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UNIVERSITY OF MINNESOTA

Spring Commencement, 1973

SATURDAY EVENING, JUNE 16, 7:30. P.M.
GRANDSTAND AREA
MINNESOTA STATE FAIRGROUNDS

Board of Regents

The Honorable Elmer L. Andersen, St. Paul

The Honorable Fred A. Cina, Aurora

The Honorable Fred J. Hughes, St. Cloud

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

The Honorable Lauris Krenik, Madison Lake

The Honorable L. J. Lee, Bagley

The Honorable Lester A. Malkerson, Minneapolis

The Honorable George W. Rauenhorst, Olivia

The Honorable Neil C. Sherburne, Lakeland Township

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

The Honorable David C. Utz, M.D., Rochester

The Honorable John A. Yngve, Plymouth

Central Executive Officers

Malcolm Moos, President

Rodney A. Briggs, Executive Assistant to the President

Duane A. Wilson, Secretary to the Board of Regents

James F. Brinkerhoff, Vice President for Finance, Planning and Operations

Paul H. Cashman, Vice President for Student Affairs

Lyle A. French, Vice President for Health Sciences

William G. Shepherd, Vice President for Academic Administration

Stanley J. Wenberg, Vice President for State and Federal Relations

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 twenty-second 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 252,000 degrees, each one in recognition of the successful completion of an exacting academic program.

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

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

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

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

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

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

As it meets the needs of present students, the University must also make plans for those of the future. The 50,000 students who enrolled at the University at the beginning of the 1972-1973 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

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

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

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

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their families and friends reach the Grandstand area of the Fairgrounds this evening, they will hear the Frances Miller Brown Memorial Bells, recorded at Northrop Memorial Auditorium. The Commencement exercises are open to all guests.

PRELUDE CONCERT: From 7:00 to 7:30 p.m., the University Concert Band Ensemble and the Symphony Band Ensemble, conducted by Dr. Frank Bencriscutto, A.Mus.D., will play:

Music Man	Willson
La Fiesta Mexicana, Movement III	Reed
The King and I	Rodgers
Chorale and Shaker Dance	Zdechlik

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

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

During the procession the Bands will play:

Festive Overture	Shostakovich
March	Jacob
Inaugural Fanfare	Bencriscutto

THE NATIONAL ANTHEM: As Mr. Dwayne Jorgenson, M.A., Graduate School, steps to the microphone, the entire audience will stand and join him in singing the National Anthem:

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

INVOCATION (the audience still standing): The Reverend K. K. John, D.Th., director of the Campus Ministries for Assemblies of God and member of the Council of Religious Advisors.

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

Spirit of the LandBenciscutto

PRESENTATION OF THE STANDARD OIL (INDIANA) FOUNDATION-HORACE T. MORSE AWARDS: President Moos and Vice President William G. Shepherd, Ph.D., Academic Administration.

Donald G. McTavish, Ph.D., Faculty Member, College of Liberal Arts
Sharon Wilford, B.S.N., Faculty Member, School of Nursing

A FAREWELL FROM THE PRESIDENT OF THE MINNESOTA STUDENT ASSOCIATION: Howard Schwartz, College of Liberal Arts, former acting president of the Minnesota Student Association.

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: After each new Doctor of Philosophy has been hooded, Dean May Brodbeck, Ph.D., Graduate School, will present him to President Moos. Assisting them will be Faculty Marshals Associate Professor Caroline M. Czarnecki, Ph.D., College of Veterinary Medicine; Professor Gertrude Esteros, Ph.D., College of Home Economics; and Professor Warren S. Loud, Ph.D., Institute of Technology; and Mr. Charles Liesenfelt, M.A., Admissions and Records.

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

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

Dean Albert J. Linck, Ph.D., College of Agriculture
Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences
Associate Dean Roger B. Upson, Ph.D., College of Business Administration
Dean Harold A. Miller, Ph.D., Continuing Education and Extension
Assistant Dean James R. Jensen, D.D.S., School of Dentistry
Dean Jack C. Merwin, Ph.D., College of Education
Dean Frank H. Kaufert, Ph.D., College of Forestry
Associate Dean Frank T. Benson, Ph.D., General College
Dean Keith N. McFarland, Ph.D., College of Home Economics
Dean Carl A. Auerbach, J.D., Law School
Dean E. W. Ziebarth, Ph.D., College of Liberal Arts
Dean N. L. Gault, M.D., Medical School

Dean M. Isabel Harris, Ph.D., School of Nursing
Professor Ole Gisvold, Ph.D., College of Pharmacy
Dean Lee D. Stauffer, M.P.H., School of Public Health
Assistant Dean Paul A. Cartwright, M.S., Institute of Technology
Dean Barbara Knudson, Ph.D., University College
Dean Sidney A. Ewing, Ph.D., College of Veterinary Medicine

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

Minnesota, hail to thee!
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.

There will be no Recessional. Please join in singing the Minnesota Rouser.

Flags

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

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

March Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Alfred Krinke, Jr., Richfield

B.S. '50, Hamline University; M.A. '59, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Comparative Analysis of Four Organizational Patterns with Implications for Richfield Senior High School. Major Adviser: Prof. N. C. Nickerson.

Doctor of Philosophy

George Fowler Appel, Minneapolis

B.S. '51, Northwestern University; M.A. '60, University of Minnesota. Major: Comparative Literature. Minor: Supporting Program. Thesis: Modern Masters and Archaic Motifs of the Animal Poem. Major Adviser: Prof. P. E. Firchow.

Donald Atholl Bailey, Winnipeg,

Manitoba, Canada

B.A. with distinction '61, B.A. '64, Oxford University. Major: History. Minor: Political Science. Thesis: Writers Against the Cardinal: A Study of the Pamphlets Which Attacked the Person and Policies of Cardinal Richelieu During the Decade 1630-1640. Major Adviser: Prof. J. B. Wolf.

Eduardo Enrique Barandiaran,

La Plata, Argentina

Lic. '65, Argentine Catholic University; M.A. '70, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Control of Money and Bank Credit in Argentina. Major Adviser: Prof. S. A. Engene.

Noel Kraig Barstad, Athens, Ohio

B.A. '58, St. Olaf College; M.A. '62, University of Minnesota. Major: German. Minor: Comparative Literature. Thesis: The Recovery of Old Criticism: Rudolf Borchardt's Assessment of Hugo von Hofmannsthal. Major Adviser: Prof. F. H. Wood.

Sanford Harold Bederman,

Atlanta, Ga.

B.A. '53, University of Kentucky; M.A. '57, Louisiana State University. Major: Geography. Minor: Anthropology. Thesis: Black Residential Patterns and Job Opportunity Areas in Atlanta, Georgia. Major Adviser: Prof. J. S. Adams.

Charles Townley Brown,

Seneca Falls, N.Y.

B.A. '66, University of California; M.A. '68, University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: Alejandro Monestel (1865-1950): His Life and Works. Major Adviser: Prof. Johannes Riedel.

John Richard Burt, Minneapolis

B.A. '62, M.A. '68, University of Minnesota. Major: Spanish. Minor: Supporting Program. Thesis: Courtly Love as Ritual in Early Medieval Spanish Poetry. Major Adviser: Prof. D. E. Rundorff.

Eddie Amponin Calderón,

Quezon City, Philippines

B.S.F.S. '60, A.B. '62, University of the Philippines. Major: International Relations. Thesis: The Role of the Philippines in the United Nations During the Tenure of Carlos P. Rómulo. Major Adviser: Prof. M. Q. Sibley.

Harold Lee Cannon, Eveleth

B.S., B.A. '61, M.A. '65, University of Minnesota. Major: Spanish. Minor: Supporting Program. Thesis: Stylistic Technique and Thematic Preferences as Reflected in the Short Stories of Emilia Pardo Bazán. Major Adviser: Prof. Dorothy Rundorff.

Judith Carls Caswell, Minneapolis

M.F.A. '67, University of Minnesota. Major: Music. Minor: German. Thesis: Rhythmic Inequality and Tempo in French Music Between 1650 and 1740. Major Adviser: Prof. Johannes Riedel.

Hung En Chou, Nantou, Taiwan

B.S. '66, National Taiwan University; M.S. '70, University of Minnesota. Major: Food Science and Industries. Minor: Supporting Program. Thesis: Lipid Oxidation as Controlled by Water Sorption Hysteresis. Major Adviser: Prof. T. P. Labuza.

Gerald Michael Cohen,
Leeds, England

B.S. '66, Leeds University. Major: Pharmacology. Minor: Biochemistry. Thesis: Interactions of Alcohols with the Hepatic Microsomal Drug Metabolizing System. Major Adviser: Prof. G. J. Mannering.

Donald Arthur Colberg, Atlanta, Ga.

B.A. cum laude '60, Bethany College; M.A. '62, University of Kansas; M.L.S. '70, University of Oklahoma. Major: Library Science. Minor: Supporting Program. Thesis: Moral and Social Values in American Adventure Novels for Boys, 1865-1900. Major Adviser: Prof. R. H. Shove.

Catherine Richman Cooper,
Berkeley, Calif.

B.A. magna cum laude '68, Pomona College. Major: Child Psychology. Minor: Supporting Program. Thesis: Training Inquiry Behavior in Young Disadvantaged Children. Major Adviser: Prof. S. G. Moore.

Thomas Edgar Curran, Abilene, Kan.

B.S. '59, Marquette University. Major: Educational Psychology. Minor: Psychology. Thesis: A Psychological Analysis of Scientific Knowledge. Major Adviser: Prof. P. E. Johnson.

David Earl Dimick, Toronto,
Ontario, Canada

B.A. '66, St. Olaf College; M.A. '68, University of Minnesota. Major: Industrial Relations. Minor: Supporting Program. Thesis: Pay Policy, Pay Costs, and Employee Performance: A Simulation Study. Major Adviser: Prof. T. A. Mahoney.

Lyle Martin Faurot, Lamar, Mo.

B.S. '66, M.A. '68, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: An Investigation of the Validity of Vocational Student Success and the Predictability of Vocational Student Grades Using Standardized Test Instruments. Major Adviser: Prof. D. J. Pucel.

Nanette Sue Flakes, San Diego, Calif.

B.A. with distinction '65, University of New Mexico; M.A. '69, San Diego State College. Major: Theatre Arts. Minor: Supporting Program. Thesis: Aesthetics of Modern Play of Direction: Non-Realistic Drama from Pirandello to Pinter. Major Co-Advisers: Profs. C. M. Nolte and J. D. Hurrell.

Robert Cherry Foy, Rochester, N.Y.

B.A. '55, Emory University. Major: English. Minor: Latin. Thesis: "Holy Sport": St. Paul, Recreation, and Shakespearean Drama, with Particular Reference to *The Comedy of Errors*. Major Adviser: Prof. J. D. Hurrell.

Keith Douglas Graham, Champlin

B.S. '51, South Dakota School of Mines and Technology; M.S. '53, University of Minnesota. Major: Mathematics. Minor: Physics. Thesis: On Boundary Value Control of Distributed Hyperbolic Systems. Major Adviser: Prof. Lawrence Markus.

Kerstin Olsson Griffin, Örnö, Sweden

Fil.Mag. '63, University of Stockholm; M.S. '68, University of Minnesota. Major: Botany. Minor: Geology. Thesis: Paleocological Aspects of the Red Lake Peatland, Beltrami County, Minnesota. Major Adviser: Prof. H. E. Wright.

Edmond Quincy Haggart, Salina, Kan.

B.A. with highest distinction '67, University of Kansas. Major: Economics. Minor: Supporting Program. Thesis: Service Charges in the Demand for Money. Major Adviser: Prof. Neil Wallace.

Charles Wallace Hanson,
Granada Hills, Calif.

B.A. '61, University of California at Los Angeles; M.S. '68, California State College. Major: Microbiology. Minor: Biochemistry. Thesis: Intracellular and Extracellular Nucleotides and Related Compounds During Development of *Myxococcus Xanthus*. Major Adviser: Prof. Martin Dworkin.

John Gaylord Hay

B.A. '64, University of Minnesota; M.A. '66, University of Wisconsin. Major: Classics. Thesis: A Study of the Imagery of Sophocles' *Oedipus Tyrannus*. Major Co-Advisers: Profs. R. J. Schork and R. P. Sonkowsky.

Richard Drew Heath, Minneapolis

B.App.Math. '60, M.S. '67, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Formal Computer Coordinate Transformations of Symbolic Algebraic Equations. Major Adviser: Prof. K. S. Frankowski.

Vivian Seaberg Hiatt

B.A. '61, Lindenwood College; M.A. '65, Washington University. Major: Genetics. Minor: Supporting Program. Thesis: Phenylalanyl Transfer RNA Species in Early Development of Barley. Major Adviser: Prof. L. A. Snyder.

Anita Hochster

B.A. magna cum laude '65, Queens College; M.A. '66, University of Pennsylvania. Major: Linguistics. Minor: Spanish. Thesis: On Predicate Regrouping and Lexical Filtering. Major Adviser: Prof. G. A. Sanders.

Beverly Dodson Houghton,

Moylan, Pa.

B.A. '63, Oberlin College; M.A. '65, University of Wisconsin. Major: Sociology. Minor: Supporting Program. Thesis: Conscientious Objection: Socialization and Social Deviance. Major Adviser: Prof. D. A. Ward.

Philip Arthur Houle, Jr., Brainerd

B.Phys. '66, M.S. '68, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: A Study of Performance Driven Scheduling in a Multi-processing Computer System. Major Co-Advisers: Profs. M. L. Stein and W. R. Franta.

Chyisheng Hwang, Taipei, Taiwan

B.S. '65, Chung-Hsing University; M.S. '69, M.S. '70, University of Minnesota. Major: Fluid Mechanics. Minor: Mathematics. Thesis: Generation of Internal Wave in Stratified Fluids. Major Adviser: Prof. C. S. Song.

Leland Stuart Jahnke, Minneapolis

B.A. '61, M.A. '66, M.S. '68, University of Minnesota. Major: Botany. Minor: Biochemistry. Thesis: Reactivation of Photosynthesis by Manganese Deficient Algae. Major Adviser: Prof. D. C. Pratt.

Henry Eugene Karjala, Ironwood, Mich.

B.A. cum laude '55, St. Olaf College; M.A. '68, University of Minnesota. Major: Education. Minor: Music. Thesis: A Critical Analysis of School Music Magazine (1900-1936). Major Adviser: Prof. E. M. Turrentine.

Richard Dale Karp, Minneapolis

B.A. '65, M.S. '68, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Studies on the Inhibition of Foreign Body Induced Tumorigenesis. Major Adviser: Prof. G. K. Brand.

David Charles Kayser, Red Wing

B.A. '64, M.A. '65, University of Minnesota, Duluth. Major: Physics. Minor: Mathematics. Thesis: Techniques for the Measurement of Narrow Mass Doublets and Their Application in the Rare Earth's Regions. Major Adviser: Prof. W. H. Johnson.

Paul Naylor Keaton, Minneapolis

B.S.B. '64, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: A Search for Improved Undergraduate Admission Criteria for a Junior-Senior Business Administration Curriculum, with Emphasis on the Experience at Minnesota, 1960-67. Major Adviser: Prof. P. V. Grambsch.

Andrew Robert Klemer, St. Clair, Pa.

B.A. '64, La Salle College. Major: Ecology. Minor: Supporting Program. Thesis: Factors Affecting the Vertical Distribution of a Blue-Green Alga. Major Adviser: Prof. A. J. Brook.

Richard Kosydar, Hamilton, Ontario, Canada

B.A. '63, University of British Columbia; M.A. '69, University of Minnesota. Major: Geography. Minor: Economics. Thesis: The Perception and Adjustment to the Frost Hazard by the Florida Citrus Industry. Major Adviser: Prof. F. E. Lukermann.

Mark Krain, New York, N.Y.

B.A. '61, Brooklyn College; M.A. '68, University of Michigan. Major: Sociology. Minor: Supporting Program. Thesis: Organizational and Interactional Aspects of the Formation of Pre-Marital Dyads. Major Adviser: Prof. I. L. Reiss.

Marvin Charles Kraus, Cleveland Heights, Ohio

B.S. '67, Purdue University. Major: Economics. Minor: Supporting Program. Thesis: Land Use in a Circular City. Major Adviser: Prof. H. D. Mohring.

Luke Kwok Tung Lam, Hong Kong
B.A. '65, University of Oregon; M.S. '67, Oregon State University. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Diimide Reduction of Heteroatom-Substituted Olefins. Major Adviser: Prof. E. W. Garbisch.

Frederick Michael Lauritsen,
Cheney, Wash.

B.A. '61, M.A. '65, University of Minnesota. Major: History. Minor: Library Science. Thesis: Some Greek Imperial Coins from Southeastern Asia Minor. Major Adviser: Prof. T. B. Jones.

Qwihee Park Lee, Taegu, Korea
B.S. '63, Seoul National University. Major: Plant Physiology. Minor: Biochemistry. Thesis: Studies on the Action of 3-Amino-2, 5-Dichlorobenzoic Acid on Tobacco Callus Cultured *in vitro*. Major Adviser: Prof. A. J. Linck.

Robert Joseph Leonard,
Garwood, N.J.

B.A. '68, Montclair State College. Major: Anatomy. Minor: Zoology. Thesis: Pancreatic Islet Transporation Studies in the Rat. Major Adviser: Prof. Morris Smithberg.

Wu-Shyong Li, Taiwan
B.S. '66, National Taiwan University; M.S. '69, Kent State University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Thio-diarylamines: Reaction with Dienes. Major Adviser: Prof. R. M. Dodson.

Maurice Yaofu Lin, Taiwan
B.A. '61, National Taiwan University; M.A. '65, University of Hawaii; M.A. '71, University of Minnesota. Major: American Studies. Thesis: Children of Adam: Ginsberg, Ferlinghetti and Snyder in the Emerson-Whitman Tradition. Major Co-Advisers: Profs. M. C. Turpie and D. W. Noble.

Perry Bert Lonnes, St. Paul
B.S. with distinction '63, M.S. '65, University of Minnesota. Major: Environmental Health. Minor: Analytical Chemistry. Thesis: Absorbent Columns as Samplers for Organic Vapors in the Atmosphere. Major Adviser: Prof. H. J. Paulus.

William Lavern Madsen,
Storm Lake, Iowa

B.A. with highest honors '66, Bethel College; M.C.E. cum laude '69, Bethel Seminary. Major: Psychology. Minor: Supporting Program. Thesis: Multivariate Consideration of Some Personality, Motivation, Performance, and Persistence Variables in a Selected Population of Theological Students. Major Adviser: Prof. D. J. Weiss.

Judith Ann Marlett, Toledo, Ohio
B.S. '65, Miami University. Major: Nutrition. Minor: Supporting Program. Thesis: The Gastrointestinal Interdigestive Myoelectric Complex. Major Co-Advisers: Profs. L. M. Morse and C. F. Code.

Ram Kumar Matta, Jaipur, India
B.Tech. '67, Indian Institute of Technology; M.S. '69, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: The Fluid Mechanics of the Hole Tone. Major Adviser: Prof. G. S. Beavers.

Abd-El Rehime Mohamed Morad,
Cairo, Egypt
B.S. '62, Cairo University. Major: Pharmaceutics. Minor: Chemistry. Thesis: Kinetics of Cyclization of Some B-chloroethylamines in Structured Liquid Phases. Major Adviser: Prof. E. G. Rippie.

Gerald Owen Nelson, West St. Paul
B.A. '61, Northwest Nazarene College; M.A. '64, University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: A Chronometric Approach to the Study of Form in Seventh Grade General Music Classes. Major Adviser: Prof. E. M. Turrentine.

Joyce Mary Okuniewicz,
Arlington, N.J.
B.A. '65, Boston University. Major: Physical Chemistry. Minor: Physics. Thesis: A Spectral Theory of Time-Dependent Quantum Mechanics. Major Adviser: Prof. Stephen Prager.

James Douglas Orcutt,
Tallahassee, Fla.
B.A. '66, M.A. '68, University of Iowa. Major: Sociology. Minor: Supporting Program. Thesis: A Theoretical and Empirical Analysis of the Social Determinants of Recreational Drug Effects. Major Adviser: Prof. S. P. Spitzer.

Shing-I Ou, Tsoying, Taiwan
B.S.E.E. '66, National Taiwan University; M.S.E.E. '69, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Digital Logic Synthesis Using Galois Field Theory. Major Adviser: Prof. R. P. Halverson.

Joy Lee Paulson, St. Paul
B.A. '66, M.S. '71, University of Minnesota. Major: Biology. Minor: Biochemistry. Thesis: Studies on Developing Avian Oocytes. Major Adviser: Prof. M. D. Rosenberg.

Daniel Merle Pearson, Evansville, Ind.
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David Earl Kelby, Edina

B.A. '58, LL.B. cum laude '63, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Dennis Sadao Sato, Aiea, Hawaii

B.B.A. '69, University of Hawaii. Field of Concentration: Business Administration. Major Adviser: Prof. R. J. Holloway.

Mohammed Abdul Aleem Siddiqui,
Hyderabad, India

B.A. '70, Hamline University. Field of Concentration: Business Administration. Major Adviser: Prof. R. N. Cardozo.

Michael Larrey Smith, Minneapolis

B.A. '66, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. C. A. Williams, Jr.

Timothy Anton Stepanek,
Milwaukee, Wis.

B.A. '71, College of St. Thomas. Field of Concentration: Business Administration. Major Adviser: Prof. W. B. Erickson.

Yuequen Robbins Tong,
New Rochelle, N.Y.

B.S. '67, Iona College; M.S. '69, University of Wisconsin. Field of Concentration: Business Administration. Major Adviser: Prof. J. J. Mauriel, Jr.

Master of Civil Engineering

Julio Domingos Nunes Fortes,
Rio de Janeiro, Brazil
Dip. '63, Universidade Federal do Estado do
Rio de Janeiro. Major: Civil Engineering.
Minor: Hydrogeology. Major Adviser: Prof.
C. E. Bowers.

Donald Charles Wisniewski, Ivanhoe
B.C.E. '68, University of Minnesota. Major:
Civil Engineering. Minor: Geography. Major
Adviser: Prof. J. W. Hayden.

Master of Fine Arts

Robert Fleming Jewett,
New Canaan, Conn.
B.A. '69, Rockford College. Field of Concentra-
tion: Studio Arts. Major Adviser: Prof.
C. C. Hoard.

Andrew John Leicester,
Maidenhead, England
Dip. with honors '70, Manchester Polytechnic.
Field of Concentration: Studio Arts. Major
Adviser: Prof. Katherine Nash.

R. Anthony Mayo, Edina
B.S. '66, M.A. '69, St. Cloud State College.
Field of Concentration: Studio Arts. Major
Adviser: Prof. C. C. Hoard.

Sandra Nei Schulte, Minneapolis
B.A., B.S. '65, University of Minnesota. Field
of Concentration: Theatre Arts. Major Adviser:
Prof. R. D. Moulton.

Master of Science

Richard Bryan Amundson,
Oakton, Va.
A.B. '67, Antioch College. Field of Concentra-
tion: Mathematics. Major Adviser: Prof. Steven
Orey.

Robert Gerald Anderson,
Two Harbors
B.S. '70, University of Minnesota. Major:
Horticulture. Minor: Plant Physiology. Thesis:
Studies for the Improvement of Cyclamen Seed
Germination. Major Adviser: Prof. R. E. Wid-
mer.

Richard Mark Anthony, St. Paul
B.S. '66, University of Minnesota. Field of
Concentration: Forestry. Major Adviser: Prof.
J. C. Haygreen.

Abdul Hakim Atif,
Badakhshan, Afghanistan
B.S. '67, University of Kabul. Major: Plant
Pathology. Minor: Plant Breeding. Thesis: Det-
ach Leaf Culture as a Method of Studying
Stem Rust Development and Resistance in
Wheat. Major Adviser: Prof. R. D. Wilcoxson.

David Paul Bargabus, Minneapolis
B.Ph. '70, University of Minnesota. Field of
Concentration: Physics. Major Adviser: Prof.
W. V. Weyhmann.

Jon Ronald Bergquist, Amery, Wis.
B.S. '65, University of Idaho. Major: Wildlife.
Minor: Physiology. Thesis: A Study of Con-
structed Ponds in Relation to Waterfowl Pro-
duction in Northwestern Wisconsin. Major
Adviser: Prof. W. H. Marshall.

William John Bertges, Jr.,
Wattsburg, Pa.
B.S. '68, Penn State University. Major: Agron-
omy. Minor: Soil Science. Thesis: Dormant
Detached Rhizomes and Soil Contaminants of
Commercial Kentucky Bluegrass Seed Fields.
Major Adviser: Prof. L. J. Elling.

Sudha Bhatia, New Delhi, India
B.A. '68, M.A. '70, University of Delhi. Field
of Concentration: Mathematics. Major Adviser:
Prof. J. I. Richards.

Lanny Allen Boyd, St. Paul
B.A. with highest honors '69, Bethel College.
Field of Concentration: Biology. Major Ad-
viser: Prof. D. B. Lawrence.

Verlan Eugene Edwards, Minneapolis
Dip. '54, Northrop Institute of Technology.
Major: Mechanics and Materials. Minor:
Mechanical Engineering. Thesis: A Compar-
ative Study of Techniques for Model Reference
Adaptive Control. Major Adviser: Prof. W. L.
Garrard.

Keith LeRoy Egli, Brooklyn Center

B.S. '61, Roosevelt University. Major: Medicinal Chemistry. Minor: Analytical Chemistry. Thesis: Urinary Metabolites of N-Ethyl-3-Piperidyl Benzilate from Rats. Major Adviser: Prof. M. M. Abdel-Monem.

Didier Etienne, Marvejolles, France

Dip. '71, Ecole Supérieure de Commerce de Paris. Field of Concentration: Business Administration. Major Adviser: Prof. R. N. Carozzo.

Walter Stewart Fobes, Fridley

B.A. '64, Amherst College. Major: Bio-chemistry. Minor: Organic Chemistry. Thesis: Uridine 5'-(α -D-Galactopyranosyl Pyrophosphate):NAD 2-Hexosyl Oxidoreductase in *Penicillium Charlesii*. Major Adviser: Prof. J. E. Gander.

Jere Robert Francis, Kent, Ohio

B.S. '71, Drake University. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Zimmer.

Ruth Vogel Fuller, Wayzata

B.S. '43, Iowa State University. Field of Concentration: Home Economics. Major Adviser: Prof. F. A. Ehrenkranz.

Nathaniel Stanley Good IV,

Las Cruces, N.M.

B.S. '71, New Mexico State University. Field of Concentration: Environmental Health. Major Adviser: Prof. V. W. Greene.

Cristina Marti Gordon,

Concepción, Chile

University of Concepción, Chile. Major: Bio-chemistry. Minor: Microbiology. Thesis: Enzymes of Shikimic Acid Metabolism and Their Regulation. Major Adviser: Prof. P. J. Chapman.

Prescott Friesth Griffith,

Fort Dodge, Iowa

B.S. '71, Drake University. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffman.

Kesuma Halim

M.D. '65, University of Airlangga. Field of Concentration: Family Planning Administration. Major Adviser: Prof. Harry Foreman.

Henry Joseph Hall, Merrick, N.Y.

B.S. '69, University of Massachusetts. Field of Concentration: Forestry. Major Adviser: Prof. J. G. Haygreen.

Maurice Auguste Hamelin, France

Engr. '68, National School of Agriculture, Bordeaux. Major: Animal Science. Minor: Genetics. Thesis: Comparison of Three Methods of Measuring Feed-Grain Ration in Group Feeding Trials. Major Adviser: Prof. W. E. Rempel.

Alan Roswell Hopeman, Jr.,

Denver, Colo.

B.A. '69, Macalester College. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Flood Damage Reduction Alternatives in the Minnesota River Basin. Major Adviser: Prof. J. J. Waelti.

Duane Richard Hujanen

B.S. '69, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. R. O. Gertjeansen.

Olakunle Olaseinde Kassim,

Lagos, Nigeria

B.A. cum laude '71, Bethel College. Field of Concentration: Zoology. Major Adviser: Prof. D. E. Gilbertson.

Hee Bom Keel, Seoul, Korea

B.A.B. '67, Sioux Falls College. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Zimmer.

Eugene George Krenzer, Jr.,

Le Roy, N.Y.

B.S. '68, Cornell University. Major: Agronomy. Minor: Plant Physiology. Thesis: Carbon Dioxide Compensation and Anatomical Characteristics in Grasses. Major Adviser: Prof. D. N. Moss.

Kay Delores Kurtz, St. Paul

B.S. with distinction '65, University of Minnesota. Field of Concentration: Home Economics. Major Adviser: Prof. M. D. Doyle.

Jung-Keun Lee, Korea

B.S. '63, M.S. '65, Yonsei University. Major: Statistics. Minor: Mathematics. Thesis: Dorfman and R_1 -Type Procedures for a Generalized Group-Testing Problem. Major Adviser: Prof. Milton Sobel.

