.D.H., Stillwater
 Kathleen Conaboy, St. Paul
 Lorealee Jayne Conradi, Minneapolis
 Pamela McNulty Crassweller, Minneapolis
 Fredrick Crawford, A.A., Minneapolis
 Sally Ann Kail Davidner, St. Louis Park
 Dara Jane Deal, Edina
 Daniel John Donahue, Minneapolis
 Marie L. Drage, Minneapolis
 Brian Wayne Eddington, Bloomington
 Alison Hay Edgerton, Minneapolis
 Terry Allen Eggen, Minneapolis
 Peter Douglas Ekstrand, Wabasha
 Elizabeth Mae Elliott, Minneapolis, CUM LAUDE, English
 Cary Anton Engum, Marshall
 Dale Richard Erickson, Minneapolis
 Elvera Mae Erickson, A.L.A., Minneapolis
 Gary Lee Feldhamer, Minneapolis
 Georgene Ella Festin, Minneapolis
 Maralyn Johnson Fiddler, B.S., Minneapolis
 Robert Bradley Fine, Minneapolis
 Michael Donovan Fogarty, Hopkins
 Pamela Jean Fortin, Wayzata, SUMMA CUM LAUDE, Social Welfare
 Rose Mary Freeman, Greenwood, Miss.
 Sandra Lee Fritz, New Ulm
 Gloria Marie Fryklund, St. Paul
 John Charles Fuller, Minneapolis
 Linda Kay Garbisch, Lake City
 Michael John Gellerman, Crystal
 Rogers Elmore George III, West St. Paul
 Elizabeth Lois Gibson, A.L.A., Minneapolis
 Mark William Goldsteen, St. Louis Park*
 Roger Grupp, St. Paul
 John Joseph Hagan, Minneapolis
 Glenda Rae Handelman, St. Paul
 Michael James Harvey, Mahtomedi
 James Paul Hassing, St. Paul
 Ann Elizabeth Heimbaugh, Duluth
 Russell Brian Heise, St. Louis Park
 William Chris Hendrickson, Minneapolis
 Ana Cristina Herrador, El Salvador
 Keith Guy Hjortshoj, Atlantic, Iowa, MAGNA CUM LAUDE, Anthropology
 Robert Christopher Hoff, Jr., St. Paul
 Horace Huntley, Birmingham, Ala.
 Francis Paul Ivory, St. Paul
 Ronald David Jacobson, Minneapolis
 Linda Ann Jindra, Montgomery
 Sandra Lee Johansson, St. Paul

* Degree conferred as of June 13, 1970

Michael Kris Johnson, St. Paul
 Michael Lee Johnson, St. Paul
 Delbert Lawrence Jones, St. Paul Park
 Gerald David Jones, Minneapolis
 Naomi Ruth Kahn, Minneapolis
 Thomas Mark Kanten, Minneapolis
 Kathleen Joyce Kater, Pine River
 Barbara Forrest Kelley, Minnetonka
 Edward Stewart Kennedy, Cedar
 Falls, Iowa
 Geraldine Ann Kerwin, St. Paul
 Rafique Habib Keshavjee, Nairobi,
 Kenya
 M. Aslam Khan Khalil, Port Arthur,
 Ontario, Canada
 Elaine Beach Kingsley, A.A., St. Paul
 Colleen Beverly Kish, A.A., Zumbrota,
 SUMMA CUM LAUDE, English
 Frank Michel Kline, Minneapolis
 Charles Richard Krausert, St. Cloud
 Curtis Gene Krier, Edina
 Claudia Jean Kroman, Minneapolis,
 MAGNA CUM LAUDE, Philosophy
 Stephen George Kronmiller, Cannon
 Falls
 Jacky K. Lavin, St. Paul
 Gary Arnold Levos, Minneapolis
 Kenneth Arlynn Lillquist, Minne-
 apolis
 Alan Steel Lizee, Excelsior
 John Michael Loban, St. Paul
 Richard Francis Lockhart, Crystal
 John Robert Lockwood, Minneapolis
 Roger Allen Lofstrand, Minneapolis
 June Ann Lucas, Milwaukee, Wis.
 Sharon Fasnacht Malterer, Madison
 Lake
 Marilyn Joyce Mann, Des Moines,
 Iowa
 Kathleen Marie Mathern, Hopkins
 Barbara Jean Lovett Mauger, Excel-
 sior, SUMMA CUM LAUDE, Psychology
 George Alexander May, Minneapolis
 Paul Alvin Mayer, Austin
 Maureen Anne McAvooy, Minneapolis
 Mary Glenn McQuiston, St. Paul
 Brent Jay Mead, Red Lake Falls
 Robert Glenn Mickelsen, Nashville,
 Tenn.

John William Mitchell, Minneapolis
 Stephan John Moden, Minneapolis
 Kathleen Bernadette Mollen, Golden
 Valley
 Carl Irving Nagy, Rochester
 Mary Winifred Neary, Minneapolis
 Daniel Newlyn Nelson, Minneapolis,
 SUMMA CUM LAUDE, Political
 Science, and MAGNA CUM LAUDE,
 History
 David Douglas Nelson, Minneapolis
 James Warren Nelson, Coon Rapids,
 MAGNA CUM LAUDE, Psychology
 Michael Patrick Nelson, Minneapolis
 Richard James Nemetz, Minneapolis
 Peter Joshua Neubeck, St. Paul
 Thomas Kendall Okerstrom, Cloquet
 Daniel Ajah Okoronkwo, Akwanu,
 Item, Nigeria*
 Ruth E. Ostlund, Minneapolis
 Samuel Oro Otitigbe, Jesse, Nigeria
 S. James Otto, Minneapolis
 Nancy Beth Paull, Duluth
 John Howard Payne, Rochester, CUM
 LAUDE, Mathematics
 Joseph Charles Pereira, St. Paul
 Christopher Patrick Peterson, Esca-
 naba, Mich.
 James Richard Peterson, Brooklyn
 Center
 Mary Jane Catherine Peterson,
 St. Paul
 Michael Edward Peterson, St. Paul
 Timothy Gregory Peterson, Minne-
 apolis
 Susan Kathleen Petroski, Minneapolis
 Suzette Jane Pieri, Elk River
 Sherry Jo Raduenz, Vesta
 Richard Alan Rasmusson, Burnsville
 Gregory Keith Rendahl, Ostrander
 J. Michael Richardson, Minneapolis
 Sandra Catherine Robin, Minneapolis
 Michael John Rohde, Rice Lake, Wis.
 Mary Helen Rolling, Wayzata
 Mikkell Alf Romstad, Bloomington
 Phillip Lester Rood, Minneapolis
 Ronald Scott Rosenbaum, St. Paul,
 MAGNA CUM LAUDE, History
 Hanna Rene Rosenblum, Minneapolis

* Degree conferred as of March 21, 1970

Diane Gail Runeberg, Golden Valley
Judith Teresa Rupinski, A.A., Philadelphia, Pa.

Daniel Robert Sandell, Minneapolis
Robert Edmund Sanders, Jr., St. Paul
James Ira Sawyer, Owatonna
Thomas Edward Schmidt, St. Paul
James Steven Schultz, Bloomington
Nancy Lee Schumacher, Golden Valley

Janet Marian Schwarz, Columbia Heights

Ronald Stuart Seaman, Minneapolis
Philip Martin Senjem, Hayfield
Todd Michael Severud, Chatfield
Marilyn Louise Sigurdson, Minneapolis

Thomas Littlepage Smith, Minneapolis

John Raymond Stanton, Minneapolis

Sondra Dee Steffenhagen, Fond du Lac, Wis.

Bonnie Ann Stewart, St. Paul, CUM LAUDE, *Political Science*

James Gerald Stockhaus, Minneapolis
Karen Astrid Strand, Decorah, Iowa
Ruth Marion Strobeck, St. Paul,

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Ralph Alden Fredlund, Lakeville
Russel Lynn Funk, Minneapolis
James Robert George, Minneapolis
John Arthur Gibson, Mound
Paul Robert Gisslen, Red Wing
Alan Leigh Johnson, Minneapolis
Craig H. Johnson, Minneapolis
Gerald Frank Kantor, Fridley
Jon Paul Kerrick, Minneapolis
LeRoy Harlan Kottke, North Mankato, WITH DISTINCTION
Paul D. Leif, A.A., Austin
Darrell Dean Maltby, Carlton
David Kendall Mooers, Robbinsdale
Dennis Lee Nordholm, Minneapolis
Loren Harvey O'Dell, Minneapolis

Jeffrey Mark Shapiro, St. Louis Park, WITH DISTINCTION
Norman Dean Sorensen, A.A., Albert Lea
George William Tessmer, Jr., St. Paul
Craig Martin Thiel, Robbinsdale
Larry David Tilleskjaer, Alexandria
Ronald Charles Voss, St. Paul
Jerome Michael Waddick, A.A., Minneapolis
Alan Tib Warner, St. Paul
Michael James Williams, Bloomington

AUGUST

James Lee Aab, Gilcrest, Colo., WITH DISTINCTION
Gregg Timothy Anderson, Hopkins, WITH DISTINCTION
Thomas Newson Atlas, Minneapolis
Bradford Lyle Austin, Excelsior
Errol Wiley Bartine, Edina
William John Bauer, Osseo
Harold William Biel, Spring Valley
Ronald Walter Bobzin, St. Paul
James Nowell Buckingham, Monticello
Dennis Harold Burnham, South St. Paul, WITH DISTINCTION
James Robert Clare, St. Paul

Charles Alan Clogston, Minneapolis,

WITH HIGH DISTINCTION

Leslie Nonman Cole, Mora

Peter Willard Forsmark, A.A.,

Hibbing

William Lee Forsmark, Hibbing

George Carl Fremder, Jr., Bloomington

Richard Stephen Fulmer, Minneapolis

George Cochrane Gillespie, A.A., Minneapolis

Paul Edmund Grisim, A.A., Minneapolis

Michael Herbert Hackner, St. Paul

Harold Vincent Haluptzok, Minneapolis

Victory Shannon Harris, Minneapolis

Dennis Lynn Hawkins, St. Paul

Douglas Elvin Heltne, St. Paul

Larry George Jacobson, Owatonna

David Donner Johnson, North St. Paul

Gerald Martin Johnson, Minnetrista

John Hartley Junnila, Grand Rapids

David Ernest Klett, St. Paul, WITH DISTINCTION

Terry Allan Lee, Circle Pines, WITH DISTINCTION

Jorge Luis Llambes, Minneapolis

Owen Gary Lokken, Henning

Franklin Donald Marek, Minneapolis

Gary Michael Miller, Fergus Falls

Fred Lewis Nakanishi, White Bear Lake

Mark Austin Nelson, Edina

Richard Wayne Nolander, Minneapolis

Francis Joseph O'Brien, Minneapolis

Reid Herman Olson, Minneapolis

Woodbury Allen Palmen, A.L.A.,

Wabasha, WITH DISTINCTION

Donald George Pishney, Silver Lake

James Allan Ragborg, Duluth

James Alfred Rauenhorst, Minneapolis

Rodney Joseph Rudnitski, Minneapolis

Roger Alfred Ruegg, Pine Island

Daniel Raymond Schultz, Bloomington, WITH DISTINCTION

Kermit LeRoy Simonson, Minneapolis

Jeffrey Scott Smith, New Hope

Richard Irving Smith, Jr., Dodge Center

Craig Earl Swarthout, Minneapolis

Thomas John Sweeney, Minneapolis

David Ray Thompson, St. Paul

Dennis Carl Thorp, Minneapolis

Thomas Earl Vanderpool II, Paynesville

John Stanton Walker, Minneapolis, WITH DISTINCTION

Richard Elvin Wethe, Fridley

Ardell Dean Winge, Minneapolis

David Duckhyun Yun, Minneapolis

Steven Paul Ziskin, Minneapolis

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

AUGUST

Terrence Robert Schoening, Edina

COLLEGE OF MEDICAL SCIENCES

Bachelor of Science

AUGUST

Carolyn Kay Dotzenrod, A.A.,
Chester, Iowa*
Leon Sherwood Emmons, A.A.,
Emmons
Cheryl Ann Lenz, St. Paul*

Susan Nan Schletz, St. Paul*
Louis John Stellato, Jr., A.M.S.,
Lyndhurst, N.J., WITH DISTINCTION
Ronald E. Troyer, A.M.S., Elkhart,
Ind.

Master of Public Health

JULY

Thomas Edward Baca, B.S., Albu-
querque, N.M.
Susan Kay Christopherson, B.S.,
St. Paul
James Leslie Davis, B.A., Dayton,
Ohio
Sister Teresa Duncan, B.S., Prince
Albert, Saskatchewan, Canada
Jeanenne Karen Lenaburg, B.S.,
Minneapolis
Catherine Jean Stifter, B.S., St. Paul
Ella Mae Tall, Stockholm, Maine

AUGUST

Charles Eugene Clement, B.S., M.A.,
Albuquerque, N.M.
Marjorie Joyce Griffin, B.S., Billings,
Mont.
Howard Kalmer, B.S., M.A., Stam-
ford, Conn.
Mary Kathleen Kouri, B.A.,
Des Moines, Iowa
Davis Brownlee Mills, B.S., Santa
Clara, Calif.
Charles Alexander Wilson, Jr., B.S.,
Stockton, Calif.

* These degrees are conferred subject to completion of practical work prior to December 19, 1970.

Candidates for Commissions

Subject to the completion of all curriculum requirements at the close of the first and second summer sessions, 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, Air Defense Artillery

AUGUST

William L. Ball, St. Paul

Second Lieutenant, Artillery

JULY

Delbert L. Jones, Minneapolis

Second Lieutenant, Field Artillery

AUGUST

Larry T. Schmitz, Wadena

Second Lieutenant, Infantry

AUGUST

Michael J. Eggum, Minneapolis

Second Lieutenant, Signal Corps

JULY

Gary M. Johnson, Cottage Grove

DEPARTMENT OF NAVAL SCIENCE

Ensign, USNR

JULY

Stephan John Moden, Minneapolis
Michael James Williams, Bloomington

AUGUST

Albert Kent Davis, Minneapolis

Second Lieutenant, USMCR

JULY

James Michael McLaughlin, Santa
Ana, Calif.

Academic Costume

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

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

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

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

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

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

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

President's Reception

AUGUST, 1970

- * The members of the graduating classes and their guests are invited to attend the President's Reception immediately after the commencement exercises.
- * The Reception will be held on the Terrace of Coffman Memorial Union. The Terrace can be reached by entering the Union through the front doors and walking directly through the Main Lounge onto the Terrace. Refreshments will be served.
- * Assisting in the Reception are students and staff members of the Department of University Relations.



UNIVERSITY OF MINNESOTA

December Commencement, 1970

SATURDAY EVENING, DECEMBER 19, 7:30 P.M.

NORTHROP MEMORIAL AUDITORIUM

The Board of Regents

The Honorable Lester A. Malkerson, Minneapolis
Chairman

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

The Honorable Elmer L. Andersen, St. Paul

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

The Honorable Albert V. Hartl, Fergus Falls

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

The Honorable Fred J. Hughes, St. Cloud

The Honorable George W. Rauenhorst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

The Honorable John A. Yngve, Plymouth

Dr. Malcolm Moos, President

Dr. Donald K. Smith, 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 nineteenth 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 225,500 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 more than a million and a half persons living in the area it serves.

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

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

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

As it meets the needs of present students, the University must also make plans for those of the future. The 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 1968-1969 showed that the University's current income amounted to \$213,904,479. Of the total received, \$18,422,666 came from student tuition and fees; \$33,438,168 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; \$1,870,514 from intercollegiate athletics; \$29,714,645 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 \$13,050,547 from corporations, foundations, individuals, and endowment income for instruction, research, prizes, and scholarships. Also, \$46,383,128 came from the federal government for instruction, research, and agricultural extension. The state provided \$71,024,811 or 33.2 percent of the University's total operating costs.

Funds expended for the construction and remodeling of buildings and the purchase of land amounted to \$17,179,689.

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 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 Mr. Dodd A. Lamberton, CLA '71. Admission to the December Commencement exercises is by guest card only. Guests will be seated as they arrive and will remain seated until the National Anthem.

PRELUDE CONCERT: From 7:00 to 7:30 p.m., Professor Heinrich R. Fleischer, Ph.D., University Organist, will play.

PROCESSION: The audience is requested to remain seated so that all can see the procession. At 7:30 p.m., Assistant Professor Henry Scholberg, M.A., Ames Library of South Asia, Faculty Marshal, will carry the Mace into the Auditorium heralding the arrival of the academic procession of candidates for degrees. Marshal Scholberg, 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. During the procession, Professor Fleischer will play:

March from "Athalia"Mendelssohn

ON THE STAGE: Seated from left to right are:

Marshal Scholberg
Professor W. Donald Beatty, Ph.D., Recorder
Professor Lawrence C. Merriam, Ph.D., College of Forestry
The Reverend J. Kenneth Huyck, B.D., Minister, Baptist Student Fellowship, and member of the Council of Religious Advisers
Dean Alfred L. Vaughan, Ph.D., General College
Assistant Dean Frank E. DiGangi, Ph.D., College of Pharmacy
Dean Warren B. Cheston, Ph.D., Institute of Technology
Dean Richard S. Caldecott, Ph.D., College of Biological Sciences
Vice President Paul Cashman, Ph.D., Student Affairs
Dean Isabel Harris, Ph.D., School of Nursing
Associate Dean John Turnbull, Ph.D., College of Liberal Arts
The Honorable John A. Yngve, Regent of the University of Minnesota
President Malcolm Moos, Ph.D., University of Minnesota
Vice President Hale Champion, B.A., Finance, Planning, and Operations
Dean Jack Merwin, Ph.D., College of Education
Associate Dean H. Mead Cavert, Ph.D., Medical School
Professor Theodore A. Olson, Ph.D., School of Public Health
Dean C. Arthur Williams, Ph.D., School of Business Administration
Assistant Dean John A. Goodding, Ph.D., College of Agriculture
Dean Bryce L. Crawford, Ph.D., Graduate School
Associate Dean Robert F. Grabb, LL.B., Law School
Professor Catherine M. Warrick, Ph.D., University College
Acting Dean Keith N. McFarland, Ph.D., College of Home Economics
Assistant Professor Philip L. Steen, Ph.D., Soloist
Professor W. Edwin Emery, Ph.D., School of Journalism, Marshal

THE NATIONAL ANTHEM: As Professor Steen 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: Reverend Huyck.