Frances Louise Lynch Line,

Pullman, Wash.

B.S. '62, Duquesne University. Field of Concentration: Botany. Major Adviser: Prof. J. W. Hall.

Fatma Maamouri, Nabeul, Tunisia

Ing. '69, Ecole Nationale Supérieure d'Agriculture de Tunis. Field of Concentration: Agricultural Economics. Major Adviser: Prof. R. P. Dahl.

Stephen Anthony Margrett,
Cheam, England

B.S. '65, University of Birmingham. Field of Concentration: Business Administration. Major Adviser: Prof. R. N. Cardozo.

Earl Hunt McCauley, St. Paul

D.V.M. '66, University of Minnesota. Major: Veterinary Medicine. Minor: Economics. Thesis: The Contribution of Veterinary Service to the Income of Dairy Farmers in Minnesota. Major Adviser: Prof. D. K. Sorensen.

Virginia Ann Moyle, Excelsior

B.A. '68, University of Minnesota. Field of Concentration: Zoology. Major Adviser: Prof. J. C. Underhill.

David P. Olds, St. Paul

B.A. '69, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. E. C. Abbe.

Charles Edward Petrosky, Minnetonka

B.S. with distinction '70, University of Minnesota. Major: Fisheries. Minor: Entomology. Thesis: Abundance and Production Rate of the Slimy Sculpin (*Cottus Cognatus* Richardson) in a Small Minnesota Stream. Major Adviser: Prof. T. F. Waters.

Digambar Gopal Ranade,
Bombay, India

B.S. '66, M.S. '69, University of Bombay. Field of Concentration: Organic Chemistry. Major Adviser: Prof. W. E. Parham.

Susan Virginia Schauer,
Eau Claire, Wis.

B.S. magna cum laude '64, Wisconsin State University, Eau Claire. Major: Biology. Minor: Biochemistry. Thesis: Characterization of Soluble ATPase Isolate from Avian Ova Membrane. Major Adviser: Prof. M. D. Rosenberg.

Harrison Scofield, Lake Oswego, Ore.

B.A. '70, Lewis and Clark College. Major: Mathematics. Minor: Computer and Information Sciences. Thesis: The Scattering of Electromagnetic Radiation from Homogeneous, Isotropic, Nonmagnetic Obstacles. Major Co-Advisers: Profs. D. K. Cohoon and C. A. McCarthy.

Abdel-Mohsen Mahmoud Riad Selfo,
Cairo, Egypt

B.S. '57, M.S. '63, Cairo University. Field of Concentration: Soil Science. Major Adviser: Prof. J. M. MacGregor.

John Patrick Skram, Mason City, Iowa
B.A. '71, St. Mary's College. Field of Concentration: Business Administration. Major Adviser: Prof. C. R. Purdy.

Hugh Eric Smith, St. Paul

B.S. '69, Purdue University. Major: Computer and Information Sciences. Minor: Electrical Engineering. Thesis: Enhancing Remote Terminal Capabilities of a CDC 3200 Computer. Major Adviser: Prof. W. D. Munro.

Bernice Helen Strommer, St. Paul

B.A. '65, University of Minnesota. Major: Biophysics. Thesis: Biophysical Studies of Van der Waals' Interactions in a Monolayer. Major Adviser: Prof. M. D. Rosenberg.

Achmad Sumitro, Jogjakarta,
Indonesia

Ir. '62, University of Gadjah Mada. Major: Forestry. Minor: Business Administration. Thesis: Forest Products Export Development in Indonesia, a Case Study. Major Adviser: Prof. R. A. Skok.

Terry Lee Tranter, Minneapolis

B.S.B. with high distinction '71, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. J. K. Simmons.

Bruce Herbert Waddell, Jr., St. Paul

B.S. '67, University of Minnesota. Major: Wildlife. Minor: Forestry. Thesis: Fall Ecology of White-Tailed Deer in Northcentral Minnesota. Major Adviser: Prof. J. M. Peek.

James Randall Wambaugh,
Helena, Mont.

B.S. '70, University of Montana. Major: Wildlife. Minor: Forestry. Thesis: Food Habits and Habitat Selection by White-Tailed Deer and Forage Production in Important Habitats in Northeastern Minnesota. Major Adviser: Prof. J. M. Peek.

Bruce Richard White, Minneapolis

B.A.E.M. '71, University of Minnesota. Major: Fluid Mechanics. Minor: Mechanics. Thesis: Numerical Solutions of the Parachute Opening Dynamics. Major Adviser: Prof. H. G. Heinrich.

Hong-Jen Yu, Tainan, Taiwan

B.S. '67, National Taiwan University; M.S. '70, University of Minnesota. Field of Concentration: Biometry. Major Adviser: Prof. E. A. Johnson.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

Lydia Meelin Ma, Superior, Wis.

B.S. '70, Wisconsin State University. Major: Chemistry. Minor: Internal. Thesis: Numerical Quadrature in Quantum Chemistry. Major Adviser: Prof. D. K. Harriss.

Master of Science in Aerospace Engineering

James Maxfield Norton, Minneapolis

B.A.E.M. with distinction '71, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: An Analysis of Expiratory Flow. Major Adviser: Prof. T. A. Wilson.

Anthony Lee Wright, Minneapolis

B.S. '71, Carnegie-Mellon University. Major: Aerospace Engineering. Minor: Mathematics. Thesis: On the Aerodynamics of Insect Flight. Major Adviser: Prof. T. A. Wilson.

Master of Science in Chemical Engineering

Richard Patrick Lewis, Minneapolis

B.Ch.E. '71, University of Minnesota. Major: Chemical Engineering. Minor: Mechanical Engineering. Thesis: Creep in Catalytic Adiabatic Reactors and Axial Dispersion in Chromatography. Major Adviser: Prof. N. R. Amundson.

Hideo Nagoshi, Tokyo, Japan

B.E. '62, University of Tokyo. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Study of Sulfur Dioxide Oxidation over a Platinum Wire. Major Adviser: Prof. L. D. Schmidt.

Master of Science in Civil Engineering

Shiraz Hasham Dhanani,
Dar-es-Salaam, Tanzania

B.S. '69, University of East Africa. Field of Concentration: Civil Engineering. Major Adviser: Prof. M. J. Huber.

Nadim Antoine Shamat,
Beirut, Lebanon

B.S.E. '69, American University of Beirut. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. J. Maier.

Master of Science in Dentistry

Olaf Armin Pantke, St. Paul

M.D., D.D.S. '67, University of Düsseldorf. Major: Dentistry. Minor: Pathology. Thesis: Dyscephaly Saethre-Chotzen: Delineation of a Syndrome. Major Adviser: Prof. C. J. Witkop.

Dennis William Szymaitis,
Canonsburg, Pa.

D.M.D. '70, University of Pittsburgh. Major: Dentistry. Minor: Anatomy. Thesis: The Influence of Various Endotoxins on the Microvasculature of the Oral Mucous Membranes. Major Adviser: Prof. L. E. Folke.

Master of Science in Electrical Engineering

Ronald William Foss, Minneapolis

B.E.E. with distinction '71, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Y. Kain.

Master of Science in Experimental Surgery

Jose Octavio Ruiz,
Mexico City, Mexico

B.S. '58, Centio University; M.D. '65, Escuela Medico Militar. Major: Experimental Surgery. Minor: Anatomy. Thesis: Studies on Small Bowel Transplantation and Preservation. Major Adviser: Prof. R. C. Lillehei.

Master of Science in Geo-Engineering

Jitendra Mohan Avasthi,
Moradabad, India

B.S. '65, M.S. '66, Indian School of Mines. Major: Geo-Engineering. Minor: Industrial Engineering. Thesis: Study of a Continuum Model for the Irregularly Jointed Rock Mass. Major Adviser: Prof. C. R. Nelson.

Philippe Jamet, Paris, France

Eng. '71, Ecole des Mines de Paris. Major: Geo-Engineering. Minor: Aerospace Engineering. Thesis: Compressive Failure of a Hollow Cylinder Subjected to External Loadings. Major Adviser: Prof. Charles Fairhurst.

Master of Science in Industrial Engineering

Bruce Donald Gregoire, Goodhue

B.M.E. '71, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Shanti Swarup Mehta, Amritsar, India

B.S.M.E. with honors '66, Punjab Engineering College. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Min-Hong Han

B.S.M.E. '64, Seoul National University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Master of Science in Mechanical Engineering

Pin Chang, Taipei, Taiwan

B.E. '69, Feng Chia College. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. E. M. Sparrow.

David Finley Liddell, Chicago, Ill.

B.S.M.E. '68, Northwestern University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

John Martin Hanlon, Riverside, Calif.

B.S.M.E. cum laude '70, University of Santa Clara. Major: Mechanical Engineering. Minor: Chemical Engineering. Thesis: High Pressure Freeze Preservation of Platelets. Major Adviser: Prof. P. L. Blackshear.

Tronze-I Wu, Toronto,
Ontario, Canada

B.S. '66, Tatung Institute of Technology. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Harwood Allan Hegna, Minneapolis

B.A.E. with high distinction '69, M.S.A.E. '71, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. Klaus Willeke.

Master of Science in Metallurgy and Materials Science

Tae Yong Kim, Seoul, Korea

B.S. '69, Seoul National University. Major: Metallurgy and Materials Science. Minor: Mathematics. Thesis: Thermo Transport in the Liquid Na-Rb System. Major Adviser: Prof. R. A. Swalin.

Master of Science in Mineral Resources Engineering

Bal Krishna Gupta, Varanasi, India

B.S. with honors '64, Ranchi University. Field of Concentration: Mineral Resources Engineering. Major Adviser: Prof. D. H. Yardley.

Master of Social Work

Luella Margaret Greene,
Minneapolis

B.A. '68, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. M. K. Newhouse.

Certificate of Specialist in Education

Dorothy JoAnn Gascoigne, Waconia
B.S. '58, M.A. '62, Mankato State College.
Field: General Educational Administration.
Major Adviser: Prof. V. D. Mueller.

Kathleen Ann Schmaltz, Minneapolis
B.A. '68, University of Minnesota. Field:
School Psychological Services. Major Adviser:
Prof. M. D. Hall.

Karen Marie McCarty, Minneapolis
B.S. '70, St. Cloud State College; M.A. '72,
University of Minnesota. Field: Counseling.
Major Adviser: Prof. W. W. Tennyson.

COLLEGE OF AGRICULTURE

Bachelor of Science

Jerry Jay Bachman, New Prague
Mark Edward Behlen, Appleton
Marvin Leo Boerboom, Cottonwood,
with distinction
Richard John Bremer, Lake City,
with high distinction
Wallace Emil Burg, A.A., Lakeland
Neil Raymond Christensen, Hector
Leif Melroy Erickson, A.A., Austin,
with distinction

Joseph Leander Geis, Shakopee,
with distinction
Galen Glen Gordon, A.A.,
Worthington
David Lorin Grussing, A.A., Raymond
James Ervin Harsdorf,
Beldenville, Wis.
Gary LeRoy Huschle, Eden Valley,
with distinction
Clarence A. Johnson, Forest Lake

*Emily Marie Johnson, A.A.,
Erskine, with high distinction*
Michael Benedict Judge, Worthington
Duane Albert Kohrs, Lake City
Mary Agnes Kuschill, Maple Plain
Richard L. Kvasnicka, Inver Grove
Heights
Joseph Imani Mallya,
Moshi, Tanzania
Michael S. M. Mashelle, Moshi,
Tanzania
John Allen Matasovsky, Lakefield
Gordon Walter Meyer, Richfield,
with distinction
Paul Michael Miller, Waseca,
with distinction
Daniel William Petersen, St. Paul,
with distinction

Mark Davis Peterson, Kerkhoven,
with high distinction
Gary Lee Raeth, Winthrop,
with distinction
Martin Patrick Reagan, St. Paul
Steven O. Redalen, A.A., Fountain
James Stuart Roebke, Hector
Allan Glen Routh, New Richland
Bruce David Rydeen, Stillwater
Donald Lloyd Schmidt, Richfield
Ben Michael Sutter, Waseca,
with high distinction
Gary Duane Tischer, Maynard
Fredrick Charles Trane, B.A.,
Pelican Rapids
Wayne Vanderwert, Jackson
Robert Alan Watlov, Minneapolis
Timothy Fredrick Wilhelm, Princeton

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Allan Glen Routh, New Richland

COLLEGE OF AGRICULTURE AND COLLEGE OF EDUCATION

Master of Education

Edwin James Thulin, B.S., Montevideo

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Karen Ann Andersen, South St. Paul
Bryce Calvin Beverlin,
White Bear Lake, cum laude
Jeffrey Robert Budd, Minnetonka
Thomas Leo Cain, Alexandria
Mark Ernest Canney, Rochester
Peter John Geier, Ortonville
Charles Calvin Gornick Jr.,
Hibbing, cum laude

Sherilynn Joan Hummel, Cary, Ill.
Robert John Mork, A.A.,
Worthington, magna cum laude
Curtis Gould Morrison, Hibbing
Craig Donald Sandgren,
Columbia Heights
Carol Ann Staffon, St. Paul
Paul N. Swenson, A.A., Rochester
Ronald Tam, Minneapolis

Dennis Neil Thaden, Dexter
Deborah Ann Westberg Weida,
St. Paul

Thomas William Weiske, A.A.,
Brainerd

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Kenneth Herbert Abel, Watertown
James David Ameluxen, Hastings
Craig Lester Anderson, Welch
Larry Robert Anderson, Minneapolis
Richard Charles Anderson,
St. Louis Park
Richard G. Asleson, Apple Valley
Robert Louis Azarski, Minneapolis
David John Beck, Norcross
Timothy Alan Bolling, Minneapolis
Edward Nathan Brill, St. Paul
Michael Wallace Broberg,
Minnetonka
Thomas Homer Brown,
White Bear Lake
Donald Albert Buker, St. Paul
Michael Kevin Burns, Hastings
Frederic Warren Bursch, Alexandria,
with distinction
Paul Jay Cairns, Hopkins
William Roger Cammack Jr., St. Paul
Richard Charles Carland, A.A.,
Minneapolis
Charles Alfred Cash Jr., Richfield
Mark Allen Cohen, A.A., St. Paul
Roland Floyd Crim, Indianapolis, Ind.
John D. Davoux, St. Paul
Michael Peter Day, St. Paul
John Malcolm Dockerty, A.A.,
Rochester
Dale Lawrence Dockin, A.A.,
Minneapolis
Christine Kay Kosse Dooley,
Aurora, Colo.
James Robert Duffy, Minneapolis
Steven John Eilertson, St. Paul
Leo Joseph Elm, St. Paul
Roger Allan Erickson, Minneapolis
Andrew Duane Feriancek,
Minneapolis
Ronald Franklin Fishback,
White Bear Lake
DuWayne Allen Forbord, Danvers,
with high distinction
Danny Sam Freier, Minneapolis
Timothy Michael Geraghty, A.A.,
St. Paul
Thomas Stephen Gerenz, St. Paul
Thomas O. Gernes, Winona
Alan Everett Geror, West St. Paul
Norman Michael Goranowski,
Cokato, *with distinction*
Larry Charles Gustafson, St. Paul
Elliott Benner Hammond,
Bloomington
David Melbourne Heesch,
Minneapolis, *with distinction*
Wayne Kenneth Henquinet, St. Paul,
with distinction
Jon Harold Herrmann, Edina
Nicholas Earl Hilt, Edina
Michael Howard Ingalls,
West St. Paul
Douglas Gordon Jacobson,
Minneapolis
Sanford Jay Jett, Anoka
Laurel Eileen Johnson, Red Wing
Michael Lee Johnson, Minneapolis
Willard Kenneth Johnson,
Minneapolis
Alan Brian Kasloff, Winnipeg,
Manitoba, Canada
Stephen Anthony Krause, Hopkins
Gerard Walter Krautkremer,
Minneapolis
Bruce Arthur Lambrecht, New Ulm
Richard Norman Larson, Minneapolis
Robert Leonard Longson, Minneapolis
Raymond Francis Lottie,
Minneapolis, *with distinction*
Wilfred Isaac Mailhot, St. Paul
Robert Craig Marshall, Richfield,
with distinction

*John Peter Mattson, Warren,
with high distinction*
 Douglas Charles Meyer, Richfield
 John Steven Mickman, Minneapolis
 John Michael Miller, Bloomington
 Richard Anthony Miller, St. Paul
 Thomas Arthur Nord, St. Paul
 Bruce Alan Olson, Minneapolis
 Patrick Gayle Orbin, Minneapolis
*Daniel Patrick O'Shea, Richfield,
with distinction*
 James Lee Overholt, St. Louis Park
 Robert John Page, Merrill, Wis.
 David Leo Parish, Virginia
 Robert Jerome Peifer Jr., Litchfield
 Warren Pennig, B.A., St. Paul
 Walter William Peterson, St. Paul
 Thomas Armand Pilon, Crystal
 Gary Thomas Precht, Minneapolis
 Steven Daniel Rapp, Minneapolis
 Donald James Rasmussen, Lakeville
*Raymond Robert Roeller Jr., St. Paul,
with high distinction*
 LeRoy Anthony Rossing, Hastings
 Mark Victor Schellschmidt,
Prior Lake
 Jerome Phillip Scherber, Rogers
 Roger Harold Schiffler, Albany
*David Michael Schiller, Detroit Lakes,
with distinction*
 Charles Thomas Schmeidel,
St. Louis Park
 Paul Jeffrey Schwalen, Breckenridge
 Phillip David Simon, Moorhead
*Robert Drew Singer, St. Louis Park,
with distinction*
 Michael Merle Skatvold, St. Paul

Barry Ron Skog, Minneapolis
 Wallace Dean Smith, B.A., Roseville
 David F. Sowada, New Brighton
 Douglas Paul Spelbrink, New Ulm
 John Hamilton Spiller, Minneapolis
 Gary Alan Stadskev, Minnetonka,
with distinction
 William Allan Stanley, Minneapolis
 James Anthony Steiner, A.A., St. Paul
 Richard Herman Stern, Fargo, N.D.,
with distinction
 Robert Gene Stevens, Cokato
 Roger D. Stevens, St. Paul
 Gary Charles Syverson, A.A.,
Minneapolis
 Michael Robert Thienes, St. Paul
 Gerald Howard Thole, St. Paul
 Kenneth Charles Thoma,
Bloomington
 David Grant Thompson Jr., St. Paul
 James Nelson Tobyne, Bloomington
 Randolph McNutt Tolmie,
Homewood, Ill.
 Gary Lee Tomsich, Columbia Heights
 William Leo Tschida, St. Paul
 Clifford Leroy Waughtel Jr.,
B.Math., Minneapolis
 Bernard Thomas Weber, Kilkenny
 Rick Gregory Werenicz, A.A.,
Minneapolis
 Thomas Frederick Wiblishauser, St.
Paul, with high distinction
 Michael Joseph Willett, B.A.,
Minneapolis
 Dale Allen Williams, Motley
 Thomas Hugh Williams, Minneapolis

CONTINUING EDUCATION AND EXTENSION

Accounting Certificate

Merlyn Dean Stensrud, Blaine

Business Administration Certificate

Merle David Garthune, Minneapolis

Social Work Certificate

Martha Cederstrand Dew, Minneapolis

Undergraduate Development Certificate in Electrical Engineering—135 credits

Richard Melvin Mansfield, Minneapolis

SCHOOL OF DENTISTRY

Bachelor of Science

Ronald Marvin Bliss, Burnsville
Michael Kevin Gavin, B.A., St. Paul,
with distinction

Michael Allen Hursh, Minneapolis
Candace Annette Mensing, A.A.,
Rochester, with high distinction

Doctor of Dental Surgery

Ronald Marvin Bliss, Burnsville
Timothy Andrew Bray, B.A., St. Paul
Kenneth Donald Carlson, B.A., Nash-
wauk
John Michael Collier, B.S.,
Minneapolis
Gary Charles Cornelison, B.S., Duluth
David Krug Dungey, Waconia
Mark Arnold Erickson, B.S., Sauk
Centre
Gary Ross Feldman, B.S., Minneapolis
Michael William Flinn, B.A., Red-
wood Falls
Michael Kevin Gavin, B.A., St. Paul
Colin Reid Gentling, B.A., Rochester
Stephen James Goepferd, Staples
Christopher Bruce Heringlake, B.S.,
Center City
Thomas Albert Ireland, B.A., Roseville
Bruce A. Iverson, B.A., Minneapolis
Donald Allen Johnson, Bloomington
Donald Edward Johnson, B.S., South
St. Paul
Gary Mark Johnson, B.A., B.S., Isanti
Gary Joseph Kloberdanz, Greeley,
Colo.

Ray Allen Maiwurm, Bloomington
Donald Wayne Maxwell, B.A., Way-
zata
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apolis
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binsdale
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ville
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* Degree conferred as of December 13, 1972.

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 distinction
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 with distinction
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 with distinction
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 City, Philippines, with high distinc-
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Tex.
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Patricia Ann Zang, Oceanside, N.Y.,
with distinction
Clarence Richard Zangel, A.A.,
Minneapolis, with distinction

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Bloomington
Barbara Ann Metz, B.A., Minneapolis

Marlene Jane Parkhurst, Ashland,
Wis.
Vernon Bert Petersen, B.S., St. Paul

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Jack Allen Blakesley, Aitkin
Dale Wallace Blomberg, Burnsville
Robert Lawrence Despot, Duluth,
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James Joseph Furlong, Grand Marais
John Charles Hanson, Northfield
Keith Edwin Hanson, St. Paul
Jon Felix Heinrich, Minneapolis
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Jerry Wilson Pottorff, Minneapolis
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Ghana
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Arnold Franklin Setzler, Osseo
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Arvid C. Erickson, Minneapolis
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Martin Joseph Gross, Blaine
Chester Peter Gumicla, Coon Rapids
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Lake St. Croix Beach
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New Brighton
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Bachelor of Applied Studies

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Bachelor of General Studies

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Jane Suzanne Dibley, Wolverton,
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Bachelor of Science

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 Judy Mae Jerzak, Ivanhoe,
with distinction
 Connie Mae Miller, Balaton,
with distinction

Patricia Gail Reisinger, Hastings
 Ann Louise Schwartz, Le Sueur,
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LAW SCHOOL

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Bachelor of Arts

Honors citations are provisional and will not become final
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Valborg Jorgensen Almaas,
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magna cum laude, Psychology
Deborah Mary Anderson, Minneapolis
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cum laude, Physiology
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magna cum laude, Child Psychology

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 Jane Elizabeth Hanson, Canby
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 Worthington
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 Linda Marie Ojala, Duluth,
magna cum laude, History

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 Kathleen Mary Ramisch, St. Paul
 Kristen Lee Rasmusson, Minneapolis
 Kathy Lou Reynolds, St. Paul
 Candy Bergstrom Riguet,
 Minneapolis, summa cum laude,
 Child Psychology
 Darrel Gene Robertson, St. Paul
 Janice Jean Robillard, Minneapolis,
 summa cum laude, Theatre
 Joanne Belle Rogin, St. Louis Park,
 summa cum laude, Physiology
 Edwin Holt Rosenberg, Minneapolis
 Bruce Carl Roskaft, Minneapolis
 Solveig Jean Rosten, White Bear Lake
 Tria Church Rouse, Santa Ana, Calif.
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 Glen Paul Sandness, Minneapolis
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 magna cum laude, Philosophy
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 Bloomington
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 JoEllen J. Sesker, Minneapolis
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 Charles Martin Silverman, St. Paul
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 summa cum laude, Anthropology
 Laura Jean Simonson, DeKalb, Ill.
 Karen Janet Sims, Minneapolis
 James Edward Sloan, Minneapolis
 Janet Lynnae Smith, Cottonwood,
 magna cum laude, International
 Relations
 Sanford Bennett Smith, Minneapolis
 James William Sorbel, Webster, S.D.
 Lionel John Spartz
 Marjorie Anne Speak, North St. Paul
 Frieda Juster Sperling, A.L.A.,
 Minneapolis, cum laude,
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 James Nickolas Stamos, Burnsville
 Charlene Myra Stangland,
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 Mead Meredith Stone, Minneapolis
 John Edward Subra, St. Paul
 John Milton Sumption, Longville
 Julie Kay Svendsen, Racine, Wis.
 Bonnie Jean Swan, Richfield
 Christine Ann Swanson, Minneapolis
 Karen Anne Szaflarski, Minneapolis
 Douglas Peter Szczech, Minneapolis
 Dhresh Kumar Tampoe, Colombo,
 Ceylon
 Nikola J. Temali, St. Paul
 Charles Hanna Thomas, Duluth
 Cynthia Marie Timmins,
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 Priscilla Jane Tjornhom,
 Minneapolis
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 David Wallace Tripp, Owatonna
 John Delwin Troje, St. Paul

Dorothy Mary Turner, Minneapolis,
magna cum laude, Social Welfare
 Julie Deone Uber, Owatonna
 Lynda Kay Udager, Brooklyn Center
 Mark Stephen Vinless, A.A., Austin
 Kay Ann Vogelpohl, New Ulm
 Jeanne Lynette Wabbe, Waconia
 Clara Livia Walter, Minneapolis
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 Cheryl Kay Weibeler, Minneapolis
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 James George Williamson, Winona
 Ann Tarleton Winchester,
 Minneapolis
 Steven Francis Wingert, Anoka,
magna cum laude, Economics
 Wendy Lynn Wink, St. Cloud,
summa cum laude, American
 Studies

Howard Bernard Wittels, St. Louis
 Park, *summa cum laude*,
 Physiology
 Mary Kay Wittgenstein, St. Paul
 Sue Carol Wojciak, Minneapolis
 John Craig Wood, Robbinsdale
 Mary Joan Yaeger, Edina, *summa*
cum laude, Psychology
 James Skip York, A.A., Excelsior
 James Maxwell Young, Minneapolis,
cum laude, History
 Neala Janis Yount, Minneapolis,
summa cum laude,
 Interdepartmental
 Yousef Botrous Yousef,
 Khartoum, Sudan
 James H. Zachman, Minneapolis
 Weldon James Zaske, Redwood Falls
 Sara Jean Zens, Minneapolis
 Barbara Irene Zimmerman, A.L.A.,
 Fridley

Bachelor of Elected Studies

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 Steven Roy DuBois, St. Paul
 Dennis John Flaherty, A.A., St. Paul
 James Minson Galt, St. Paul
 Claudia Elizabeth Gisselbeck, Edina
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 Craig Allen Reichow, St. Paul
 Dale Robert Sommers, Northfield
 Beth Williamson, Gaylord

Bachelor of Fine Arts

Barbara Elizabeth Byrne, St. Paul
 Judy J. Cowden, Bemidji,
summa cum laude, Music
 Ann Christine DeKoster, Hutchinson
 Charles Emil Dunahey, A.A.,
 Richfield
 Richard Alan Haskin, St. Paul

Richard Allen Haugstad, Caledonia
 Judith Ann Katz, Minneapolis
 Richard Allen Larson, Cambridge
 William Alan Nelson, Robbinsdale
 Kathleen Ann O'Connell, A.A.,
 Bloomington
 Lionel John Spartz, Wilmont

Bachelor of Science

Ronald Lynn Johnson, Fertile

MEDICAL SCHOOL

MEDICAL TECHNOLOGY

Bachelor of Science

*Edward Eugene Daigle, Deer River,
with distinction**
Judith Ann Hawkinson, Minneapolis*

Nancy Marie Kochevar, Chisholm*
William Henry Nelson*

MEDICINE

Bachelor of Science

Albert Eben Henderson, Nashwauk
Bruce Ira Idelkope, Minneapolis
James Melvin Jaranson, B.A.,
Thief River Falls

Steven Samuel Lebow, Minneapolis
Darrel James Rosen, Minneapolis

Doctor of Medicine

Thomas Dean Ahrens, B.A., Duluth
Donald Clarence Campbell II, B.S.,
Rochester
James Sheldon Erwin, B.A.,
Caledonia
Gary Clark Fifield, B.A., Eden Prairie
Marvin Arthur Heuer, B.A., Mankato
James Melvin Jaranson, B.A.,
Thief River Falls
Robert Alan Krause, B.S.,
Minneapolis

Barbara Ann Lindman, B.A.,
Brooklyn Center
David Denton Nordin, B.A.,
Lake Lillian
Charles Edward Pexa, B.A.,
Lonsdale
Daniel Richard Sherry, B.S., Cloquet
Steven John Shirilla, B.S., Aitkin
Raymond L. Struck, B.A., Madison
Thomas Edward Timmons, B.A.,
Brainerd

PHYSICAL THERAPY

Bachelor of Science

Lynne Kay Bebermeyer, Stillwater
Anne Celeste Buechele, Minneapolis,
with high distinction
Robin Lee Cedarleaf, Mahtomedi,
with distinction
Jerline Renae Holte Elfert, Grygla,
with distinction
Richard Warner English, Cloquet,
with distinction
Richard C. Fauver, Stewartville

Victoria Ann Freppert, St. Paul,
with distinction
Kristine Joyce Gjerde, Virginia
Linda Jean Guite, Barnum
Linda Rose Gustafson, Minneapolis,
with distinction
Monica Roseanne Risbrudt Hanson,
Minneapolis, *with distinction*
Thomas Everett Hawkinson,
Chisago City

* These degrees are conferred subject to the completion of practical work prior to June 16, 1973.