SPEAKING FOR THE UNIVERSITY: President Moos.

CONFERRING OF DEGREES: President Moos will confer certificates and degrees.

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

CONFERRING OF OTHER GRADUATE SCHOOL DEGREES: 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 Champion will introduce the deans of the several colleges or their representatives, who will present to President Moos the recipients of certificates and degrees. They are, in order of their introduction:

- Assistant Dean Goodding for the College of Agriculture
- Dean Caldecott for the College of Biological Sciences
- Dean Williams for the School of Business Administration
- Dean Merwin for the College of Education
- Professor Merriam for the College of Forestry
- Dean Vaughan for the General College
- Dean McFarland for the College of Home Economics
- Associate Dean Grabb for the Law School
- Associate Dean Turnbull for the College of Liberal Arts
- Associate Dean Cavert for the Medical School
- Dean Harris for the School of Nursing
- Assistant Dean DiGangi for the College of Pharmacy
- Professor Olson for the School of Public Health
- Dean Cheston for the Institute of Technology
- Professor Warrick for the 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:
Fugue in D Minor *Bach*

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

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

Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Ronald S. Brandt, Lincoln, Neb.

B.S. with high distinction '55, University of Nebraska; M.A. '60, Northwestern University. Major: Educational Administration. Minor: Supporting Field. Thesis: Interorganizational Patterns and Change: A Case Study of the Twin Cities TTT Project. Major Adviser: Prof. C. P. Hooker.

Elwood John Young, Minnetonka

B.B.A. '58, M.A. '64, Spec. '69, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: A Study of the Equalization of Educational Expenditures and Selected Variables. Major Adviser: Prof. V. D. Mueller.

Doctor of Philosophy

William Ward Anderson, West
St. Paul

B.A. cum laude '64, M.A. '65, B.S. '67, University of Minnesota. Major: Psychology. Minor: Pharmacology. Thesis: Oral Ethanol Self-Administration by the Rat. Major Adviser: Prof. R. D. Wirt.

Ahmed Sakr Ashour, Cairo, Egypt

B.Com. '60, Ein-Shims University; M.A.P.A. '66, University of Minnesota. Major: Industrial Relations. Minor: Supporting Field. Thesis: A Study of Subordinate's Assigned Level of Discretion as a Function of Leader's Personality and Situational Variables. Major Adviser: Prof. H. G. Heneman.

Paul Derwood Arnold, St. Paul

B.A. cum laude '49, Concordia College; M.A. '67, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Marriage Counselee MMPI Profile Characteristics with Objective Signs That Discriminate Them From Married Couples in General. Major Adviser: Prof. Gerhard Neubeck.

David Allen Ball, Stamford, Conn.

B.A. '65, Alfred University; M.A. '66, University of Maryland. Major: Theatre. Minor: Supporting Field. Thesis: Selected Wakefield Master Plays: Verbal Clues to Non-Verbal Production Elements. Major Adviser: Prof. A. H. Ballet.

Joseph William Artmann, Milwaukee,
Wis.

B.S. '65, Marquette University; M.S. '67, University of Minnesota. Major: Wildlife. Minor: Forestry. Thesis: Spring and Summer Ecology of the Sharptail Grouse. Major Adviser: Prof. J. R. Beer.

Robert Steven Baron, Wantagh, N.Y.

B.S. '65, Cornell University. Major: Psychology. Minor: Educational Psychology. Thesis: Anonymity Deindividuation and Aggression. Major Adviser: Prof. Norman Miller.

Robert William Ash, White Bear
Lake

B.A. '56, B.S. '60, M.S. '65, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of Various Procedures for Using the Corrected Test as an Instructional Device in Fifth Grade Spelling. Major Adviser: Prof. Robert Dykstra.

Francis Samuel Bellezza, Lackawanna,
N.Y.

B.S. '62, Rensselaer Polytechnic Institute. Major: Psychology. Minor: Statistics. Thesis: Computer Simulation of Operant Behavior Under Interval, Ratio and Response Rate Schedule of Reinforcement. Major Adviser: Prof. J. I. Yellott, Jr.

Marlowe Jean Berg, Minneapolis

B.S. with distinction '60, M.A. '68, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: A Comparison of the Effects of Information and the Effects of Contact on Children's Attitudes Toward Other Cultural Groups. Major Adviser: Prof. F. L. Ryan.

**Erwin Royd Wendell Berglund,
Minneapolis**

B.S. '65, University of Minnesota; M.S. '67, University of Arizona. Major: Forestry. Minor: Soil Science. Thesis: Vegetative Influence on the Diurnal and Seasonal Availability of Solar Energy to Peatlands. Major Adviser: Prof. E. I. Sucoff.

**James Allen Bjornerud, Menomonie,
Wis.**

B.S. *cum laude* '60, Bemidi State College; M. Ed. '61, Ohio University. Major: Education. Minor: Industrial Education. Thesis: An Empirical Analysis of the Instructional Contingencies in the Development of a Self-Instructional Program on Wood Structure. Major Adviser: Prof. H. F. Nelson.

Blaine L. Blad, Salem, Utah

B.S. '64, Brigham Young University; M.S. '68, University of Minnesota. Major: Soil Science. Minor: Plant Physiology. Thesis: Growth Characteristics, Plant Geometry and Energy Environment of Soybeans. Major Adviser: Prof. D. G. Baker.

Marjorie Ann Boeck, Minneapolis

B.S. '67, University of Minnesota. Major: Educational Psychology. Minor: Education. Thesis: Experimental Analysis of Questioning Behavior of Pre-Service Secondary School Science Teachers. Major Adviser: Prof. D. C. Neale.

Richard Edward Boehm, Cicero, Ill.

A.A. '63, Morton Junior College; B.S. *summa cum laude* '65, Bradley University. Major: Physical Chemistry. Minor: Physics. Thesis: Some Problems in the Diffusion of a Polymer Chain. Major Adviser: Prof. Stephen Prager.

**Claus Juergen Boerner, Ludwigsburg,
Germany**

Dip. Ing. '66, Technical University Stuttgart. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Compressible Swirling Flow Through Nozzles. Major Adviser: Prof. E. M. Sparrow.

Hardean Lester Bonkrude, St. Paul

B.A. '49, St. Olaf College; B.S. '53, M.S. '59, Mankato State College. Major: History. Minor: Political Science. Thesis: Crime and Its Treatment in Minneapolis and St. Anthony to 1880. Major Adviser: Prof. P. L. Murphy.

James Garrison Bradley, St. Paul

B.A. *cum laude* '64, University of Minnesota, Duluth; M.S. '67, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Measurement of the Thermal Neutron Capture Cross Section and Resonance Capture Cross Section of Krypton-80. Major Adviser: Prof. W. H. Johnson.

Rita Braitto, Winnemucca, Nev.

M.S. '58, University of Colorado; M.A. '67, University of Washington. Major: Sociology. Minor: Supporting Field. Thesis: Conflict Legitimation and Forms of Protest. Major Adviser: Prof. D. A. Martindale.

Edward R. Brandt, Minneapolis

B.A. *summa cum laude* '54, University of Minnesota; M.A. '65, George Washington University. Major: Political Science. Minor: Supporting Field. Thesis: Confidence and Crises of Confidence in International Relations: A Case Study of West German Political Attitudes Toward the United States. Major Adviser: Prof. C. H. McLaughlin.

Harry Joseph Brown, Minneapolis

B.S. with distinction '49, M.A. '65, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: Reaction and Movement Time as Related to Oral and Silent Reading Rate in Disabled Readers. Major Adviser: Prof. J. F. Alexander.

**Ronald Lewis Burke, Sand Fork,
W. Va.**

B.S. '63, M.S. '65, West Virginia University. Major: Agricultural Economics. Minor: Economics. Thesis: Technological and Pecuniary Marketing Economics of Size in Minnesota Feedlots. Major Adviser: Prof. D. C. Dahl.

Lois Irene Bursack, Morris

B.S. with honors '59, North Dakota State University; M.A. '61, Washington State University. Major: Speech-Communication. Minor: Supporting Field. Thesis: North American Nonverbal Behavior as Perceived in Three Overseas Urban Cultures. Major Adviser: Prof. W. S. Howell.

Howard Clayton Carlson, Pelican Rapids

B.A. '59, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Measuring Employee Motivation: A Study of Variation in Individual Preferences for Different Job Characteristics and Job Circumstances. Major Adviser: Prof. M. D. Dunnette.

Mildred Virginia Carlson, Troy, N.Y.

B.A. '65, University of Northern Iowa. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Studies in Creatine Metabolism. I. Hormonal Control of S-Adensylmethionine: Guanidinoacetic Acid N Methyltransferase. II. Development of a Micro-assay for N Methyltransferase Activity. III. Isolation, Purification, and Determination of Some Properties of Arginine: Glycine Transaminase From the Lamprey, *Petromyzon Marinus*. Major Adviser: Prof. Jay Van Pilsun.

Rulon Alvin Chappell, Lyman, Utah

B.S. '60, M.S. '62, Utah State University. Major: Food Science and Industries. Minor: Biochemistry. Thesis: A Study of the Characteristics of Desulphhydrase Isolated from Cheddar Cheese. Major Adviser: Prof. H. A. Morris.

M. Ashraf Hasan Chaudhary, Lahore, Pakistan

B.S. '53, Islamia College; M.S. '54, Panjab University; M.S. '66, University of Minnesota. Major: Botany. Minor: Biochemistry. Thesis: Studies on the Regulation of Enzyme Activities in *Rhodospirillum rubrum*. Major Adviser: Prof. A. W. Frenkel.

Hsuan Shen Chen, Republic of China

B.S. '57, National Taiwan University; M.S. '60, National Tsing Hua University. Major: Physics. Minor: Mathematics. Thesis: Threshold Theory of Single Pion Production by Neutrons. Major Adviser: Prof. D. A. Geffen.

John Bosco Cheung, Hong Kong

B.S. with distinction '65, M.S. '67, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Nonlinear Viscoelastic Stress Analysis of Blood Vessels. Major Adviser: Prof. C. C. Hsiao.

Dennis Lew Chin, Roseville

B.A. '57, University of California, Berkeley. Major: Microbiology. Minor: Biochemistry. Thesis: Studies on the Early Cellular Events in Experimental Allergic Encephalomyelitis. Major Adviser: Dr. L. H. Muschel.

Yeh Mei Chow, Hong Kong

B.S. '53, Fu-Tan University. Major: Inorganic Chemistry. Minor: Supporting Field. Thesis: The Intermolecular Interactions of Some Organometallic Compounds in the Solid States. Major Adviser: Prof. D. J. Britton.

Richard Louis Christiansen, Bethesda, Md.

D.D.S. '59, University of Iowa; M.S.D. '64, Indiana University. Major: Physiology. Minor: Supporting Field. Thesis: Hemodynamics in the Mandible with Special Consideration of Pressures Within the Marrow and the Dental Pulp. Major Adviser: Dr. M. B. Visscher.

Timothy Fuller Cleghorn, Minneapolis

B.S. cum laude '65, Colby College; M.S. '67, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Solar Modulation of the Very Heavy ($20 < > 30$) Cosmic Ray Nuclei. Major Adviser: Prof. C. J. Waddington.

Branko Mita Colakovic, Belgrade, Yugoslavia

B.A. '62, M.A. '65, University of Belgrade. Major: Geography. Minor: Supporting Field. Thesis: Yugoslav Migrations to America. Major Adviser: Prof. P. W. Porter.

John Allan Comstock, New Brighton

B.A. '60, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: The Relationship Between Clinically Derived Scores of Employability and Employability Scores Predicted by an Employability Model for Mentally Retarded Adolescents. Major Adviser: Prof. V. D. Mueller.

Glenn Adair Cooper, Jr., Cartersville, Ill.

B.S. '53, M.S. '59, Iowa State University. Major: Forestry. Minor: Industrial Engineering. Thesis: The Effect of Prefreezing of Hygroscopicity and Shrinkage of Black Walnut. Major Adviser: Prof. J. S. Haygreen.

Lawrence William Copithorne, Winnipeg, Manitoba, Canada

B.S. '62, University of Alberta; M.A. '64, University of Minnesota. Major: Economics. Minor: Supporting Field. Thesis: The Pattern of International Trade in Farm Machinery. Major Adviser: Prof. A. O. Krueger.

Nicholas John Cords, White Bear
Lake

B.S. '52, Mankato State College; M.A. '60, University of Minnesota. Major: History. Minor: Political Science. Thesis: Music in Social Settlement and Community Music Schools, 1893-1939: A Democratic-Esthetic Approach to Music Culture. Major Adviser: Prof. C. A. Chambers.

Steven Lee Crouch, Roseville

B.S. with distinction '66, M.S. '67, University of Minnesota. Major: Mineral Engineering. Minor: Supporting Field. Thesis: The Influence of Failed Rock on the Mechanical Behavior of Underground Excavations. Major Adviser: Prof. Charles Fairhurst.

Thomas Ralph Crow, Beloit, Wis.

B.S. '65, Iowa State University; M.F. '66, University of Michigan. Major: Forestry. Minor: Ecology. Thesis: Stand and Individual Tree Biomass Determination in Jack Pine (*Pinus banksiana* Lamb). Major Adviser: Prof. H. L. Hansen.

Earl Albert Cunningham, Minneapolis

B.S. with high distinction '64, M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Field. Thesis: High Sensitivity Measurements of Plasma Dispersion and Patametric Gain at 632A. Major Adviser: Prof. J. A. Carruthers.

John Julius Dallman, Augusta, Ga.

B.A. '66, M.S. '68, University of Minnesota. Major: Biometry. Minor: Mathematics. Thesis: PHYSDATA—An Algorithm Set for the Analysis of Digitized Electrophysiological Signals. Major Adviser: Dr. E. A. Johnson.

Frederick Hams Damaske, Rialto,
Calif.

B.A. '58, Anderson College; M.A. '61, Ohio University. Major: Political Science. Minor: Supporting Field. Thesis: Sects and Politics: The Political Attitudes and Behavior of Conservative-Evangelical and Neo-Fundamentalist Protestants. Major Adviser: Prof. F. J. Sorauf.

Thomas Earl Daves, Mescalero,
N. Mex.

B.S. '60, M.S. '65, New Mexico State University. Major: Agricultural Economics. Minor: Economics. Thesis: Economics of Small Watershed Management in Minnesota. Major Adviser: Prof. L. R. Martin.

Donald Theodore Davis, St. Paul

B.S. with distinction '62, M.S.E.E. '65, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Field. Thesis: Studies of the Ruby Ring Laser. Major Adviser: Prof. R. J. Collins.

David Leon DeMets, Owatonna

B.A. '66, Gustavus Adolphus College; M.S. '68, University of Minnesota. Major: Biometry. Minor: Mathematics. Thesis: An Investigation of a Diagnostic Aid Procedure. Major Adviser: Dr. E. A. Johnson.

Karen Kisiel Dion, Long Meadow,
Mass.

B.A. '67, Wellesley College. Major: Psychology. Minor: Supporting Field. Thesis: Social Desirability and the Evaluation of a Harmer-Doer. Major Adviser: Prof. Ellen Berscheid.

Kenneth Lucien Dion, Laconia, N.H.

B.A. '67, University of New Hampshire. Major: Psychology. Minor: Statistics. Thesis: Determinants of Unprovoked Aggression. Major Adviser: Prof. Norman Miller.

George Thomas Duncan, Minneapolis

B.S. '63, M.S. '64, University of Chicago. Major: Statistics. Minor: Mathematics. Thesis: Information and Questionnaires in Statistical Inference. Major Adviser: Prof. R. J. Buehler.

Horatio Dupont Durst, Port Sulphur,
La.

B.S. '65, M.S. '67, Louisiana State University. Major: Organic Chemistry. Minor: Biochemistry. Thesis: Part One: Synthesis of Geraniol-7-¹⁴C. Part Two: Reductive Aminations Using Lithium and Sodium Borohydride. Part Three: Biogenesis of Lophocerrine. Major Adviser: Prof. Edward Leete.

Perry Leroy Eimon, Hastings

B.A. *summa cum laude* '57, University of Minnesota. Major: Psychology. Minor: Supporting Field. Thesis: An Investigation of Memory Deficit in Schizophrenia. Major Adviser: Prof. P. E. Meehl.

Amin Fouad Eldirghami, Manchiet
Sultan, Menoufia, United Arab
Republic

B.Com. '63, University of Cairo; M.S. '67, University of Minnesota. Major: Business Administration. Minor: Supporting Field. Thesis: The Comparative Effectiveness of Advertising, Free Product Samples, and Advertising and Free Product Sample Combined on Improving Consumers' Buying Intentions Toward a Familiar Brand. Major Adviser: Prof. R. N. Carozzo.

Nabil Sobhi Elias, Alexandria, Egypt
B.Com. '60, University of Alexandria; M.S. '66, University of Minnesota. Major: Business Administration. Minor: Supporting Field. Thesis: The Impact of Accounting for Human Resources on Decision-Making: An Exploratory Study. Major Adviser: Prof. J. C. Gray.

Alan L. Eliason, Lindstrom

B.M.E. '62, M.B.A. '65, University of Minnesota. Major: Business Administration. Minor: Supporting Field. Thesis: A Study of the Effects of Formal Training in the Application of Quantitative Models to Production Problems as Revealed by an Interactive Decision Simulator. Major Adviser: Prof. T. R. Hoffman.

Meir Erlich, Petach Tikva, Israel

B.A. '57, Hebrew University; M.A. '65, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: Analysis of Verbal Behavior of Ninth and Tenth Grade History Teachers in Israeli Secondary Schools. Major Advisers: Profs. R. J. Keller and C. J. Hoyt.

John Edward Fadell, Minneapolis

B.A. *magna cum laude* '60, St. Thomas College; M.A. '63, University of Minnesota. Major: Linguistics. Minor: French. Thesis: Word-Formation in Old French. Major Adviser: Prof. D. C. Swanson.

Ronald Thomas Ferguson, Indiana, Pa.

B.A. '54, State University of New York; M.A. '61, Pennsylvania State University. Major: History. Minor: Political Science. Thesis: Blood and Fire: Contribution Policy of the French Armies in Germany (1668-1715). Major Adviser: Prof. J. B. Wolf.

William Roy Franta, St. Paul

B.S. '64, M.S. '66, University of Minnesota. Major: Computer and Information Sciences. Minor: Mathematics. Thesis: A Flow Oriented Computer System Simulation Language With Applications. Major Adviser: Prof. K. S. Frankowski.

Douglas Lee Franzen, Minneapolis

B.S. with high distinction '64, M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Parameters Affecting the Performance of Carbon Dioxide Lasers and Amplifiers. Major Adviser: Prof. R. J. Collins.

Douglas William Frisbie, Stamford, Conn.

B.A. '63, Emory University; M.A. '66, University of Kentucky. Major: Political Science. Minor: Supporting Field. Thesis: An Explanation of Status Voting in the United States: The Impact of Class Identification, Class Consciousness, Social Mobility, and Status Inconsistency. Major Adviser: Prof. W. H. Flanigan.

Ann Emily Gabrielsen, Minneapolis

B.A. *cum laude* '46, Brooklyn College; M.A. '53, University of Minnesota. Major: Microbiology. Minor: Supporting Field. Thesis: Chicken Hemolytic System: Its Nature and Development. Major Adviser: Prof. R. A. Good.

Michael Allen Gackstetter, Grants Pass, Ore.

B.S. *magna cum laude* '63, University of Washington. Major: Chemical Engineering. Minor: Mathematics. Thesis: Stochastic Analysis of Chemical Reactions with Biological Applications. Major Adviser: Prof. A. G. Fredrickson.

Allan Mayer Garon, Monroeville, Pa.

B.S. with distinction '63, M.S.M.E. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Velocity Measurements in Turbulent Thermal Convection Using a Laser-Doppler Technique. Major Adviser: Prof. R. J. Goldstein.

Francis Marino Gasparini, Philadelphia, Pa.

B.S. '64, Villanova University; M.S. '66, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Heat Capacity of Liquid He⁴ and He³-He⁴ Mixtures at the Lambda Transition. Major Adviser: Prof. Michael Moldover.

M. Joan Gerads, Little Falls

B.S.N. *summa cum laude* '54, Marquette University; M.Ed. '68, University of Minnesota. Major: Sociology. Minor: Supporting Field. Thesis: Health Needs in the Parroquia De San Bartolome. Major Adviser: Prof. D. A. Martindale.

Dennis Lee Gibson, Chicago, Ill.

B.S. '60, Northwestern University. Major: Psychology. Minor: Educational Psychology. Thesis: Prediction of Verbal Behavior of Individuals in Small Counseling Groups. Major Adviser: Prof. R. G. Warnken.

Noel Carson Gill, Logan, Utah

B.S. '66, M.S. '68, Utah State University. Major: Educational Psychology. Minor: Psychology. Thesis: Effect of In-Service Training in Discussion Skills on Classroom Interaction Patterns. Major Adviser: Prof. D. C. Neale.

Michael Jon Gimmestad, Belview

B.A. '65, St. Olaf College; M.S. '67, Indiana University. Major: Educational Psychology. Minor: Psychology. Thesis: A Multi-Impact Short-Term Program in Training Counselors in Perceptual Sensitivity (Empathy). Major Adviser: Prof. D. H. Blocher.

Pinhas Golany, Tel-Aviv, Israel

B.S. '55, Technion Israel Institute of Technology; M.S. '67, University of Minnesota. Major: Agricultural Engineering. Minor: Supporting Field. Thesis: Effect of Watershed Characteristics on the Time Parameters of Runoff Hydrographs. Major Adviser: Prof. C. L. Larson.

Frank Martin Goode, La Gunta, Colo.

B.S. '62, M.S. '65, Colorado State University. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of the Supply of Land for Urban Expansion. Major Adviser: Prof. L. R. Martin.

John George Grabowski, Milwaukee, Wis.

B.A. '66, University of Minnesota. Major: Psychology. Minor: Supporting Field. Thesis: Temporal Patterning of Avoidance Responding as a Function of Added Stimulus Manipulations. Major Adviser: Prof. Travis Thompson.

Bernard Lee Griswold, Imlay City, Mich.

B.S. '64, Iowa State University; M.S. '67, University of Maine. Major: Fisheries. Minor: Supporting Field. Thesis: The Ecology of the Ninespine Stickleback, *Pungitius Pungitius* (Linnaeus), in Western Lake Superior. Major Adviser: Prof. L. L. Smith.

Warren Walter Gulko, San Diego, Calif.

B.A. '65, San Diego State College; M.S. '68, University of Minnesota. Major: Education. Minor: Business Administration. Thesis: A Generalized Structure for Classifying and Costing Higher Education Programs. Major Adviser: Prof. W. M. Ammentorp.

Gary Lee Gustafson, Kalispel, Mont.

B.S. in Chem. '65, Montana State College. Major: Biochemistry. Minor: Microbiology. Thesis: Purification and Properties of UDPG Pyrophosphorylase From *Sorghum vulgare*. Major Adviser: Prof. J. E. Gander.

Robert Francis Hammer, Alexandria

B.S. '51, D.V.M. '53, University of Minnesota. Major: Veterinary Anatomy. Minor: Supporting Field. Thesis: The Ultrastructure of Peripheral Blood Agranulocytes in Apparently Normal Cattle Selected from Leukemia and Leukemia-Free Herds. Major Adviser: Prof. A. F. Wilson.

Gary Randall Hanson, Windom

B.A. '65, M.A. '68, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Empirical Exploration of the Correlates of Academic Predictability. Major Adviser: Prof. R. F. Berdie.

Walter Hard, Sioux Falls, S.D.

B.S. '52, Wisconsin State University; M.A. '61, University of Minnesota. Major: Educational Administration. Minor: Supporting Field. Thesis: Conceptual and Operational Differences Between Doctoral Level Preparation Programs for Professors of Educational Administration and School Superintendents at UCEA Universities. Major Adviser: Prof. C. P. Hooker.

Paul Allan Hargrave, Palmyra, N.Y.

B.A. *magna cum laude* '60, Colgate University; M.S. '66, University of Illinois. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Molecular Properties of Yeast Enolase. Major Adviser: Prof. Finn Wold.

Chester Wayne Harris, Independence, Mo.

B.S. '57, M.S. '62, Brigham Young University. Major: Educational Psychology. Minor: Psychology. Thesis: A Comparison of Three Counseling Methods in Influencing Client Referral Behavior. Major Adviser: Prof. C. A. Parker.

Christine Mary Harris, Minneapolis

B.S. '66, Northwestern University; M.A. '69, University of Minnesota. Major: Speech Science, Pathology, and Audiology. Minor: Psychology. Thesis: Phonemic Errors by Aphasic Subjects in the Identification of Monosyllabic Words. Major Adviser: Prof. C. E. Speaks.

David Warner Haslett, Newark, Del.

B.A. *magna cum laude* '61, Washington and Lee University; J.D. '65, Harvard Law School. Major: Philosophy. Minor: Law. Thesis: *The Fundamental Moral Imperative (An Interpretation of C. I. Lewis' Theory of Moral Rightness)*. Major Adviser: Prof. R. E. Sartorius.

Leonard Clyde Hawes, Spicer

B.A. '66, Macalester College; M.A. '68, University of Minnesota. Major: Speech-Communication. Minor: Supporting Field. Thesis: *An Empirical Definition and Analysis of Physician-Patient Communication Systems*. Major Adviser: Prof. W. S. Howell.

Arlo Dennis Hendrickson, Kalispel, Mont.

B.A. '63, M.A. '65, University of Montana. Major: Statistics. Minor: Mathematics. Thesis: *Payoffs to Probability Forecasters*. Major Adviser: Prof. R. J. Buehler.

Marian Sue Henry, Allentown, Pa.

B.S. '66, Muhlenberg College. Major: Chemistry. Minor: Physics. Thesis: *The Ferrous-Ferric Isotope Exchange Reaction in Dimethyl-sulfoxide-Water Media*. Major Adviser: Prof. W. L. Reynolds.

Richard John Herder, Red Wing

B.Ag., B.A. '58, M.S. '59, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: *An Analysis of Agricultural Credit Lending by Commercial Banks in the Ninth Federal Reserve District*. Major Adviser: Prof. E. F. Koller.

John Middlemist Herrick, Minneapolis

B.A. *cum laude* '64, St. John's University; M.A. '67, University of Minnesota. Major: History. Minor: Supporting Field. Thesis: *A Holy Discontent: The History of the New York City Social Settlements in the Inter-War Era, 1919-1941*. Major Adviser: Prof. C. A. Chambers.

Alonzo Judson Hester, Lawrenceburg, Tenn.

B.S. '63, Tennessee Polytechnic Institute; M.S. '66, University of Tennessee. Major: Agronomy. Minor: Supporting Field. Thesis: *Scion-Root Effect and Heritability Estimates on P, K and Ca Accumulation in Leaves of Soybeans (Glycine Max L. Merr.)*. Major Adviser: Prof. D. C. Rasmussen.

Rondel James Holliday, Siloam Springs, Ark.

B.A. *summa cum laude* '64, John Brown University; M.S. '67, University of California, Berkeley. Major: Physics. Thesis: *Nuclear Orientation Studies of Local Moments in Noble Metal Hosts*. Major Adviser: Prof. W. V. Weyhmann.

Alan Bruce Horowitz, Brooklyn, N.Y.

B.S. '66, Pennsylvania State University; M.A. '68, University of Minnesota. Major: Child Psychology. Minor: Psychology. Thesis: *Habituation and Memory: Infant Cardial Responses to Familiar and Discrepant Auditory Stimuli*. Major Adviser: Prof. Joseph Glick.

Robert Vernon Hudson, East Lansing, Mich.

B.S. '54, Indiana University; M.S. '66, University of Oregon. Major: Mass Communication. Minor: Supporting Field. Thesis: *Journeyman Journalist: An Analytical Biography of Will Irwin*. Major Adviser: Prof. W. E. Emery.

Charles Richard Hutchinson, Minneapolis

B.S. '66, Ohio State University. Major: Organic Chemistry. Minor: Supporting Field. Thesis: *Biosynthetic Studies in *Convularia Majalis*, *Nicotiana Tabacum*, and *Tulipa Gesneriana**. Major Adviser: Prof. Edward Leete.

Albert F. Iglar, Jr., Johnson City, Tenn.

B.S. '61, Carnegie-Mellon University; M.P.H. '66, University of Minnesota. Major: Environmental Health. Minor: Civil Engineering. Thesis: *Hospital Solid Waste Management: An Empirical Study With Particular Regard to Quantities of Solid Waste*. Major Adviser: Prof. R. G. Bond.

In Jae Im, Seoul, Korea

B.A. '62, Seoul National University; M.A. '67, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: *A Multivariate Analysis of the Relationship of Academic, Personality, and Family Background Variables to the Different Patterns of Collegiate Attendance*. Major Adviser: Prof. C. J. Hoyt.

James Allen Janke, Wauwatosa, Wis.

B.S. '65, University of Wisconsin. Major: Organic Chemistry. Minor: Supporting Field. Thesis: *The Halogenation of Indoles*. Major Adviser: Prof. W. E. Noland.

Raymond Anthony Janssen, Ceylon

B.S. with distinction '63, M.S.E.E. '65, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Experimental Approach to Dynamic Characterization of Some System Response Statistics. Major Adviser: Prof. R. F. Lambert.

Julie Mae Jensen, Hutchinson

B.S. '65, M.A. '68, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparative Investigation of the Casual and Careful Language Styles of Average and Superior Fifth Grade Boys and Girls. Major Adviser: Prof. N. C. Chase.

Donald Loy Johnson, Nampa, Idaho

B.A. '65, M.S. '67, Brigham Young University. Major: Educational Psychology. Minor: Psychology. Thesis: The Effect of Confrontation in Counseling. Major Adviser: Prof. C. A. Parker.

Donna Marie Johnson, Minneapolis

B.A. *summa cum laude* '65, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Personality Differences Between Low and High Achieving Boys Using the Personality Inventory for Children. Major Adviser: Prof. M. D. Hall.

James Craig Johnson, Excelsior

B.S. '66, M.A. '67, University of Arizona. Major: Business Administration. Minor: Supporting Field. Thesis: An Economic and Regulatory Analysis of the Merger and Consolidation Movement in the Motor Trucking Industry. Major Adviser: Prof. D. V. Harper.

Jerome Ervin Johnson, Fargo, N.D.

B.S. '56, Wisconsin State College; M.S. '61, University of Minnesota. Major: Agricultural Economics. Minor: Sociology. Thesis: Interrelations Between Land Tenure and Progress in North Dakota Farming. Major Adviser: Prof. P. M. Raup.

Randall Erland Johnson, DeKalb, Ill.

B.S. '58, Northern Illinois University; M.S. '61, Purdue University. Major: Education. Minor: Mathematics. Thesis: The Effect of Activity Oriented Lessons on the Achievement and Attitudes of Seventh Grade Students in Mathematics. Major Adviser: Prof. J. E. Stochl.

William Clough Jones, Anaheim, Calif.

B.S. *cum laude* '58, Santa Clara University; M.A. '62, Creighton University. Major: American Studies. Thesis: The New England Transcendentalists and the Mexican War. Major Adviser: Prof. M. C. Turpie.

Ronald Victor Josephson, State College, Pa.

B.S. with distinction '64, Pennsylvania State University; M.S. '66, University of Minnesota. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Fractionation and Characterization Studies of Casein Micelles and Their Subunits in Milk. Major Adviser: Prof. C. V. Morr.

Anne Joshi, Vijayawada, India

B.S. '62, Andhra University; B.S.M.E. '66, Banaras Hindu University. Major: Metallurgical Engineering. Minor: Supporting Field. Thesis: Studies of Grain Boundary Embrittlement in Some Metals and Alloys. Major Adviser: Prof. D. F. Stein.

Karen R. Kane, St. Paul

B.S. '63, B.S. '64, M.S. '68, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: A Study of Children's Concepts of Lies. Major Adviser: Prof. M. C. Reynolds.

Azmi Kaya, Trabzon, Turkey

B.S. '52, Technical T. College; M.S.M.E. '62, University of Wisconsin. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Optimization of Traffic Flow for an Urban Freeway Transportation System. Major Adviser: Prof. E. B. Lee.

Joan Elizabeth Kirkpatrick, Edmonton, Alberta, Canada

B.Ed. '65, University of Alberta; M.A. '69, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: The Use of Finite Mathematical Systems to Achieve Selected Mathematics Objectives in Grade Six. Major Adviser: Prof. R. L. Jackson.

Melvin Loren Kliman, Hamilton, Ontario, Canada

B.A. '62, University of Manitoba; M.A. '66, Queen's University. Major: Economics. Minor: Supporting Field. Thesis: Aggregative and Sectoral Hypotheses on the Demand for Money: Comparative Tests for the Business Sector. Major Adviser: Prof. J. J. Kareken.

Norval Charles Kneten, Corpus Christi, Tex.

B.A. '63, Texas Lutheran College. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: The Preparation and Thermal Decomposition of $K_3[Co(C_2H_2O_4)_3] \cdot 4H_2O$. Major Adviser: Prof. W. L. Reynolds.

Timothy Bushnell Knopp, St. Paul

B.S. '57, University of Minnesota; M.S. '59, University of Arizona. Major: Forestry. Minor: Supporting Field. Thesis: The Supplementary Function of Outdoor Recreation in the Minnesota Memorial Hardwood Forest. Major Adviser: Prof. L. C. Merriam.

Nickolas Konopliv, Minneapolis

B.M.E. '59, M.S. '68, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Theory of Transient Heat Transfer in Forced Convection Flows. Major Adviser: Prof. E. M. Sparrow.

Donald Carl Kopfstein, Atlanta, Ga.

B.A. *cum laude* '65, Carleton College. Major: Child Psychology. Minor: Psychology. Thesis: The Effects of Natural Contingencies on the Social Behavior of Trainable Retarded Children: A Learning Analysis. Major Adviser: Prof. W. W. Hartup.

Dennis Karl Kreid, Grand Meadow

B.S. '63, M.S. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Measurement of Simulated Blood Flow by the Laser-Doppler Technique. Major Adviser: Prof. R. J. Goldstein.

Clyde Victor Kuemmerle, Jr., Minneapolis

B.A. '63, Montclair State College; M.A. '65, University of Maryland. Major: Theatre. Minor: Speech-Communication. Thesis: An Investigation of Selected Contemporary American Scene Designers. Major Adviser: Prof. Wendell Josal.

Denis Allison Lape, Milford, Conn.

B.A. '61, Yale University; M.A. '64, University of Minnesota. Major: English. Minor: Supporting Field. Thesis: *The Masks of Dionysus*: Works of Hawthorne and Melville. Major Adviser: Prof. C. H. Foster.

Delfin Bartolome Lapis, Los Banos, Laguna, Philippines

B.S.A. '59, M.S. '65, University of Philippines. Major: Plant Pathology. Minor: Entomology. Thesis: Effect of Mineral Oil in Controlling Three Foliar Diseases of Wheat. Major Adviser: Prof. Lucas Calpouzos.

Danny Lee Lattin, Smith Center, Kan.

B.S. '65, University of Kansas. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: Conformationally Rigid Atropine and Acetylcholine Analogs: Synthesis of Substituted 2-Azabicyclo (2.2.1) Heptanes. Major Adviser: Prof. P. S. Portoghese.