Margaret Mary Heuer, Minneapolis,
with distinction
Susan Cora Krier, Tomah, Wis.
Sherrie Lee Hartmann Lange,
Keewatin
Ronna Sue Lee, Minneapolis,
with distinction
Linda Dehen Levitz, Anoka
Randy Frank McChesney,
Farmington, with distinction
Lynne Marie Nelson, Ada

Craig Douglas Reese, Bird Island,
with high distinction
Michael William Rosner Jr.,
Minneapolis, with high distinction
Kathleen Anne Saiki, Mankato,
with distinction
Suzanne Marie Trebnick, Bovey,
with distinction
Carol Jean Vikstrom, A.A.,
Minneapolis, with high distinction

COLLEGE OF PHARMACY

Bachelor of Science

Fred Gorden Friedman, Ironwood,
Mich.
William A. Parker, St. Paul,
with distinction

Pamela Rae Stiles, Richfield,
with high distinction

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Thomas Edward Aasve, Savage
James Alan Holm, St. Louis Park
Jeffrey Peter Paulson, Owatonna

Ronald Prentice, Robbinsdale
Tseng Chiang Wong, Hong Kong,
with high distinction

Bachelor of Agricultural Engineering

Ronald John Adrian, Hastings
Gary Curtis Persons, B.S., St. Charles

Albert Joseph Sturm Jr., St. James

Bachelor of Architecture

Mark Iver Aspaas, Dell Rapids, S.D.
Steven Harold Belmont, B.E.D.,
Henning
Lynn Arthur Berg, Clarkfield
Robert Brian Davis, Minneapolis,
with distinction
C. Richard Elias, Kasson
Marquis X. Erickson, B.A., Savage

Jerome Allen Maier, Bird Island
John Arthur Oehlke, B.A.,
Neenah, Wis.
Michael Perry Shields, Minneapolis
David John Showalter, Minneapolis
Thomas Allsopp Thacher,
Minneapolis, with distinction
Armin Lowell Wessel, Minneapolis

Bachelor of Chemical Engineering

Sergio Caceres, Santiago, Chile,
with distinction

Casimir Roman Drabik, St. Paul
David Fruen Nissen, Lane, S.D.

Bachelor of Chemistry

Sai-Chak Or, Hong Kong, with high distinction

Bachelor of Civil Engineering

Brian Gene Amundson, Brookings,
S.D., with distinction

Michael Roger Bengston, Kandiyohi

Roger Evan Bierbaum, Eyota,
with high distinction

Gary Lee Bunkers, Remsen, Iowa,
with distinction

Gerald Virgal Chezik, North St. Paul

Thomas Anthony Colbert,
Minneapolis

James John Craig Jr., Bloomington

Stephen Douglas Gaetz, St. Cloud,
with distinction

Michael Frank Garrett, Rockford, Ill.,
with high distinction

Brian Edward Golberg, B.A.,
Minneapolis

Kenneth George Haider, St. Paul

Andrew David Halverson, Minneapolis

David R. Hausler, Wayzata

Thomas Lee Horwitz, St. Paul

Paul Leslie Kirkwold, St. Paul

Dennis Dean Klein, Sandstone

Harold Calvin Larson, B.S., Blaine

Stanton P. Michal, Minneapolis

Philip Everett Miller, B.A., Waseca

Peter John Molinaro, Fridley

Keith Herbert Nelson, A.A.,

Minneapolis, with distinction

Marian Peschel, Minneapolis

Ahmad Rategh, Isfahan, Iran

Daniel James Reinartz, A.A., Austin

Randall Joseph Rosauer, St. Paul

James Arnold Salmi, Duluth,

with distinction

Joseph Lester Stapf, Farmington

Michael Parnell Sullivan, Minneapolis,

with high distinction

James Wallace Swanson, Maynard

Holger Theobalt, Crystal

George Myron Waldow, La Crescent

Daryl Ervin Woker, Owatonna,

with distinction

James Lowell Wright,

Brooklyn Center

Bachelor of Computer Science

Andrew James Holewa, B.E.E., Minneapolis

Bachelor of Electrical Engineering

James Alvin Dahlberg, New Brighton

Ervin Peter Fuchs, Avon

Kenneth Edward Weber, St. Paul

Douglas Alan Wright, St. Paul

Bachelor of Environmental Design

Kenneth Bing Mah, Calgary,
Alberta, Canada

Scott Lewis Mohr, Stillwater
William Charles Wade, Minneapolis

Bachelor of Geo-Engineering

Leon J. Mertesdoff, Darwin

Bachelor of Landscape Architecture

Scott Alan Bracke, St. Paul
John Thomas Hellerstedt, Babbitt

John Robert Swanson, Minneapolis

Bachelor of Mathematics

Terrance Lee Brown, Minneapolis
Dale Richard Fredrickson,
Robbinsdale, *with distinction*
David Louis Kuhns, St. Paul

Richard Paul Madden, Minneapolis
Ronald Lee Nolte, Fairmont
John Frederick Pepple, Minneapolis,
with high distinction

Bachelor of Mechanical Engineering

Robert Kevin Aasen,
Columbia Heights
Ward Allen Blandin, Edina
Kelly Gene Bristol, Edina
Daniel Andrew Bruzek, New Prague,
with distinction
Ernesto Cortisoz Jr., Barranquilla,
Colombia
Rodney Darryl Diseth, Detroit Lakes,
with distinction
Daryl Robert Engwall, Minneapolis
Dale Edward Ewers, Rochester
Timothy Patrick Fogarty, Rochester
Douglas Dwayne Hahn, Preston
Patrick Charles Hyde, Minneapolis
Jeffrey Lee Ingebrigtsen, Minneapolis

Steven Allan Kruger, St. Paul
James Gordon Lilyquist, Duluth
Karl Martin Nelson, Minneapolis
Steven Raymond Nelson, A.A.,
North St. Paul
Patrick Michael Perrizo, Benson
Roger Alan Peterson, West St. Paul,
with distinction
John Frederick Runyon, St. Paul
Steven Shigeo Sato, A.A., Roseville
George Jacob Schaefer, Brainerd
Leslie Harold Schult, South St. Paul
Gary Lynn Schwantz, Plainview,
with distinction
John Gregory Shish, Minneapolis
Mohammed Zafarullah, B.S., India

Bachelor of Mineral Engineering

Abdol Mehdi Salehi, Kafsanzan, Iran

Bachelor of Physics

Michael A. Colson, Minneapolis
Riley Carl Hendrickson, Duluth
Mark Thomas LeMere, Rosemount
Robert Glenn Stolpe, A.A.,
Mountain Iron

Charles Edward Swanson, Rochester,
with high distinction
Thomas Albert Wilson, Bloomington,
with high distinction

Bachelor of Science in Geology

Timothy James Callahan,
Minneapolis
Craig Edward Ellestad, A.A.,
Blue Earth, with distinction

Gary William Molitor, Coon Rapids
Tony Joseph Nemgar, Eveleth

Bachelor of Science in Geophysics

Gerald Fred Koehler, Minneapolis

UNIVERSITY COLLEGE

Bachelor of Arts

Thomas Philip Murtha, Minneapolis

Sylvester G. Sahme Sr.,
Warm Springs, Ore.

Bachelor of Science

Robert Cyril Altman, St. Paul
Suzanne Marie Anderson, G.D.H.,
Moorhead
Beverly Dumas Babbitt, Minneapolis
Lois Becker, Minneapolis
Richard Mark Birger, St. Paul
Robert John Bles, North St. Paul
John Gleason Curry Jr., Minneapolis
Gregory Wallace Dunn, Hopkins
Gabriel Fernandes, Barkur, India

Marlys Joene Hedtke, A.A., Excelsior
Irwin Raymond Panek Jr., A.A.,
St. Paul
Lee Nelson Rankin, Glassport, Pa.
Kenneth Robert Reichstadt, St. Paul
Charles Arthur Risdall, North Oaks
James Loren Schrepel, Eureka Center
Mark Larry Silverstein, Minneapolis
Mark Scott Untiedt, Edina
James Alexander Young, Minneapolis

March Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Steven R. Dubois, St. Paul

Craig A. Reichow, Minneapolis

Second Lieutenant, Military Intelligence

Robert K. Aasen, Columbia Heights

Second Lieutenant, Signal Corps

Forrest J. Hassell, White Bear Lake

Holger Theobalt, Minneapolis

June Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Arthur Eckert Bilyeu, Minneapolis

B.A. '61, Hope College; M.A. '66, Western Michigan University. Major: Educational Administration. Minor: Educational Psychology. Thesis: A Taxonomy of Problems Identified by Minnesota Administrators of Special Education as Defined Through Latent Partition Analysis. Major Adviser: Prof. V. D. Mueller.

Raymond Conrad Weidner, Hopkins

B.A. '49, University of South Dakota; M.Ed. '57, South Dakota State University. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationship Between Teacher Self Appraisal and Student Achievement and Attitude. Major Adviser: Prof. N. C. Nickerson.

Betty Jo Zander, Minneapolis

B.F.A. '48, Ohio State University; B.S. '64, M.A. '70, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Junior High Students View Themselves as Learners: A Comparison Among Eighth Grade Students. Major Adviser: Prof. R. F. Weatherman.

Doctor of Philosophy

Robert Carey Adams, Cranston, R.I.

A.B. '54, M.A. '61, University of Notre Dame. Major: History. Minor: Political Science. Thesis: The Corps of Noblesse of Provence in the Eighteenth Century: A Besieged Order Defends Its Privileges. Major Adviser: Prof. P. W. Bamford.

Frederick Joseph Adelman,
Bloomington

A.B. with honors '56, San Diego State College; M.Ed. '63, University of Illinois. Major: Education. Minor: Supporting Program. Thesis: The Bachelor of Liberal Studies Program at the University of Oklahoma: An Evaluation of a Functional Equivalent in Adult Education. Major Co-Advisers: Profs. R. E. Eckert and S. H. Popper.

Lorado Samuel Adelmam, Blue Earth

B.A. '60, Westmar College; M.A. '68, University of Minnesota. Major: Art History. Minor: Supporting Program. Thesis: The Flamboyant Style in French Gothic Architecture. Major Adviser: Prof. C. D. Sheppard.

William Hoffman Ahaus,
Richmond, Ind.

B.S. '64, M.A. '67, Indiana University. Major: Speech Science, Pathology, and Audiology. Minor: Psychology. Thesis: Temporary Threshold Shift Following Exposure to Intermittent Noise with Short Burst Duration. Major Adviser: Prof. W. D. Ward.

Herbert Lyle Archibald,
West Lafayette, Ind.

A.B. '63, University of California, Berkeley; M.A. '67, San Jose State College. Major: Ecology. Minor: Biometry. Thesis: Spring Drumming Activity and Space Use of Ruffed Grouse. Major Adviser: Prof. J. R. Tester.

Teara Archwamety,
Bangkok, Thailand

B.A. magna cum laude '66, Chulalongkorn University; M.A. '70, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effect of Training in Word Prediction Skills on Reading Behavior. Major Adviser: Prof. S. J. Samuels.

Mehar C. Arora, Menomonie, Wis.

B.A. '49, Hindu College; M.A. '52, Panjab University; M.S. '65, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Methodology for Establishing Production and Cost Functions for Vocational Education Programs. Major Adviser: Prof. H. F. Nelson.

Lalit Mohan Arya, Gonda, U.P., India

B.S. '64, M.S.Ag. '67, U.P. Agricultural University; M.S. '69, University of Minnesota. Major: Soil Science. Minor: Supporting Program. Thesis: Water Flow in Soil in Presence of Soybean Root Sinks. Major Co-Advisers: Profs. G. R. Blake and D. A. Farrell.

Robert Hayes Ashton,

Lynnville, Tenn.

B.S. '68, Middle Tennessee State University; M.B.A. '69, Florida State University. Major: Business Administration. Minor: Psychology. Thesis: Judgment Formation in the Evaluation of Internal Control: An Application of Brunswick's Lens Model. Major Adviser: Prof. R. G. Berryman.

Michael Harvey Barnes, St. Paul

B.S. '64, M.S.M.E. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Study of the Post-Flame Gases of Hydrocarbon-Air Flames. Major Adviser: Prof. E. A. Fletcher.

Mohamed Amr Barrada, Cairo, Egypt

B.A. '59, University of Cairo; M.A. '63, American University, Cairo. Major: English. Minor: Linguistics. Thesis: Stylistic Inquiry: Issues, Problems, and Solutions. Major Adviser: Prof. H. B. Allen.

Mary Farrell Bednarowski,

Milwaukee, Wis.

B.A. '64, Marquette University; M.A. '69, Duquesne University. Major: American Studies. Thesis: Nineteenth-Century Spiritualism: An American Attempt at Scientific Religion. Major Adviser: Prof. M. C. Turpie.

Eric Peter Berg, Minneapolis

B.A. '67, Carleton College. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: A Synthesis of 6-Dimethylamino-5-Methyl-4,4-Diphenyl-3-Heptanone: 5-Methylmethadone. Major Adviser: Prof. P. S. Portoghesi.

Douglas George Berry, St. Paul

B.A. magna cum laude '61, B.S. '62, M.D. '64, University of Minnesota. Major: Pharmacology. Minor: Biochemistry. Thesis: Investigations of Sympathomimetic Agents on Platelet Aggregation *in vitro*. Major Adviser: Prof. J. W. Miller.

Valerie Teresa Bigelow, Glencoe, Md.

B.A. '66, Gettysburg College. Major: Psychology. Minor: Pharmacology. Thesis: The Effects of Mescaline Administered Before or During Embryogenesis upon the Development and Behavior of the Chick. Major Adviser: Prof. G. T. Heistad.

James Andrew Bikkie, Brainerd

B.S. '56, St. Cloud State College; M.A. '57, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Meaning of Selected Vocational Education Concepts to Vocational Education Leaders. Major Adviser: Prof. W. G. Meyer.

Roger Fred Block, Largo, Fla.

B.S.M.E. '62, M.S. '63, University of Wisconsin, Madison. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Measurement of Local Fluid Velocities in Rotational Couette Flow Using the Doppler Shift of Scattered Laser Radiation. Major Adviser: Prof. R. J. Goldstein.

James Louis Bowyer, Cottage Grove

B.S. '64, Oklahoma State University; M.S. '66, Michigan State University. Major: Forestry. Minor: Industrial Engineering. Thesis: An Evaluation of the Profit Potential of Chip, Lumber, Plywood, and Particleboard Production from Minnesota Aspen. Major Adviser: Prof. J. G. Haygreen.

Alice M. Brekke, Riverside, Calif.

B.S. '52, Mayville State College; M.S. '61, North Dakota State University. Major: Education. Minor: English. Thesis: Evaluational Reactions of Mexican-American and Anglo-American Students to Selected Samples of Spoken Language. Major Adviser: Prof. G. L. Piché.

David Milner Byers,

Hasbrouck Heights, N.J.

A.B. '63, Assumption College; M.A. '66, Seton Hall University. Major: English. Minor: Supporting Program. Thesis: An Annotated Biography of the Criticism on Emily Brontë's *Wuthering Heights*, 1847-1947. Major Adviser: Prof. W. A. Madden.

Glenn Wallace Cheatham,

Minneapolis

B.A. summa cum laude '66, M.S. '68, San Francisco State College. Major: Education. Minor: Forestry. Thesis: Construction of an Attitude Scale for Evaluation of Student Attitudes Toward Recreation. Major Adviser: Prof. M. U. Wilson.

Fay G. Cohen, Seattle, Wash.

B.A. magna cum laude '65, Radcliffe College; M.Ed. '66, Harvard University. Major: Anthropology. Minor: Law. Thesis: The Indian Patrol in Minneapolis: Social Change in an Urban Context. Major Adviser: Prof. E. A. Hoebel.

Herbert Brockett Cole, Madison, Wis.

B.A. '60, Kenyon College. Major: Philosophy. Minor: English. Thesis: The Relevance of the Intentions of the Artist to Art Criticism. Major Adviser: Prof. H. E. Mason.

Robert George Cooper Jr.,
Austin, Tex.

B.A. '68, Pomona College. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Study of Conceptual Ability as Assessed by Two Rule-Learning Tasks. Major Adviser: Prof. M. C. Templin.

Howard William Cox, Mattoon, Ill.

B.S. '68, University of Illinois; M.S.Ch.E. '70, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Shear Heating of Polymer Melts in Die Flows. Major Adviser: Prof. N. R. Amundson.

Chet Arthur Creider III,
Minneapolis

B.A. '65, Reed College; M.A. '68, University of Minnesota. Major: Anthropology. Minor: Supporting Program. Thesis: Systems of Conversational Interaction: A Study of Three East African Tribes. Major Adviser: Prof. H. B. Sarles.

Edwin Lane Crosby, Minneapolis

B.A. '61, M.A. '66, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Concern for All: A Political Philosophy. Major Adviser: Prof. M. Q. Sibley.

Peter Reynold Dahl, St. Paul

B.A. '68, Macalester College. Major: Psychology. Minor: Internal. Thesis: Memory for Prose Material. Major Adviser: Prof. P. W. Fox.

David Woolsey Dent,
San Diego, Calif.

B.A. with high honors '66, M.A. '68, San Diego State College. Major: Political Science. Minor: Supporting Program. Thesis: Community Cooperation in Colombia: A Comparative Study of Public-Private Sector Relationships in Two Urban Centers. Major Adviser: Prof. R. W. Benjamin.

James Frederick Dietz, Northfield

B.A. '67, St. Olaf College. Major: Analytical Chemistry. Minor: Inorganic Chemistry. Thesis: Chemical and Electrochemical Reactions of Mercury in Fused $\text{NaNO}_3\text{-KNO}_3$. Major Adviser: Prof. H. S. Swofford, Jr.

Russell Allan Dondero,
Roseburg, Ore.

B.A. '64, Whitman College; M.A. '68, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: Toward the Democratic Community: A Critical Evaluation of Democratic Theory from a Contemporary Radical Perspective. Major Adviser: Prof. M. Q. Sibley.

John Alfred Dougherty Jr., St. Paul

B.A. '69, University of Minnesota. Major: Psychology. Minor: Pharmacology. Thesis: A Behavioral and Pharmacological Analysis of Cocaine Self-Administration in the Rat. Major Adviser: Prof. R. W. Pickens.

Robert Wendell Douglass,
Chambersburg, Pa.

B.S. '56, M.S. '61, Pennsylvania State University. Major: Forestry. Minor: Supporting Program. Thesis: The Use of High Altitude Photography for Forest Disease Detection and Vegetation Classification. Major Adviser: Prof. M. P. Meyer.

Duane Elmer Eklin, Minneapolis

B.S., M.Ed. '54, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Study of the Influence of a Remedial Perceptual-Motor Activity Program on the Academic Performance of Retarded Junior High School Students. Major Adviser: Prof. J. M. Wilson.

Bruce Waldo Ellis, St. Cloud

B.A. '61, Jamestown College; M.S. '62, University of North Dakota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Shot Noise and Thermal Noise in P-N Junction Diodes. Major Adviser: Prof. Aldert van der Ziel.

Waldo G. Espinoza,
Concepcion, Chile

Ing.Agron. '62, University of Concepcion; M.S. '66, University of Minnesota. Major: Soil Science. Minor: Supporting Program. Thesis: Physical, Chemical and Organic Properties of Volcanic Soils from Chile as Related to NO_3^- Retention. Major Adviser: Prof. R. S. Adams, Jr.

Donald Eugene Etnier,
Eau Claire, Wis.

B.B.A. with distinction '56, M.S. '60, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: The Switch from Life: Disclosure Methods and Their Effect upon Investors' Decisions. Major Adviser: Prof. R. G. Berryman.

Robert Ambrose Fallon, Eden Prairie
B.S. '53, St. Mary's College; M.A. '62, De Paul University. Major: Education. Minor: Curriculum and Instruction. Thesis: The Contingency Contracting Learning System: Its Effect upon Elementary School Mathematics Achievement, Personal and Social Adjustment, and Attitude Toward School. Major Adviser: Prof. V. L. Hendrix.

Alfred Marshall Fenstad,
Grand Marais

B.S. with high distinction '63, M.S.D. '68, University of Minnesota. Major: Anatomy. Minor: Dentistry. Thesis: The Influence of Female Sex Hormones on the Oral Mucous Membrane. Major Adviser: Prof. L. E. Folke.

Tewodros Fesesse, Addis Ababa,
Ethiopia

B.S. '62, University of Addis Ababa; M.S. '64, University of Michigan. Major: Physics. Minor: Supporting Program. Thesis: Pion Production in Three Prong Events of np and k_{LP} Interactions. Major Adviser: Prof. Ernest Coleman.

Alan Marvin Fink, Hartford, Conn.

A.B. summa cum laude '68, Bowdoin College. Major: Child Psychology. Minor: Psychology. Thesis: Application of Social Learning Principles to a High School Psychology of Adjustment Curriculum: Effects on Extra-Classroom Behavior. Major Adviser: Prof. J. C. Masters.

James Donald Flanagan,
Scarsdale, N.Y.

A.B. '66, Georgetown University. Major: English. Minor: Classics. Thesis: The Satirist-Intriguer in Elizabethan and Jacobean Comedy. Major Adviser: Prof. T. S. Clayton.

Charles William Forsberg,
Minneapolis

B.A. '64, M.A. '68, University of Minnesota. Major: Music. Minor: Music Education. Thesis: *Discantus Pacem*. Major Adviser: Prof. Paul Fetler.

Ferde William Fritsche, St. Paul

B.A. '64, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: The Relationship of Hypnotic Susceptibility to Cognitive Style and Trust. Major Adviser: Prof. A. H. Roberts.

Peter John Frost, Boksburg,
South Africa

B.S. '60, University of Witwatersrand; M.S. '67, University of South Africa. Major: Industrial Relations. Minor: Supporting Program. Thesis: The Effects of Goals, Goal Sequencing and Task Process on the Level of Individual Performance: An Experimental Study. Major Adviser: Prof. T. A. Mahoney.

Judith Joy Fryer, Minneapolis

B.A. magna cum laude '61, M.A. '67, University of Minnesota. Major: American Studies. Thesis: The Faces of Eve: A Study of Women in American Life and Literature in the Nineteenth Century. Major Adviser: Prof. M. C. Turpie.

Ramachandra Rao Gadde,
Avanigadda, India

B.S. '58, Andhra University; M.A. '60, Benares Hindu University; M.S. '66, Polytechnic Institute of Brooklyn. Major: Analytical Chemistry. Minor: Supporting Program. Thesis: Electrochemical Studies of Nitrite Oxidation and Reduction. Major Adviser: Prof. Stanley Bruckenstein.

Joseph Frederick Germono,
Madison, Wis.

B.S. '64, M.S. '65, University of Wisconsin, Madison. Major: Speech Science, Pathology, and Audiology. Minor: Psychology. Thesis: Investigation of the Interaction Between Response Contingent Stimuli and Discriminative Stimuli with Respect to the Response Class of Stuttering. Major Adviser: Prof. R. R. Martin.

Frank Clifton Grammer,
Batesville, Ark.

B.S. '66, D.D.S. summa cum laude '68, Washington University; M.S.D. '72, University of Minnesota. Major: Anatomy. Minor: Dentistry. Thesis: Tissue Responses Following Sagittal-Split Osteotomy of the Mandibular Ramus. Major Adviser: Prof. Anna-Mary Carpenter.

Robert Mack Granger, Jeanerette, La.

B.S. '64, University of Southwestern Louisiana; M.S. '69, University of Tennessee. Major: Plant Breeding. Minor: Supporting Program. Thesis: Selection for Caryopsis Percentage Weight in Three Oat (*Avena sativa* L.) Populations. Major Adviser: Prof. D. C. Rasmusson.

Lawrence William Gubbe,
Minnetonka

B.S.C.E. '66, M.S.C.E. '69, University of Minnesota. Major: Civil Engineering. Minor: Mathematics. Thesis: A Formal Solution for the Vibration of the Distributed-Parameter Model of the Basic Two-Member Truss. Major Adviser: Prof. L. E. Goodman.

Helen Strieter Hagnauer,
Davenport, Iowa

B.A. '65, Augustana College; M.S. '67, University of Iowa. Major: Inorganic Chemistry. Minor: Supporting Program. Thesis: Study of Metal-Nitrogen Bonding in Ammonia and Pyridine Solutions Using Laser Raman Spectroscopy. Major Adviser: Prof. R. S. Tobias.

Patria Young Halliday,
International Falls

B.S. '59, Bemidji State College; M.A. '68, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: Dualities, Multiplicities, and the Pursuit of Wholeness in the Work of Doris Lessing. Major Adviser: Prof. G. T. Wright.

Eloise Ann Hamann, Minnetonka

B.A. '64, University of Iowa; M.A. '67, Creighton University. Major: Mathematics. Minor: Internal. Thesis: On the R-Invariance of $R[X]$. Major Adviser: Prof. Melvin Hochster.

Dean Cyrus Hansen, Minneapolis

B.A. '64, University of Minnesota. Major: Entomology. Minor: Supporting Program. Thesis: Systematics and Morphology of *Diamesa Meigen* 1835 (Diptera: Chironomidae). Major Adviser: Prof. E. F. Cook.

Roger Allan Hanson

B.A. '64, Concordia College; M.A. '67, University of Minnesota. Major: Political Science. Minor: Philosophy. Thesis: Majority Rule and Policy Allocations: A Critique of *The Calculus of Consent*. Major Adviser: Prof. Edwin Fogelman.

Mohammad Zahirul Hassan,
Buffalo, N.Y.

Cand. '66, Friendship University; M.S. '60, Patna University. Major: Analytical Chemistry. Minor: Supporting Program. Thesis: Ring-Disk Studies Involving Mercury at Platinum and Mercury-Coated Platinum Electrodes. Major Adviser: Prof. Stanley Bruckenstein.

Joyce Pauline Olson Heisick,
Minneapolis

B.S. '69, M.S. '70, Utah State University. Major: Education. Minor: Business Administration. Thesis: An Analysis of Selected Post-

Secondary Business Programs in Kansas. Major Adviser: Prof. R. G. Price.

Martin Yen-Gen Hsieh

B.S. '65, National Taiwan University; M.S. '67, National Tsing-Hua University. Major: Metallurgy and Materials Science. Minor: Supporting Program. Thesis: Self-Diffusion of Liquid Radium and Potassium. Major Adviser: Prof. R. A. Swalin.

Dorothy Layton Johansen,
Fargo, N.D.

B.A. '55, University of Pennsylvania. Major: Physical Chemistry. Minor: Supporting Program. Thesis: A Determination of the Ground State Rotational Constants of Ethylene. Major Adviser: Prof. John Overend.

James Lee Johnson, Louisville, Ky.

B.S.E.E. with high honors '65, University of Louisville; M.S. '67, University of Minnesota. Major: Mathematics. Minor: Electrical Engineering. Thesis: A Measure-Theoretic Study of Group Extensions of Dynamical Systems. Major Adviser: Prof. H. B. Keynes.

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B.A. '63, University of North Dakota. Major: Mass Communication. Minor: Sociology. Thesis: Leisure and the Mass Media: A Study of the Communications Behavior of Participants in a Major Area of Leisure Activity. Major Adviser: Prof. P. J. Tichenor.

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B.A. '54, University of Denver; B.D. '57, Drew University; M.A. '68, University of Minnesota. Major: Speech-Communication. Minor: Theatre Arts. Thesis: A Rhetorical Study of Religious Drama as a Form of Preaching: An Exploration of Drama as a Complement to Monolog Preaching. Major Adviser: Prof. R. L. Scott.

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B.S. '64, Gonzaga University. Major: Chemical Engineering. Minor: Physical Chemistry. Thesis: The Effect of Magnetic Fields upon Gas Transport Properties. Major Adviser: Prof. J. S. Dahler.

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B.B.A. magna cum laude '67, Gonzaga University; M.B.A. '69, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: A Comparison of Three Methods of Teaching Skill in Reflecting Feeling. Major Adviser: Prof. A. R. Solem.

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B.A. '59, St. Mary's College; M.S. '61, Purdue University. Major: Physics. Minor: Mathematics. Thesis: Observation of Circulation in Rotating Superfluid Helium. Major Adviser: Prof. William Zimmerman, Jr.

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B.A. '66, M.A. '69, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: The Man of Feeling in America: A Study of Major Early American Writers' Attitudes Toward Benevolent Ethics and Behavior. Major Adviser: Prof. E. M. Griffin.

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B.A. *summa cum laude* '68, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Effects of Intensity on the Perception of Speech and Nonspeech. Major Adviser: Prof. J. J. Jenkins.

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B.S. '64, M.S. '68, National University. Major: Horticulture. Minor: Plant Physiology. Thesis: A Study of Factors Influencing Inter-ocular Cavitation in Snap Bean Pods (*Phaseolus vulgaris* L.). Major Adviser: Prof. P. E. Read.

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B.A. '61, University of Minnesota; M.A. '63, University of Wisconsin. Major: Classics. Thesis: A History of Bithynia Under Roman Rule, 74 B.C.-14 A.D. Major Adviser: Prof. T. B. Jones.

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M.A. '69, University of North Dakota. Major: History. Minor: Scandinavian. Thesis: A Study in Immigrant Regionalism: The Norwegian-American *Bygdelad*. Major Adviser: Prof. R. J. Vecoli.

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B.A. *magna cum laude* '53, Wheaton College; B.D. '56, Fuller Theological Seminary. Major: Theatre Arts. Minor: Supporting Program. Thesis: A Biblical Doctrine of Man and Plays Published by the Office for Advanced Drama Research. Major Adviser: Prof. A. H. Ballet.

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B.S. '47, Jackson State College; M.A. '51, Northwestern University. Major: Education. Minor: Supporting Program. Thesis: Job Motivations and Satisfactions of Science Teachers in Predominantly Negro Colleges. Major Co-Advisers: Profs. R. E. Eckert and C. R. Bruning.

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B.A. '66, University of New Hampshire; M.A. '68, University of Minnesota. Major: American Studies. Thesis: The Humanistic Orientation in Twentieth-Century American Social Science. Major Adviser: Prof. David Cooperman.

Karl Dean Mielke, Lind, Wash.

B.S. '68, Washington State University. Major: Agricultural Economics. Minor: Economics. Thesis: The Demand for Animal Feed: An Econometric Analysis. Major Adviser: Prof. D. C. Dahl.

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B.A. '57, College of St. Thomas. Major: Metallurgical Engineering. Minor: Supporting Program. Thesis: Diffusion of Germanium and Silicon in Single Crystal Silicon. Major Adviser: Prof. R. A. Swalin.

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B.S. '68, M.S. '69, Stout State University. Major: Education. Minor: Supporting Program. Thesis: A Model for Inventorying and Predicting the Input to and Output from Skill Training Institutions in Developing Countries. Major Adviser: Prof. D. J. Pucel.

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B.S. '57, Kansas State University; M.S. '59, Pennsylvania State University. Major: Ecology. Minor: Biometry. Thesis: Communication and Red Fox Dyads: A Computer Simulation Study. Major Adviser: Prof. D. B. Siniff.

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B.A. '68, Stanford University. Major: Psychology. Minor: Supporting Program. Thesis: An MMPI Codebook for a University Mental Health Clinic. Major Adviser: Prof. L. K. Sines.

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B.E. '60, M.E. '64, University Engineering College, Bangalore. Major: Civil Engineering. Minor: Supporting Program. Thesis: Minimum Weight Design of Structural Systems Under Prescribed Buckling Loads. Major Adviser: Prof. P. P. Christiano.

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B.A. '67, University of Wisconsin. Major: Fisheries. Minor: Supporting Program. Thesis: Differentiation of Intralacustrine Subpopulations of Bluegills, *Lepomis Macrochirus* (Rafinesque) in Two Minnesota Lakes. Major Adviser: Prof. L. L. Smith, Jr.

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B.S. '64, Michigan Technological University; M.S. '68, University of Minnesota. Major: Forestry. Minor: Soil Science. Thesis: Impact of Water Quality and Quantity on Forest Recreation in the North Central Region, a Minnesota Case Study. Major Adviser: Prof. A. C. Mace, Jr.

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M.D. '65, Ewha Womans University. Major: Pharmacology. Minor: Biochemistry. Thesis: Determination of Drug Transfer Across Biological Membranes: Comparative Study on the Passage of Drugs into the Central Nervous System and Their Placental Transfer and Fetal Localization in the Pregnant Rat. Major Adviser: Prof. B. L. Mirkin.

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B.S. '61, M.S. '66, Seoul National University. Major: Plant Pathology. Minor: Botany. Thesis: Factors Affecting Resistance of *Pisum sativum* to Root Infection by *Pythium ultimum*. Major Adviser: Prof. Thor Kommedahl.

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B.S. with distinction '63, M.S. '67, University of Minnesota. Major: Soil Science. Minor: Biochemistry. Thesis: The Influence of Polysaccharide Structure on Adsorption of Two Dextrans by Montmorillonite. Major Adviser: Prof. C. E. Clapp.

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B.E. '65, Wisconsin State University; M.S. '67, University of Wisconsin. Major: History. Minor: Supporting Program. Thesis: The Compleat Woman: The Equal Rights Amendment and Perceptions of Womanhood, 1920-1972. Major Adviser: Prof. C. A. Chambers.

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B.A. '62, Miami University; M.D. '66, Meharry Medical College. Major: Anatomy. Minor: Surgery. Thesis: Effects of Vasoactive Compounds on Induced Ischemia to Portions of the Heart of Anesthetized Dogs. Major Adviser: Prof. W. D. Anderson.

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B.S. '48, M.A. '55, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: An Evaluation of the Non-Graded English Program at Woodland Junior High School, Duluth, Minnesota. Major Adviser: Prof. V. D. Mueller.

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B.E. '68, Andhra University; M.E. '68, Indian Institute of Science; M.S. '70, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Markovian Models for Performance Evaluation of Multiprocessor, Multimemory Computer Systems. Major Adviser: Prof. R. Y. Kain.

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B.S. '64, M.S. '69, University of Alberta. Major: Food Science and Industries. Minor: Supporting Program. Thesis: Effect of Natural and Modified Food Components on *Clostridium perfringens*. Major Adviser: Prof. F. F. Busta.

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B.S.Ed. '67, M.S.Ed. '68, Northern Illinois University. Major: Education. Minor: Supporting Program. Thesis: The Status of Vocational Education Research, Development, Diffusion, and Evaluation Personnel. Major Adviser: Prof. Jerome Moss, Jr.

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B.A. '66, M.A. '69, Wayne State University. Major: Political Science. Minor: Supporting Program. Thesis: Community Action: The Politics of the Poor, a Longitudinal Analysis of the Behavioral Impact of Grass-Roots Poverty Programs. Major Adviser: Prof. W. H. Flanigan.

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B.A. '67, Brooklyn College. Major: Speech Science, Pathology, and Audiology. Minor: Psychology. Thesis: Visual Perceptual Abilities of Aphasic and Right Hemisphere Damaged Adults. Major Adviser: Prof. R. H. Brookshire.

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B.A. '63, University of California, Berkeley; M.A. '66, University of Minnesota. Major: Zoology. Minor: Biochemistry. Thesis: A Study of the Effects of the Herbicide 2,4,5 Trichlorophenoxy Acetic Acid on the Protozoan *Tetrahymena pyriformis*, ST. Major Adviser: Prof. A. B. Hooper.

Samuel Bernard Stinson,
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B.A. '66, University of Minnesota. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: Substituted 6-Azabicyclo [3.1.0] Hexanes as Analogs of Biologically Active Piperidines. Major Adviser: Prof. Ole Gisvold.

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B.S. '65, M.S. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Fluctuation Phenomena in Space Charge Limited Gas Diodes. Major Adviser: Prof. Aldert van der Ziel.

Milo Norman Sulentic, Moorhead

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B.A. '55, M.A. '60, University of British Columbia. Major: Education. Minor: History. Thesis: Children in English-Canadian Society: Framing the Twentieth Century Consensus. Major Adviser: Prof. T. L. Smith.

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B.S. '64, University of London. Major: Economics. Minor: Supporting Program. Thesis: Some Problems in Testing for First Order Serial Correlation. Major Adviser: Prof. T. J. Muench.

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B.S.Ed. '62, M.Ed. '67, Kansas University. Major: Education. Minor: Curriculum and Instruction. Thesis: An Exploratory-Descriptive Study of the Role of the Inner-City Secondary School Principals with Implications for Professional Preparation Problems. Major Adviser: Prof. N. C. Nickerson.

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B.A. '69, Westmar College. Major: Psychology. Minor: Supporting Program. Thesis: Personality and Academic Variables in College Attrition: A Discriminant Function Analysis. Major Adviser: Prof. J. N. Butcher.

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B.A. '52, Carleton College. Major: Psychology. Minor: Educational Psychology. Thesis: A Longitudinal Study of the Prediction of Job Satisfaction as a Function of the Correspondence Between Needs and the Perceptions of Job Reinforcers in an Occupation. Major Adviser: Prof. R. V. Dawis.

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A.B. '65, Calvin College; M.A. '68, University of Minnesota. Major: Education. Minor: Mathematics. Thesis: A Comparison Study of the Effects of Three Instructional Strategies on Problem Solving Behaviors. Major Adviser: Prof. D. C. Johnson.

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B.S. '54, North Dakota State University; M.Ed. '64, Colorado State University. Major: Vocational Education. Minor: Educational Administration. Thesis: An Interest Inventory of Agribusiness Managers. Major Adviser: Prof. R. P. Martin.

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B.A. '66, Cornell University; M.A. '68, University of Minnesota. Major: Industrial Relations. Minor: Supporting Program. Thesis: The Impact of Type of Control and Industry Concentration on Size and Profitability in the Determination of Executive Income. Major Adviser: Prof. T. A. Mahoney.

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B.A. '65, University of Minnesota; M.A. '67, University of Hawaii. Major: History. Minor: Supporting Program. Thesis: The Foreign Language Information Service and the Foreign Born, 1918-1939: A Case Study of Cultural Assimilation Viewed as a Problem in Social Technology. Major Adviser: Prof. R. J. Vecoli.

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B.A. '54, St. Paul Seminary; M.S.W. '65, University of Minnesota. Major: Social Work. Minor: Supporting Program. Thesis: Professionalism and Sectarian Social Service: A Study of Role and Value Orientations of Social Workers in Church Related Agencies. Major Adviser: Prof. J. C. Kidneigh.

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B.A. '66, Goucher College; M.A. '70, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Scottish County Government in the Eighteenth and Nineteenth Centuries. Major Adviser: Prof. J. L. Altholtz.

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B.E.E. '66, M.S. '69, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Self-Mode-Locking in Inhomogeneously-Broadened CW Lasers. Major Adviser: Prof. J. A. Carruthers.

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B.A. '60, Colorado College; M.A. '62, Columbia University. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Role of Individual Differences and Instructional Variables on the Acquisition of Structure. Major Adviser: Prof. P. E. Johnson.

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B.A. '63, University of Minnesota; M.A. '68, University of Minnesota. Major: American Studies. Thesis: Social Roles of Popular Fiction in America, 1890-1910. Major Adviser: Prof. M. C. Turpie.

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Doctor of Philosophy in Surgery

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Master of Architecture

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Poètes du Puy d'Arras. Major Co-Advisers:
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Response to Agitation: The Early Rhetoric of
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Competence Model of Defense Decision-
Making. Major Adviser: Prof. E. B. Schoettle.

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Insinjur '62, Bogor Institute of Agriculture. Major: Plant Breeding. Minor: Statistics. Thesis: Effects of Recurrent Selection on Genetic Variability and Performance of a Synthetic Maize Zea Mays Variety. Major Adviser: Prof. J. C. Sentz.

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B.S. '71, Technical Institute of Monterrey. Major: Food Science and Industries. Minor: Nutrition. Thesis: Death Kinetics of Microorganisms During Dehydration. Major Adviser: Prof. T. P. Labuza.

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B.S. '43, University of Minnesota. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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B.A. '70, College of St. Catherine. Major: Home Economics. Minor: Sociology. Thesis: Residents' Likes and Dislikes Relating to Physical Characteristics of Selected Public Housing Designed for the Elderly in St. Paul. Major Adviser: Prof. F. A. Ehrenkranz.

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B.A. magna cum laude '70, University of Minnesota, Duluth. Major: Physics. Minor: Mathematics. Thesis: A Measurement of the Energy Spread of Ions Produced by a Capillary Tube Cold Electron Source. Major Adviser: Prof. W. H. Johnson.

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B.A. '66, Mankato State College. Major: Agronomy. Minor: Plant Pathology. Thesis: Influence of Plant Parts and Maturity on Alkaloid Concentration in *Phalaris arundinacea* L. Forage. Major Adviser: Prof. G. C. Marten.

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B.S. magna cum laude '70, University of Minnesota. Field of Concentration: Medical Microbiology. Major Adviser: Prof. E. V. Savard.

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B.S. '70, University of Minnesota. Major: Plant Pathology. Minor: Botany. Thesis: Seed Dispersal and Spread of the Eastern Dwarf Mistletoe (*Arceuthobium Pusillum* Peck). Major Adviser: Prof. D. W. French.

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B.S. '66, Iowa State University. Major: Geology. Minor: Geophysics. Thesis: Geology of West Gold Creek Area, Pend Oreille Lake, Idaho. Major Adviser: Prof. P. W. Weiblen.

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B.S. with distinction '70, University of Minnesota. Major: Food Science and Industries. Minor: Biochemistry. Thesis: The Effects of Freezing and Thawing on the Injury and Death of Salmonellae. Major Adviser: Prof. F. F. Busta.

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B.S. '65, St. Cloud State College. Major: Plant Pathology. Minor: Entomology. Thesis: The Effect of Inoculum Concentration on Late Blight *Phytophthora Infestans*. Major Adviser: Prof. C. J. Eide.

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B.S. '68, Purdue University. Major: Plant Breeding. Minor: Biometry. Thesis: Predicted Genetic Gains from Multiple Trait Selection for Yield and Ears Per Plant in Corn. Major Adviser: Prof. R. E. Stucker.

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B.S. '69, Trinity College. Field of Concentration: Mathematics. Major Adviser: Prof. Alfred Aepli.

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B.A. summa cum laude '70, University of Minnesota, Duluth. Major: Chemistry. Minor: Mathematics. Thesis: Ion Cyclotron Resonance Studies of the Chemical Ionization of Esters. Major Adviser: Prof. S. E. Buttrill, Jr.

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B.A. '69, University of Minnesota. Major: Biochemistry. Minor: Chemistry. Thesis: Experimentally Induced Changes in the Composition of the Low Density Lipoprotein in the Rabbit. Major Adviser: Prof. I. D. Frantz.

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B.A. cum laude '67, Wisconsin State University. Field of Concentration: Physics. Major Adviser: Prof. N. M. Hintz.

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B.S. '70, University of Minnesota. Major: Plant Pathology. Minor: Plant Breeding. Thesis: Variation in Wheat Characteristics Involved in Morphological Resistance to Wheat Stem Rust. Major Adviser: Prof. R. D. Wilcoxson.

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B.S. magna cum laude '69, University of Minnesota. Field of Concentration: Entomology. Major Adviser: Prof. Basil Furgala.

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B.S. '64, University of Minnesota. Major: Fisheries. Minor: Statistics. Thesis: The Effect of Moonlight on the Drift of Stream Invertebrates. Major Adviser: Prof. T. F. Waters.

Paul Edward Steichen, Burnsville

B.S. '63, University of Washington. Major: Statistics. Minor: Mathematics. Thesis: Calculation of Target Detection Probabilities for a Binary Moving Window Integrator on a Surveillance Radar. Major Adviser: Prof. B. W. Lindgren.

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B.A. '71, Carleton College. Field of Concentration: Botany. Major Adviser: Prof. E. C. Abbe.

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B.A. '68, California Lutheran College. Field of Concentration: Physics. Major Adviser: Prof. G. D. Freier.

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B.S. with distinction '70, Purdue University. Major: Home Economics. Minor: Sociology. Thesis: Clothing Behavior in Relation to Expenditures of Selected AFDC Families. Major Adviser: Prof. M. P. Grindereing.

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B.S. '58, B.S. '67, M.Ed. '61, Pennsylvania State University. Field of Concentration: Horticulture. Major Adviser: Prof. Robert Mullin.

Robert Edward Williamson, St. Paul

B.S.Pharm. '69, University of Minnesota. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

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B.A. '69, St. Cloud State College. Major: Entomology. Minor: Biometry. Thesis: Improvement of the Resistance Level in Field Corn to the European Corn Borer During the Last 40 Years. Major Adviser: Prof. H. C. Chiang.

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B.S. '71, Illinois Wesleyan University. Field of Concentration: Nursing. Major Adviser: Prof. M. I. Harris.

Master of Science

MAYO GRADUATE SCHOOL OF MEDICINE

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B.A. '56, St. Olaf College. Major: Nutrition. Minor: Biochemistry. Thesis: Use of MMPI in the Comparison of Normal and Obese Patients and Psychometric Analysis in the Prediction of Weight Loss. Major Adviser: Prof. R. A. Nelson.

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B.S. '68, Washington State University. Major: Home Economics. Minor: Biochemistry. Thesis: Comparison of Gastric Duodenal and Ileal Insorption of Hexanoic Acid, Sodium Hexanoate and Hydrochloric Acid in Dogs. Major Adviser: Prof. C. F. Code.

Master of Science in Aerospace Engineering

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B.A.E.M. with high distinction '71, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: Parachute Stress Analysis Incorporating a Measured Pressure Distribution. Major Adviser: Prof. H. G. Heinrich.

Master of Science in Agricultural Engineering

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Ir. '68, Institute Pertanian Bogor. Field of
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Master of Science in Experimental Surgery

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Master of Science in Medicine

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Master of Science in Mineral Resources Engineering

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Master of Science in Neurology

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Master of Science in Orthopedic Surgery

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M.D. '65, University of Santiago de Compostela. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Effect of EHDP on Bone Turnover of Adult Dogs. Major Adviser: Prof. M. B. Coventry.

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MAYO GRADUATE SCHOOL OF MEDICINE

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Marcia duPont Spilde, Amherst, Mass.

B.S. '68, University of Massachusetts. Field of Concentration: Social Work. Major Adviser: Prof. Richard Sterne.

Glenn Edward St. Marie, Duluth

B.A. '67, University of Minnesota, Duluth. Field of Concentration: Social Work. Major Adviser: Prof. H. J. Yesner.

Mary Elaine Stoefen, Minneapolis

B.A. cum laude '71, University of Minnesota, Duluth. Field of Concentration: Social Work. Major Adviser: Prof. H. J. Yesner.

Anthony Ray Wagner, Minneapolis

B.A. '71, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. C. L. Bower.

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B.A. '65, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. B. E. Compton.

Barbara Soine Whitmore, Minneapolis

B.A. '66, St. Olaf College. Field of Concentration: Social Work. Major Adviser: Prof. C. L. Bower.

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Mari-Anne Zahl, Vigrestad, Norway

Dip. '70, Sosialskolen, Trondheim. Field of Concentration: Social Work. Major Adviser: Prof. P. W. Chommie.

Kay Louise Zander, Richfield

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B.A. '56, Clarke College. Field: Elementary School Administration. Major Adviser: Prof. R. T. Lambert.

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B.A. '59, College of St. Catherine; M.A. '71, University of Minnesota. Field: School Psychological Services. Major Adviser: Prof. Morris Shrago.

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B.A. '65, Duke University; M.A. '72, University of Minnesota. Field: Counseling. Major Adviser: Prof. C. A. Parker.

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B.A. cum laude '65, St. Mary's College. Field: Counseling. Major Adviser: Prof. A. R. Anderson.

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B.A. summa cum laude '70, M.A. '72, University of Minnesota. Field: School Psychological Services. Major Adviser: Prof. Morris Shrago.

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B.S. '46, M.A. '64, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. N. C. Nickerson.

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Daniel Edward Mobilia, Babbitt
B.A. '61, M.A. '67, University of Minnesota,
Duluth. Field: General Educational Adminis-
tration. Major Adviser: Prof. K. J. Vander
Horck.

Allen Charles Willman, Duluth
B.S. '50, M.A. '72, University of Minnesota.
Field: General Educational Administration.
Major Adviser: Prof. K. J. Vander Horck.

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Ronald William Lindeman, B.S.,
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summa cum laude, Zoology
Julia Jamison Coleman, Minneapolis
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cum laude, Biology
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summa cum laude, Biology
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John Ovid Frederic Wild,
Minneapolis
Jan Morrison Wiste, Minneapolis,
summa cum laude, Biology
Kam Ming Wong, Hong Kong
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COLLEGE OF BUSINESS ADMINISTRATION

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with high distinction
Douglas Edward Ahlstrom,
Robbinsdale
John Jeffrey Ahrens, B.A.,
Minneapolis
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Nigeria
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Michael Rudolph Anderson,
Minneapolis, with distinction
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Undergraduate Development Certificate in Electrical Engineering — 90 Credits

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 Lynn Laurie Pink, St. Louis Park
 Steven Robert Pletscher,
 New Brighton
 Kristi Noel Putnam, Golden Valley
 Beth Ann Reget, A.A., Edina
 Phillip John Soltvedt, A.A.,
 Minneapolis

Arthur Jerome Sorenson, Albert Lea
 Eugene Harvey Stein, Death Valley,
 Calif.
 Wayne Frederick Stutzer,
 St. Louis Park, *summa cum laude*
 Jerome Stan Tolmie, Princeton
 Gerard Edwin Traxler, A.A.,
 Mahtomedi
 Sheila Diane Trump, Albert Lea
 Julianne Janelle Warner, Robbinsdale
 William Thomas Wivell, Robbinsdale

Bachelor of Fine Arts

Lynne Adair Aspnes, Minneapolis
 Joseph Francis Aykens, Minneapolis
 Callen Carey Benson, Elk River
 Dennis Leonard Boe, Albert Lea
 Gary Fredrick Bosak, Minneapolis
 Nancy L. Bowers, St. Paul, *summa
 cum laude, Studio Arts*
 Soraya Allahyari Burg, Kermanshah,
 Iran, *magna cum laude, Studio Arts*
 Steven Allen Carley, Minneapolis
 Kathleen Mary Dalton, Minneapolis
 Judith Ann Elliott, Minneapolis,
summa cum laude, Studio Arts
 Roger Allen Kniefel, Minneapolis
 Sandra Lee Knutson, Minneapolis
 Kenneth Wilbur Lentz, Moorhead
 Marian Elizabeth Martell,
 Boulder, Colo.

Lucinda Alice Marvin, Minneapolis,
magna cum laude, Music
 Donald Lee Neal, B.S., Minneapolis
 Teresa Ann Nomura, Minneapolis,
summa cum laude, Studio Arts
 Gregory Blair Nordstrom, A.A.,
 Minneapolis
 Marian Nathalie Raab, Minneapolis,
summa cum laude, Studio Arts
 Julie Ann Rogers, Richfield
 Gary Richard Schultz, Minneapolis
 Mark Allen Scott, Fridley,
cum laude, Studio Arts
 Mark Alexander Thompson, Excelsior
 John Steven Vong, A.A., Lauderdale
 Aloysius Conrad Wiederhold,
 South St. Paul
 Dean Lowell Wilson, Litchfield

Bachelor of Science

Ronald Carl Anderson, Bloomington
 Earl LeRoy Grinols III, St. Paul,
summa cum laude, Economics
 David Mark Homzik, Minneapolis
 Nels Corey Johnson, Minneapolis

Jack Martin Jorgensen, Minneapolis
 Daniel Edward Stephens, B.A.,
 Minneapolis
 Thomas Warren Williams, Edina

MEDICAL SCHOOL

MEDICAL TECHNOLOGY

Bachelor of Science

*These degrees are conferred subject to the completion of
practical work prior to December 12, 1973*

- | | |
|--|---|
| Louise Gloria Bintz, Anoka,
with distinction | Patricia Diane Hilliker, Kankakee, Ill. |
| Gloria Jean Boettcher, Bovey | JoAnn Mae Hlavac, St. Louis Park,
with distinction |
| Marilyn Joann Cahoon,
Mendota Heights | Rosemary Ann Hoffman, Searles |
| Patricia Lucille Charlton, Wayzata | Jean Susan Houger, Park Rapids,
with distinction |
| Nina Yee Chin | Eleanor Holly Johnson, Minneapolis |
| Ruth Ann Christeson, Graceville | Terry Lynn Johnson, St. Paul,
with distinction |
| Sharon Marie Cowett, Brooklyn Park,
with high distinction | Carolyn Kathleen Lakin, A.A.,
International Falls |
| Kathleen Louise Dailey, Rochester | Susan Marette Nelson, Minneapolis |
| Mary Annette Devorak, Madison,
with distinction | Doreen Elizabeth Olson, Duluth,
with distinction |
| Mary Beth I. Elander, Two Harbors | Susan Rae Olson, Richfield |
| Nancy G. Field, Coon Rapids | Pamela Irene Rose, Cedar Falls, Iowa |
| Sheryl Patricia Fisher, Duluth | Cynthia Lee Stratton, Minneapolis |
| Sharon Kay Frisbie, A.A., Austin | Janet A. Trandem, Medford |
| Max Siu-Kau Fung, Hong Kong | Kristine Marie Ulrich, Duluth |
| Mardie Gaylene Geiser, Minneapolis,
with distinction | Janice Marie Vogt, Glencoe,
with distinction |
| Ruth Lillian Golberg, Rochester,
with distinction | Barbara Marie Waldkirch,
DePere, Wis. |
| Monna Jean Grotte, Ely,
with high distinction | Gail Lee Weiss, St. Paul |

MEDICINE

Bachelor of Science

- | | |
|---|--|
| Nicholas Penn Bernier, North St. Paul | Robert Harold Olson, B.A.,
St. Louis Park |
| Robert Arthur Bonner, B.A. summa
cum laude, Columbia Heights | William Grover Shores, Mankato |
| Stephen Jonathan Gilbertstadt,
Richfield | Richard Foster Shronts, Edina |
| Thomas William Hennessey, St. Paul | Ruggles Monroe Stahn, B.A.,
St. Cloud |
| Stephen Benjamin Lund, Mankato | Dennis James Sternke, Arco |
| Cerald Eugene Merwin, B.A.,
Robbinsdale | |

Doctor of Medicine

- Brian Jon Anderson, B.A.,
Walnut Grove
Floyd Owen Anderson, B.A., Richfield
Glen Francis Anderson, B.A.,
Minneapolis
John Harold Anderson, B.A., Austin
John Theodore Anderson, B.S.,
Milbank, S.D.
Stephen Nye Barton, B.A.,
Minneapolis
Dennis Wayne Berge, B.A.,
Minneapolis
Nicholas Penn Bernier, B.S.,
North St. Paul
Barry Alan Bershaw, B.A.,
Minneapolis
Dale Cahil Betterton, B.S.,
Minneapolis
Michael Stewart Bladyka, B.S.,
Springfield, Vt.
Jayne Maureen Boche, B.A.,
Inver Grove Heights
Robert Arthur Bonner, B.A. summa
cum laude, Columbia Heights
Terrance Randell Borman, B.A.,
Richfield
Arlene Patricia Boutin, B.A., Willmar
Michael Joseph Bowers, B.A.,
Lake City
Robert Arthur Braun, B.A., B.S.,
St. Paul
James Allen Breitwieser, B.A., Walker
Carl Allen Brown, B.A., St. Paul
Gary Robert Burke, B.A., Janesville
Thomas Jay Burkhart, B.A., Dell
Rapids, S.D.
William Anthony Callahan Jr., B.A.
cum laude, West Caldwell, N.J.
Douglas James Carlson, B.A.,
Cambridge
Wayne Donald Carlson, B.A., B.S.,
Kerkhoven
Linda Yee Chak, B.A., Hong Kong
Jo Ann Moline Chalgren, B.A., Pepin,
Wis.
Robert Douglas Chalgren, B.S.,
Mankato
James Walter Chastek, B.A.,
Minneapolis
Sterling Keith Clarren, B.A.,
Minneapolis
Robert Allan Coates, B.S.,
Minneapolis
Richard Shalett Cohen, B.A.,
Minneapolis
Mary Margaret Conroy, B.A., St. Paul
John Corcoran Jr., B.A., Pittsburgh,
Pa.
David Daniel Darcy, B.A., Lewiston,
Mont.
John Joseph DeMars, B.S., Battle
Lake
Henry Doerr IV, B.A., Minnetonka
Timothy Allen Dooley, B.A.,
Minneapolis
David Demetrius Dragotis, B.A.
Peter Edward Droubay, B.S., Butte,
Mont.
Lawrence Gregory Erickson, B.S.,
Hampton
Per Freitag, B.S., M.S., Ph.D.,
Minneapolis
John Douglas Fremstad, B.S., Fargo,
N.D.
Thomas Richard Friberg, B.S., M.S.,
Minneapolis
John William Gfrerer, B.A., Stillwater
Stephen Jonathan Gilbertstadt,
Richfield
Robert Brian Goffstein, B.A., St. Paul
George Richard Gordon, B.A.,
Fairmont
James William Green, B.S.B., St. Paul
Michael John Gregg, B.S.Pharm.,
Minneapolis
Stefan Paul Guttormsson, B.A., La
Crosse, Wis.
James Henry Haemmerle, B.Chem.,
North Bergen, N.J.
Mark Turner Hanson, B.A., B.S.,
Minneapolis
John Thomas Harbaugh Jr., B.A.,
St. Cloud
Robert Peter Hebbel, B.A., St. Paul
Albert Eben Henderson, Nashwauk
Thomas William Hennessey, B.S., St.
Paul
Terry Olivia Hope, B.A., Bronx, N.Y.