Richard Brian Lea, Minneapolis

B.S.B. '63, University of Minnesota; M.B.A. '65, University of California, Berkeley. Major: Business Administration. Minor: Economics. Thesis: The Design of an Information System Which Supports a Product Mix Linear Programming Model. Major Adviser: Prof. R. G. Berryman.

John Alfred Lee, St. Paul

B.A. '55, M.A. '59, St. Paul Seminary; M.A. '67, University of Minnesota. Major: Mass Communication. Minor: Educational Administration. Thesis: The Communication of the Roman Catholic Church to the World, 1968-1970. Major Adviser: Prof. R. B. Nixon.

Charles Richard Lepley, Santa Rosa, Calif.

B.S. '62, M.S. '63, University of California, Davis. Major: Agronomy. Minor: Supporting Field. Thesis: Studies on the Isolation and Separation of Bundle Sheath and Mesophyll Cell Chloroplasts and on Carbon-Dioxide Uptake in Maize Leaves. Major Adviser: Prof. D. N. Moss.

John Hannibal Litcher, Rollingstone

B.S. '64, Winona State College; M.A. '67, University of Minnesota. Major: Education. Minor: History. Thesis: Change in Attitudes Toward Blacks by White Elementary School Children After Use of Multiethnic Curricular Materials. Major Adviser: Prof. F. L. Ryan.

David George Madland, LaCrescent

B.A. '62, St. Mary's College; M.S. '68, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Study of the Isotopes of Neon With Proton Reactions at 40 MeV. Major Adviser: Prof. N. M. Hintz.

Wendel Joseph Maegley, St. Paul

B.M.E. '62, University of Dayton; M.S. '63, Oklahoma State University. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Transition From Free Molecule to Continuum Flow in an Annulus. Major Adviser: Prof. A. S. Berman.

Kenneth Robert Magnell, Detroit, Mich.

B.S. '62, M.S. '66, Wayne State University. Major: Inorganic Chemistry. Minor: Analytical Chemistry. Thesis: Spectrophotometric Determination of Formation Constants of Cobalt (II) Complexes in Dimethyl Sulfoxide. Major Adviser: Prof. W. L. Reynolds.

Carol Anita Mahon, Hopkins

B.S. '64, University of California, Berkeley; M.S. '67, University of Minnesota. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Cyanide Bridging in Structures of Cyano Compounds of the Group I B and II B Elements. Major Adviser: Prof. D. J. Britton.

Yebapas Leon Maksoudian, San Luis Obispo, Calif.

B.S. '57, California State Polytechnic College; M.S. '61, University of Minnesota. Major: Educational Psychology. Minor: Mathematics. Thesis: A Sequential Model Based on Discriminant Analysis for the Prediction of Academic Performance of College Students. Major Adviser: Prof. C. J. Hoyt.

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B.S. '60, M.S. '62, University of Kerala. Major: Physics. Minor: Mathematics. Thesis: An Experimental Investigation of the Intensity and Energy of High Energy Cosmic Ray Electrons. Major Adviser: Prof. D. J. Waddington.

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B.M.E. with distinction '62, University of Minnesota; M.S.M.E. '65, University of Southern California. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Fundamental Study of Inertial Impactors. Major Adviser: Prof. Benjamin Liu.

Charles Russell McHugh, Minneapolis

B.A. '63, M.A. '67, University of Minnesota. Major: Music. Minor: Supporting Field. Thesis: Symphony #2. Major Adviser: Prof. Paul Fetter.

Dennis Gordon McMinn, Edmonton, Alberta, Canada

B.S. '66, University of Alberta. Major: Organic Chemistry. Minor: Supporting Field. Thesis: I. The Biosynthesis of Lycopodine. II. The Biosynthesis of Cinchona Alkaloids. Major Adviser: Prof. Edward Leete.

George Thomas Milkovich, Eden Prairie

B.S.B. with distinction '63, M.A. '65, University of Minnesota. Major: Industrial Relations. Minor: Supporting Field. Thesis: An Empirical Study of the Internal Labor Market Concept. Major Adviser: Prof. T. A. Mahoney.

Floyd John Miller, New York, N.Y.

B.A. '62, Carleton College; M.A. '66, University of Minnesota. Major: History. Minor: Supporting Field. Thesis: Martin R. Delany and the Nineteenth-Century Search for a Black Identity. Major Adviser: Prof. A. H. Spear.

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B.S.C.E. '66, North Carolina State University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Excess Electrons in Liquid Hydrocarbons. Major Adviser: Prof. L. D. Schmidt.

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B.S. '61, Valparaiso University; M.A. '65, University of New Mexico. Major: History. Minor: Supporting Field. Thesis: Ultraconservative Response to Supreme Court Judicial Behavior: A Study in Political Alienation, 1935-1965. Major Adviser: Prof. P. L. Murphy.

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B.S. '61, University of Idaho; M.S. '63, Montana State University. Major: Home Economics. Minor: Supporting Field. Thesis: The Effects of Mobility Motivations Upon the Adjustment of Working Class Couples. Major Adviser: Prof. Irving Tallman.

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B.S. '64, Western Michigan University. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: The Effect of Literary Material on Behaviorally Maladjusted Adolescents. Major Adviser: Prof. B. E. Balow.

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B.S. '62, M.S. '64, Purdue University. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Hydrodynamic Stability of Flow Between Rotating Spheres and Rotating-Sliding Cylinders. Major Adviser: Prof. D. D. Joseph.

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B.S. with distinction '65, University of Rochester. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: Vibrational Anharmonicity in Cyanogen Chloride. Major Adviser: Prof. John Overend.

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B.A. '66, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Effects of Counselor Self-References on Student Reactions to an Interview Situation. Major Adviser: Prof. R. G. Warnken.

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B.S. '49, Wisconsin State College; M.S. '53, University of Wisconsin. Major: Education. Minor: Educational Psychology. Thesis: An Investigation of the Validity of Micro-Teaching with Video-Playback as an Integral Part of a Program for Preparing Elementary Teachers. Major Adviser: Prof. C. V. Goossen.

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B.S. '65, Karantak University; M.A. '68, University of Minnesota. Major: Nutrition. Minor: Supporting Field. Thesis: Partition of Consumed Feed Energy Among the Physiological Functions of Dairy Cow. Major Adviser: Prof. J. D. Donker.

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B.E. '63, M.M.E. '65, University of Jabalpur; M.S. '67, University of Minnesota. Major: Industrial Engineering. Minor: Mathematics. Thesis: Capacity Decisions in the Multi-Purpose Multi-Reservoir Systems. Major Adviser: Prof. S. R. Arora.

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B.S. '64, City College of New York. Major: Statistics. Minor: Mathematics. Thesis: Play-the-Winner Sampling in Selecting the Better of Two Binomial Populations. Major Adviser: Prof. Milton Sobel.

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B.S. '66, University of Wisconsin. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Studies on the Mechanism of Action of the Enzyme Uridine Diphosphoglucose 4-Epimerase (E.C. 5.1.3.2). Major Adviser: Prof. Samuel Kirkwood.

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B.S. '54, St. Cloud State College; M.A. '63, University of Minnesota. Major: Education. Minor: Supporting Field. Thesis: The Effect of Specifically Stated Instructional Objectives on the Achievement of Collegiate Undergraduate Economics Students. Major Adviser: Prof. R. G. Price.

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B.S. '58, M.A. '61, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Differential Effects of Goal Structuring in Counseling Groups Identified on the Variable of Internal-External Control. Major Adviser: Prof. W. W. Tennyson.

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B.A. *magna cum laude* '65, University of Minnesota. Major: Genetics. Minor: Psychology. Thesis: A Study of the Inheritance of Intellectual Abilities in a Large Biracial Sample of Siblings. Major Adviser: Prof. V. E. Anderson.

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B.A. '65, M.A. '68, University of Hawaii. Major: Speech-Communication. Minor: Supporting Field. Thesis: Managerial Decision-Making Process and Communication Variables in Foreign-Affiliated Japanese Companies and Japanese Companies. Major Adviser: Prof. W. S. Howell.

Gerald Melvin Nolte, St. Paul
B.S. '64, University of Illinois. Major: Agricultural Economics. Minor: Economics. Thesis: Effect of Milk Assembling and Processing Costs on Optimal Type and Size of Plant for Butter and Nonfat Dry Milk in Minnesota. Major Adviser: Prof. E. F. Koller.

Clifford Allan Ottaway, Toronto,
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B.S. '66, M.S. '67, University of Toronto. Major: Biochemistry. Minor: Physical Chemistry. Thesis: The Circular Dichroism of Polypeptides in Turbid Systems. Major Adviser: Prof. D. B. Wetlaufer.

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B.A. '64, Yale University. Major: Educational Psychology. Minor: Psychology. Thesis: Social Reinforcement, Persuasion and Empathy, Warmth and Genuineness: A Comparison of Five Concepts of Therapist Behaviors. Major Adviser: Prof. C. A. Parker.

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B.A. '55, Bethel College. Major: American Studies. Thesis: The Image of the Black Minister in the Black Novel From Dunbar to Baldwin. Major Adviser: Prof. M. C. Turpie.

Dimitri J. Papanastassiou, Thebes,
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Dip. '66, National Technical University. Major: Metallurgical Engineering. Minor: Chemical Engineering. Thesis: Mechanisms and Kinetics Underlying the Oxidation of Magnetite in the Induration of Iron Ore Pellets. Major Adviser: Prof. Gust Bitsianes.

Edward Eugene Paradis, Minneapolis

B.S. with distinction '63, M.A. '68, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Appropriateness for Selected Preschool and Kindergarten Children of Visual Discrimination Exercises in Reading Readiness Materials. Major Adviser: Prof. T. W. Clymer.

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B.S. '56, College of St. Catherine; M.A. '59, St. Louis University. Major: Sociology. Minor: Anthropology. Thesis: The Consequences of Dual Occupations Among Farmers in Northeastern Minnesota. Major Adviser: Prof. G. A. Donohue.

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B.Arch.E. '64, Iowa State University; M.S.C.E. '68, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: Minimum Weight Design of Rectangular Plant Frames. Major Adviser: Prof. J. T. Hanley.

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B.S. '65, Iowa State University; M.A. '67, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: An Experimental Study of the Effect of Pictures on Primary Grade Children's Comprehension of Basal Readers. Major Adviser: Prof. B. E. Balow.

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B.M.E. '64, University of Florida; M.S. '68, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: The Effect of Uniform Mass Injection on the Structure of Turbulent Flow Through a Porous Tube. Major Adviser: Prof. E. R. Eckert.

Theodore John Pepin, St. Paul

B.Phy. '62, M.S. '68, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: I. Observations of the Brightness and Polarization of the Outer Corona During the November 12, 1966 Total Eclipse of the Sun. II. The Use of Extinction from High Altitude Balloons as a Probe of the Atmospheric Aerosols. Major Adviser: Prof. E. P. Ney.

Raghavan Kondayoor Pisharody, Kerala, India

B.S. '57, M.S. '59, University of Bombay. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Solid State Properties of Some Pure and Substituted Layer-Type Disulfides of Titanium, Vanadium, Chromium and Tantalum. Major Adviser: Prof. L. E. Conroy.

Robert Charles Polta, New Ulm

B.S. '61, M.S.C.E. '64, University of Minnesota. Major: Civil Engineering. Minor: Chemical Engineering. Thesis: An Examination of the Operating Parameters of a Mechanical Surface Aeration Unit. Major Adviser: Prof. G. J. Schroepfer.

Edward Augustine Pond, Eau Claire, Wis.

B.A. cum laude '58, Northwestern College; M.A. '61, University of Minnesota. Major: History. Minor: Classics. Thesis: The Inscriptional Evidence for the Illyrian Emperors: Claudus Gothicus Through Carinus, 268-284 A.D. Major Adviser: Prof. T. B. Jones.

Joyce Theresa Povlacs, Akron, Ohio

B.A. '59, Kent State University; M.A. '60, University of Minnesota. Major: English. Minor: History. Thesis: Actor as Character and Structure in the Plays of John Marston. Major Adviser: Prof. G. W. O'Brien.

Warren Harold Puhl, Colfax, Wis.

B.S. '61, Wisconsin State University; M.S. '64, New Mexico Highlands University. Major: Inorganic Chemistry. Minor: Supporting Field. Thesis: 1. Lewis Acid Studies of Organometallics. 2. Lewis Acid Studies of Nickel(II) Complexes. Major Adviser: Prof. H. F. Henneke.

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M.A. '55, Andhra University. Major: Economics. Minor: Supporting Field. Thesis: Disaggregated Demand and Some Aspects of the Pure Theory of International Trade. Major Adviser: Prof. J. S. Chipman.

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B.S. '60, M.S. '63, University of Nebraska. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Fertilizer Retailing in Minnesota. Major Adviser: Prof. D. C. Dahl.

Milton Robert Ravensborg, Fergus Falls

B.A. '60, M.A. '63, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: An Operant Conditioning Approach to Increasing Interpersonal Awareness Among Chronic Schizophrenics. Major Adviser: Prof. R. E. Wilk.

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B.V.S. '58, University of Calcutta; M.V.S. '64, University of Madras. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Problems in the Recovery of *Salmonella* in Dried Milk Products. Major Adviser: Prof. J. J. Jezeski.

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B.S. '65, McGill University. Major: Physics. Minor: Mathematics. Thesis: Resonating-Group Study of Few-Nucleon Scattering Problems. Major Adviser: Prof. Y. C. Tang.

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B.A. '59, Bethel College; M.A. '62, University of Illinois. Major: Political Science. Minor: Psychology. Thesis: Intelligence, Personality and Partisan Political Behavior. Major Adviser: Prof. H. W. Chase.

Douglas Dana Rose, Royal Oak, Mich.

B.A. '66, Williams College; M.A. '68, University of Minnesota. Major: Political Science. Minor: Supporting Field. Thesis: State Election Systems: Candidacy, Candidate Strength and Candidate Support in Wisconsin, Oregon, Vermont and Mississippi. Major Adviser: Prof. W. H. Flanigan.

John Leslie Rose, Brisbane, Australia

B.Ag.S. '63, M.Ag.S. '68, University of Queensland. Major: Genetics. Minor: Plant Physiology. Thesis: Inheritance of Fatty Acids in Several Crosses of Soybean Varieties. Major Adviser: Prof. J. W. Lambert.

David Peter Rutten, Osakis

B.A. *summa cum laude* '65, St. John's University; M.S. '67, University of Minnesota. Major: Business Administration. Minor: Supporting Field. Thesis: A Theoretical Comparison of Some Partitioning Algorithms for Structured Linear Programming Problems. Major Adviser: Prof. G. M. Andrew.

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B.A. *magna cum laude* '65, Wisconsin State University; M.A. '67, University of Minnesota. Major: History. Minor: Supporting Field. Thesis: An Economic, Historical Study of the Reign of Amel-Marduk, King of Babylon, 562-560 B.C. Major Adviser: Prof. T. B. Jones.

Arthur Omer St. Hilaire, Lewiston, Me.

B.S.M.E. '66, University of Maine; M.S.A.E. '68, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Fluid Dynamic Excitation of the Organ Reed. Major Adviser: Prof. T. S. Lundgren.

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B.A. '53, M.A. '62, University of Cairo; M.A. '66, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Differential Effect of Reinforcement and Advice-Giving on Information Seeking Behavior in Counseling. Major Adviser: Prof. C. A. Parker.

Douglas Charles Sanders, Mason, Mich.

B.S. '65, Michigan State; M.S. '69, University of Minnesota. Major: Horticulture. Minor: Plant Physiology. Thesis: Studies on the Influence of Mist Irrigation on the Microenvironment, Growth, and Development of the Potato (*Solanum tuberosum*). Major Adviser: Prof. R. E. Nyland.

Stephen Ward Schaffer, Balaton

B.S. *summa cum laude* '66, Buena Vista College. Major: Biochemistry. Minor: Physical Chemistry. Thesis: Mechanism of Reactivation of Disulfide Proteins. Major Adviser: Prof. D. B. Wetlaufer.

Rolf Schaumann, Siegburg, Germany

Dip. Ing. '67, University of Stuttgart. Major: Electrical Engineering. Minor: Supporting Field. Thesis: Rational Network Functions From Distributed C Lines of Arbitrary Taper. Major Adviser: Prof. B. A. Sheno.

Robert Earl Schneider, Minneapolis

B.A. '65, M.S. '68, University of Minnesota. Major: Biometry. Minor: Statistics. Thesis: A Mean Squared Error Criterion for Selecting a Subset of Predictor Variables. Major Adviser: Prof. J. R. Boen.

Thomas David Schoonover, Lafayette, La.

B.A. '59, University of Minnesota; M.A. '61, Louisiana State University. Major: History. Minor: Geography. Thesis: Mexican-United States Relations, 1861-1867. Major Adviser: Prof. R. C. Loehr.

Pamela Poynter Schwandt, Northfield

B.A. *magna cum laude* '61, St. Olaf College; M.A. '62, University of Washington. Major: English. Minor: Greek. Thesis: Pope's *Iliad*: The Transformation From Homeric to Augustan. Major Adviser: Prof. S. H. Monk.

Ethel Olivia Scott, Mantee, Miss.

B.S. '49, Mississippi State College for Women; M.S. '62, University of North Carolina. Major: Education. Minor: Supporting Field. Thesis: The Relationships of Selected Components of Leisure Activity Experiences to the Social Behavior Patterns of Teenagers and Young Adults. Major Adviser: Prof. C. J. Hoyt.

Georgianne Rentas Shove, Minneapolis

B.A. '65, M.A. '68, University of Minnesota. Major: Educational Psychology. Minor: Supporting Field. Thesis: A Test Battery for the Assessment of School Learning Difficulties and Its Relationship to Reflection-Impulsivity in 2nd and 3rd Grade Boys. Major Adviser: Prof. M. D. Hall.