Wayne Eugene Hoppe, B.A., New
Munich

David W. Hunter, B.A., St. Paul

Allene Jackson, B.A., Minneapolis

James Kenneth Jackson, B.A., Duluth

Anthony Craig Jaspers, B.S., Shakopee

Peter Burnett Johansen, Tyler

Richard Frederick Johnson, B.A., St.
Paul

Ronald Gerald Johnson, B.A., Waseca

John H. Kaeding, Moorhead

Paul Edward Kaldor, B.A., B.S.,
Moorhead

George Gerald Klee, B.S., M.S.,
Moravia, N.Y.

Phillip Michael Kofron, B.S., Austin

William Peter Korchik, B.S., Edina

Anthony James Kotnik, B.A., Eveleth

Keith Michael Kubasch, B.S.,
Winsted

Thomas Edward Kunze, Arden Hills

Edward Peter LaMotta, B.A., B.S.,
M.S., Manhasset, N.Y.

James Richard Larson, B.A., Bagley

Steven Samuel Lebow, B.S., St. Louis
Park

Richard Marc Levinson, B.S.,
Minneapolis

Calvin Cardin Loken, Brocket, N.D.

Harold N. Londer, B.A., Minneapolis

Thomas Gilbert Loo, A.A., B.A.,
Hibbing

Leon Lubianker, B.A., St. Paul

Stephen Benjamin Lund, B.S.,
Mankato

Gary Daniel MacGregor, B.A., St.
Paul

James Douglas Madison, B.A.,
International Falls

Richard Comstock McDougall, B.A.,
North Oaks

Robert Charles McEvoy, B.A., St.
Paul

Peter James McKenna, B.A., Duluth

Ronald Kenneth Menk, B.A.,
Springfield

Gerald Eugene Merwin, B.A.,
Robbinsdale

Clinton Tetrick Moen, B.S., Silver Bay

Rolf Keith Naley, B.A., Staples

Jerrold Jay Noller, B.A., St. Peter

Robert Francis O'Dea Jr., B.A., Ph.D.,
St. Paul

Dale S. Odell, B.A., Chaska

James Joseph O'Leary, B.A.,
Minnetonka

Steven Bruno Ollie, Wadena

Robert Harold Olson, B.A., St. Louis
Park

Robert James Olson, B.A., Ostrander

John Ralph Parkin, B.A., Kasson

Barbara Lindblom Patrick, B.A.,
Mankato

David Alan Paulson, B.A.,
Minneapolis

Alan Lee Peterson, Duluth

Michael William Piepkorn, B.A.,
Mound

Charles Edward Pogemiller, B.E.E.,
Minneapolis

Thomas Jay Quam, B.S., West Fargo,
N.D.

Allan Dale Reishus, B.A., B.S.,
Cottonwood

Ronald Lee Richardson, B.A., Austin

Timothy Charles Rietz, B.A., M.S.,
Devils Lake, N.D.

Joseph Leo Rigatuso, B.A., Ph.D.,
Omaha, Neb.

Robert John Risdall, B.A., St. Paul

Peter Kleven Rodman, B.A., Henning

Louis Joseph Rusin, B.A., Columbia
Heights

Shawn David Saavedra, B.A.,
New Orleans, La.

Sandra Kay Sackett, B.A., St. Paul

David John Sanderson Jr., B.S., Fergus
Falls

Elliott Byron Scherling, Minneapolis

Roger Edward Schmid, B.Ch.E., New
Ulm

Mark Joseph Schmidt, B.A.,
Minneapolis

Michael Ross Senta, B.A., White Bear
Lake

Richard Foster Shronts, Edina

Richard Marshall Siebold, B.A.,
Hastings

Satinder Singh, B.S., Kenya

Ronald Alexander Skyles, B.S.Pharm.,
Chesapeake, Va.

Clark Marshall Smith II, Minneapolis

Harvey Dempster Smith, B.A., Duluth
 Marvin Lee Smitherman, B.S., Ph.D.,
 Coatesville, Ind.
 James Raymond Spenningsby,
 B.S.Pharm., B.S., Valley City, N.D.
 James Vincent Springrose, B.S.,
 Minneapolis
 Ruggles Monroe Stahn, B.A., St.
 Cloud
 Charles Leo Steinberg Jr., B.A., St.
 Paul
 Dennis Wayne Stone, B.A., St. Paul
 Robert James Strukel, B.S., Eveleth
 Gary Arnold Swanson, B.S., St. Paul
 Ronald Allan Swanson, B.A., St. Paul
 Lyn Ellsworth Tangen, B.A., Redwood
 Falls
 Joel Luther Thompson, B.Chem.,
 Moorhead
 Robert Grant Thornburgh Jr., B.S.,
 Palos Verdes Estates, Calif.
 Frank Allen Thorngren, B.A.,
 Silver Bay
 Elliot Irwin Trach, B.A., St. Louis
 Park

John Thomas Twiggs, B.A., Austin
 John Arthur Twomey, B.S., M.S.,
 Minneapolis
 Rolf Fredric Ulvestad, B.A. cum
 laude, B.S., Edina
 David Martin Uthus, B.S., Minot,
 N.D.
 Paul E. Van Corp, Montevideo
 Jane Ellen Van Rockel, B.S., Luverne
 Lenore Van Santen, B.S.,
 Minneapolis
 Joan Alice Veits, B.A., Minneapolis
 James A. Walker, B.S., Eau Claire,
 Wis.
 Bruce Frank Waller, B.S., Austin
 Michael Harold Walton, B.A.
 Mark Brian Wolverton, B.A.,
 Mankato
 Mark G. Wood, B.A., Rochester
 Paul Erwin Youngquist, B.A.,
 Crookston
 Martin Thomas Zanna, B.A., St.
 Louis Park
 Donald Lee Zatochill, B.A., Grand
 Rapids

MORTUARY SCIENCE

Bachelor of Science

Michael Duane Aldrich, B.A.,
 Waukee, Iowa, with distinction
 Mark Andrew Behrens, Park Rapids
 Paul Kenneth Bergquist, Duluth
 William James Boston, Stevens Point,
 Wis., with distinction
 Lawrence J. Boulger, Moorhead,
 with high distinction
 Joseph George Brenny, Little Falls
 Martin Thomas Brenny, B.S., Little
 Falls
 Robert Clemens Brenny, Waite Park,
 with distinction
 John Thomas Davis, B.S., Livingston,
 Mont., with high distinction
 Arthur Jerome Dingmann, Kimball
 Frank Ralph Galante, Newark, N.J.
 Joseph Frank Galante, South Orange,
 N.J.
 Richard John Galante, Union, N.J.

Thomas Ernst Heinecke, Schofield,
 Wis., with high distinction
 Gregory A. Jerich, A.A., B.A., Ely
 Zoe Carol Kinnunen, Kettle River
 Larry Allen Knudson, Salem, S.D.,
 with high distinction
 William J. Kuiper, Holland, Mich.
 James Stewart Larson, Ironwood,
 Mich.
 Donald W. Leahy, A.A., Danbury,
 Iowa
 Jack Robert Locke, Waterloo, Iowa
 Ronald Lawrence Markham, Osage,
 Iowa
 Lewis James Marshall, A.A.,
 Minneapolis
 Robert Alan McAdams, Duluth
 Wendell A. Miller, B.S.B.
 Michael Joseph Murphy, Mason City,
 Iowa, with distinction

Daniel Henry Nelson, Cedar Falls,
Iowa, with high distinction
Robert Stephan Ovsak, A.A., Fridley
Stephen Delwin Piper, Lyons, Neb.,
with high distinction
Michael Edward Richardson, Bertha
Charles William Russell Jr.,
Minneapolis
Richard Allen Schmidt, A.A., St. Paul
Daryl R. Schumacher, B.A., Denver,
Iowa, with high distinction
Edward Michael Stulpin, A.A.,
Elizabeth, Pa., with distinction

Jeffrey Dale Thauwald, B.A., Preston
Timothy Joseph Totzke, Minneapolis
Lester Markham Tremble, Oregon,
Ill., with distinction
Paul Edward Weber, A.A., West St.
Paul
James Richard Wintz, Hartington,
Neb., with distinction
James Joseph Witkowski, A.A.,
Minneapolis
Gregory William Zabka, Fullerton,
Neb., with distinction

OCCUPATIONAL THERAPY

Bachelor of Science

These degrees are conferred subject to the completion of
practical work prior to December 12, 1973

Barbara Jean Age, A.A., Lake Wilson,
with high distinction
Sandra Jeanne Babatz, Spring Park
Joan Louise Bach, Minneapolis, with
distinction
Arlene Katherine Bangsund, Fridley
Lorna Kay Christenson, Waseca, with
high distinction
Barbara Louise Ellis, Litchfield, with
distinction
Mary Pat Frenzel, Minneapolis, with
distinction
Marsha Helen Ganje, St. Paul
Karen Shirley Gordon, Minneapolis,
with high distinction
Melanie Sue Greenstein, Minneapolis,
with high distinction
Sharon Marie Gregoire, Bellechester
Susan Ann Hoppe, New Munich,
with distinction
Sunya Lucille Kline, Richfield, with
distinction
Mary Julia Kragness, St. Paul, with
distinction

Katherine Elizabeth Kuzma, Hibbing,
with distinction
Ellen Jane Kvinge, Minneapolis, with
distinction
Patricia Louise McDermott, Minne-
apolis, with distinction
Ann Wynne McKie, Chisholm, with
distinction
Tania Kowalenko Moyer, Maple Plain,
with distinction
Susan Marie Nelson, Motley, with
distinction
Nancy Lee Robertson, Hibbing, with
high distinction
Donna M. Rodel, Minneapolis, with
high distinction
Elaine Mary Schermann, Winsted,
with high distinction
Marion Dickinson Seeley, St. Cloud,
with distinction
Terry Kay Vollers, Minneapolis, with
high distinction
Bonnie-Jo Walbruch, Rochester, with
distinction

PHYSICAL THERAPY

Bachelor of Science

Kathleen Anne Benson, Fridley, with high distinction
Lynn Marie Bowman, Duluth, with high distinction
Mary Jill Brandt, Minneapolis, with high distinction
Roger Keith Branes, B.A., Rochester, with distinction
Mary Ellen Fischenich, Ellsworth, with distinction
Shelia Jean Gilmer, Lakeland, with distinction
Mary Elizabeth Gonyea, Arlington, Mass.
Barbara Joan Haasken, Minneapolis, with distinction
Holly Jean Hobbs, Minneapolis, with high distinction
Thomas Elmo Holets, Mankato, with distinction
Gweneth Aline Isaacson, Carlton, with distinction
Corinne Marie Johnson, Minneapolis, with high distinction

Grace Horstmann Leininger, B.A., St. Paul, with distinction
Raoul J. Madrid, Hibbing
Jeanne Ellen Meinert, Sleepy Eye, with high distinction
Carla Lee Olson, Minneapolis
Merrikay Elizabeth Peterson, St. Cloud
Claudia Jean Purves, with distinction
Elizabeth Jo Schorn, Raymond, with distinction
Geraldine Lucille Stewart, B.S., M.S.
JoAnn Irene Swenson, Dawson, with distinction
Margaret Lee Gilkeson Vernon, St. Paul, with high distinction
Lois Ethel Wagstrom, Coon Rapids, with distinction
Debra Jean Weise, with high distinction
Jeffrey Lynn Wold, B.A., with distinction

SCHOOL OF NURSING

Bachelor of Science in Nursing

Carol Lynn Anderson, Minneapolis, with distinction
Karen Alfsen Anderson, Minneapolis
Mary Anne Arhart, Thief River Falls, with distinction
Gretchen Mary Atkinson, B.S., St. Paul, with distinction
Julene Alice Barthel, St. Michael
Jacquelyn Marie Blumer, White Bear
Kay Suzanne Bolla, Minnetonka, with distinction
Jennie Marie Carlson, Mound, with distinction
Catherine Eileen Casey, Brooklyn Center
Judith Anne Charlton, Minneapolis
Beverly Jo Clark, Minneapolis

Vicki Ann Cunningham, Minneapolis, with distinction
Jan Kathryn Dady, Browns Valley, with distinction
Susan Kay Dewey, St. Paul
Lora Mae Dittbenner, Morgan
Gail Susan Dole, Minneapolis
Sandra Kay Draisey, Minneapolis
Alexandra Emily Dzubay, Barron, Wis., with distinction
Carol Marie Eliason, Prescott, Ariz., with distinction
Terry Lee Elvidge, St. Paul, with distinction
Rhonda Kay Enge, Anoka
Margaret Jean Engen, Minneapolis
Connie Joy Evans, Frazee

Leola Frances Felder, Minneapolis
 Cynthia Marie Firtko, Minneapolis
 Judy Lynn Flanagan, St. Paul
 Anna Evelyn Fuhrmann, St. Paul,
 with high distinction
 Patricia Lynn Geib, Minneapolis, with
 distinction
 Yvonne Annette Germain, St. Paul,
 with distinction
 Nancy Jane Greenwood, Granite Falls,
 with distinction
 Christine Ann Haselberger, St. Paul,
 with high distinction
 Deane Marie Hatteberg, Waltham
 Jane Adele Heise, Winona
 Mary Helga Holger, Rushford, with
 distinction
 Catherine Mary Hunt, St. Paul, with
 distinction
 Ann Margaret Jarvey, Minnetonka,
 with high distinction
 Judith Ann Johnson, Columbia
 Heights
 Karen LaShel Johnson, Taylors Falls,
 with distinction
 Kathleen Mary Johnson, Bloomington,
 with high distinction
 Linda Christine Johnson, Hopkins
 Mary Philomena Kastner, Litchfield
 Renee Diane Kellerman
 Mary Louise Knapp, St. Cloud, with
 distinction
 Rozanne Helen Kreuser, South St.
 Paul, with distinction
 Cheryl Helen Prochaska Lanigan,
 Minneapolis
 Bonnie Jean Larsen, Grand Marais,
 with high distinction
 Pamela Mae Larsen, Foley
 Sherry Leann Loch, St. Cloud, with
 high distinction
 Kathryn Ann Lorenz, White Bear
 Lake, with distinction
 Margaret Ruth Lubbers, Minneapolis
 Dorothy VanAusdall Lundin, Hop-
 kins, with high distinction
 Patricia Goldish Lyons, St. Paul, with
 high distinction
 Mary Louise McDonald, St. Paul, with
 distinction
 Judith Helen McDonnell, Cold Spring

Jean Patricia McTigue, Mankato,
 with distinction
 Julia Marie Morris, Owatonna, with
 distinction
 Kathleen Frances Mullenmeister, Fari-
 bault, with high distinction
 Mary Michele Murn, St. Cloud
 Linda A. Hermanson Nelson, St.
 Cloud, with distinction
 Nancy Sue Nelson, White Bear Lake,
 with distinction
 Susan Malene Nelson, Columbia
 Heights
 Sharon Marie Nibbe, Ormsby, with
 distinction
 Carolyn Sue Nishida, Minneapolis
 Judith Mathilda O'Connor,
 Minneapolis
 Linda Ann Olson, Anoka, with
 distinction
 Mavis Carol Olson, Springfield, with
 distinction
 Margaret Marion Omland, Denver,
 Colo., with distinction
 Pamela Kaye Paulsen, St. Cloud, with
 high distinction
 Karen Marie Pederson, Cut Bank,
 Mont., with distinction
 Patricia Margaret Pennar, Alexandria,
 with distinction
 Edna Mae Platt, Ada, with distinction
 JoAnn Kathryn Rathmanner, Winsted
 JoAnn Marie Reamer, Browerville
 Lu Ann Mary Althaus Reif, St. Cloud,
 with distinction
 Kathy Joyce Richter, Bloomington,
 with high distinction
 Gwen Ellyn Scheid, Delavan
 Judith Gayle Schultz, St. Paul,
 with distinction
 Shelley Jane Seestedt, St. Paul,
 with distinction
 Pamela Margit Shelley, Cambridge
 Nancy Ann Shields, White Bear Lake,
 with distinction
 Maryellen Smith, Minneapolis,
 with distinction
 Cynthia Jean Sonterre, St. Paul
 Karen Kay Stanley, B.A., Minneapolis
 Susan Kay Steiner, Breckenridge

Mary Jacqueline Brosnan Streich,
Mankato, with distinction
Jo Ann Strom, Roseville,
with distinction
Doreen Dahl Swendsen, International
Falls, with high distinction
Mary Suzanne Mechler Tarmina, B.S.,
Kalispell, Mont., with high
distinction
Kay Susan Thompson, Brainerd
Lynn Marie Thomsen, Round Lake,
with distinction
Linda Kathryn Underkoffler,
Minneapolis, with distinction
Debra Ann Nolander Veldman, Albert
Lea, with high distinction
Julie Roberta Ward, A.A.,
Minneapolis, with distinction

Susan Marie Weisbrich, St. Cloud,
with high distinction
Alice Ann Westin, B.A., Brookings,
S.D., with distinction
Margaret Elizabeth Wilhite,
Minneapolis, with distinction
Faye Ann Will, Belgrade,
with high distinction
Janet Elaine Woehrl, St. Paul, with
distinction
Lenora Yin Wong, St. Paul
Mary Roberta Wood, Fairmont,
with distinction
Wendy Lou Worner, Mound,
with distinction
Christine Roberta Worwa,
Bloomington, with distinction

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Theodore C. Allison, Racine, Wis.
Thomas Shelton Anderson, Austin,
with distinction
David Allan Arness, B.S., Sedan
Daniel Alfred Asher, A.A.,
Farmington
Steven Mark Beltz, Bagley
John Anthony Benassi, St. Paul
Stephen Gerald Berger, Crystal
William Edwin Bingham, B.S.,
Racine, Wis.
Janise Ann Bogenschutz, Walters
Scott William Bryngelson
Sandra Jean Cartier, White Bear Lake
Patrick Heung-Tung Chan,
Hong Kong
Jacqueline Clark, Kansas City, Mo.
Terrance Joseph Culhane, Kilkenny
Lloyd Allen DeGroot, Luverne,
with distinction
Douglas James DeMontigny,
Rugby, N.D.
Thomas W. Elo, International Falls
Eileen Gayle Erickson, Mora,
with high distinction
Martin Anton Erickson III, B.A.,
Edina

Robert Corald Fauver, Stewartville
Dwight V. Ferguson, A.A., Austin
Sister Jo Ann Freeman, B.A.,
Rochester
Amal Mohamed Ghoneim
Pamela Sue Gill, Dodge Center,
with high distinction
Irmgard Adele Goede, Lake City,
with high distinction
Darrell Lyle Gorham, Mabel
Charles Michael Gramling,
Minneapolis
John Edward Hakel, Montevideo,
with distinction
Steven Michael Hansen, Canby
Dean Arlan Hoffmann, Sanborn
Donald J. Hoffmann, B.S., Starbuck
George Allan Jacobs, Minneapolis,
with distinction
Lowell William Jaques, Braham
Kenneth James Johnson, Grasston
Steven F. Kowalsky, Winona
Julie Ann Kozarek, Duluth,
with distinction
Robert Lee Krzmarzick, Comfrey
Gregg Paul Kylo, Chaska
Michael Jeffery Lazarus, Minneapolis

Dianne Louise Lebens, Montgomery
 Douglas Craig Lobdell, Graston,
with distinction
 Lawrence LeVern Lofstrom,
 Grand Rapids
 Bruce Clem Lohr, A.A., Worthington,
with distinction
 Gerald F. Madden, Duluth
 Craig Niles Mattson, Owatonna
 Ann Marie McAndrews, Rosemount,
with distinction
 Dennis K. McCallum, Rushford,
with distinction
 David Brooks Miller, Red Wing
 Carmen Joyce Morstad, Fergus Falls,
with distinction
 Philip Stephen Nelson,
 Cumberland, Wis.
 Roger Wayne Nutt, Worthington,
with high distinction
 Daniel Eugene O'Sullivan, Pipestone
 Stephen Richard Palazzari, St. Paul
 Michael Joseph Pitzl, St. Paul
 David Peter Pogatchnik, Albany
 Virginia Ann Ramlo, A.A., Austin
 Charles Bradley Reid, Excelsior
 Herbert Michael Schafer,
 Worthington, *with distinction*

Terrence Robert Schoening, Edina
 Barbara Ann Schofield, Austin,
with distinction
 Alan Sheldon Schweider,
 St. Louis Park
 Paula Marie Samich Schweiger,
 Roseville
 Mavis Kathleen Simonson, Austin,
with distinction
 David Otis Steen, Hills
 Lowell James Steinle, Mountain Lake
 Gary Lee Sundeen, St. Paul
 Linda Larena Sundeen, St. Paul
 Patrick Mark Sweeney, St. Paul
 Larry Bernard Tebbe, Red Wing,
with distinction
 John Michael Thompson, Montevideo
 David Hjalmer Tommerdahl, Hoffman
 Frederick Sheldrake Townroe,
 Minnetonka
 Eileen Marie Welna, B.S., St. Paul,
with distinction
 Norman John Wikelius, Lindstrom
 Marta Karyn Windschanz, Fort
 Dodge, Iowa, *with high distinction*
 Robert Leland Witikko, Glenwood
 Robert Andrew Zustiak, Minneapolis

Doctor of Pharmacy

John Jeffery Fordice Sr., B.S.Pharm.,
 South St. Paul
 Mary Elizabeth Keating, Minneapolis
 Phillip George Lange, B.A.,
 B.S.Pharm., Harmony
 James Konstantin Marttila,
 B.S.Pharm., Tower

William A. Parker, B.S.Pharm.,
 St. Paul
 Pamela Rae Stiles, B.S.Pharm.,
 Richfield
 Thomas H. Wiser, B.S., Minneapolis
 Darwin Erhard Zaske

SCHOOL OF PUBLIC HEALTH

Master of Hospital Administration

Mohammed Ali Ammari, B.A.,
 Riyadh, Saudi Arabia
 John Biebel, B.A., South St. Paul
 David George Bodenbender, B.Arch.,
 M.Arch., Bellefontaine, Ohio
 James Russel Chromik, B.S., Erie, Pa.

David Bruce Clarke, B.S.B.,
 Chapel Hill, N.C.
 Michael Davisson Collins, B.B.A.,
 Tulsa, Okla.
 Richard Allen Culbertson, B.A.,
 Fremont, Ohio

James K. Devney, B.S.B., Mankato
 Russell Allen Farrell, B.S.B., Anoka
 Terry Scott Finzen, B.A., B.S.Econ.,
 Excelsior
 Frederick Elden French, B.A.,
 Wyoming
 Frederick Oluf Gladden, M.S.,
 St. Paul
 Edward Nathan Goodman, B.S.,
 Zanesville, Ohio
 George Arthur Govier, B.A.,
 Pasadena, Calif.
 Timothy Harvey Hanson, B.S.B.,
 Grand Forks, N.D.
 Jill Elizabeth Heinbockel, B.A., Edina
 Richard Edward Herington, B.A.,
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Minneapolis
Carri B. Walder, A.A., Minneapolis
Bruce Edward Wojack, A.A.,
Minneapolis
Randall Lee Worringer, A.A.,
Bloomington
Mark John Zelenovich, Minneapolis

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

- Roger Ira Barr, St. Louis Park,
with distinction
Janice Lynn Best, Wahpeton, N.D.,
with distinction
Robert Ryland Block, Prairie du Sac,
Wis., with distinction
David Paul Bronder, Foley
Gary Edward Budahn, Norwood,
with distinction
Richard Frank Ceman,
Ft. Worth, Tex.
David Edward Filkins, Prescott, Wis.
Thomas Peter Franklin, Minneapolis,
with distinction
George Edward Frenchick Jr.,
Pepin, Wis.
Apyrl Joyce Goffinet, Sauk Centre,
with high distinction
Gene Edward Greimann, Blue Earth,
with distinction
Byoung Rae Hah, Pusan, Korea
Mary Kathleen Hanrahan,
Batavia, Wis.
Kevin Dale Haroldson, Amboy,
with distinction
Randall Jay Herman, Minneapolis
Suzanne Frances Hermes, St. Paul,
with high distinction
Dale Arthur Magnusson, Blooming
Prairie, with distinction
Sandra Nannette Meissner,
North St. Paul, with distinction
Neil Chester Olson, Starbuck,
with high distinction
Kent Roswell Refsal, Richfield,
with high distinction
John Joseph Reichert III,
Long Prairie
James Lewis Robinson, Minneapolis
Gary Lee Roussopoulos,
West St. Paul
Jerome Joseph Sauber, Lakeville
Mark Joseph Schaack, Rib Lake, Wis.,
with distinction
James Victor Schoster, B.S.,
Wauwatosa, Wis., with distinction
Donald James Settergren, Dassel,
with distinction
Gregg Bernard Sonstegard,
Alexandria, with distinction
Judy Ann Starz, A.A., Zumbrota,
with high distinction
Mark Alan Strandberg, Mahtowa
Danna Gale Swanson, New Brighton,
with distinction
Andrew Forbes Turner, Hudson, Wis.
Carol Sue West, St. Paul

Doctor of Veterinary Medicine

- Lynn Harry Aggen, B.S., Rushmore
Richard Dale Alsaker, B.S.,
Brooklyn Park
Daniel Carl Anderson, B.S., Baudette
Harlan Richard Anderson, B.S.,
Cokato
Robin Lee Booren, B.S.,
Marine on St. Croix
Rodney Vogen Both, B.A.,
Minneapolis
David Boyden Brewer, B.S., Wayzata
Daniel John Bushard, B.S., Gibbon
John Henry Carlson, B.S.,
Minneapolis
Paul Guerard Cavanagh, A.A., B.S.,
Forestville, Calif.
Jan George Ciganek, B.S.,
West Allis, Wis.
Ronald Thomas Clappier, B.S.,
St. Paul
Patrick Michael Cotter, B.S.,
Ripon, Wis.
Edward Clayton Davis III, B.S.,
St. Peter
Darrell Lee Denisen, A.A., B.S.,
Austin
Julia May Evans, B.S., St. Paul

Barbara Jean Lane Geistfeld, B.S.,
 Grand Rapids
 James Gordon Geistfeld, B.A.,
 St. James
 Daniel Alvah Hall, B.S.,
 Mondovi, Wis.
 Mary Kathleen Hanrahan, B.A.,
 Batavia, Wis.
 Dean Edward Hawkinson, B.S.,
 Minneapolis
 Peter Alan Hoffman, B.A., Rochester
 David Lee Holmberg, B.S., Roseville
 Mary Agnes Isaacson, St. Paul
 Gary Huntington Johnson, B.S.,
 St. Paul
 Thomas Earl Kallestad, B.S.,
 Minneapolis
 Roger Alan Krogwold, B.S.,
 Rosholt, Wis.
 Wayne Orlando Larson, Wrenshall
 John Canfield Lillie Jr., B.S.,
 Rochester
 Warren Bertil Lindberg, B.A.,
 Zimmerman
 Sheldon Gary Malmedal, B.S.,
 Egeland, N.D.
 Randy William McLaughlin, B.S.,
 Stillwater
 Susan Wendy Mills, B.S., Ely
 William Carl Mitchell, B.S.,
 Champlin
 James Paul Mlsna, B.S.,
 Cashton, Wis.
 Gene Robert Monfore, B.S.,
 New Brighton
 Francis Michael Muggli, B.A., B.S.,
 Cold Spring
 Janice Marie Niedermeier, B.S.
 Gary Donn Palubicki, B.S.,
 Cudahy, Wis.
 Bruce Wayne Pierce, B.S.,
 Pelican Rapids
 Larry Wayne Potter, Frederic, Wis.
 Thomas Joseph Rainey, B.S.,
 Chanhassen
 Thomas Michael Rohman, B.S.,
 Milaca
 Donald Lee Safratowich, B.S.,
 Park Rapids
 Michael John Schmidt, B.S.,
 Shorewood, Wis.
 Martha Susan Schwochert, B.S.,
 Moose Lake
 Gary Eugene Stevens, B.S.,
 Oshkosh, Wis.
 Mark Alan Strandberg, Mahtowa
 Donald Ellis Theodorson, Perham
 Danny Raymond Thornborrow, B.S.,
 Brainerd
 Thomas William Tischer, Clara City
 Mark Dale Titus, B.A., Jackson
 Mary Katherine Urhausen
 Charles Scott Vandermause, B.S.,
 Pulaski, Wis.
 Terrence Lee Van Dyke, Underwood
 Cedric Allen Veum, B.S.,
 Westby, Wis.
 Virgil Carl Voigt, B.A., Glencoe
 Charles Walter Westman, B.S.,
 St. Paul
 Steven John Wilcox, B.S.,
 North Branch
 Kent Sterling Wilson, B.S.,
 Brooklyn Center
 Charles Brendan Woods, B.S.,
 St. Paul

June Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

John Joseph Burke, Edina
Ross David DeKraay, Edina
Alan Robert Gaugert, Bertha
Jeffrey William Harwood, Burnsville
Craig Arnold Kanske, St. Paul
Thomas Azor Kleven, Richfield
Bruce Allan Labno,
Lake Zurich, Ill.
Greg Pearce Larson, Wayzata

John Kenneth Maurus,
Wallpack Center, N.J.
Steven Douglas Myhre, St. Paul
Thomas Wonder Peter, Minneapolis
Craig William Peters, Minneapolis
Anthony James Schoenecker,
Minneapolis
Marvin Gary Vikla, Rosemount
Jon Arthur Wegner, Minneapolis

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Air Defense Artillery

Keith R. Wingad, Minneapolis

Second Lieutenant, Corps of Engineers

Donald R. Grothe, St. Louis, Mo.

James R. Schramek, Richfield

Second Lieutenant, Field Artillery

Gene A. Egdorf, Glenwood
James M. Oman, Minneapolis

Michael E. Stewart, Fulda

Second Lieutenant, Infantry

John M. Snider, Burnsville

James C. White, Bloomington

Second Lieutenant, Medical Service Corps

David W. Lee, Albert Lea

Second Lieutenant, Military Intelligence

Patrick J. Gromek, Minneapolis

Second Lieutenant, Ordnance Corps

Thomas H. Kuehn, Mahtomedi

Second Lieutenant, Quartermaster Corps

Robert J. Lietzke, Olivia

Second Lieutenant, Signal Corps

Ralph R. Greiling, Minneapolis

Second Lieutenant (Delayed)

John M. Jordan, St. Louis Park

Second Lieutenant (Unassigned)

Jard K. Larson, Buffalo

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

William A. Aegerter, Davenport, Iowa

Jerel D. Bernardy, Detroit Lakes

William P. Cassada, Bloomington

Michael S. Edwards, Buffalo

William E. Goins, Minneapolis

Michael A. Lennon, Cranbury, N.J.

Lawrence L. Loudon, Carlisle, Pa.

Michael D. Low, Damascus, Md.

John K. Thomas, Austin

Rodney H. Trump, Faribault

Mark P. Williams, Minneapolis

Ensign, USNR

Dennis L. Alfton, Bloomington

David P. Keymer, Hopkins

**Summary of Degrees Conferred by the University
During the Academic Year 1972-73**

Conferred July, August, and December, 1972, and March, 1973	5,322
Conferred June, 1973 (subject to completion of requirements)	5,918
Total degrees conferred 1972-73	11,240*

* Includes 1,003 conferred at Duluth, 276 at Morris, 178 at Crookston, and 51 at Waseca.

Academic Costume

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

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

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

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

College of Agriculture	maize
College of Biological Sciences	golden yellow
College of Business Administration	drab
Continuing Education and Extension	orange and drab
School of Dentistry	lilac
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
College of Veterinary Medicine	gray
Graduate School	black

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

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

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

Printed on recycled paper



UNIVERSITY OF MINNESOTA

Summer Commencement, 1973

FRIDAY AFTERNOON, AUGUST 24, 4:00 P.M.

NORTHROP MEMORIAL AUDITORIUM

Board of Regents

The Honorable Elmer L. Andersen, St. Paul
Chairman

The Honorable Neil C. Sherburne, Lakeland Township
Vice Chairman

The Honorable Fred A. Cina, Aurora

The Honorable Fred J. Hughes, St. Cloud

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

The Honorable Lauris D. Krenik, Madison Lake

The Honorable L. J. Lee, Bagley

The Honorable Lester A. Malkerson, Minneapolis

The Honorable George W. Rauenhorst, Olivia

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

The Honorable David C. Utz, M.D., Rochester

The Honorable John A. Yngve, Plymouth

Central Executive Officers

Malcolm Moos, President

Rodney A. Briggs, Executive Assistant to the President

Duane A. Wilson, Secretary to the Board of Regents

James F. Brinkerhoff, Vice President for Finance, Planning, and Operations

Paul H. Cashman, Vice President for Student Affairs

Lyle A. French, Vice President for Health Sciences

William G. Shepherd, Vice President for Academic Administration

Stanley J. Wenberg, Vice President for State and Federal Relations

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 twenty-second 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 252,000 degrees, each one in recognition of the successful completion of an exacting academic program.

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

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

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

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

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

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

As it meets the needs of present students, the University must also make plans for those of the future. The 50,000 students who enrolled at the University at the beginning of the 1972-1973 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 1973 LEGISLATURE granted the University \$185,852,478 for general operations and maintenance during the 1973-1975 biennium. In addition, the University received \$13,072,538 for University Hospitals; \$37,313,125 in special appropriations, including special extension and research activities; \$32,493,034 for new buildings, land, and the rehabilitation of existing buildings; \$2,320,548 for the Crookston Technical College; and \$1,747,532 for the Waseca Technical College.

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

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

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

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

Order of Events

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

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

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

During the procession Professor Fleischer will play:

Fantasy in G MajorBach

THE NATIONAL ANTHEM: As Assistant Professor D. Clifton Ware, D.M., College of Liberal Arts, 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 David L. Bartlett, Ph.D., pastor of the University Baptist Church, director of the Baptist Student Fellowship, and member of the Council of Religious Advisers.

SPEAKING FOR THE UNIVERSITY: Vice President James F. Brinkerhoff, M.B.A., Finance, Planning, and Operations.

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

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: After each new Doctor of Philosophy has been hooded, Associate Dean Francis M. Boddy, Ph.D., Graduate School, will present him to Vice President Brinkerhoff. Assisting them will be Professor Robert Dykstra, Ph.D., College of Education; Assistant Professor Timothy B. Knopp, Ph.D., College of Forestry; Assistant Professor Richard F. Sauter, Ph.D., College of Business Administration; and Barbara Foster, Ph.D., Admissions and Records.

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

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

Dean Albert Linck, Ph.D., College of Agriculture
Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences
Assistant to the Dean Charles H. Mannel, M.A., College of Business Administration
Dean Harold Miller, Ph.D., Continuing Education and Extension
Dean Erwin M. Schaffer, M.S.D., School of Dentistry
Associate Dean Darrell R. Lewis, Ph.D., College of Education
Dean Frank H. Kaufert, Ph.D., College of Forestry
Dean Alfred L. Vaughan, Ph.D., General College
Dean Keith N. McFarland, Ph.D., College of Home Economics
Assistant Dean Patricia A. Lydon, J.D., Law School
Dean E. W. Ziebarth, Ph.D., College of Liberal Arts
Dean N. L. Gault, Jr., M.D., Medical School
Dean M. Isabel Harris, Ph.D., School of Nursing
Dean Lawrence C. Weaver, Ph.D., College of Pharmacy
Professor Marcus O. Kjelsberg, Ph.D., School of Public Health
Professor Morris E. Nicholson, Sc.D., Institute of Technology
Dean Barbara Knudson, Ph.D., University College

HAIL! MINNESOTA: As Professor Ware 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:
Dorian Toccata Bach

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

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

July Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Mildred Irene Kerridge Mueller,
Minneapolis

B.S. '53, M.A. '62, Central Michigan University. Major: Educational Administration. Minor: Education. Thesis: Factors Involved in the Friendship Choices of Students in Two Newly Integrated Elementary Schools. Major Adviser: Prof. W. R. Cross.

Philip Vik, Aberdeen, S.D.

B.S. '59, M.S. '61, Northern State College. Major: Educational Administration. Minor: Supporting Program. Thesis: Evaluation and Accreditation Associations: A Historical Case Study of the Association for the Evaluation of the Elementary School. Major Adviser: Prof. W. R. Cross.

Doctor of Philosophy

Francis Marion Asche, Hagerstown,
Ind.

B.S. '58, M.A. '60, Ball State University. Major: Education. Minor: Supporting Program. Thesis: The Interrelationships of Self and Occupational Concepts of Post High School Vocational-Technical Students. Major Adviser: Prof. D. J. Pucel.

Richard Lawrence Ash, St. James, Mo.

B.S. '42, M.S. '47, Pennsylvania State University. Major: Mineral Engineering. Minor: Supporting Program. Thesis: The Influence of Geological Discontinuities on Rock Blasting. Major Adviser: Prof. Charles Fairhurst.

Calvin Leon Brints, Crosbyton, Tex.

B.S. '69, Texas Technological College; M.S. '72, University of Minnesota. Major: Agricultural Economics. Minor: Supporting Program. Thesis: The Economics of Information in Purchasing Feed and Fertilizer in Minnesota. Major Adviser: Prof. D. C. Dahl.

Leticia Abad Chard, Quezon City,
Philippines

B.S. cum laude '61, University of the Philippines. Major: Physics. Minor: Mathematics. Thesis: Fluctuation Effects on the Conductivity of Nb and NbN Films. Major Adviser: Prof. A. M. Goldman.

Miles Robert Chedekel, Palo Alto,
Calif.

B.S. '69, University of California at Los Angeles. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: I. Aberrant Biosynthetic Studies in *Nicotiana Tabacum* and *Nicotiana Glauca*. II. Synthetic Studies of the Tobacco Alkaloids. 1,4 Additions to Acyl Carbanion Equivalents. Major Adviser: Prof. Edward Leete.

Sze-Tai Yen Chu, Trenton, N.J.

B.S. '67, Purdue University. Major: Physical Chemistry. Minor: Supporting Program. Thesis: A Theory of the Collision-Induced Singlet to Triplet Transition of Methylene. Major Adviser: Prof. J. S. Dahler.

Maria Almira Correia, Goa, India

B.Pharm. '67, University of Bombay. Major: Pharmacology. Minor: Biochemistry. Thesis: DPNH Synergism of TPNH Dependent Rat Liver Microsomal Drug Oxidations. Major Adviser: Prof. G. J. Mannering.

Dennis Karl Davis, Sauk Rapids

B.A. cum laude '67, St. Olaf College. Major: Mass Communication. Minor: Sociology. Thesis: The Process of Defining Reality and Television Use. Major Adviser: Prof. P. J. Tichenor.

Joan Elizabeth Fehlen

B.S. '62, Marquette University; M.A. '67, Mankato State College. Major: Education. Minor: Mathematics. Thesis: A Study of Selected Variables Associated with Mastery Learning in a College Mathematics Course for Prospective Elementary Teachers. Major Adviser: Prof. D. A. Johnson.

Edward Roger Gross, St. Paul

B.S. '65, Wisconsin State University; M.S. '68, University of Minnesota. Major: Soil Science. Minor: Geology. Thesis: Buried Soils of the Drainageways in the Driftless Area of the Upper Mississippi River Valley. Major Adviser: Prof. R. H. Rust.

Jay Roy Hamann, Sioux Valley

B.S. '58, B.E.E. '59, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Some Solution Techniques for Industrial Scheduling Problems. Major Adviser: Prof. G. M. Andrew.

Jerry Douglas Harris, Tempe, Ariz.

B.S. '65, Illinois State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Socioeconomic Status and Levels of Ability. Major Adviser: Prof. M. D. Hall.

Gerald Norman Hays, Denver, Colo.

B.A. with honors '67, University of California at Riverside. Major: Physics. Minor: Mathematics. Thesis: Afterglow Studies in Nitrogen. Major Adviser: Prof. H. J. Oskam.

Misako Higa, Okinawa

B.A. '55, Berea College; M.S. '59, University of Tennessee. Major: Home Economics. Minor: Supporting Program. Thesis: Rural Houses in Terms of Family Living Before and After 1945 in the Ryukyu Islands. Major Adviser: Prof. G. A. Esteros.

Larry King Jacobson, Bozeman, Mont.

B.S. '60, M.S. '61, Montana State College. Major: American Studies. Thesis: Mythic Origins of the Western. Major Adviser: Prof. D. W. Noble.

Bernard Julian Langr, Owatonna

B.S. with honors '57, Mankato State College; M.A. '62, Northwestern University. Major: Education. Minor: Spanish. Thesis: Augmenting Student Achievement and Peer Interaction Through Voluntary Classmate Tutorial in a College Beginning Spanish Course. Major Adviser: Prof. E. M. Birkmaier.

Gary Ralph Lee, Moorhead

B.A. '69, St. Cloud State College; M.A. '72, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Social Determinants of Personal Normlessness. Major Adviser: Prof. I. L. Reiss.

Wah Leng Lim, Singapore

B.S. with honors '67, University of Singapore. Major: Physics. Minor: Mathematics. Thesis: Calculations of the Ground State Energy and Exchange Integrals of Crystal ³He. Major Adviser: Prof. L. H. Nosanow.

Saukwan Chung Lo, Hong Kong

B.A. '68, Hollins College; M.S. '71, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Heisenberg Magnet in Paramagnetic Phase Theory. Major Adviser: Prof. J. W. Halley.

Debra Hua Lu, Taipei, Republic of China

B.A. '63, Cheng Kung University; M.A. '67, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: An Examination of the Ex Ante and Ex Post Predictability of Computer Programming Time Estimation Models. Major Adviser: Prof. J. C. Gray.

Robert Tzu-I Ma, Republic of China

B.S. '65, Taiwan Provincial Chung-Hsing University; M.S. '69, Tuskegee Institute. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Postmortem Changes in the Pectoralis Muscle of the Domestic Turkey (*Meleagris Gallopavo*). Major Adviser: Prof. P. B. Addis.

Elias Samuel Mahigel, Minneapolis

B.A. '67, M.A. '69, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: Whitey as a Soul Brother: A Descriptive Analysis of Black-White Interaction. Major Adviser: Prof. R. L. Scott.

Steven Ernest Mayer, Bethesda, Md.

B.A. '67, Ohio State University; M.A. '67, George Washington University. Major: Psychology. Minor: Supporting Program. Thesis: Intrinsic and Extrinsic Value Orientation in College Students. Major Adviser: Prof. M. D. Dunnette.

Joseph Arthur Miller, Hamden, Conn.

B.A. cum laude '55, M.A. '57, '64, University of Minnesota. Major: History. Minor: Library Science. Thesis: Congress and the Origins of Conservation: Natural Resource Policies, 1865-1900. Major Adviser: Prof. R. C. Loehr.

David Elton Nathanson, Minneapolis
B.A. '66, Roanoke College; M.S. '68, Hofstra University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Attending Behavior of Severely Retarded Teenage Pupils as a Function of Selected Stimuli Used in Television Broadcasting. Major Adviser: Prof. R. H. Bruininks.

Clyde William Neu, Great Falls, Mont.

B.S. '67, M.S. '68, Montana State University. Major: Business Administration. Minor: Supporting Program. Thesis: Production and Process Scheduling: An LP Analysis of Changes in the Marketing, Production and Processing of Turkeys. Major Adviser: Prof. T. R. Hoffmann.

Mary Ann Ost, Minneapolis

B.S. '62, M.A. '67, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Effect of Conflicting Verbal and Nonverbal Information on the Performance of Certain Body Positioning Tasks. Major Co-Advisers: Profs. E. M. Jaeger and P. E. Johnson.

John Stuart Rayside, Montreal, Quebec, Canada

B.S. '67, Carleton University; M.S. '69, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: The Raman Spectrum of Single Crystal Proustite. Major Co-Advisers: Profs. R. J. Collins and R. A. Phillips.

Dorothy Ann Ritter, Joliet, Ill.

B.S. '66, College of St. Francis. Major: Anatomy. Minor: Pharmacology. Thesis: The Role of the Pyridine Nucleotides in the Dibetogenicity of Streptozotocin. Major Co-Advisers: Profs. R. L. Sorenson and A. W. Lindall.

Jung Sik Rno, Seoul, Korea

B.S. '62, Seoul National University; M.S. '64, Southern Illinois University. Major: Mathematics. Minor: Internal. Thesis: Clebsch-Gordan Coefficients and Special Functions Related to the Euclidean Group in Three-Space. Major Adviser: Prof. Willard Miller, Jr.

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B.B.A. cum laude '67, City College of New York. Major: Economics. Minor: Supporting Program. Thesis: Male-Female Salary Differences Among Scientists with Ph.D.'s. Major Adviser: Prof. N. J. Simler.

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B.S. '67, University of Nebraska. Major: Pharmacognosy. Minor: Biochemistry. Thesis: Non-Pollen Sources of Short Ragweed and Timothy Allergens. Major Adviser: Prof. E. J. Staba.

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B.A. '69, M.S. '71, The Hebrew University of Jerusalem. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Use of Operant Procedure in the Assessment of Psychotic Children. Major Adviser: Prof. D. G. Force, Jr.

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B.S. '59, University of Minnesota; M.S. '64, Boston University. Major: Educational Psychology. Minor: Psychology. Thesis: The Relationship of Preoperative Fear, Coping, and Information to Recovery from Surgery. Major Co-Advisers: Profs. M. E. Corcoran and J. R. Rest.

Michael Joe Stevenson, Ann Arbor, Mich.

B.S.Ed. '62, Central Michigan University; M.A. '65, University of Minnesota. Major: Physical Education. Minor: Educational Administration. Thesis: The Effects of Artificial and Natural Turf on Injuries, and Selected Player, Team, and Game Variables in College Intramural Touch Football. Major Adviser: Prof. B. D. Anderson.

Richard Barnes Taylor, Atlanta, Ga.

B.S.B. '67, M.B.A. '69, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Carrier Selection and Market Segmentation in the Household Goods Carrier Industry. Major Adviser: Prof. R. K. Gaumnitz.

Mary Theodosopulu, Athens, Greece

Dip. '69, National Technical University of Athens. Major: Chemical Engineering. Minor: Mathematics. Thesis: Studies of Transport in Simple Fluids with the Moment Method. Major Adviser: Prof. J. S. Dahler.

Sharon Powers Thompson, Upper Montclair, N.J.

B.A. '64, M.A. '69, University of Minnesota. Major: English. Minor: Art History. Thesis: A Comparison of Shakespeare's Sonnets with Donne's Songs and Sonnets by Means of a New Method for Analyzing Metaphorical Content. Major Adviser: Prof. H. B. Allen.

Richard Lee Vickers, Sea Cliff, N.Y.

B.A. summa cum laude '67, University of Minnesota. Major: Psychology. Minor: Medicine. Thesis: A Correlational Study of Five Measures of Self-Concept in an Orthopedically Disabled Population. Major Adviser: Prof. J. P. Brantner.

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B.A. '68, University of Toronto; M.A. '70, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: Farm and Ranch Vacationing in the United States. Major Adviser: Prof. E. C. Mather.

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B.S. '63, Spring Hill College; M.S. '71, University of Minnesota. Major: Agricultural Economics. Minor: Supporting Program. Thesis: Institutional Determinants of Technical Change and Agricultural Productivity Growth: Denmark, France, and Great Britain, 1870-1965. Major Adviser: Prof. V. W. Ruttan.

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D.V.M. '55, Iowa State University; M.P.H. '63, University of Minnesota. Major: Epidemiology. Minor: Microbiology. Thesis: Relationship of Environmental and Socio-Economic Factors to Blood Pressure in High School Students. Major Adviser: Prof. L. M. Schuman.

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B.A. cum laude '68, Macalester College. Major: Wildlife. Minor: Supporting Program. Thesis: Habitat Utilization and Activities of Female American Woodcock (*Philohela minor* Gmelin) in Northeastern Minnesota During Spring and Summer. Major Adviser: Prof. W. H. Marshall.

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B.S. '67, M.S. '69, Kyoto University. Major: Agricultural Economics. Minor: Economics. Thesis: Technical Change and Population Growth in the Economic Development of Japan. Major Adviser: Prof. V. W. Ruttan.

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B.A. '55, Ochandmieu University; M.S. '69, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Exploration of the Economics of Tastes and Demand for Food. Major Adviser: Prof. V. W. Ruttan.

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B.S. '66, Cheng-Kung University; M.S. '69, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Low-Sensitivity Design of Optimal Feedback Systems for Longitudinal Control of Automated Transit Vehicles. Major Co-Advisers: Profs. E. B. Lee and W. L. Garrard.

Doctor of Philosophy in Surgery

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B.M.B.S. '52, M.S. '57, University of Bombay. Major: Surgery. Minor: Pathology. Thesis: Evaluation of a Double-Leaflet Prosthetic Heart Valve of New Design for Clinical Use. Major Adviser: Prof. R. C. Lillehei.

Master of Aerospace Engineering

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Master of Arts

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B.A. '70, Rosary College. Major: History. Minor: English. Thesis: The Influence of Values on an Urban Community: The Austin Area of Chicago, 1890-1920. Major Adviser: Prof. John Modell.

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B.S. '69, University of Minnesota, Duluth. Major: Geography. Minor: Architecture. Thesis: Relationships Between Intraurban Migration and Urban Residential Social Structure. Major Adviser: Prof. J. S. Adams.

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A.B. '63, Gonzaga University. Field of Concentration: French. Major Adviser: Prof. G. H. Bauer.

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M.S. '55, Ph.D. '58, University of Minnesota. Major: Italian. Minor: Classics. Thesis: The Narratives of Cassola. Major Adviser: Prof. Arshi Pipa.

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B.S. '61, Kearney State College. Field of Concentration: Educational Administration. Major Adviser: Prof. W. M. Ammentorp.

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B.A. '65, Mount Mary College. Field of Concentration: Educational Administration. Major Adviser: Prof. W. R. Cross.

Margaret Ann Wessel, St. Paul
B.A. '68, Bethel College. Field of Concentration: English as a Second Language. Major Adviser: Prof. B. W. Robinett.

Ruth Meyer Woodcock, Roseville
B.A. '48, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.

Master of Business Administration

William Howard Anderson,
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B.B.A. with distinction '70, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. Peter Rosko.

William Leslie DeCoursey,
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B.S.B. with distinction '71, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Steven William Hakes, Menomonie, Wis.
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B.E. '67, University of Bombay; M.S. '68, North Dakota State University. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

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Roger Allan Price, Peterborough,
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B.A. with honors '71, Heriot-Watt University.
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James Lee Wolf, St. Paul

B.Phys. '69, M.S. '72, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. B. Upton.

Master of Fine Arts

Claudia Mae Brown, Chesterland,
Ohio

B.F.A. '70, Cleveland Institute of Art. Field of Concentration: Studio Arts. Major Adviser: Prof. Warren MacKenzie.

David Harold Husom, Cottage Grove

B.F.A. '70, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. Allen Downs.

Henry James Jordan, Miller Place,
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B.A. '70, University of Virginia. Field of Concentration: Theatre Arts. Major Adviser: Prof. Wendell Josal.

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B.S. '61, M.S. '65, University of Southern Mississippi. Field of Concentration: Theatre Arts. Major Adviser: Prof. Wendell Josal.

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Master of Science

Leon Joseph Anderson, Dassel

B.S. '69, University of Minnesota. Major: Wildlife. Minor: Botany. Thesis: Habitat Use, Behavior, Territoriality, and Movements of the Male Canada Spruce Grouse of Northern Minnesota. Major Adviser: Prof. W. H. Marshall.

Bonnie Mae Stahl Ashe, St. Paul

B.A. cum laude, '69, Wittenberg University. Major: Chemistry. Minor: Internal. Thesis: Exploratory Inorganic Photochemistry: A Study of the Reactions of Cyclooctatetraene-Iron Tricarbonyl with Selected Olefins. Major Adviser: Prof. F. A. Van Catledge.

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Alicia Sy Chan, Quezon City,
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B.S.N. with distinction '69, University of Minnesota. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Charles George Tauer, Sleepy Eye

B.S. '69, University of Minnesota. Major: Forestry. Minor: Genetics. Thesis: Interclonal Competition in Black Cottonwood. Major Adviser: Prof. C. A. Mohn.

Diane Cecilia Trainor, Jersey City,
N.J.

B.A. '72, Jersey City State College. Field of Concentration: Environmental Health. Major Adviser: Prof. H. J. Paulus.

Richard John Trdan, St. Paul

B.A. with distinction '69, St. Cloud State College. Field of Concentration: Zoology. Major Adviser: Prof. Ross Johnson.

Patricia L. Westphal, Moline, Ill.

B.S. '62, College of St. Teresa. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Kenneth John Wiskus, Sioux City,
Iowa

B.S. '69, Iowa State University. Major: Food Science and Industries. Minor: Statistics. Thesis: Postmortem Changes in Turkey Muscle as a Function of βR , αR and αW Fiber Distribution. Major Adviser: Prof. P. B. Addis.

William Yen Wong

B.A. with honors '67, University of Malaya. Field of Concentration: Agricultural Economics. Major Adviser: Prof. M. D. Shane.

Master of Science in Aerospace Engineering

James Robert Greenlee, St. Paul

B.Aero.E. cum laude '71, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: Introduction of a Non-linear Projected Area-Time Relationship into a Linear Parachute Opening Shock Theory. Major Adviser: Prof. H. G. Heinrich.

Master of Science in Agricultural Engineering

Richard John Karsky, Langdon, N.D.

B.S.Ag.E. '67, North Dakota State University. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: The Effects of Direction of Oscillation and Blade Angle on Draft of a Simple Vibratory Tillage Tool. Major Adviser: Prof. John Strait.

Master of Science in Anesthesiology

Josephine Ngah-Man Lo, Shanghai,
China

M.B.B.S. '66, University of Hong Kong. Major: Anesthesiology. Minor: Pharmacology. Thesis: Interaction Between Preanesthetic Medication and Ketamine. Major Adviser: Prof. J. F. Cumming.

Master of Science in Civil Engineering

Walter Marusenko, Minneapolis

B.C.E. '71, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. C. E. Bowers.

James Pennaz, Minneapolis

B.C.E. with distinction '72, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. C. E. Bowers.

Larry Allan Read, Albert Lea

B.C.E. with distinction '72, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. K. Johnson.

Thomas Albert Roushar, Mankato

B.C.E. with distinction '71, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. K. Johnson.

Master of Science in Dentistry

Leo Carl Sinna, St. Paul

B.S. '69, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Lamina-graphic Cephalometric Study of Dento-Maxillary Effects Incident to Variable Duration Combination Headgear Therapy on Class II, Division 1 Malocclusions. Major Adviser: Prof. R. J. Isaacson.

Master of Science in Electrical Engineering

John Marshall Huggins, Billings,
Mont.

B.E.E. with high distinction '71, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. E. Holte.

Gerald Edmund Sevick, Basking
Ridge, N.J.

B.S.E.E. '67, Massachusetts Institute of Technology. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Y. Kain.

Ralph Arnold Werner, Chicago, Ill.

B.S.E.E. '71, Valparaiso University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Master of Science in Industrial Engineering

William Lowe Heintz, Devils Lake,
N.D.

B.M.E. '72, University of Minnesota. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Soo-il Jung, Seoul, Korea

B.S. '69, Seoul National University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Prashant Palvia, New Delhi, India

B.S. '71, University of Delhi. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Master of Science in Mechanical Engineering

Kenneth Oscar Griep, Henderson

B.S. '66, South Dakota State University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

Mohammed Mohiuddin Hussain,
Hyderabad, India

B.E. with distinction '70, Osmania University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. W. A. Kleinhenz.

You-Hong Pui, Hong Kong

B.S.M.E. with high distinction '70, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Thesis: Electrical Neutralization and Stationary Charge Distribution of Aerosol Particles. Major Adviser: Prof. B. Y. Liu.

George Michael Sverdrup,
Bloomington

B.M.E. with high distinction '71, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. K. T. Whitby.

Master of Science in Metallurgy and Materials Science

Sastry Purnachandra Tenjarla,
Hyderabad, India

B.S. '47, Andhra University; B.S. '49, University of Bombay; M.S. '50, Andhra University. Major: Metallurgy and Materials Science. Minor: Chemistry. Thesis: Corrosion of Mild Steel in Complex Aqueous Environments. Major Adviser: Prof. M. E. Nicholson.

Master of Science in Mineral Engineering

Keith Marvin Craik, Thief River Falls
B.Geo.E. '72, University of Minnesota. Field of Concentration: Mineral Engineering. Major Adviser: Prof. D. H. Yardley.

Dean Richard Larson, Nashwauk
B.Min.E. '71, University of Minnesota. Field of Concentration: Mineral Engineering. Major Adviser: Prof. E. P. Pfeleider.

Ramachondra Ananta Naique, Lisbon,
Portugal

Dip. '59, Technical University of Lisbon. Field of Concentration: Mineral Engineering. Major Adviser: Prof. J. E. Lawver.