Musab U. Siddiqi, Rudauli, India

B.A. '46, National Muslim University; M.A. '63, Southern Illinois University. Major: Sociology. Minor: Psychology. Thesis: Parental Participation in the Sex Education Program: An Evaluation Study. Major Adviser: Prof. D. A. Martindale.

Allan Barnard Simons, Ithaca, N.Y.

B.S. '65, Cornell University; M.S. '67, University of Maryland. Major: Agronomy. Minor: Plant Physiology. Thesis: Relationship of Indole Alkaloids to Palatability of *Phalaris arundinacea* L. and Influence of Several Factors on Alkaloid Concentration. Major Adviser: Prof. G. C. Morten.

David Lester Sippel, Windom

B.S. with distinction '65, M.S. '67, University of Minnesota. Major: Mechanics and Materials. Minor: Mathematics. Thesis: Minimum-Mass Design of Structural Elements and Multi-Element Systems with Specified Natural Frequencies. Major Adviser: Prof. W. H. Warner.

Thomas Jay Smith, Salt Lake City, Utah

B.A. '66, M.P.H. '67, University of Minnesota. Major: Environmental Health. Minor: Analytical Chemistry. Thesis: Atmospheric Pollution as a Cause of Bronchial Asthma Attacks. Major Adviser: Prof. H. J. Paulus.

Lawrence Andrew Soltis, Milwaukee, Wis.

B.S.C.E. '63, M.S.C.E. '64, University of Minnesota. Major: Civil Engineering. Minor: Supporting Field. Thesis: Large Displacements of Members Having Thin-Walled Open Cross Sections. Major Adviser: Prof. P. P. Christiano.

Sheldon Alan Sper, Rochester, N.Y.

B.A. '60, University of Rochester; M.A. '64, University of Minnesota. Major: Linguistics. Minor: German. Thesis: Comparative Dialectology of Lake Atitlan, Guatemala, C.A. Major Adviser: Prof. Walter Lehn.

Thomas Gardiner Spring, Toledo, Ohio

B.A. *magna cum laude* '66, Oberlin College. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Purification and Characterization of *Escherichia Coli* Enolase and Two High Affinity Enolase Inhibitors. Major Adviser: Prof. Finn Wold.

Michael William Steffes, Minneapolis

B.A. '65, Harvard College. Major: Anatomy. Minor: Biochemistry. Thesis: Insulin Secretion in Isolated Mammalian Islets of Langerhans. Major Adviser: Dr. A. W. Lindall.

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B.A. '64, University of Minnesota. Major: Psychology. Minor: Supporting Field. Thesis: The Construction of a Somatizing Scale for the Personality Inventory for Children. Major Adviser: Prof. J. N. Butcher.

Chung Woo Suh, Minneapolis

B.A. '63, Yonsei University; M.A. '67, University of Minnesota. Major: Mass Communication. Minor: Supporting Field. Thesis: The Socio-Professional Aspects of Foreign Correspondence in the U.S.: A Study of International Communication. Major Adviser: Prof. R. B. Nixon.

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B.S.F. '64, University of Montana; M.S. '68, University of Minnesota. Major: Plant Pathology. Minor: Plant Physiology. Thesis: The Ultrastructure of the Eastern Dwarf Mistletoe (*Arceuthobium Pusillum* Peck). Major Adviser: Prof. D. W. French.

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B.S. '66, Colorado School of Mines. Major: Chemical Engineering. Minor: Supporting Field. Thesis: Effects of Crystallographic Anisotropy on Chemisorption. Major Adviser: Prof. L. D. Schmidt.

Clayton Howard Tiede, Mankato

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B.A. *cum laude* '65, University of Minnesota, Duluth; M.S. '69, University of Minnesota. Major: Biochemistry. Minor: Microbiology. Thesis: The Regulation of Pyruvic Kinase in *Bacillus licheniformis*. Major Adviser: Prof. R. W. Bernlohr.

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William Downing Watson, Jr.,
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B.A. '64, Colorado State College; M.A. '65, Syracuse University. Major: Economics. Minor: Supporting Field. Thesis: Costs of Air Pollution Control in the Coal-Fired Electric Power Industry. Major Adviser: Prof. H. D. Mohring.

James Lee Weatherby, Jr., Dallas,
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B.A. '64, M.S. '66, Texas A & M University. Major: Economics. Minor: Supporting Field. Thesis: The Gross Demand Impact of the Federal Sector: Measurement and Implications. Major Adviser: Prof. J. M. Henderson.

Robert Joseph Wickenheiser, Bis-
marck, N.D.

B.A. *summa cum laude* '65, St. Benedict's College; M.A. '69, University of Minnesota. Major: English. Minor: Latin. Thesis: A Study of George Herbert's Latin Poems and Their Relationship to His English Poems. Major Adviser: Prof. L. H. Unger.

Steve John Wiersma, Brookings, S.D.

B.S. '67, Northwestern University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Spontaneous Explosion Limits of Chlorine-Fluorine Mixtures. Major Adviser: Prof. E. A. Fletcher.

David James Wilson, Winnipeg,
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B.S. '64, University of Manitoba; M.S. '67, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: An Experimental Investigation of the Velocity, Temperature and Turbulence Fields in Plane and Curved Two-Dimensional Wall Jets: Coanda Effect. Major Adviser: Prof. R. J. Goldstein.

John Arthur Winnie, Albany, N.Y.

B.A. '62, State University of New York. Major: Philosophy. Minor: Supporting Field. Thesis: A Formal Theory of Propositions. Major Adviser: Prof. Herbert Feigl.

Carrol Herbert Woodworth, Alexandria

B.A. '62, Carleton College. Major: Psychology. Minor: Supporting Field. Thesis: Attack Elicited in Rats by Electrical Stimulation of the Lateral Hypothalamus. Major Adviser: Prof. W. W. Roberts.

Chang-Koo Yun, Seoul, Korea

B.S. '63, Seoul National University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Transport Phenomena in Anisotropic Liquid Crystals. Major Adviser: Prof. A. G. Fredrickson.

John Paul Zdechlik, Minneapolis

B.S. '60, M.A. '64, University of Minnesota. Major: Music. Minor: Music Education. Thesis: Four Pieces for Orchestra. I. Andante. II. Allegro. III. Adagio. IV. Moderato-Allegro. Major Adviser: Prof. Paul Fetler.

Richard John Zeyen, North Mankato

B.S. '65, M.S. '67, Mankato State College. Major: Plant Pathology. Minor: Plant Physiology. Thesis: Histology and Ultrastructure of *Avena sativa* L. Infected With the Oat Blue Dwarf Virus. Major Adviser: Prof. E. C. Banttari.

Doctor of Philosophy in Medicine

Stanley Morris Cassan, Rochester

M.D. '62, McGill University. Major: Medicine. Minor: Pathology. Thesis: Fine Structural Morphometry of Diffuse Lung Diseases Associated with Abnormal Gas Diffusion. Major Adviser: Dr. A. L. Brown.

Doctor of Philosophy in Psychiatry

Joseph John Westermeyer, St. Paul

M.D. '61, M.A. '69, University of Minnesota. Major: Psychiatry. Minor: Anthropology. Thesis: Alcohol Related Problems Among Ojibway People in Minnesota: A Social Psychiatry Study. Major Adviser: Prof. B. C. Schiele.

Master of Architecture

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Master of Arts

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Clive East Emanuel Simpson, Kingston, Jamaica

B.S.E.E. '66, University of Glasgow. Field of Concentration: Environmental Health. Major Adviser: Prof. G. S. Michaelsen.

Harry Robinson Smith, Minneapolis

B.S.B. '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. G. B. Davis.

Melvin Eugene Sunquist, Minneapolis

B.S. '65, University of Minnesota. Major: Wildlife. Minor: Ecology. Thesis: Winter Activity of Striped Skunks (*Mephitis mephitis*), East-Central Minnesota. Major Adviser: Prof. J. R. Tester.

Kim Hock Tan, Singapore

B.S. '64, Nanyang University. Major: Biochemistry. Minor: Physical Chemistry. Thesis: Enzymology in Aqueous-Organic Consolvent Binaries. Major Adviser: Prof. R. E. Lovrien.

Barbara Ann Volk, Rugby, N.D.

B.S.N. '66, Alverno College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. Isabel Harris.

Wayne Douglas Wesala, Minneapolis

B.A. '66, University of Minnesota. Field of Concentration: Food Science and Industries. Major Adviser: Prof. F. F. Busta.

Sharon Frances Wilson, Minneapolis

B.S. '63, Montana State University. Major: Home Economics. Minor: Sociology. Thesis: The Relationship of Fashion Leadership to Social Participation and Social Acceptance Among Adolescents. Major Adviser: Prof. Suzanne Davison.

Judith Livdahl Wulff, Naperville, Ill.

B.A. *magna cum laude* '68, St. Olaf College. Field of Concentration: Genetics. Major Adviser: Prof. F. D. Enfield.

Kiyoshi Yonehara, Kanazawa, Japan

B.S. '64, Kanazawa University. Major: Physical Chemistry. Minor: Inorganic Chemistry. Thesis: LEED Study of Hydrogen Adsorption on Tungsten (100). Major Adviser: Prof. L. D. Schmidt.

Hong-Jen Yu, Tainan, Taiwan

B.S. '67, National Taiwan University. Field of Concentration: Nutrition. Major Adviser: Prof. Robert Meade.

Master of Science in Anesthesiology

Khalid Abdus Sami, Hyderabad, India
M.B., B.S. '61, Osmania Medical College.
Major: Anesthesiology. Minor: Physiology.
Thesis: Changes in Pulmonary Extravascular
Fluid During Hypovolemic Shock. Major Ad-
viser: Dr. F. H. Van Bergen.

Master of Science in Chemical Engineering

Matias Perez, Venezuela
B.S.Ch.E. '67, Universidad de Oriente. Ma-
jor: Chemical Engineering. Minor: Mathe-
matics. Thesis: Calibration of a Split Flow
Impact Separator for Assessing Particle Size.
Major Adviser: Prof. W. E. Ranz.

Master of Science in Civil Engineering

Jasim Mohammad Alsaigh, Kuwait,
Kuwait

B.S. '68, University of Wisconsin. Field of
Concentration: Civil Engineering. Major Ad-
viser: Prof. P. P. Christiano.

Gloria Shepard McGregor, Minne-
apolis

B.S. '49, Washington State University. Field
of Concentration: Civil Engineering. Major
Adviser: Prof. J. E. Fant.

Nayan Kumar Basu, Calcutta, India

B.S. '57, B.E. '62, University of Calcutta.
Major: Civil Engineering. Minor: Agricultural
Engineering. Thesis: A Study of the Wave
Reflection Characteristics from a Semi-Per-
meable Vertical Face. Major Adviser: Prof.
A. G. Anderson.

Master of Science in Dermatology

Paul R. Vandersteen, Fargo, N.D.

M.D. '62, University of Minnesota. Major:
Dermatology. Minor: Related Field. Thesis:
Histochemistry and Electron Microscopy of
Ichthyosis and Related Conditions. Major Ad-
viser: Dr. S. A. Muller.

Master of Science in Electrical Engineering

Kasarabada Sachidananda Chalapatirao, Kakinada, India

B.Eng. '65, Indian Institute of Science. Field of Concentration: Electrical Engineering. Major Adviser: Prof. B. A. Shenoi.

Yu-Sheng Eugene Chang, Taipei, Taiwan

B.S.E. '67, Chen Kung University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Y. Kain.

Lish-Yann Chen, Hsinchu, Taiwan

B.S. '67, National Taiwan University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. T. S. Lee.

G. Gopalakrishna, Bangalore, India

B.E. '62, M.S. '63, Indian Institute of Science. Field of Concentration: Electrical Engineering. Major Adviser: Prof. Aldert van der Ziel.

Edward Arland Jenson, Pelican Rapids

B.E.E. with high distinction '69, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. V. D. Albertson.

Vinay Khanna, Beas, India

B.Tech., Indian Institute of Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: Time Compression of Speech by Selective Deletion. Major Adviser: Prof. J. H. Park.

David Leo McCall, St. Paul

B.E.E. with high distinction '66, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. K. S. P. Kumar.

Kuchibhotla Venkatachalapati Sastry, Gudivada, Andhra Pradesh, India

M.E. '68, Indian Institute of Technology. Field of Concentration: Electrical Engineering. Major Adviser: Prof. V. D. Albertson.

Leonardo Valdes Serrano, Quezon City, Philippines

B.S.E.E. *cum laude* '62, University of the Philippines. Field of Concentration: Electrical Engineering. Major Adviser: Prof. B. A. Shenoi.

Vijay Pal Singh, New Delhi, India

B.Tech. '68, Indian Institute of Technology. Field of Concentration: Electrical Engineering. Major Adviser: Prof. Allen Nussbaum.

Alexander Mackenzie Thompson III, Minneapolis

B.S. '68, Yale University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Simulation Model of the Institute of Technology, University of Minnesota. Major Adviser: Prof. F. N. Bailey.

Reid Bernard Tombers, Minneapolis

B.E.E. '68, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Investigation of Electrophoresis in Rare Gas Discharges. Major Adviser: Prof. L. M. Chanin.

Arthur George Wallner, Hutchinson

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

Niantu Nathanaul Wang, Szechuan, Taiwan

B.S. '67, National Taiwan University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. M. Waltz.

Master of Forestry

James Irvin Dienstl, Minocqua, Wis.

B.S. '63, Wisconsin State University. Field of Concentration: Forestry. Major Adviser: Prof. R. A. Skok.

Master of Science in Industrial Engineering

Madhukar Shyam Gupta, Chandigarh,
India

B.M.E. '64, Panjab University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Rafael Ibañez, Mexico City, Mexico

Ing. '68, University of Mexico. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. S. R. Arora.

Radhakrishna Gopal Iyengar, Bombay,
India

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

Subhash Chandra Rastogi, Baraut,
India

B.E. '68, University of Roorkee. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Master of Science in Mechanical Engineering

Jugal Kishore Agarwal, Bhadrak,
Orissa, India

B.S. '68, Ranchi University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. Liu.

David d'Alembert Ardayfio, Accra,
Ghana

B.S. '68, University of Science and Technology, Ghana. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. W. A. Kleinhenz.

Charles Arthur Baxter, Aurora

B.M.E. with distinction '69, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

Ram Parkash Bhatia, India

B.S. '64, Birla Institute of Technology. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. Fulton Holtby.

Shivshankar Somaji Burde, Nagpur,
India

B.E. '69, Nagpur University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. Liu.

Vinay Kumar Daga, India

B.S. '64, University of Calcutta; B.Tech. '67, Indian Institute of Technology. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. J. L. Threlkeld.

Gary Lee Drayton, Pelican Rapids

B.S.M.E. '67, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. E. A. Fletcher.

Michael Wayne Edenburn, Albuquerque,
N. Mex.

B.S.M.E. with distinction '69, University of New Mexico. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. E. M. Sparrow.

Ramesh Kumar Gupta, Ludhiana,
India

B.S. '64, Thapan Engineering College. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. K. T. Whitby.

Kenneth Timothy Heruth, Minneapolis

B.M.E. with distinction '67, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. E. A. Fletcher.

Hiromichi Miyazaki, Tokyo, Japan

B.S. '62, Tokyo Metropolitan University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Combined Free and Forced Convective Heat Transfer and Fluid Flow in Rotating Curved Tubes. Major Adviser: Prof. J. E. Anderson.

Sohan Lal Uppal, Allahabad, India

B.S. '63, M.E. '68, University of Allahabad. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

Ludo Verhavert, Edegem, Belgium

Tech. Ingen. '67, Higher Institute de Nayer, Belgium. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Simulation Study of the Dynamic Behavior of a Personalized Transit System. Major Adviser: Prof. J. E. Anderson.

Master of Science in Medicine

Walter Garland Edwards, Jr.,
Columbia, S.C.

M.D. '63, Medical College of South Carolina. Major: Medicine. Minor: Physiology. Thesis: The Measurement of Prostaglandins in Various Clinical and Pathological Situations and Their Relationship to the Renin-Angiotensin System. Major Adviser: Dr. J. C. Hunt.

Niklaus Thomas Lauper, Rochester

M.D. '59, University of Zurich. Major: Medicine. Minor: Pathology. Thesis: Pheochromocytoma: Correlation Between Clinical Features, Catecholamine-content and Morphology. An Electron-Microscopic Study. Major Adviser: Dr. S. G. Sheps.

Shean-ming Liu, Peking, China

B.M. '61, National Taiwan University. Major: Medicine. Minor: Pathology. Thesis: Physiological and Metabolic Response of the Heart to Carbon Dioxide. Major Adviser: Dr. C. S. Alexander.

Master of Science in Mineral Engineering

Charles George Johnson, New Castle,
Pa.

B.S. '69, University of Utah. Field of Concentration: Mineral Engineering. Major Adviser: Prof. E. P. Pfeleider.

Master of Science in Neurosurgery

Michael Emmett Carey, New Orleans,
La.

B.A. '56, Yale College; M.D. '60, Cornell University. Major: Neurosurgery. Minor: Microbiology. Thesis: The Antibiotic Era: Brain Abscesses in the University of Minnesota Hospitals, 1946-1965. Major Adviser: Dr. S. N. Chou.

Master of Science in Obstetrics and Gynecology

Jose Carlos Pacheco Romero, Lima,
Peru

M.D. '63, University of San Marcos. Major: Obstetrics and Gynecology. Minor: Microbiology. Thesis: Detection of Sperm Antibodies in Female Genital Tract Secretions. Major Adviser: Dr. D. G. Decker.

Master of Science in Otolaryngology

George Leo Kullman, Edmonton,
Alberta, Canada

M.D. '60, University of Alberta. Major: Otolaryngology. Minor: Anatomy. Thesis: Anatomical Study of the Role Played by the Chorda Tympani and Sheath of the Facial Nerve in the Etiology of Bell's Palsy. Major Adviser: Dr. D. T. R. Cody.

David Franklin Wilson, Lake Oswego,
Ore.

M.D. '63, State University of Iowa. Major: Otolaryngology. Minor: Pathology. Thesis: Incus Homografts in Cats. Major Adviser: Dr. D. T. R. Cody.

Master of Science in Pathology

Krishnan Unni Kolathur, Trichur,
India

M.B.B.S. '62, All India Institute of Medicine. Major: Pathology. Minor: Microbiology. Thesis: Study of Auto-Immune Hemolytic Anaemia and Kidney Disease in Conventional and Germ-free NZB Mice. Major Adviser: Dr. J. L. Titus.

Master of Science in Urology

Robert Allen Payne, Athens, Ga.

M.D. '63, Medical College of Georgia. Major: Urology. Minor: Pathology. Thesis: Placental Lactogen in Males. Major Adviser: Dr. L. F. Greene.

COLLEGE OF AGRICULTURE

Bachelor of Science

Arthur Dean Bakker, Hancock
David Jon Carlson, Benson
Glenn Kendall Carlson, Minneapolis
Joseph William Carpenter, Plainview
Steven Alan Christianson, Owatonna
Tracy Lee Close, Rochester
Raymond K. Gallett, Lakeville
Gary Allen Hachfeld, Faribault
Curtis Mark Heywood, Minneapolis
David Fred Johnson, Fridley
Robert Herman Keim, Spring Valley
William George Keim, A.A.,
Spring Valley
Paul Curtis Knutson, Albert Lea

Dennis Michael LaMothe, St. Paul
James Raymond Leick, A.A., White
Bear Lake
Ronald Larry Morreim, Albert Lea
James Allen Nelson, Mora
Gary Robert Redalen, A.A., Fountain
Stephen Sylvester Rutz, Minneapolis
David Carl Scholz, Newport
Larry William Schwie, Wayzata
Gary Marvin Steuart, B.S., Deer
Creek
James Leroy Swanson, Russell
Roger Lawrence Van Valkenburg,
Long Prairie

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Joseph Miles Desmarais, Buffalo
Robert Harold Neal, Lake Crystal

Thomas Carl Wittnebel, Nassau

COLLEGE OF AGRICULTURE AND COLLEGE OF EDUCATION

Bachelor of Science

Gerald Ralph Ausmus, Pine City,
WITH DISTINCTION
Richard Harold Baumann, New
Prague

Richard Lee Bonde, Ivanhoe, WITH
HIGH DISTINCTION

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

James Leroy Bickel, Fairmont
Perry Justin Blackshear, Mahtomedi,
SUMMA CUM LAUDE, Biology
James Robert Driscoll, St. Paul
Bryan Ralph Higgins, Savanna, Ill.,
CUM LAUDE, Biology
Robert Dale Hoffman, Mankato,
CUM LAUDE, Biology

Ellis Sturman Nolley III, Baltimore,
Md.
Carol Jean Syring, St. Paul
Lois Catherine Tack, Dawson, CUM
LAUDE, Biochemistry

SCHOOL OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Keith Eugene Ackert, St. Paul
Donald Wayne Allison, Minneapolis
Charles Kelley Baxter, Duluth, WITH
DISTINCTION
William Robert Belford, Richfield
Alan Richard Birk, Duluth
Dennis Duane Boettcher, Lindstrom
Curtis Arthur Boltman, Hopkins
Jeffrey Alan Bowen, Minneapolis
Dale Frank Boyd, St. Paul

Paul Everett Brunelle, Minneapolis
Gregg Kermit Carlson, Lindstrom
Harvey Anthony Chichester, Min-
neapolis
James Robert Clare, St. Paul
Peter Leighton Clemens, Minneapolis
Leslie Norman Cole, Mora
Arlan Clinton Dalager, A.A.,
Greenbush
Richard James Davern, St. Paul

C. William Dawson, Seattle, Wash.,
WITH DISTINCTION

James Thomas Deusterhoff, Minne-
apolis

Richard Chester Eklund, St. Paul

Ronald Hugh Farrow, A.A., Anoka

Ronald Fingerhut, Minneapolis

Aaron Lee Flatgard, New Brighton

Roger A. Folta, Minneapolis, WITH
DISTINCTION

Glen Fredric Fuerstneau, Minneapolis

James Joseph Gabriel, St. Paul

Fred Charles Gedelman, Minneapolis

Stephen K. Goldstone, St. Louis Park

Loren Arthur Hanson, Robbinsdale

William George Hendrickson, Red
Wing

Richard Michael Hetland, St. Paul

Jack Erwin Hill, Minneapolis

James Francis Hill, Hopkins

Carol Jane Hoeft, Edina

Gerald Allen Holm, Minneapolis

Michael Lloyd Holmgren, Litchfield

Walter Vernon Hughes, Minneapolis

Narendra N. Kirpalani, Hong Kong

Roland Benjamin Knapton, A.A.,
Fridley

Gerald William Knudson, Grand
Rapids

Gary Duane Kramer, Minneapolis

Juris Raimonds Krustans, Minne-
apolis

David John Lanford, Minneapolis

Nancy Lucile Lee, A.A., Fergus Falls

Stephen John Mages, Morton

Scott W. Merrill, Minneapolis

William John Mitzo, Edina

David Eugene Mohn, Austin, WITH
DISTINCTION

Allen Charles Moltz, Austin

James Allan Monson, LeSueur

Richard Timothy Monson, LeSueur

Larry Viggo Monssen, Minneapolis

John Alfred Muller, B.A., North
St. Paul

Donald LeRoy Myers, Minneapolis,
WITH HIGH DISTINCTION

Robert LeRoy Naefke, Jr., Minne-
apolis

Mark Abbot Oas, Minneapolis

Gregory Paul Olsen, Coon Rapids

Bruce William Olson, St. Paul

Kent Allen Paulsen, Minneapolis

Robert Stewart Peterson, Duluth

Ronald Len Peterson, Ogilvie

James Richard Pichner, Owatonna

Gary Lee Redmann, Anoka

Stuart L. Rosemurgy, Wausau, Wis.

Peter Anthony Schoengart, Richfield

Richard Martin Sewich, Minneapolis

Michael David Shaughnessy, Minne-
apolis

Robert William Singewald, Savage

Peter Michael Stanek, Minneapolis

Philip Luverne Strege, Minneapolis,
WITH DISTINCTION

Richard Lee Taylor, Minneapolis,
WITH DISTINCTION

Jeffrey Russell Thomas, Minneapolis

James Hage Thompson, Minneapolis

Paul Adrian Tschida, St. Paul

David Lawrence Vadis, Minneapolis

David Alton Waage, Minneapolis

Victor Walsovich, Minneapolis

George William Weimer, St. Paul

Thomas Eugene Wiedell, St. Paul

Mark Edward Willey, Mountain Iron

Patrick Morris Witherow, Minne-
apolis, WITH DISTINCTION

Stephen Lloyd Wyard, Edina

SCHOOL OF DENTISTRY

Bachelor of Science

Steven John Poeschl, Minneapolis

Doctor of Dental Surgery

Bruce Arthur Berntson, B.A.,
Minneapolis

Robert James Michelich, B.S.,
Keewatin

COLLEGE OF EDUCATION

Bachelor of Science

Sharon Lenore Albrecht, New Ulm
Michael Duane Allison, Morton
Cheryl Ann Anderson, Minneapolis
Corliss Faye Anderson, Mankato
Douglas John Anderson, Minneapolis,
WITH DISTINCTION

Linda Marie Anderson, Salem, S.D.,
WITH DISTINCTION

Mae Shaw Anderson, St. Paul, WITH
DISTINCTION

Nancy Fleurette Anderson, A.A.,
Bloomington

Patricia Ann Busby Anderson, Hitter-
dal

Sherrill Shawn Anderson, Grand
Marais

Julie Ann Archer, A.L.A., Minne-
apolis, WITH DISTINCTION

Karen Louise Balmer, Kenosha, Wis.,
WITH HIGH DISTINCTION

Susan Jane Bargabus, Fridley
Adrienne Bennet Barnard, Minne-
apolis, WITH DISTINCTION

Linda Linnell Baum, New Brighton

Rita Marie Baumgardner, Williams

Karonne Jean Becklin, Blackduck

Stanley Jon Berry, Wayzata

James Mervin Besonen, Hopkins

Sandra Gail Blumenfeld, Minne-
apolis

Mila Anthonie Born, Chaska, WITH
DISTINCTION

Jacqueline Ann Bray, Minneapolis

Frances G. Buen, Crystal

Charles Scott Burnham, White Bear
Lake, WITH DISTINCTION

Richard Arthur Byrne, B.A., Min-
neapolis

Jimmy Richard Carlson, Minneapolis,
WITH DISTINCTION

Diane Frances Carroll, Minneapolis

Roger John Chlebecsek, A.A., Min-
neapolis

Norma Smith Christopher, Min-
neapolis

Marie E. K. Clarke, B.A., Austin

Howard Roy Cleveland, Bloomington

Mary Margaret Clough, Minneapolis

Charles Roger Davidson, Rochester

Constance Hoyt Dawson, B.S., Min-
neapolis, WITH HIGH DISTINCTION

Joanne Mary Duggan, St. Paul, WITH
DISTINCTION

Susan Ilene Durrant, St. Paul, WITH
DISTINCTION

Gerald Leonard Eklin, A.A., Min-
neapolis

Joan Platz Elstad, Brooklyn Park,
WITH DISTINCTION

Mary Alice Ericksen, St. Paul

Claudia Marie Faaberg, Minneapolis

Sharon Cecilia Feierer, Austin, WITH
HIGH DISTINCTION

Michael Alan Firlie, A.A., Sleepy Eye

Linda Lorayne Forsberg, St. Paul

Judith Kay Gabrielson, Minneapolis

Judith Ann Galletto, Hibbing

Jane Barbara Gathje, Stewartville

Marsha Ann Chernoff Golob,
St. Louis Park

Mary Carol Maki Govrik, St. Paul,
WITH DISTINCTION

Barbara Lee Greenberg, St. Paul

Jane Adair Groff, Minneapolis, WITH
DISTINCTION

Grace Ann Guemple, Minneapolis,
WITH DISTINCTION

Peggy Ann Haas, Minneapolis

Nancy Jo Haley, B.A., St. Paul

Barbara Gail Hall, Minneapolis

Pamela Harris, Minneapolis

Laurel Rath Havrilak, Minneapolis

Vicki Lynn Hill, Roseville
 Mary Josephine Hoch, Minneapolis,
 WITH DISTINCTION
 Roger Louis Hogen, St. Paul
 James Edward Hogin, A.A., Minne-
 apolis, WITH DISTINCTION
 Mary Louise Honaas, Edina
 Carol Jean Horazdovsky, St. Paul
 Gregory Arnold Hughes, St. Paul
 Dale Franklin Icenogle, Minneapolis,
 WITH HIGH DISTINCTION
 Kathlyn Rae Iverson, Mound
 Bruce LeRoy Johnson, Richfield
 Louise Marilyn Johnson, B.A.,
 Burnsville, WITH DISTINCTION
 Phylliss Ann Kantar, Minneapolis
 Jerome Jay Karau, B.A., Deer River
 Nancy Louise Karbo, Bloomington
 Joyce Adeline Kandoll Karnes, Grays
 River, Wash., WITH DISTINCTION
 Susan Stevens Kidder, Minneapolis
 Lynn Marie Small Knapp, Lowden,
 Wash., WITH HIGH DISTINCTION
 Carol Jean Kozak, Minneapolis
 Bonita Marie Kozub, Minneapolis,
 WITH DISTINCTION
 Toyse Ann Kyle, A.A., Minneapolis
 Doris Marion Larson, St. Paul
 Lenora Fausett Lewer, Stillwater,
 WITH DISTINCTION
 Charlene Mary Lien, Burnsville,
 WITH DISTINCTION
 Melinda Elizabeth Lindgren, Minne-
 apolis, WITH HIGH DISTINCTION
 Sandra Virginia Lindquist, New Hope,
 WITH DISTINCTION
 Nancy Lee Lindstrand, Bloomington
 Donna Jean Ling, Minneapolis
 James John Loscheider, Eden Prairie
 Kim Elizabeth Lundquist, Richfield
 Kathleen Keating Lynard, A.L.A.,
 Minneapolis
 Cindy Mae Mackay, St. Paul, WITH
 DISTINCTION
 Gwen Hall Martinson, Minneapolis,
 WITH DISTINCTION
 Gloria Jean Massey, St. Paul
 Michael Joseph McKasy, Edina
 Terry Lou Mellberg, Golden Valley
 Karen Joyce Menier, St. Paul
 Sandra Rae Meyers, Rochester

Diane Catherine Morrow, Minne-
 apolis
 Louise Lana Mark Moss, Minneapolis
 Mary Beth Moyer, Duluth
 Kathleen Murphy, St. Paul
 Mary Beth Nash, Minnetonka
 Bruce Irwin Nelson, A.A., Minne-
 apolis
 Michael John Ness, St. Paul
 Darrell Andrew Norrgard, Bloom-
 ington
 Nancy Kathleen Nugent, A.A., Min-
 neapolis
 Lesley Seekins Nystrom, Jamestown,
 N.D.
 Nancy Ellen Oehrle, Minneapolis,
 WITH DISTINCTION
 Pamela JoAnne Olsen, Minneapolis
 Kathleen Ann Olson, Fridley, WITH
 DISTINCTION
 Diane Hintz Osterman, St. Paul,
 WITH DISTINCTION
 Akimi Uyeoka Oyanagi, B.A., St. Paul,
 WITH HIGH DISTINCTION
 Anthony James Pahula, Buhl
 Marlene Jeanne Peltier, Minneapolis,
 WITH DISTINCTION
 Gerald Herbert Peterson, Minneapolis,
 WITH DISTINCTION
 Darlene Mae Petri, Minneapolis
 Marilyn Lee Rech, Inver Grove
 Heights
 Janell Cherie Redel, Montevideo
 Linda Helene Reiss, Philadelphia, Pa.
 Linda Louann Rhody, Minneapolis
 Mary Kaye Rohde, Rice Lake, Wis.,
 WITH DISTINCTION
 Frances Marian Rosenow, Minne-
 apolis
 Richard Thomas Roufs, B.A., Win-
 sted, WITH DISTINCTION
 David Theodore Rudser, Brooklyn
 Center
 Robert Timothy Rush, St. Louis
 Park, WITH DISTINCTION
 Faye Eleanor Rustad, Minneapolis
 Ingrid Elaine Saltvold, Richfield,
 WITH DISTINCTION
 Carolyn Marie Saunders, New Hope
 Robert James Schnietz, St. Louis, Mo.

Lynn Marlene Schwaiger, Hazel Crest, Ill.

Marjorie Elizabeth Serr, Minneapolis, WITH DISTINCTION

Jane Aronson Shepard, B.A., Edina

Kathleen Claire Simmer, St. Paul

Dennis Truman Smith, A.L.A., Minneapolis

Moureen Catherine Smith, Worthington

Jean Lura Sonstegard, Paynesville

Linda Lee Sothman, Glencoe, WITH DISTINCTION

Patricia Lea Staupé, Preston

Debra Louise Steelhammer, Victoria, Tex., WITH DISTINCTION

Louise Lefren Steiner, B.A., St. Paul, WITH HIGH DISTINCTION

Sharon Weitzel Sterry, Bloomington, WITH DISTINCTION

Nancy Jane Stevenson, Minneapolis

Mary Margaret Sullivan, Morton, WITH DISTINCTION

Patricia Ann Emerson Swanson, Minneapolis

Marilyn Jane Taylor, Minneapolis

Kathleen Mary Timming, Minneapolis, WITH DISTINCTION

Ione Lenore Tollefson, B.A., Minneapolis

Gloria Jean Tonskemper, Minneapolis

Dennis Toskas, B.A., Minneapolis

Cynthia Ann Vars, St. Paul

Carolyn Jean Vigum, Ostrander

Richard Eugene Weber, B.A., St. Paul

James George Wedell, Minneapolis

Karita Banal Wienke, Hibbing, WITH DISTINCTION

John Steven Wintermute, La Grange, Ill.

Linda Elizabeth Livingston Wintermute, A.A., La Grange, Ill.

Patricia Rose O'Bannon Wright, Pillager, WITH HIGH DISTINCTION

Master of Education

Peter Aguilar, B.S., Minneapolis

Charlene Janet Dannheim, B.S., New Ulm

Michael Jon Larson, B.S., Minnetonka

Melvin Leroy Northway, B.S., Minneapolis

John Bruce Stephens, B.S., Richfield

COLLEGE OF FORESTRY

Bachelor of Science

John Leo Adams, Little Falls

Bruce Clarence Anderson, Minneapolis

Kim Alan Elverum, St. Louis Park, WITH DISTINCTION

Thomas Anthony Fink, Delano

Richard Allen Frick, Northlake, Ill.

Gary Steven Glass, A.A., Crystal

Karl Hugo Hagglund, Angora

William Fredrick Hamlin, Crosslake

Roger Dennis Howard, A.A., Aitkin

Charles Raymond Kenow, St. Paul

David Lee Leinon, A.A., Iron Belt, Wis.

John E. Luoma, Virginia, WITH HIGH DISTINCTION

Robert Arthur Maki, Cromwell

David J. Martodam, Grand Rapids

Joseph Roy Mehrkens, Edina, WITH DISTINCTION

Bruce Michael Niss, Duluth

Danny Leroy Norberg, Braham

Roger Crosby Richards, Minneapolis

Sandra Lea Richert, Lake Elmo

John Allan Skurdalsvold, Mora

Jerry Joseph Smith, Richfield

David Paul Snyder, North St. Paul

Robert W. Stichman, Brooklyn Park

Robert Paul Von Rueden, Hinckley

Charles Matthew Whitmore, Richfield

Henry Peter Wisnewski, Hurley, Wis.