Master of Science in Psychiatry

Abraham Flemenbaum, Minneapolis
M.D. '65, University del Valle. Major: Psychiatry. Minor: Psychology. Thesis: Inter and Intra-Rater Reliability of the BPRS. Major Adviser: Prof. B. C. Schiele.

Master of Social Work

Laurel Joanne Peterson Berg,
Carrington, N.D.
B.A. cum laude '67, University of North Dakota. Field of Concentration: Social Work. Major Adviser: Prof. M. K. Newhouse.

Kathryn Ann Bleecker, Minneapolis
B.A. cum laude '69, University of North Dakota. Field of Concentration: Social Work. Major Adviser: Prof. S. M. Buttrick.

Karolyn Ann Carpenter, St. Paul
B.A. '71, University of Missouri. Field of Concentration: Social Work. Major Adviser: Prof. D. A. Whitmore.

Joyce Yuricko Miyamoto Faber,
Zeeland, Mich.
B.A. '70, Michigan State University. Field of Concentration: Social Work. Major Adviser: Prof. Richard Sterne.

Linda Johnson, Minneapolis
B.A. cum laude '66, Kansas State University. Field of Concentration: Social Work. Major Adviser: Prof. R. B. Teeter.

Carole Ann Murphy, Hopkins
A.B. '67, Stanford University. Field of Concentration: Social Work. Major Adviser: Prof. H. J. Yesner.

Judith Bernice Parr, St. Paul
B.A. cum laude '71, St. Olaf College. Field of Concentration: Social Work. Major Adviser: Prof. C. L. Bower.

Rita Ann Quigley, Minneapolis
B.A. '65, College of St. Catherine. Field of Concentration: Social Work. Major Adviser: Prof. M. R. Cohn.

Certificate of Specialist in Education

Michael Berchin, Minneapolis

B.S. cum laude '63, Bemidji State College;
M.S. '68, St. Cloud State College. Field:
Elementary School Administration. Major Ad-
viser: Prof. W. R. Cross.

Brian Edward Boettcher, Austin

B.S. '62, M.S. '68, Mankato State College.
Field: Secondary School Administration. Ma-
jor Adviser: Prof. T. F. Stark.

Geraldine Leola Carter, Minneapolis

B.A. '70, Concordia College; M.A. '72, Uni-
versity of Minnesota. Field: Special Educa-
tion. Major Adviser: Prof. D. G. Force, Jr.

Gerald Guy Pardun, Danbury, Wis.

B.S. '60, Wisconsin State University, Superior;
M.S. '66, St. Cloud State College. Field: Ele-
mentary School Administration. Major Ad-
viser: Prof. G. F. Alkire.

Certificate of Specialist in Library Science

Eugenia Jan-Kwei Shih Wong, Taipei,
Taiwan

B.A. '61, Tamkang College of Arts and
Sciences; M.A. '63, George Peabody College.
Field: Library Science. Major Adviser: Prof.
W. C. Simonton.

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Howard Lemuel Swanson, St. James

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Suzanne Bainbridge, B.A.,
Minneapolis

William Ernest Bros, Edina

Jeffrey Erle Pearce, Minneapolis

Charles Tracy Teague

Mary Lucia Zupancic, A.A., Gilbert

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Robert Elliot Anderson, Minneapolis

David Terry Barker, A.A., Minneapolis

Gary Patrick Brintnall, St. Paul

Linda Carol Dobson, Hopkins, with
distinction

Bruce Leon Freidson, St. Louis Park,
with distinction

Kenneth David Garelick, St. Paul

James Robert Gildner, Minnetonka

Edward Benton Gill, Jr., Mahtomedi

Mark Steven Hengesteg, Glenville
 John Russell Herby, Minneapolis
 Robert Charles Hoffman, Minneapolis
 Michael Julius Janisch, A.A., St. Paul
 Scott Richard Jensen, Edina
 Glen Arthur Kosloski, Minneapolis
 Vernon William Kucera, Princeton
 Edward Joseph Larson, Minneapolis
 Kenneth Lewis Ledebor, Prinsburg
 Sharon Alane Lilja, Crystal
 Thomas Wayne Longlet, St. Paul
 Kevin Michael Maher, Bloomington
 Michael Ray Mayhew, Minneapolis
 Robert Allen Nix, Jr., Owenton, Ky.
 Everett Gerald Nordenstrom, Mora

Emmanuel Alfred Opoku, Kumasi,
 Ghana
 Mark Alan Peterson, Sandstone
 Scott Goodwin Peterson, Mankato
 Philip Lee Pflapsen, Minneapolis
 Lawrence Robert Roppe, with
distinction
 Gary Walter Schmidt, Minneapolis
 John Richard Schuster, Plymouth
 Donald Robert Spieker, Long Prairie
 Blair Leland Testin, Minneapolis
 Dennis Dale Virden, Grand Rapids
 Dennis Paul Westlin, Minneapolis
 Gregory Verner Wickman, Richfield

COLLEGE OF EDUCATION

Bachelor of Science

Esther Widdes Altman, St. Paul
 Mary Ellen Andersen, B.A., Edina
 Diane Lynn Anderson, Kowloon,
 Hong Kong, with *distinction*
 Thomas W. Baldwin, A.A., St. Paul
 Gloria Jean Becker, Bloomington,
 with *distinction*
 Nancy Lee Bjornson, B.A.,
 Minneapolis
 Diane Marjorie Blasius, B.S.,
 Elmhurst, Ill.
 Stephanie Helene Bloomberg,
 St. Paul, with *distinction*
 Nancy Lee Boyce, Forest Lake
 Essie M. Caldwell, Minneapolis
 Mario Cianflone, B.A., Winnipeg,
 Manitoba, Canada
 Roberta Ann Dever, Minneapolis
 Cheryl Irene Aliksyuk Dinger,
 St. Paul, with *distinction*
 Pamela Kay Ebeling, Worthington
 Robert William Eckstein, A.A.,
 Brooklyn Park
 Karen Sue Erickson, Minneapolis,
 with *high distinction*
 Barbara Weiner Frank, Minneapolis,
 with *distinction*
 Loyal Wayne Freeman, Jr., A.A.,
 Richfield

Richard Boyd Hagen, Minneapolis,
 with *distinction*
 Walter Cardell Hoffman, Minneapolis
 Susan Lesley Hubbard, White Bear
 Lake, with *distinction*
 Kathleen M. Hynes, Minneapolis,
 with *distinction*
 LeRoy Herbert Jensen, B.A.,
 Milltown, Wis., with *high*
distinction
 Thomas Alan Keith, B.A., Glen Ellyn,
 Ill.
 William Arthur Kendrick, B.S., B.A.,
 Minneapolis
 Bonnie Jean Kinn, North Branch,
 with *distinction*
 Ardella Karbo Lagerquist, Wayzata,
 with *distinction*
 Jill Ellen Lakowske, Robbinsdale,
 with *distinction*
 Susan Marie Lamberty, Rochester,
 with *distinction*
 Janet Marie Lauve, Newport, with
high distinction
 Peggy Kay Lorentz, Cannon Falls,
 with *high distinction*
 Nancy Lee Mangum, St. Louis Park,
 with *distinction*

Kathleen Carol McCann, St. Paul,
with distinction
Karen Lee Mierek, Minneapolis, with
distinction
LouAnn Marie Molnar, Chisago City
Linda Mary Nielsen, Minneapolis,
with distinction
Charlotte Ann Ogdahl, Minneapolis
John Louis Polasik, A.A., Minneapolis
Wendy Sue Fox Polski, Minneapolis,
with high distinction
Craig Clifford Prestegord, St. Paul
Timothy Jon Ray, A.L.A.,
Minneapolis
Martha Lou Rylander, Robbinsdale
Katherine Ada Saufferer, Faribault
Susan Frances Savard, A.A.,
International Falls

James Dexter Simmons, Bloomington,
with distinction
Nancy Louise Sonnen, St. Paul,
with distinction
Susan Stein, St. Paul, with high
distinction
Dennis Thurlow Stevens, Milwaukee,
Wis.
Roxane Wefald Svoboda, West
St. Paul, with distinction
Margaret Rose Travis, Hot Springs,
S.D., with distinction
Leslie Patricia Ward, Bloomington,
with distinction
Cheryl Ann Whitmore, Richfield,
with distinction
Richard Alan Witthans, B.Math.,
Minneapolis

Master of Education

Joan Corinne Anderson, B.S.,
Brooklyn Park
Marian Mable Johnson, B.S., White
Bear Lake

Bruce Laverne Southward, B.A.,
St. Paul
Thomas Lynn Wherry, B.S., Le Roy

COLLEGE OF FORESTRY

Bachelor of Science

James Craig Edwards, Flossmoor, Ill. Michael Dean Jacobson, Minneapolis

GENERAL COLLEGE

Associate in Arts

Ronald Floyd Dudrey, St. Paul
Robert James Gray
Alan Steven Greene
Mark Albert Haider, Roseville
Miles C. Johnson, St. Paul

Phyllis Audrey Johnson, Edina
Joan Larson Klein, Minneapolis
Theodora Jane Kruzal, St. Paul
Donna Christine Porter, Minneapolis
Jon Franklin Ziemann, Plymouth

Bachelor of Applied Studies

Gerald Wayne Bredenberg,
Minneapolis
Richard Sig Helseth, A.A.,
Minneapolis

Michael Charles McCabe, A.A.,
St. Paul
John Roy Purvis, A.A., St. Paul

Bachelor of General Studies

Michael Thomas Bennington,
Prior Lake

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Gwen Louise Anderson, Inver Grove Heights
Patricia Ann Augustin Becker, Brooklyn Park
Diane Kathryn Burns, Edina
Ann Marie Cibuzar, Brainerd
Linda Kae Danielson, Darwin
Jean Therese Dooley, A.A., Austin, with distinction
Jenny Lynn Eisenman, Rochester
Donna Jean Forsberg, A.A., Big Lake
Denise Florence Legato, St. Paul

Mary Jo Matthies, Elbo Lake
Audrey Darlene Melrose, Porter
Kathleen Gail Nelson, Grand Rapids, with distinction
Gretchen Marie Schwartz, Sleepy Eye, with high distinction
Phyllis Kreinbring Shirley, Minneapolis
Deborah Ruth Smith, St. Paul
Barbara Joan Stiernagle, Preston
Mary Jo Tomatz, Eveleth

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Master of Education

Betty Jane Schaefer, B.S., St. Paul

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Laurie Ann Duncanson, St. Paul
Nancy Joy Friedman, St. Paul
Leslie Ann Hamre, Golden Valley
Thomas James Hess, Miami, Fla.
Kathleen Ann Miller, Minneapolis

Bruce Walter Mixer, Minneapolis
Jeffrey Lee Olson, Spring Grove
Jonathan Mark Sippel, Minneapolis
Richard Neal Tice, Jr., Minneapolis
Sandra Lee Walls, Richfield

Bachelor of Arts

Gregory John Aamodt, St. Paul
Susan Jane Alexander, B.A., Cold Spring
Dorothy Helen Anderson

Dennis Michael Armstrong, Minneapolis
Joel Stuart Baker, St. Louis Park
Ronald Louis Barghini, Jr., St. Paul

Anne Kristine Beaulieu, St. Paul
 Nancy Carol Beck
 William Michael Bendel, Minneapolis
 Debra E. Bergh, Kenyon
 Paul William Bergstrom, St. Paul
 Stephen Gordon Berry, Minneapolis,
cum laude, Afro-American Studies
 Gary Eugene Bougie, St. Paul
 Thomas Eugene Boyette, Jackson,
 Mich.
 Paulette Marie Buchholz, Minneapolis
 Patrick Daniel Burns, Coleraine
 Michael Bernerd Callahan, St. Paul
 Elsa Cecelia Carlson, Circle Pines
 Jennifer Joan Choromanski,
 Minneapolis
 Debra Kris Christman, Lemmon, S.D.
Stephen Brooks Church, Minneapolis,
summa cum laude, Humanities
 Patrick Joseph Clark, A.A., Anoka
 Carol Sue Colby, Rochester
 Geraldine Elizabeth Connel,
 Stillwater
 Sandra Gene Fangmeier Cook
 Craig Alan Cooper, Grand Forks,
 N.D.
 Susan Carol Counter, Minneapolis
 Richard Dale Cross, St. Paul
 Doreen Marie Donovan, Minneapolis
 Bruce Jay Douglas, Minneapolis
 Linda Louise Edberg, Minneapolis,
summa cum laude, Social Welfare
 Marcia Louise Erickson
 Andrea Louise Norene Finch,
 Los Angeles, Calif., *summa cum*
laude, Political Science
 Beverly Diane Blood Findlay, St. Paul
 Barbara Jean Finneseth, Faribault,
magna cum laude, Sociology
 Garry Lawrence Frank, B.A.
 Julia Mary French, Anoka
 Mary Patricia Marvin Fuchs,
 White Bear Lake
 Gail Margaret Fuerstenberg,
 Minneapolis
 Mark William Furukawa, Minneapolis
 Joseph Leo Geiser, Bluffton
 Jeanne Mary Gelbmann, Roseville
 Mary Beth Graham, St. Paul
 Mark Robert Gray, Minneapolis
 Lynette Kae Grebe, A.A., St. Paul,
magna cum laude, English
 Glenn Allan Hageman, New Hope
 Marcia Ann Hansen, Burnsville
 Jan Eugene Hanvey, Gaylord
 Mary Kristine Hawkinson,
 Minneapolis
 Mary-Susan Heise, Mahtomedi
 Mary Jo Hillstead, A.A., International
 Falls
 Diane Lynne Hodiak
 Edwin Gilman Holt, A.A., St. Paul
 Joyce Beth Hoppe, Pine Island
 Steven Bruce Hoyt, Bloomington,
magna cum laude, History
 Michael Francis Huerth, St. Paul
 Ivor Hunt, Minneapolis
 Leonard W. Jackson, Jr., St. Louis
 Park
 John Robert Jeppesen, Minneapolis
 Elizabeth Armon Johnson,
 Minnetonka
 Gregory Edward Johnston,
 Minneapolis
 Donald Patrick Jones, A.A., St. Paul
 Christine Ann Kegler, St. Paul
 Spencer Brian Kempf, St. Paul
 Charles Edward Klaers, Brooklyn
 Park
 Nicholas Joseph Kleinberg,
 Minneapolis
 Kathryn Joann Kleinman,
 Minneapolis
 Lisa Elaine Knazan, St. Louis Park,
summa cum laude, Urban Studies
 Ardella Karbo Lagerquist, Wayzata
 Bruce E. Lee, Minneapolis
 Beverly Ann Lewanski, St. Paul
 Vonnie Lou Lowman, Minneapolis
 Mary Ellen Lundberg, Minneapolis
 John Peter Lunden, A.A., Minneapolis
 Jerome Joseph Lunieski, Minneapolis
 Barbara Ellen Lunn, Edina
 Dwight Richard Marriott,
 Minneapolis, *cum laude,*
Humanities
 Shirley Ann Mathias, St. Paul
 Maureen Louise McDonald,
 Minneapolis, *magna cum laude,*
Social Welfare

Mark Gregory McGee, Minneapolis,
summa cum laude, Psychology
 Bruce Brainard McLean, St. Louis
 Park
 Kathleen Clare McNulty, St. Paul
 Dian Lorraine Melius, St. Paul
 Janette Gloria Janke Mens,
 Minneapolis
 Dean Patrick Merrell, Northfield
 Paula K. Merritt, Minneapolis
 Valdean Martha Merz, Fergus Falls
 Paul Bernard Murphy
 Jane Christine Napier
 Susan Evelyn Nelson, St. Paul
 Linda Louise Nestor, St. Paul
 Arthur Leland Ney, Minneapolis
 Daniel Bruce Nordquist, Hoffman,
magna cum laude, English
 William Irving Ogilvie, St. Paul
 Jeffrey Allan Olson, Bloomington
 Kenneth Roy Olson, Luverne
 Ezekiel Akinola Oyenusi, Lagos,
 Nigeria
 Michael Walfred Pajari, Ely
 Mary Gail Pellicciotti, Keewatin
 Judson Wallace Person, Minneapolis
 Mark W. Peterson, Monticello
 Rebecca Jo Phillipps, Bloomington
 Belinda Denise Pinck, A.L.A.,
 Minneapolis
 Barbara Mary Klatt, Minneapolis
 Mary Ann Raduenz, Stillwater
 Allen John Rapatz, Minneapolis
 Sandra K. Regan, Minneapolis
 Mary Kathryn Reif, Grand Rapids
 Mary Susan Richardson,
 Minneapolis
 Baiba Zane Robins, St. Paul
 William Joseph Rodgers, Minneapolis
 Margaret Ellen Rogers, St. Paul
 Sheila Marie Ryan, St. Paul
 Gary Robert Sarnoff, St. Louis Park
 Kent Donald Saunders, Minneapolis
 Mary Kaine Scallen, Minneapolis,
cum laude, Humanities; *magna*
cum laude, Art History

MaryAnn Kathleen Scanlon,
 Minneapolis
 Jeffrey Alan Schachtman, St. Paul
 Michael Dean Schaff, A.A., St. Paul
 Barbara Jill Schick, Denver, Colo.
 David Andrew Schmith, Verndale
 Debra Mary Schultz, Hutchinson
 Donald Carl Schunicht, Pine City
 Katherine Trotzky Sirr
 Bruce Grove Sollenberger, Pine Island
 Robert Dyer Stultz, Red Wing,
summa cum laude, History
 Roxanne Gail Sundlin, Minneapolis
 Mary Ann Swenson, Mendota
 Elissa Joy Teener, Golden Valley
 Elizabeth Plant Terrell, Minneapolis
 Steven Glenn Terrell, West St. Paul
 Joanne Theobald, Rochester, *magna*
cum laude, English
 Susan Lee Thunborg, St. Paul
 Bruce John Tomlinson, Minneapolis
 Steven Warren Tyacke, Duluth
 Lonnie Kaye Ulmer, Willmar
 Rodney Jay Vessels, Minnetonka,
summa cum laude, Speech-
 Communication
 Dale Edward Vitek, St. Paul
 Michael Douglas Wallace, Hopkins
 Judith Kay Wallak, Minneapolis
 Donald George Wandzel, Minneapolis
 Elizabeth Anne Watson, St. Paul*
 Mary Katherine Waugh, Redwood
 Falls
 Wanda Mabel Wentworth, Richfield
 Phyllis Anne Wernz, Winona, *magna*
cum laude, Psychology
 Paulette Ann Wollersheim,
 Robbinsdale
 Stephen Ryan Wong, Rochester
 Fredrick Irwin Wright, Rochester
 Stephen Charles Young, St. Paul,
cum laude, English
 Donita Joyce Youngren, St. Louis
 Park
 Sandra Jo Zachow, Brooklyn Park

* Degree conferred as of June 16, 1973

Bachelor of Elected Studies

John Frederick Adams, Minneapolis
Karen Rose Anderson
Brian Lee Bartholmey, A.A., Austin

Margaret Mary Bobertz, St. Paul
Douglas Richard Carlson, Richfield
Roger Ward Shaver, Fergus Falls

Bachelor of Fine Arts

Jan Elizabeth Adams, Excelsior
Michelle Ann Movold, Alexandria

Casey A. Streich, Springfield

Bachelor of Science

Karl Dennis Speak, North St. Paul

MEDICAL SCHOOL MEDICAL TECHNOLOGY

Bachelor of Science

*These degrees are conferred subject to the completion of
practical work prior to December 12, 1973*

Cynthia Mary Dean, A.A.,
Bloomington
Gayla Jo Gordon, Hopkins, with
distinction

Elizabeth Grace Kneeskern, A.A.,
Austin
Christine Kay Senn

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Patricia Ann Kukowski, B.S., Beach,
N.D.
Linda Jean Petersen, B.S., Cashton,
Wis.

Richard George Rowe, B.S., M.D.,
Duluth

INSTITUTE OF TECHNOLOGY

Bachelor of Architecture

Robert John Johnson, St. Louis Park,
with distinction

John Joseph Kronawitter, B.A.,
Minneapolis

Bachelor of Chemical Engineering

Larry Donald Johnson, Golden Valley

Bachelor of Chemistry

Aristarchos Savva Hadjiraftis,
Goudhi, Paphos, Cyprus

Bachelor of Civil Engineering

Glen Scott Bengtson, Bloomington,
with distinction

Brian Douglas Walter, St. Paul
Peter Stevens White, St. Paul

Bachelor of Electrical Engineering

Ronald Lawrance Benson, South
St. Paul
Carl Gustaf Hansen, Virginia

Arvid Eugene Kloek, Minneapolis
Jeremy Scot Nichols, Minneapolis
Alvin John Wicklund, Minneapolis

Bachelor of Geo-Engineering

Karl Raymond Lemmerman, A.A.,
Austin

Bachelor of Landscape Architecture

Paul Robert Lura, Mankato

Bachelor of Mathematics

Wayne Arthur Mattson, Lindstrom
Kenneth Harold Volness, St. Paul,
with distinction

Ronald David Wendt, Columbia
Heights, *with high distinction*

Bachelor of Mechanical Engineering

Allan Jay Johnson, A.A., Austin

Russell Allen Pascoe, St. Paul, *with
high distinction*

Bachelor of Physics

Andrew Frank Dale, B.Math.,
Minneapolis, *with high distinction*

Bryan Russell Fredrick, White Bear
Lake, *with distinction*

Bachelor of Science in Geology

Peter Walter Recks, Walpole, Mass. Ronald David Thompson, St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

William Vincent Newman, St. Paul Stephan Michael Sawicki, Minneapolis

Bachelor of Science

Shelley Mara Ackberg, Minneapolis,
with distinction
Bernardine Diane Bryant
James Michael Fritz, South St. Paul
Janet Terri Goodman, A.A.,
Minneapolis

Michael John Lampe, St. Louis Park
James Robert Millam, Bock
Peter George Sherman, A.A., Hopkins
Bonnie Ashmore Skelton, Minneapolis
Percy Jay Zachary, Inver Grove

July Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Infantry

Dennis D. Virden, Grand Rapids

August Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Wilfred D. Antell, Stillwater

B.S. '59, Bemidji State College, Mankato State College. Major: Educational Administration. Minor: Educational Psychology. Thesis: A Model for the Distribution of Johnson O'Malley Funds Based on Educational Needs. Major Adviser: Prof. C. H. Sederberg.

Ronald George Buehler, Edina

B.S. with honorable mention '52, Valley City State College; M.Ed. '57, Western Washington State College. Major: Educational Administration. Minor: Supporting Program. Thesis: Pre-School Assessment and Three Reading Readiness Intervention Programs for High Risk Learners at the Kindergarten Level. Major Adviser: Prof. W. R. Cross.

Raymond Theodore Hoheisel, Pierz

B.S. '63, M.S. '67, St. Cloud State College. Major: Educational Administration. Minor: Supporting Program. Thesis: A Planning for Evaluation Strategy Implemented in the Cloquet Public Schools and an Assessment of the Initial Stages of the Strategy. Major Adviser: Prof. W. R. Cross.

Robert Charles Jorstad, New Brighton

B.A. '54, St. Olaf College; M.A. '60, Colorado State College. Major: Educational Administration. Minor: Supporting Program. Thesis: The Role of the Superintendent in Decision Making in the State of Minnesota as Expected by School Board Chairmen and Directors and as Perceived by Superintendents. Major Adviser: Prof. G. F. Alkire.

Steven Barry Permuth, St. Paul

A.L.A. '64, B.S. '66, University of Minnesota; M.A. '68, College of St. Thomas. Major: Educational Administration. Minor: Supporting Program. Thesis: A Comparison of Professorial and Secondary School Principal Perceptions of the Effectiveness of the Materials and Techniques Used in the Preparation of the Secondary School Principal. Major Adviser: Prof. V. D. Mueller.

Dale Louis Schneiderhan, Roseville

B.S. with honors '62, Moorhead State College; M.S. '65, St. Cloud State College. Major: Educational Administration. Minor: Supporting Program. Thesis: A Model for the Introduction of Computer Assisted Instruction in K-12 Schools. Major Adviser: Prof. V. D. Mueller.

Rosemary Malmgren Schneiderhan, Roseville

B.S. summa cum laude '61, Moorhead State College; M.S. '63, St. Cloud State College. Major: Educational Administration. Minor: Educational Psychology. Thesis: A Comparison of an Individually Guided Education (I.G.E.) Program, an Individually Guided Instruction (I.G.I.) Program, and a Traditional Elementary Program at the Intermediate Level. Major Adviser: Prof. V. D. Mueller.

Doctor of Philosophy

Arnold Robert Alanen, Lawler

B.A. '63, M.A. '68, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: College Student Migration: Implications for Higher Educational Planning in Minnesota. Major Adviser: Prof. J. R. Borchert.

John Charles Anderson, Bloomington

B.Ch.E. with high distinction '66, M.B.A. '69, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Decision Maker Response to Probabilistic Information in the Capital Investment Decision Process. Major Adviser: Prof. T. R. Hoffmann.

William Gilbert Anderson, Newton,
Mass.

A.B. '64, Boston College; M.S. '66, Michigan State University. Major: Pharmacology. Minor: Biochemistry. Thesis: Inhibition of the Uterotonic Action of Oxytocin. Major Adviser: Prof. J. W. Miller.

Nancy Remus Bain, Minneapolis

B.A. '64, College of St. Catherine; M.A. '67, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: Spatial Variations in Fertility: The United States, 1920, 1940 and 1960. Major Adviser: Prof. J. W. Webb.

Alan Lee Baker, Stewartville

B.A. '65, Harpur College. Major: Ecology. Minor: Geology. Thesis: Microstratification of Phytoplankton in Three Minnesota Lakes. Major Adviser: Prof. A. J. Brook.

Thomas Royston Banks, St. Paul

B.A. '63, M.A. '68, University of Minnesota. Major: Classics. Minor: Supporting Program. Thesis: A Study of the Imagery of Aristophanes' Wasps in Its Dramatic Context. Major Adviser: Prof. R. P. Sonkowsky.

Dale Eugene Bennett, Marion, Ind.

B.S. '55, M.A. '59, Ball State Teachers College. Major: Education. Minor: Educational Psychology. Thesis: The Differential Predictive Effectiveness of Selected Pre-Reading Measures on Success in Reading at the End of Grade One Under Each of Six Major Approaches to First-Grade Reading Instructions. Major Adviser: Prof. Robert Dykstra.

Arland N. Benson, St. Francis

B.S. '60, M.A. '61, C.Sp.Ed. '67, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Differential Approach to Orientation to Group Counseling. Major Adviser: Prof. D. H. Blocher.

Dana Drovdal Brandt, Watford City,
N.D.

B.S. magna cum laude '66, University of North Dakota; M.A. '70, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Comparison of Two Instructional Approaches to the Teaching of Selected Punctuation and Capitalization Skills to Beginning Second Grade Pupils. Major Adviser: Prof. Robert Dykstra.

David Lee Brodigan, Minneapolis

B.A. '67, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Blocking of Excitatory Appetitive Classical Conditioning. Major Adviser: Prof. M. A. Trapold.

Kenneth Wayne Brunson, Chico,
Tex.

B.A. '64, M.A. '66, North Texas State University. Major: Microbiology. Minor: Biochemistry. Thesis: Immunochemical Characterization of Group A Streptococcal Pyrogenic Exotoxins. Major Adviser: Prof. D. W. Watson.

Betty Ann Burch

B.A. '64, St. Joseph's College; M.A. '67, DePaul University. Major: American Studies. Thesis: The Assimilation Experience of Five American White Ethnic Novelists of the Twentieth Century. Major Adviser: Prof. R. J. Vecoli.

John Alan Burkart, Mason City,
Iowa

B.A. '67, M.S. '69, University of Iowa. Major: Biometry. Minor: Statistics. Thesis: Quantitative Assessment of Aftercare in the Treatment of the Chemically Dependent. Major Adviser: Prof. J. R. Boen.

Mona Joy Casady, Superior, Wis.

B.A.E. '65, Wayne State College; M.S. '66, Wisconsin State University. Major: Education. Minor: Supporting Program. Thesis: Job Satisfaction of Magnetic Typewriter Operators in Word Processing. Major Adviser: Prof. C. R. Hopkins.

Frank Stanley Chwieroth, Philadelphia, Pa.

B.S. '69, Drexel University. Major: Physics. Minor: Mathematics. Thesis: Microscopic Study of the Five Nucleon System. Major Adviser: Prof. R. E. Brown.

John Bell Conway, Dayton, Ohio

B.S. '64, San Diego State College; M.P.H. '70, University of Minnesota. Major: Environmental Health. Minor: Entomology. Thesis: The Distribution, Make-up, General Ecology and Biomass of the Zooplankton Population in Western Lake Superior. Major Adviser: Prof. T. A. Olson.

Edwin Russell Coover, Annapolis,
Md.