GENERAL COLLEGE

Associate in Arts

Renee Allen, Minneapolis
Robert Keith Anderson, St. Paul
Judith Carol Bateman, St. Paul
Russell Eugene Belk, Minneapolis
Jean Elizabeth Bergal, St. Paul
Arlene Sandra Bernick, St. Paul
Bruce Jerome Berry, Minneapolis
David Edward Betlock, Wayzata
Mary Ellen Blecker, Milwaukee, Wis.
Matthew Charles Brockway, St. Paul
James Louis Burg, St. Paul
Lawrence Joseph Burke, Minneapolis
Carol Lee Cell, St. Louis Park
Paul Erling Christensen, Askov
Edward Jerome Cirkl, Jr., Minneapolis
Sharon Rene Corson, St. Paul
Robert Joseph Davis, St. Paul
David Allen Dehn, St. Paul
Patricia Ann Dorso, Minneapolis
Jerry Eugene Douglas, St. Paul
Timothy James Dreis, Edina
Thomas James Eagan, Minneapolis
Germaine Sherry Epstein, Minneapolis
Charles William Estes, St. Paul
James John Feckey, St. Paul
Andre Fentress, St. Paul
James Leo Fleetham, Minneapolis
Steven Lee Folkestad, Wayzata
Doreen Rene Frackman, Jasper
Joseph Francis Frank, Minneapolis
James Leonard Franko, Robbinsdale
Richard Ira Friede, Golden Valley
Allan Ladd Gallaway, St. Paul
William A. Galle, Minneapolis
Patricia Louise Gates, St. Paul
James Patrick Gibbons, St. Paul
Stephen Russell Golden, St. Paul
Gail Idele Greenspoon, Minneapolis
Michael Joseph Griesgraber, St. Paul
John Gordon Griffin, Rochester
Nancy Jay Hagen, Mound
Roy Carl Hall, Brook Park
Sandra Diane Ham, Oakland, Calif.
Curtis Michael Hendrickson, Hopkins
Greg Stuart Henry, St. Paul
James Fredrick Hibbard, Alexandria
Jerold Lee Hildre, Minneapolis
Robert Earl Howard, St. Paul
Alan Phillip Howie, Forest Lake
Eugene Irvin Johnson, St. Paul
Richard Patrick Jones, St. Paul
Linda Darnell Kelley, Minneapolis
Bruce Wayne Krejci, Blooming
Prairie
Martin Howard Kvasnik, St. Louis
Park
John Paul Larson, Minneapolis
Darlene Ann Lessman, St. Paul
Phyllis A. Lichterman, Minneapolis
Jeffrey Marc Liss, St. Louis Park
Vernon Louis Livingston, Minne-
apolis
Thomas Robert Londo, Annandale
Anthony Earl Luciw, Minneapolis
Jon Edward Lund, Minneapolis
John Peter Lunden, Minneapolis
Laurence Raymond Lunden, Jr.,
Minneapolis
Patricia Marie Magnan, Brainerd
James Winslow Marshall, Minneapolis
Melanie Spencer Martin, Minneapolis
Arthur Frederick Maxwell, Minne-
apolis
Frank Jerome Mazurkiewicz, St. Paul
Michael Thomas McAndrews, Min-
neapolis
Joanne Carol McCall, Minneapolis
Stephen Bruce McComb, Bloom-
ington
Bonnie Jean McGowan, Robbinsdale
Dale F. McNellis, Glencoe
James Michael Menne, Neillsville,
Wis.
Mary Jane Merriam, Minneapolis
Arthur Earl Merrifield, Rosemount
Nancy Ann Meyers, Rochester
Robert Raymond Miskowicz, Minne-
apolis
David Knowlton Moden, Minne-
apolis
Terrance Joseph Moses, Minneapolis
Roger Arvid Nelsen, Minneapolis
Allan William Neuman, Minneapolis

Ronald Edward Newquist, Minneapolis
Frank John Nixon, Minneapolis
Helmut Karl Novecki, St. Paul
Dennis John Oestreich, Eden Prairie
Darryll Lynn Olson, St. Paul
Ronald Lee Olson, Minneapolis
Linda Christine Palmer, Hopkins
Dale Maxwell Peacock, Minneapolis
Michael Jerrold Pearlman, St. Paul
Mark Roberts Peterson, Minneapolis
Robert Charles Racine, Brooklyn Park
Monica Lee Ramstad, St. Paul
Thomas Nelson Reed, Minneapolis
Paul Anthony Ries, St. Paul
Michael Raymond Rochford II,
St. Paul
Gregory Dean Rosendahl, Hopkins
Carl Milan Runke, Hutchinson
Patrick James Ryan, White Bear Lake
John Gregory Rykken, St. Paul
Phyllis Ann Ryti, Minneapolis
Charles Thomas Schmeidel, St. Louis
Park
Dale Michael Schmidt, St. Paul
Richard Allen Schmidt, St. Paul
Loren Joseph Schomaker, St. Paul
Richard Mark Schwartz, Minneapolis
Roberta Susan Selnick, Minneapolis
John Joseph Simpson, St. Paul
Stephen Arnold Skaar, Minneapolis

Darrell Francis Smith, St. Paul
Kenneth Thomas Solberg, Minneapolis
Rodney Duane Spangberg, Minneapolis
Michael Edward Spreigl, St. Paul
Lyle Gordon Springer, Breckenridge
Bradley Duane Stoesz, Madelia
James Walter Stordahl, Walker
Kathy Jean Stupca, Roseville
Carol Ann Sularz, Minneapolis
John Leonard Swanson, St. Paul
Ronald Wayland Swenson, Minneapolis
Harold William Troup, Minneapolis
Carol Louise Vanderpool, Minneapolis
Keith Brent Waataja, Mound
Dennis Dean Wainstock, St. Louis
Park
Darrel Elmer Walters, Richfield
Ralph Charles Weber, North St. Paul
James Brian Weir, Minneapolis
Russell Thomas Welander, Minneapolis
Deborah Denae Wettergren, St. Peter
Kathryn Grace Wicklund, St. Paul
Yvonne Susan Wright, Carlisle,
Mass.
Wendy Christine Wyatt, Edina
Daniel Clifford Zipf, Bloomington

GENERAL EXTENSION DIVISION

Accounting Certificate

Terry Lynn Talley, St. Louis Park

Business Administration Certificate

James Dee Cook, Minneapolis
Robert Jesse Eaton, Minneapolis
Wayne Martin Nelson, Hopkins

Gary Richard Sparr, St. Paul
Terry Lynn Talley, St. Louis Park

Electrical Engineering Technician Certificate

Richard John Rymarchick, Minneapolis

Engineering Science Certificate

Douglas Rodney McArthur, Coon Rapids

General Engineering Certificate

Henry Kazumi Makino, Minneapolis

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Candice Jean Amlee, St. Paul
Judith Renae Bauer, Hill City
Anne-Liis Baunis, Minneapolis
Kari Ellen Boyum, Battle Lake
Barbara Lynn Clausen, Fairmont,
WITH DISTINCTION

Jerelynn Lee Emerson, St. Paul
Janet Louise Evans, Rapid City, S.D.
Kay Louise Franzen, Minneapolis,
WITH HIGH DISTINCTION

Kathryn Linda Glessing, Cokato
Suzanne Kay Heffelfinger, Minne-
apolis

Joan Elizabeth Huey, Rochester
Karen Elaine Iblings, Brownsdale
Nancy Lee Jacobson, Richfield
Maureen Dae Johnson, Richfield,
WITH DISTINCTION

Onnolee Louise Karwoski, Scandia
Machelle Arletta Kluver, Villard,

WITH DISTINCTION

Sandra Kay Langhans, Minneapolis
Marilyn Johnson Leo, Minneapolis,

WITH DISTINCTION

Linda Kay O'Neal, White Bear Lake
Barbara Jean Peterson, Minneapolis
Sherrie Lou Schramm, Early, Iowa
Diane Lynne Shoemaker, St. Paul
Thomas Clair Sunde, Stewart
Karol Ann Thunstedt, Klamath Falls,
Ore.

Ilze Ogita Tomsevics, Isanti
Susan Ann Welcome, Welcome
Mary Ellen Wold, South St. Paul

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Jacqueline Joan Hayes, Fridley, WITH
DISTINCTION
Susan Ann Rudolph, St. Paul, WITH
DISTINCTION

Sally Jean Sateren, Montevideo
Janice Ann Drippner Sunde,
Hutchinson
Karen Sue Twedten, Minneapolis

LAW SCHOOL

Juris Doctor

Robert Paul Abdo, B.A., Minneapolis
David Henry Gregerson, B.A., Minneapolis
Paul Marshall Heim, B.A., Minneapolis

Lawrence Paul Marofsky, B.A., Minneapolis
Robert Marks Spector, B.A., Chisholm

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Paul Douglas Armour, West St. Paul
James Vance Barry, Brainerd
Joanne Carol Eklund, Minneapolis
Susan Marie Koltjes, New Hope

Peter Francis Milloy, St. Paul
Carole Marie Nelson, Minneapolis
Ruth Ella Noyed, New Brighton
John Raymond Siverson, Minneapolis

Bachelor of Arts

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

Richard James Abdo, A.A., Minneapolis
Robert Vernon Abel, Excelsior
Jean Roberta Abramson, Worthington
Charles Edward Ackland, Minneapolis
Stephen James Adams, Minneapolis
Gary F. Albright, Glencoe
Avis Benita Alch, Minneapolis
Edmund Pratt Allen III, Minnetonka
Gregg Andrew Almquist, Minneapolis
Kathleen Ann Althoff, Cannon Falls
Toby Jean Amsel, Minneapolis
Patricia Sue Anderson, St. Louis Park
Jeanne Annette Andre, Minneapolis
Richard Earl Angel, Minneapolis
Betty L. Arbogast, St. Paul
Julie Ann Archer, A.L.A., Minneapolis
Steven Chester Aronson, Stillwater
Thomas Edward Auger, Dilworth
Martin Jerome Bach, Minneapolis
James Nolan Bachrach, Faribault

Lynn Sandra Baker, St. Paul,
SUMMA CUM LAUDE, Humanities
Peter Martin Baltuff, Minneapolis
Thomas Joseph Barbeau, Golden Valley
Mary Barnett, St. Cloud
Jeffrey Farrel Bassin, St. Louis Park
Sonia Lea Beck, Minneapolis
Timothy William Bellows, St. Paul,
CUM LAUDE, Economics
Michael Dennis Berg, Minneapolis
Theodore Martin Berman, Minneapolis, CUM LAUDE, Mathematics
Thomas Warren Bidgood, Ironwood, Mich.
Calvin Barry Boomer, Minneapolis
Sally Kay Bordwell, Evanston, Ill.
Stephen John Borotz, St. Paul
Gerald Scott Bostrom, Minneapolis
Sharon Marie Bovie, Minneapolis
Thomas Steven Britz, North Branch
Frederick Alan Brokken, Harmony
Kathleen Dorothy Bruss, Minneapolis
Marie Juneau Burkhardt, Brooks

Glynis Miriam Burns, St. Paul
 Robert Lee Burton, Columbia Heights
 Judith Anne Carey, West St. Paul
 Richard Thomas Carraher, Minneapolis, CUM LAUDE, Economics
 David Milton Chamberlain, Minneapolis
 Harvey Joe Chargo, Willmar
 Harvey Anthony Chichester, Minneapolis
 Deborah Ann Claesgens, St. Paul
 Kathleen Ann Clarkin, Minneapolis
 Brooks Ann DeMars, White Bear Lake
 Garret Polhemus DeMott III, Minneapolis
 John Armen Desteian, Minneapolis
 Colleen Ann Dominick, Minneapolis
 Lynn George Donohue, St. Paul
 Michael Von Dotson, Chicago, Ill.
 William Stephen Drake, Sunnyvale, Calif.
 Fred Elmer Draper, Minneapolis
 Mary Joan Driscoll, Richfield
 Robert John Duderio, A.A., St. Paul
 Thomas Alan Eckman, Minneapolis
 Paul Eugene Rude Edgington, A.A., Minneapolis
 Reed James Edstrom, Bloomington
 Matthew Anthony Eich, A.L.A., Minneapolis
 Dale Robert Ellickson, LaCrosse, Wis.
 Mary Jo Ellis, St. Paul
 Jeffre L. Farni, Minneapolis
 Sharon Cecilia Feierer, Austin, SUMMA CUM LAUDE, English
 Judith Marie Ferguson, A.L.A., Minneapolis
 Bruce Jay Fine, St. Paul
 George Gregory Finley, St. Paul
 Michael Lowell Foster, Minneapolis
 Jeremy Lowell Frank, Minneapolis
 Tamara Gae Fredrickson, Cannon Falls
 Carla Maria Terese Freeman, Lakeville
 Shelley Ann Friedman, St. Louis Park
 Charles Gerald Frisch, Virginia
 Roger Alan Fritz, Richfield
 John David Fryhofer, St. Paul
 Thomas Michael Gaetz, Forest Lake
 Stephen Charles Geer, Minneapolis
 Dana Wickham George, Richfield
 Ronald John Geslin, Minneapolis
 Thomas Cain Gillespie, Cloquet
 Robert Michael Godava, Minneapolis
 Edith Frances Godfrey, Minneapolis, MAGNA CUM LAUDE, Interdepartmental
 Gaynal Lee Goodlund, Minneapolis
 Douglas Robert Goodman, Mandeville, Jamaica, CUM LAUDE, History
 Kevin Thomas Gornley, Edina
 Rebecca June Horak Graff, Worthington
 Edwin Flipper Griffin, Detroit, Mich.
 Jane Bergquist Griffin, Edina
 Sheila Agnes Griffin, A.A., Rochester
 Shirley Ann Gronfield, A.A., Minneapolis
 David Ellis Grover, Aitkin
 Lawrence Walter Grubryn, Minneapolis
 Phyllis Lee Gruenhagen, South St. Paul, MAGNA CUM LAUDE, Psychology
 Linda Louise Grupp, St. Paul
 Carol Elizabeth Gupta, St. Paul
 Bonnie Annette Gustafson, Robbinsdale
 Gerald Allen Gustafson, Fergus Falls
 Michael Ray Haehn, Minneapolis
 Randall Bruce Haglund, Glasgow, Mont.
 Janet Searing Hall, St. Paul
 Michael Andrew Halley, Minneapolis
 Barbara Lynn Halper, St. Paul
 Kay Elizabeth Halvorson, St. Paul, MAGNA CUM LAUDE, Social Welfare
 Bruce William Hansberger, Worthington
 Clark Bradley Hansen, Minneapolis
 Joan Marie Merrill Hanson, Minneapolis
 James Beyer Harmon, Edina
 Thomas James Harrier, Minneapolis
 Mark William Harrison, Mound
 Andrea Marie Hedin, Minneapolis
 Julie Marie Heilig, Edina
 Gary Curtis Hemp, New Brighton

Dianne Louise Herman, North Muskegon, Mich.
 Jean Elizabeth Hezzelwood, St. Paul
 Ronald Frederick Hildeen, Minneapolis
 Jean Marilyn Hillman, Minneapolis
 James Derald Hoffman, Brainerd
 Jeffrey Robert Hohman, Minneapolis
 Edward Lee Holloway, Jr., Brooklyn Center
 Barbara Jean Hoos, Minneapolis
 Thomas Ralph Hopp, St. Paul
 Robert Douglas Horn, Fairmont
 Alfred James House, Edina
 John Wayne Huffman, Lakeville
 Pauline Ann Hull, Minneapolis
 Timothy Merle Hultmann, St. Louis Park
 Mary Margaret Iacono, Minneapolis
 Vikki Kay Jacobson, Minneapolis
 Christine Nancy Jensen, St. Paul
 Mary Lucy Johnson, Grand Rapids
 Susan Elizabeth Johnsrud, Minneapolis
 Jacqueline Jones, St. Paul
 Kenton Michael Jones, Minneapolis
 Michael Bruce Jones, Omaha, Neb.
 Thomas Stephen Jones, Edina
 Shelley Margaret Joseph, Minneapolis
 Thomas Michael Judge, Minneapolis
 Thomas William Junnila, Grand Rapids
 Jeanne Marie Katz, St. Paul
 Gene Timothy Kelly, Robbinsdale
 Michael Charles Kittleson, Bloomington
 Wendy Andberg Klohs, Anoka
 Sharon Lee Knopp, San Diego, Calif.
 John Andrew Knudsen, Redwood Falls
 Margaret Eloise Koepp, St. Paul
 Kathryn Mary Kopacz, Robbinsdale
 Eha Elise Usin Kulver, White Bear Lake
 Toyse Ann Kyle, A.A., Minneapolis
 Jeanne Marie Lally, Richfield
 Patricia McCallister Leefeldt, Edina
 Terence Maynard LeMay, Minneapolis, CUM LAUDE, *English*
 Sharon Kay Lemke, Cologne
 Susan Lori Lenrow, Haworth, N.J.

Susan Gail Lichterman, Duluth, SUMMA CUM LAUDE, *Psychology*
 Roberta Jo Lieberman, New Ulm
 Jane Marie Lilja, Minneapolis
 Barbara Ruth Lipschultz, St. Paul
 Idelle Sue Longman, St. Paul
 Maureen Shirley Lorenz, St. Paul
 Robert Clayton Maas, St. Paul
 Larry John MacDonald, Bloomington
 Robert Roy MacGregor, Robbinsdale
 James Davis Mackinnon, Orono
 Donald Frederick MacLeod, Brainerd, SUMMA CUM LAUDE, *Interdepartmental*
 Stuart Lennox MacPhail, Jr., Edina
 Gerald Patrick Malia, Minneapolis
 Louise Fay Malinski, Minneapolis
 Bruce David Malkerson, Minneapolis
 Jill Beth Margolis, St. Paul
 Judith Ann Martin, St. Paul
 Marsha Ellen May, Minneapolis, MAGNA CUM LAUDE, *Journalism*
 Muriel Ann Mays, Minneapolis
 Timothy Edward McCormick, Anoka
 Frank Alan McCoy, St. Paul
 Patricia Quam McHugh, Minneapolis
 Michael Joseph McKasy, Edina
 Carol Wendt McPherson, Toledo, Ohio
 Patti Lu Minton, International Falls
 Daniel Andrew Mital, Richfield
 Michael John Moffat, Edina
 Hartmut Bodo Eckhardt Mokros, Minneapolis
 Patrick Lee Monigold, St. Paul
 Robert Carl Monk, St. Paul
 Laurie Ann Moore, Colden, N.Y.
 David B. Morris III, St. Paul
 Chava Faibish Mozes, Israel
 John Michael Mulligan, Plainview, MAGNA CUM LAUDE, *American Studies*
 Nicholas George Myre, Richfield
 Gregory Thane Nelson, Anoka
 Linda Joan Nelson, Minneapolis
 Meredith Ann Nelson, Mankato
 Ordell Ann Nelson, Minneapolis
 Richard Andrew Nelson, Soudan
 Steven Aaron Netzman, St. Paul
 Mary Louise Neuman, Minneapolis
 Anna Nobel, St. Paul

Peter James Nolden, Minneapolis
 Leona Marvel Noren, St. Paul, CUM
 LAUDE, *English*
 James Allan Norman, Virginia
 William Elliot Norton, A.A.,
 St. Louis Park
 Michael Timothy O'Connor, St. Paul
 Marcia Joanne Odden, Minneapolis
 John Austin O'Keeffe, St. Paul
 Charlotte Sims Olein, St. Paul
 Linda Ruth Olsen, Basom, N.Y.,
 MAGNA CUM LAUDE, *Anthropology*
 David Michael Olson, New Brighton
 Geoffrey William Olson, St. Paul
 Nancy Lynn Parrill, Minneapolis
 Grant Winford Patterson, Richfield
 David John Pederson, Hastings
 Steven Irvin Pederson, Chisago City,
 CUM LAUDE, *Theatre Arts*
 Gerald G. Peters, Hastings
 Curtis Edward Peterson, Almelund
 Dianne Edythe Peterson, White Bear
 Lake
 Julianne Marie Peterson, Minneapolis
 Michael Phillip Petrich, Minneapolis
 Terrence Joseph Pietraszewski,
 St. Paul
 Mitzi Rogers Pinckaers, Edina
 Yvonne Helen Ponsor, Minneapolis,
 SUMMA CUM LAUDE, *English*
 Ralph Terrance Popehn, Minneapolis
 Boris Popov, St. Paul
 Devin Martin Pratt, Anoka
 Ludmilla Prestwich, A.L.A., Min-
 neapolis
 Cheryl Yvonne Price, Minneapolis
 Terry Jean Purcell, Savage
 Eric Paul Ramstad, Minneapolis
 Carol Marie Rausch, Howard Lake,
 CUM LAUDE, *Philosophy and*
Psychology
 Joyce Carolyn Reimers, Minneapolis
 John Sidney Rethlefsen, Red Wing
 Henry Art Reynolds, Anoka
 Linda Ann Rigelman, Minneapolis
 Raymond Earl Ristvedt, Wadena
 Donald Loudon Roche, Minneapolis
 Margaret Louise Roemer, Winona
 Dana F. Rohr, Hopkins
 Linda Mack Ross, A.A., Minneapolis
 Jean Shirley Rossi, Rochester
 Nancy Ann Roth, Mankato, SUMMA
 CUM LAUDE, *German*
 Mina Rae Rothstein, Minneapolis
 Gloria Jean Roybal, Cloquet
 Phillip LeRoy Sandahl, Minneapolis
 Sandra Margaret Sandberg, Min-
 neapolis
 Elizabeth Susan Sandler, Minneapolis
 JoEllyn Sangsland, St. Paul
 Stephen Wayne Santos, Minneapolis
 Robert Paul Sather, Minneapolis
 Michael David Savard, Red Lake
 Falls
 Dawn Elizabeth Schmid, Brainerd
 Joan Maxine Schnelle, Cedar Rapids,
 Iowa
 Robert Louis Schrupp, Wood Lake
 Barbara Mae Portnoy Schwartz,
 Minneapolis
 Paul Joseph Scipioni, Duluth
 John Thomas Scott, St. Paul
 John Leslie Seale, Minneapolis
 David P. Sell, Delano, CUM LAUDE,
Sociology
 Edward John Silberg, St. Paul
 Edward Walter Slibeck, Minneapolis
 Thomas Phillip Smisek, Minnetonka
 Richard Thomas Snyder, Minneapolis
 Thomas Clinton Somers, Waseca
 Roger Irving Sorbel, Minneapolis
 Steven R. Springer, A.A., Minneapolis
 Kathleen Gail Stenby, Minneapolis
 Thomas Martin Stenehjelm, A.A.,
 Minneapolis
 John Peter Stennes, Minneapolis
 Lynne Marie St. John, Wayzata
 James Earn Stockwell, Excelsior
 Douglas Wendell Stohlberg, Hudson,
 Wis.
 Frederick William Stohr III, South
 St. Paul
 John Leonard Strittmatter, St. Paul
 Douglas Paul Sundberg, Minneapolis
 Jeffrey Eugene Sutton, Fridley
 Linda Marie Swanson, Hopkins,
 CUM LAUDE, *Journalism*
 Mark David Swanson, Columbia
 Heights
 Rebecca Lynn Templin, Grants Pass,
 Ore.
 Barbara Ann Tesch, Anoka

Beatrice Kay Thompson, North Oaks,
 MAGNA CUM LAUDE, Journalism
 Mary Kay Thomson, Mound
 Mark William Tierney, Minneapolis
 Robert Daniel Tokar, Jr., Minneapolis
 Marie Helen Torreano, Hibbing
 James Alfred Torvik, Willmar
 Mary Bohlmann Trippler, Minneapolis
 Karen Ann Tungseth, Rochester
 Susan Jane Gardner Turner, Richfield
 Laurel Ann Utke, Minneapolis
 Marjorie Louise Utne, St. Paul
 Christine Ann Valek, St. Paul
 Dawn Gloria Vassar, West St. Paul
 Michael Carl Vezner, Minneapolis
 Susan Antoinette Vikse, Minneapolis
 Patricia Ann Vossen, Minneapolis
 Gregory Steven Wallin, Minneapolis
 Janel Marie Walsh, Austin, SUMMA
 CUM LAUDE, International Relations
 Jane Kimmes Wardell, Hastings
 Wallace William Warhol, Minneapolis
 John Anthony Warren, St. Paul
 Mark Guy Warren, Duluth

Timothy Charles Warren, Edgerton
 Ann Marie Waterhouse, Rochester
 Peggy Lou Watson, Minneapolis
 Gary Kent Wefel, Robbinsdale
 Kathleen Mary Weidenbach, St. Paul
 Peter B. Weizenegger, St. Paul
 Charles Thomas Wessinger, St. Paul
 Winifred Donoghue West, St. Paul
 Lawrence Gordon Wetternach, Minneapolis
 Cynthia Marie Whiteford, Marshall,
 MAGNA CUM LAUDE, Interdepartmental
 Jerry Lee Wiedewitsch, A.A., Grand
 Rapids
 Kurt Lance Wilke, St. Paul
 Paul Rhett Willard, Minneapolis,
 SUMMA CUM LAUDE, Psychology
 Douglas Joseph Williams, A.A.,
 Minneapolis
 Mark Andrew Williams, Austin
 Beverly Kay Wilson, Oklee
 Charles Thomas Wilson, Minneapolis
 Victoria Crear Winslow, A.A.,
 Minnetonka Beach

Bachelor of Fine Arts

James Earl Litsheim, St. Paul
 Stuart Allen Nielsen, Minneapolis,
 MAGNA CUM LAUDE, Studio Arts
 Terri Deane Rowan, A.A., Minneapolis

Ross James Saarela, Duluth, SUMMA
 CUM LAUDE, Music
 John Byron Shank, Duluth

MEDICAL SCHOOL

Bachelor of Science

MEDICAL TECHNOLOGY

Valerie Kay Askeland, Minneapolis* Nancy Levenson Gordon, Duluth*

MORTUARY SCIENCE

Steven John Baker, A.M.S., Minneapolis
 Francis Rene Brunelle, Montpelier,
 Vt., WITH HIGH DISTINCTION
 Ben Clifford Elfrink, B.A., Isabel,
 S.D., WITH HIGH DISTINCTION
 Dwight Keith Gahm, Mondamin,
 Iowa, WITH DISTINCTION
 Charles Lindell Hillman, Detroit
 Lakes
 Larry Wayne Scholz, Kansas City,
 Kan.
 Stephen Frederick Shrader, Arcola,
 Ill.

* These degrees are conferred subject to the completion of practical work prior to March 20, 1971.

Doctor of Medicine

William Ward Anderson, B.A., B.S.,
M.A., West St. Paul
Richard Alden Meisch, B.A., Ph.D.,
Minneapolis

Michael William Steffes, B.A., Min-
neapolis

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Liberto Alvarez, B.C.E., St. Paul
John Bell Conway, B.S., M.S., Min-
neapolis
David Birke Drown, B.S., M.S.,
Superior, Wis.

Donald William Martin, B.A.,
Anoka
Gilles Taschereau, Quebec, Canada

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering

Gary Michael Arnold, Arcadia, Wis.
Dennis Earl Ford, St. Paul, WITH
DISTINCTION

Gary Allen Foster, Benson
Gary Raymond Peach, Rockford, Ill.
Donald Edward Pedersen, St. Paul

Bachelor of Agricultural Engineering

David Vernon Harmann, Litchfield,
WITH HIGH DISTINCTION

Bachelor of Architecture

Jack Owen Boarman, Indianapolis,
Ind., WITH DISTINCTION
Raymond Bernard Collard, North
Attleboro, Mass.
Agustin Ramon Costa, B.A., San
Juan, Puerto Rico
Gordon Morlan Eastman, St. Paul
Thomas Craig Ellison, Minneapolis
Bruce McLean Haxton, Merrill, Wis.
Ronald Tim Lagerquist, Farmington
Timothy Ray McCoy, Brookfield,
Wis., WITH DISTINCTION

Richard Foster Merrill, Hopkins
William Alan Penk, St. Paul
Bruce James Severson, Cameron, Wis.
Bruce Douglas Simonson, Middleton,
Wis., WITH DISTINCTION
James Richard Stanton, St. Paul
John Stephen Weeks, B.A., Brookline,
Mass., WITH HIGH DISTINCTION
Vincent William Zmistowski, Jr.,
B.A., Minneapolis

Bachelor of Chemical Engineering

William Gustaf Dahlen, Minneapolis
Stephen Brooks Parker, Rochester,
N.Y., WITH DISTINCTION

Ben Franklin Stephens, Jr., Great
Falls, Mont.
Jack Royal Swenson, Minneapolis

Bachelor of Chemistry

Charles Michael Hartzel, Birchwood
Glenn Hartland Korfhage, West
St. Paul, WITH DISTINCTION

Barry Ira Milavetz, A.A., Virginia,
WITH HIGH DISTINCTION

Bachelor of Civil Engineering

Bryan C. Adams, Austin
Richard Fred Aichinger, St. Paul
Stephen West Angst, Duluth
Richard S. Butryn, Jackson, N.J.
Alan Thomas Forsberg, Clarkfield,
WITH DISTINCTION
Earl James Foster, Jr., St. Francis
Leonard Kosatka, Minneapolis
Richard Donald Martig, Rochester,
WITH DISTINCTION
Thomas Dale Montgomery, St. Croix
Falls, Wis., WITH DISTINCTION

Gordon LeRoy Nelson, Little Falls
Robert Rime Penniman, Minneapolis
Donald Lee Powell, A.A., Fridley
Jeffrey Joe Roos, Worthington
William Frederick Rottschaefter,
Minneapolis, WITH DISTINCTION
Richard John Ryan, Hector, WITH
DISTINCTION
Daniel Gordon Schacht, Winona
Robert George Schumicht, Pine City
Bruce Ray Volkart, Minnesota City

Bachelor of Electrical Engineering

David Allen Arndt, Pine Island
Richard Gary Carlson, St. Paul
Timothy Lee Cook, Shawnee, Kan.
Andrew Napier Erdmann, Minne-
apolis
Robert Edward Jansen, Rochester,
WITH HIGH DISTINCTION

Steven Thompson Jirsa, St. Paul
Steven Rudolph Nelson, Lake Lillian
Terry Francis Paradeis, Rice
Michael I. Puhok, Chisholm
Howard Alton Rice, B.A., Excelsior
Douglas Lowell Tschida, St. Paul

Bachelor of Geo-Engineering

Gary Richard Smith, International Falls

Bachelor of Mathematics

J. Mark Brassil, Minneapolis

Bachelor of Mechanical Engineering

Donald Allen Amundson, Hanska
Gary Adam Becker, Farmington,
WITH DISTINCTION
Gerald Robert Bell, A.A., Austin,
WITH HIGH DISTINCTION
Kent Prouty Benscoter, St. Paul
Gary Ralph Berglund, Minneapolis
Frank Blythe Bevelacque, Minneapolis
Ronald Milton Blomseth, St. Paul
Dennis Leo Boik, A.A., Austin
Marina Margaret Elizabeth Braun,
Minneapolis

Barry Burton Bridges, White Bear
Lake
Eldon Floyd Buschbom, Wayzata
Gary Allan Carlson, A.A., Cook
Robert Edward Chopp, Grand Rapids
Thomas Robert Crane, Minnetonka,
WITH DISTINCTION
Thomas Eliot Cross, Jr., Blackduck
Daniel F. Dolan, Danvers, WITH
HIGH DISTINCTION
Ronald Rex Foster, Littlefork

David Lee Frederick, A.A., Mountain Iron, WITH DISTINCTION
 Stewart John Free, Freeport, WITH DISTINCTION
 John Henry Getsch, Edina
 Robert Dale Golla, Hibbing, WITH DISTINCTION
 Lindley Zene Gram, St. Paul
 Thomas David Gridley, Minneapolis
 Charles Martin Hansell, Minneapolis
 Karl John Hnatko, Hibbing
 Robert Ralph Hren, Chisholm, WITH DISTINCTION
 Courtney Craig Kleven, Red Lake Falls, WITH DISTINCTION
 Thomas Scott Larson, St. Paul, WITH DISTINCTION
 Leonard Henry Leuer, Loretto, WITH DISTINCTION
 Karl Martin Nelson, Minneapolis
 Paul Heartly Olin, Hibbing
 Dale Howard Otterness, Richfield
 Peder Lance Pederson, Dent
 David Arnold Pierson, Little Falls, WITH DISTINCTION
 You-Hong Pui, Kowloon, Hong Kong, WITH HIGH DISTINCTION
 John Holder Rogness, Minneapolis

John Lee Schiff, Watkins
 Jon Albert Schmoeckel, Stillwater, WITH DISTINCTION
 Jerome Robert Schwarz, Waldorf
 Richard William Shaffer, Detroit Lakes
 Paul Clinton Skogheim, Richfield
 Anthony DuMez Snyder, Spring Valley
 Philip Harlan Steen, Alexandria, WITH DISTINCTION
 David Lewis Stockwell, Bloomington
 John Louis Sundstrom, Eveleth, WITH HIGH DISTINCTION
 Ronnie LeRoy Tang, Felton, WITH DISTINCTION
 Harlin Ralph Taylor, Lanesboro
 Lloyd Milton Vollmers, Dumont
 Gary Martin Wegleitner, St. Paul
 Douglas Albert Wentworth, Cambridge
 James Ralph Winslow, Two Harbors, WITH HIGH DISTINCTION
 Robert Joseph Wittbrodt, B.Chem., Minneapolis
 Gary Russell Woodford, Redwood Falls
 Denis James Zeug, Moundsview

Bachelor of Metallurgical Engineering

Clayton John Dick, Minneapolis

William Addison Thomas, Wayzata, WITH DISTINCTION

Bachelor of Physics

Brian Charles Johnson, Minneapolis
 John Arthur Kuhlmann, Byron

Robert James Livermore, Minneapolis
 Robert Eugene Riess, A.A., Rochester

Bachelor of Science in Geology

Anita Linda Blocker, White Bear Lake

Certificate in Science

Dennis Garvin Croonquist, Minneapolis

Allen I. Javinsky, A.A., Minneapolis
 Thomas Anthony Perino, Alexandria

UNIVERSITY COLLEGE

Bachelor of Arts

Marie-Therese C. Agasie, Minneapolis

Bachelor of Science

Gary Louis Evans, Minneapolis
Peter James Kordell, Minneapolis
Nancy Lou Rydell, St. Paul

Jennie E. Savageau, St. Paul
Wayne Elmer Sweet, Minneapolis

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

Stephen Frederic Maske, Monroe, Wis.

Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

William G. Dahlen, Minneapolis
Michael A. Firle, Sleepy Eye
Dennis E. Ford, St. Paul

James J. Gabriel, St. Paul
Gordon L. Nelson, Little Falls
John L. Schiff, Watkins

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Air Defense Artillery

Lionel O. Greene, Jr., Los Angeles,
Calif.

Thomas S. Larson, St. Paul

Second Lieutenant, Armor

Timothy L. Cook, St. Paul

Gary R. Redalen, Fountain

Second Lieutenant, Infantry

Robert L. Burton, Jr., Columbia
Heights
Andrew N. Erdmann, Jr., Minneapolis

Robert D. Horn, Fairmont
Charles R. Kenow, St. Paul
Bruce M. Niss, Duluth

Second Lieutenant, Military Police

Kim A. Elverum, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Richard S. Butryn, Jackson, N.J.
John A. Kuhlmann, Sumter, S.C.
Kent A. Paulsen, St. Paul

Ben F. Stephens, Jr., Great Falls,
Mont.
Bruce R. Volkart, Minnesota City

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):

Graduate School	black
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

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, 1970

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 Coffman Memorial Union.

Those in the receiving line will be President and Mrs. Moos and Vice President and Mrs. Champion.

Assisting in the Reception are students and staff members, including those from the Gamma Sigma Sigma Sorority and the Department of University Relations.

Members of the University Concert Jazz Ensemble, directed by Mr. Tom Keith, will play during the Reception.