B.A. '64, M.A. '66, University of Virginia. Major: History. Minor: Supporting Program. Thesis: Status and Role Change Among Women in the United States, 1940-1970: A Quantitative Approach. Major Adviser: Prof. C. A. Chambers.

Patricia J. Rawerts Dahl, Bloomington
B.S. '67, M.A. '70, University of Minnesota.
Major: Educational Psychology. Minor: Supporting Program. Thesis: A Mastery Based Experimental Program for Teaching Poor Readers High Speed Word Recognition Skills. Major Adviser: Prof. S. J. Samuels.

John Turner Daniel, London,
England

B.A. with honors '58, Cambridge University; M.A. '61, University of Minnesota. Major: English. Minor: Art History. Thesis: The Influence of the English Class Structure on the Work of D. H. Lawrence. Major Adviser: Prof. G. T. Wright.

William Lee Dentler, Jr.,
Minneapolis

B.A. '66, University of Minnesota. Major: Biology. Thesis: Molecular Cytology of Tetrahymena Cilia. Major Adviser: Prof. W. P. Cunningham.

Marshall Dermer, Chicago, Ill.

B.A. '67, University of Illinois, Chicago Circle. Major: Psychology. Minor: Educational Psychology. Thesis: When Beauty Fails. Major Adviser: Prof. E. S. Berscheid.

Charles Earl Dexheimer, St. James

B.S. '63, University of Minnesota. Major: Nutrition. Minor: Supporting Program. Thesis: Fermentation Characteristics and Net Energy Values of Dry and Ensiled High Moisture Corn Grain. Major Adviser: Prof. R. D. Goodrich.

Josefa Abarcar Dikitanan, Quezon
City, Philippines

B.S.E. cum laude '52, University of the Philippines; M.A. '61, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: An Analysis of Teacher Education Programs for Value Orientations. Major Adviser: Prof. M. M. Brown.

Daryl Dean Dressler, Anita, Iowa

B.S.E.E. '64, M.S.E.E. '66, Iowa State University. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Digitally-Recorded Transitions in Thin Magnetic Films. Major Adviser: Prof. J. H. Judy.

Steven Loy Edgell, Minneapolis

B.A. '67, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Effectiveness of Different Confrontation Levels in Changing a Client's Attribution of the Cause of His Problem. Major Adviser: Prof. D. J. Weiss.

V. Lois Erickson

B.S. cum laude '59, M.A. '70, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Personal Growth for Women: A Cognitive-Developmental Curriculum. Major Adviser: Prof. N. A. Sprinthall.

Francene Esther Evans, Aberdeen,
S.D.

B.A. summa cum laude '62, M.A. '65, Marquette University. Major: Education. Minor: Supporting Program. Thesis: Elementary Teachers' Conceptual Systems, Information Handling, and Application of Sanctions. Major Adviser: Prof. G. M. Mork.

Gerald Bruce Finch, Los Angeles,
Calif.

A.B. magna cum laude '69, University of Southern California. Major: Political Science. Minor: Supporting Program. Thesis: Policy and Candidate Choice in the 1968 American Presidential Election. Major Adviser: Prof. W. H. Flanigan.

Ekram Moustafa Genenah, Cairo,
Egypt

B.S. '62, Cairo University. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: Potential Antihypertensive Agents. Major Adviser: Prof. T. O. Soine.

Walter Dale Graul, Wichita, Kan.

B.S.Ed. '66, M.S. '68, Kansas State Teachers College. Major: Ecology. Minor: Supporting Program. Thesis: Breeding Adaptations in the Mountain Plover (*Charadrius montanus*). Major Adviser: Prof. D. F. McKinney.

Robert Stanley Griffin, Minneapolis

B.S. '64, M.A. '67, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The Direct Involvement Scale: A Means of Measuring the Level of Personal Participation in a Learning Situation Among Students. Major Adviser: Prof. W. E. Gardner.

Charles Milton Grisham, St. Louis
Park

B.S.Ch. '69, Illinois Institute of Technology. Major: Chemistry. Minor: Supporting Program. Thesis: The Purification of the Sodium and Potassium Ion-Activated Adenosine Triphosphatase and Its Characterization by Spin Labeling. Major Adviser: Prof. R. E. Barnett.

Barbara Katherine Guhl, Milwaukee,
Wis.

B.S. '54, Marquette University; B.A. '60, M.A. '61, University of Wisconsin. Major: English. Minor: History. Thesis: Self and Society and the Form of Trollope's Social Novels. Major Adviser: Prof. W. A. Madden.

Karen Ann Feste Hanson,
Minneapolis

B.A. '65, Concordia College; M.A. '69, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: A Longitudinal Study of Dyadic International Conflict: Prisoner's Dilemma and the Kashmir Dispute. Major Adviser: Prof. R. E. Riggs.

Patricia Anne Hartman, Los Angeles,
Calif.

B.S. '67, California State Polytechnic College; M.S. '69, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Social Variations in Magical Belief. Major Adviser: Prof. D. A. Martindale.

M. Victoria Jacobson, Roseville

B.S. cum laude '57, M.Ed. '60, Macalester College. Major: Education. Minor: Supporting Program. Thesis: A Linguistic Feature Analysis of Verbal Protocols to Assess Pupil Responses to Standardized Measures of Reading Comprehension. Major Adviser: Prof. R. L. Schreiner.

Charles Joseph James, Kansas City,
Mo.

A.B. '65, Rockhurst College; M.A. '68, Indiana University. Major: Education. Minor: Supporting Program. Thesis: An Examination of the Validity of the Speaking and Writing Tests of the MLA Cooperative Foreign Language Proficiency Tests, Form HA, German, Using Observation Instruments for Measuring Speaking and Writing Skills in Classroom Teaching Situations with Student Teachers of German. Major Adviser: Prof. E. M. Birkmaier.

Don Clifford Jensen, Salt Lake City,
Utah

B.A. '60, M.A. '63, Brigham Young University. Major: Education. Minor: French. Thesis: An Investigation of Techniques for Machine Scored Testing of Speech Production in French. Major Adviser: Prof. E. M. Birkmaier.

Mary Ann Latvala Johansson,
Minneapolis

B.A. magna cum laude '64, M.A. '66, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: Evaluation of Group Therapy with Children: A Behavioral Approach. Major Adviser: Prof. J. N. Butcher.

Wayne Albert Jones, Forest Lake

B.F.A. '67, Ohio University; M.A. '70, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: An Analysis of a Special Education Needs Assessment Using Delphi Methods. Major Adviser: Prof. R. F. Weatherman.

Helen Lydia Jorstad, Northfield

B.S. '55, University of Wisconsin; M.A. '64, Columbia University. Major: Education. Minor: French. Thesis: An Examination of the Validity of the MLA Cooperative Foreign Language Proficiency Tests in Measuring Speaking and Writing Skills in French and Comparison with an Interview Scale to Measuring Speaking. Major Co-Advisers: Profs. E. M. Birkmaier and D. L. Lange.

Gerald Alan Joss, New York, N.Y.

B.A. with distinction '61, M.A. '63, Temple University. Major: English. Minor: Supporting Program. Thesis: American Film Criticism, 1940-1970: A Comparative Study. Major Adviser: Prof. G. T. Wright.

William Wallace Keenan, Clark, S.D.

B.A. '49, M.A. '52, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: A Comparative Study of the Motivational Effects of a Model Schools Experimental Program at the Junior High School Level with a Traditional Junior High School. Major Co-Advisers: Profs. V. D. Mueller and G. F. Alkire.

Roger Anthony Kerin, Duluth

B.A. magna cum laude '69, M.B.A. '70, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Personalization Strategies in Mail Survey Research. Major Adviser: Prof. C. W. Rudelius.

Paul Yung Taik Kim, Minneapolis

B.A. '62, M.S. '66, University of Minnesota. Major: Education. Minor: Business Administration. Thesis: An Analysis of Personal Economic Understanding Developed in Collegiate Business Courses. Major Adviser: Prof. C. R. Hopkins.

David Lee King, St. Paul

B.S. with distinction '61, D.D.S. '63, University of Minnesota. Major: Anatomy. Minor: Dentistry. Thesis: The Growth and Mineralization of Incisor Dentin in the Parathyroid-ectomized Rat. Major Adviser: Prof. P. K. Dixit.

Robert Emerson Lasky, Guatemala,
Guatemala

B.S. magna cum laude '68, Duke University. Major: Child Psychology. Minor: Psychology. Thesis: The Effect of Visual Feedback on the Reaching of Young Infants. Major Adviser: Prof. H. L. Pick, Jr.

Betty Zoe Liles, Minneapolis

B.A. '65, M.A. '66, Our Lady of the Lake College. Major: Speech Science, Pathology, and Audiology. Minor: Psychology. Thesis: The Effects of Pause Time in Auditory Comprehension of Aphasic Subjects. Major Adviser: Prof. G. M. Siegel.

Wei-Chin Lin, Taiwan, Republic of
China

B.S. '62, Chung Hsing University; M.S. '68, University of Saskatchewan. Major: Plant Physiology. Minor: Horticulture. Thesis: The Influence and Relationship of Exogenous and Endogenous Gibberellins and Abscisic Acid in the Growth and Development of the Easter Lily, *Lilium longiflorum*, Thunb. Major Adviser: Prof. R. E. Nylund.

Han Chin Liu, Taichung, Taiwan

B.A. '62, National Taiwan University; M.A. '68, University of Minnesota. Major: Mass Communication. Minor: Educational Psychology. Thesis: Media Use, Academic Performance, and Social-Demographic Background: A Study of Taiwanese Children. Major Adviser: Prof. R. E. Carter.

Thomas Joseph Lombardo, Water-
bury, Conn.

B.A. '69, University of Connecticut. Major: Psychology. Minor: Philosophy. Thesis: J. J. Gibson's Ecological Approach to Visual Perception: Its Historical Context and Development. Major Adviser: Prof. R. E. Shaw.

Lonna Myers Malmsheimer,
Tarentum, Pa.

B.A. '62, M.A. '65, Pennsylvania State University. Major: American Studies. Thesis: New England Funeral Sermons and Changing Attitudes Toward Woman, 1672-1792. Major Adviser: Prof. C. C. Hansen.

Paul Brunson Manchester,
Fredericksburg, Va.

B.A. '64, Yale University. Major: Economics. Minor: Supporting Program. Thesis: An Econometric Analysis of State Cigarette Taxes, Prices, and Demand, with Estimates of Tax-Induced Interstate Bootlegging. Major Adviser: Prof. E. F. Foster.

William David Martin, Anaconda,
Mont.

A.B. '64, Carroll College; M.S. '66, Creighton University. Major: Veterinary Anatomy. Minor: Supporting Program. Thesis: A Study of the Musculature, Vessels, and Nerves of the Feline Pelvic Region. Major Adviser: Prof. T. F. Fletcher.

Karen Mae McCoy, Minneapolis

B.M.E. '61, Drake University; M.A. '68, University of Minnesota. Major: Education. Minor: Music. Thesis: A Comparison of the Effectiveness of Asahel Woodruff's Carrier Project and Traditional Teaching Methods in Pursuing a Musical Task Involving Fourth Grade Students. Major Adviser: Prof. E. M. Turrentine.

Theodore Melloh, New Hope

A.B. '56, Wagner College; M.A. '66, New York University; M.S. '67, Wagner College. Major: Educational Administration. Minor: Supporting Program. Thesis: The Role of the Principal as Perceived by Secondary Teachers and Administrators. Major Adviser: Prof. N. C. Nickerson.

Albert James Memmott, Canton,
N.Y.

A.B. '64, Hamilton College; M.A. '69, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: The Theme of Revenge in the Fiction of William Faulkner. Major Adviser: Prof. G. T. Wright.

Karl Rolf Mirus, Berlin, Germany

M.A. '66, University of Minnesota. Major: Economics. Minor: Supporting Program. Thesis: Monetary Policy and the Demand for Liquid Assets in Germany. Major Adviser: Prof. J. H. Kareken.

Per Birger Mokkelbost, Kristiansund,
Norway

B.K. '66, D.B.K. '67, Oslo Institute of Business Administration. Major: Business Administration. Minor: Supporting Program. Thesis: Integration of the Investment and Financing Decision. Major Adviser: Prof. R. B. Upson.

Michael George Mudrey, Jr.,
Minneapolis

A.B. '67, Princeton University; M.S. '69, Northern Illinois University. Major: Geology. Minor: Chemistry. Thesis: Structure and Petrology of the Sill on Pigeon Point, Cook County, Minnesota. Major Adviser: Prof. P. W. Weiblen.

Georgia Jane Myers, Evanston, Ill.

A.B. '66, Indiana University. Major: Psychology. Minor: Psychiatry. Thesis: A Defensiveness Scale for the Personality Inventory for Children. Major Adviser: Prof. R. D. Wirt.

Wilburn Oliver Bennett Nelson,

Saskatoon, Saskatchewan, Canada

B.A. '60, University of Minnesota; B.D. '64, Lutheran School of Theology; S.T.M. with honors '67, Southern Methodist University. Major: Mass Communication. Minor: Sociology. Thesis: Dogmatism, Perceived Mass Media Congruity, Perceived Reference Group Congruity, and Communication Behavior of Clergy in Decision Making. Major Adviser: Prof. P. J. Tichenor.

Thomas Harlan Nicholls, Madison,
Wis.

B.S. '60, M.S. '64, University of Wisconsin. Major: Ecology. Minor: Plant Pathology. Thesis: Ecology of Barred Owls as Determined by an Automatic Radio-Tracking System. Major Adviser: Prof. D. W. Warner.

Lynn Verl Ogden, Richfield, Utah

B.S. '66, M.S. '68, Utah State University. Major: Food Science and Industries. Minor: Biochemistry. Thesis: The Homogenization-Induced Clustering of Fat Globules in Cream and Model Systems. Major Adviser: Prof. H. A. Morris.

Sister Luz Maria Orozco

B.A. '56, Marycrest College; M.A. '58, Marquette University. Major: Comparative Literature. Minor: English. Thesis: France and Spain in the English Periodicals of Queen Anne's Reign (1702-1714). Major Adviser: Prof. G. H. Weiss.

Anne Christine Permaloff, Royal
Oak, Michigan

Ph.B. '66, M.A. '68, Wayne State University. Major: Political Science. Minor: Supporting Program. Thesis: The Nature of Partisan Change: Stability and Change Patterns in the American Electorate. Major Adviser: Prof. W. H. Flanagan.

Leo Isisore Philippe, South Bend,
Ind.

B.A. '60, University of Notre Dame; M.S. '62, University of Minnesota. Major: German. Minor: Supporting Program. Thesis: A Study of Stefan Andres's *Die Sintflut*. Major Adviser: Prof. F. H. Wood.

Larry Deloss Puckett, Wichita, Kan.

B.S. '66, Wichita State University. Major: Genetics. Minor: Biochemistry. Thesis: Position Effect Suppression of Ribosomal RNA Synthesis in *Drosophila Melanogaster*. Major Adviser: Prof. L. A. Snyder.

Lawrence Que, Jr., Quezon City,
Philippines

B.S. '69, University of Manila. Major: Chemistry. Minor: Supporting Program. Thesis: Nuclear Magnetic Resonance Studies of Stereochemically Nonrigid Metal Complexes. Major Adviser: Prof. L. H. Pignolet.

John Drew Roth, Iowa City, Iowa

B.S. '65, Concordia Teachers College; M.A. '66, Western Michigan University. Major: Psychology. Minor: Educational Psychology. Thesis: The Development and Evaluation of Empirical Scales of Personality Items for the Adjustment of Academic Predictions. Major Adviser: Prof. R. F. Berdie.

William Charles Rothman, Belmont,
Mass.

A.B. '64, Boston University; M.S. '68, University of California, Riverside. Major: Physical Chemistry. Minor: Supporting Program. Thesis: The Fluorescence of Saturated Hydrocarbons. Major Adviser: Prof. Sanford Lipsky.

Prem Kishor Saint

B.S. with honors '63, M.S. '64, University of London. Major: Environmental Health. Minor: Hydrogeology. Thesis: Effects of Landfill Disposal of Chemical Wastes on Groundwater Quality. Major Adviser: Prof. C. P. Straub.

Kenneth Oliver St. Louis,
Minneapolis

B.S. '66, Colorado State University; M.S. '70, University of Michigan. Major: Speech Science, Pathology, and Audiology. Minor: Supporting Program. Thesis: The Effects of Motor Speech Awareness on Stuttering. Major Adviser: Prof. R. R. Martin.

Roy Leon Sanford, Princeton

B.A. magna cum laude '68, M.S. '70, University of Minnesota. Major: Biometry. Minor: Statistics. Thesis: On the Accuracy and Optimization of Tracking Systems. Major Co-Advisers: Profs. J. R. Boen and D. B. Siniff.

John Wynne Santrock, Charleston,
W.Va.

A.B. '65, M.S. '67, University of Miami. Major: Child Psychology. Minor: Supporting Program. Thesis: Family Structure, Maternal Behavior, and Moral Development in Boys. Major Adviser: Prof. W. W. Hartup.

William Patrick Schrader,
Minneapolis

B.S. '64, M.S. '68, University of Minnesota.
Major: Biochemistry. Minor: Organic Chem-
istry. Thesis: Isolation and Characterization of
a Membrane Bound Nucleotidase of *Bacillus*
Cereus. Major Adviser: Prof. J. S. Anderson.

Gerald Raymond Seeley, Edina

B.S.M.E. '63, M.S. '66, University of Wiscon-
sin; M.S.C.E. '71, University of Minnesota.
Major: Civil Engineering. Minor: Supporting
Program. Thesis: Experimental and Analytical
Investigation of Wind Forces on Circular
Concave Cable Roofs. Major Co-Advisers:
Prof. P. P. Christiano and H. G. Stefan.

Jap Narayan Bahadur Shrestha,
Kathmandu, Nepal

B.V.S., A.H. '66, U.P. Agricultural University;
M.S. '70, University of Minnesota. Major:
Animal Science. Minor: Genetics. Thesis:
Evaluation of Breeding Schemes Employed for
the Production of Crossbred Market Pigs. Ma-
jor Adviser: Prof. W. E. Rempel.

William O'Daniel Smith, Arlington,
Tex.

B.A. '61, Baylor University; M.Ed. '67, North
Texas State University. Major: Vocational
Education. Minor: Supporting Program. Thesis:
Curricular Organization and Content for
the Preparation of Teacher-Coordinators of
Cooperative Vocational Education Programs.
Major Adviser: Prof. W. G. Meyer.

Leslie Clarence Sonnabend, Amboy

B.S. '64, M.A. '64, Mankato State College.
Major: Educational Administration. Minor:
Curriculum and Instruction. Thesis: A Study
of the Role Dimension of the Secondary
School Principal in Robbinsdale. Major Ad-
viser: Prof. V. D. Mueller.

John Thomas Stout, Sun Prairie,
Wis.

B.A. '61, University of Minnesota. Major:
Genetics. Minor: Biochemistry. Thesis: The
Biochemical Cytogenetics of a Meiotic Mutant
in Maize. Major Adviser: Prof. R. L. Phillips.

Stephen John Tarapchak, St. Paul

B.S.Ed. '64, Clarion State College; M.S. '66,
Ohio University. Major: Ecology. Minor: Bot-
any. Thesis: Studies on Phytoplankton Dis-
tribution and Indicators of Trophic State in
Minnesota Lakes. Major Adviser: Prof. A. J.
Brook.

Bennett Ross Taylor, Minneapolis

B.S. '49, M.A. '53, Northwestern University;
Ed.M. '63, Harvard University. Major: Edu-
cation. Minor: Mathematics. Thesis: The Ef-
fect of a Mastery Learning of Minimum Es-
sentials Requirement on Achievement in Ninth
Grade Algebra. Major Adviser: Prof. D. A.
Johnson.

Karen Elizabeth Thorkelson,
Minneapolis

B.A. magna cum laude '64, Carleton College.
Major: Psychology. Minor: Psychiatry. Thesis:
The Relationship Between Hypnotic Suscepti-
bility and Certain Personality, Physiological,
and Electroencephalographic Variables in
Monozygotic and Dizygotic Twin Pairs. Major
Adviser: Prof. Auke Tellegen.

Francisco E. Thoumi, Bogotà,
Colombia

Econ. '64, University of Los Andes. Major:
Economics. Minor: Supporting Program. Thesis:
On a Theory of International Trade of
Used Durable Goods with an Application to
Underdeveloped Countries. Major Adviser:
Prof. O. H. Brownlee.

Ingrid Marie Tiegel, Redwood City,
Calif.

B.A. '65, Stanford University; M.A. '68, San
Jose State College. Major: Child Psychology.
Minor: Psychology. Thesis: A Validation Study
of Sibling Attachment. Major Adviser: Prof.
S. G. Moore.

Yuan-sheng Tyan, Taiwan, Republic
of China

B.S. '66, National Taiwan University; M.S.
'69, University of Minnesota. Major: Metal-
lurgy and Materials Science. Minor: Support-
ing Program. Thesis: A Structure Model for
the Chemical or Electrodeposited Crystalline
and Amorphous Ni-P and Co-P Alloys. Major
Adviser: Prof. L. E. Toth.

Elymar Vea Vea, Bacarra, Philippines

B.S.A. cum laude '62, University of the
Philippines. Major: Entomology. Minor: Bio-
chemistry. Thesis: Rhythmometry Relationship
of Rate of Oxygen Consumption and Insecti-
cide Sensitivity in the Adult Confused Flour
Beetle, *Tribolium confusum* (Duval). Major
Adviser: Prof. L. K. Cutkomp.

Arnold William Vinson, Los Angeles, Calif.

B.A. '69, California State University; M.A. '72, Brown University. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Investigation Concerning the Influence of Conceptual Systems and Classroom Climate on Self-Concept and Academic Achievement of Afro-American Urban School Children. Major Adviser: Prof. M. D. Hall.

Subbaraman Viswanathan, Madras, India

B.S. '63, University of Madras; B.Tech. '66, M.Tech. '68, Indian Institute of Technology. Major: Chemical Engineering. Minor: Mathematics. Thesis: Chromatographic Reactors. Major Adviser: Prof. Rutherford Aris.

Arnold Peter Vitols, St. Paul

B.S. with distinction '65, M.S. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Decaying Plasmas Produced in Rare Gas-Hydrogen Mixtures. Major Adviser: Prof. H. J. Oskam.

Victor Kai-Kuo Wang, Taiwan, Republic of China

B.S. '65, Ching Yuan Christian College; M.A. '68, State University of New York at Binghamton. Major: Physical Chemistry. Minor: Supporting Program. Thesis: The Vibration-Rotation Dynamics of Simple Molecules. Major Adviser: Prof. John Overend.

Richard David Ward, Sumter, S.C.

B.A. '59, M.A. '61, Bob Jones University. Major: History. Minor: Supporting Program. Thesis: The Family History of Silli-Ištar—A Reconstruction Based on the Kutalla Documents. Major Adviser: Prof. T. B. Jones.

Lee Randall Zehner, Lansdowne, Pa.

B.S. '68, University of Pennsylvania. Major: Chemistry. Minor: Internal. Thesis: A Study of Some 1,4-Transannular Peroxides: Synthesis and Rearrangements. Major Adviser: Prof. S. W. Fenton.

Thomas Henry Zytkovicz, Osseo

B.S. '64, St. Thomas College. Major: Biochemistry. Minor: Supporting Program. Thesis: A Study of Dipicolinic Acid Biosynthesis by Bacterial Spores. Major Adviser: Prof. H. R. Warner.

Master of Architecture

Craig Arthur Amundsen, Minneapolis

B.A. '73, University of Minnesota. Major: Architecture. Thesis: Maximization of Interaction Among Members of the University Community (Through Design of Lounge and Dining Facilities). Major Adviser: Prof. W. K. Vivrett.

Jonathan Tillberg Miller, Davenport, Iowa

B.Arch. '68, Iowa State University. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.

David T. Nee, Hong Kong

B.Arch. '71, University of Oregon. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.

Chander Prakash Sharma, New Delhi, India

N.D. '66, School of Planning and Architecture, New Delhi. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.

Master of Arts

Lois Marie Arth, St. Paul

B.A. '70, Macalester College. Field of Concentration: Theatre Arts. Major Adviser: Prof. L. J. Dezseran.

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Minnetonka

B.A. '69, St. Olaf College. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Zimmer.

Master of Fine Arts

Haimanot Alemu, Addis Ababa,
Ethiopia

B.A. magna cum laude '72, University of Minnesota. Field of Concentration: Theatre Arts. Major Adviser: Prof. R. D. Moulton.

Bernard Louis McNally, North Platte,
Nebr.

B.F.A. '71, University of Nebraska. Field of Concentration: Studio Arts. Major Adviser: Prof. Katherine Nash.

Lois D. Roffers Pearson, Minneapolis
B.F.A. '71, University of Minnesota. Field of
Concentration: Music. Major Adviser: Prof.
R. A. Schuessler.

Anne Kathryn Smiley Proctor,
Mission, Tex.

B.A. '65, Austin College. Field of Con-
centration: Music. Major Adviser: Prof. R. A.
Schuessler.

Jane E. Anderson Zingale,
Minneapolis

B.S. '65, University of Wisconsin. Field of
Concentration: Studio Arts. Major Adviser:
Prof. H. T. Rowan.

Master of Mechanical Engineering

James Craig Perso, Minneapolis

B.M.E. '64, University of Minnesota. Major:
Mechanical Engineering. Minor: Industrial
Engineering. Major Adviser: Prof. D. A.
Frohib.

Master of Science

Idrisu Alhaji, Zaria, Nigeria

D.V.M. '68, Michigan State University. Field
of Concentration: Veterinary Medicine. Major
Adviser: Prof. D. W. Johnson.

Patricia Ann Anderson, Litchfield

B.A. '72, St. Cloud State College. Field of
Concentration: Environmental Health. Major
Adviser: Prof. C. P. Straub.

Julie Barrett, Wayzata

B.A. '67, University of New Hampshire. Ma-
jor: Ecology. Minor: Biometry. Thesis: Breed-
ing Behavior of Captive Mallards. Major
Adviser: Prof. D. F. McKinney.

Paul Mean-shung Chen, Taitung,
Taiwan

B.S. '67, Taiwan Provincial University; M.S.
'71, North Dakota State University. Field of
Concentration: Horticulture. Major Adviser:
Prof. P. H. Li.

Timothy John Engel, Pine City

B.A. '69, Luther College. Field of Con-
centration: Computer and Information Sciences. Ma-
jor Adviser: Prof. O. H. Ibarra.

John Anthony Foley, Jr., Minneapolis

B.S. with distinction '71, University of Min-
nesota. Field of Concentration: Animal Sci-
ence. Major Adviser: Prof. D. E. Otterby.

Dale Ebenhard Gandrud, Owatonna

B.S. '71, University of Minnesota. Field of
Concentration: Agronomy. Major Adviser:
Prof. A. N. Andersen.

Linda Lucile Grummer, Isle

B.S. magna cum laude '71, University of
Miami. Field of Concentration: Nursing. Ma-
jor Adviser: Prof. Barbara Redman.

Guillermo Eyquem Guell

Ing.For. '70, Universidad de Chile. Field of
Concentration: Forestry. Major Adviser:
Prof. H. M. Gregerson.

Avonell Elaine Hagen, Erskine

B.S. '55, University of Minnesota. Field of
Concentration: Wildlife. Major Adviser: Prof.
W. H. Marshall.

Sr. Regina Marie Hoffman, Sylvania,
Ohio

B.S.N. '69, Incarnate Word College. Field of
Concentration: Nursing. Major Adviser: Prof.
M. I. Harris.

William Harvey Horns, Minneapolis

B.A. '70, University of Minnesota. Field of
Concentration: Biometry. Major Adviser: Prof.
J. R. Boen.

Janice Ann Ingersoll, Willow Grove,
Pa.

B.A. '71, Temple University. Field of Con-
centration: Zoology. Major Adviser: Prof.
D. E. Gilbertson.

Mark Edward Jensen, St. Paul

B.S. '72, Illinois State University. Field of
Concentration: Plant Physiology. Major Ad-
viser: Prof. C. J. Weiser.

Ik Joon Jeon, Jangsong, Korea

B.Ag. '66, Kon-Kuk University. Major: Food Science and Industries. Minor: Statistics. Thesis: Texture of Raw and Processed Cucumbers: Correlation of Instrumental and Sensory Measurements. Major Adviser: Prof. W. M. Breene.

Dennis Arnold Johnson, Pine City

B.S. '71, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: A Market Analysis of the Lodging Industry in the Twin Cities Metropolitan Area. Major Adviser: Prof. Uel Blank.

Steven Frank Johnson, River Falls, Wis.

B.A. cum laude '68, St. Olaf College. Field of Concentration: Business Administration. Major Adviser: Prof. N. L. Chervany.

David Scott Jondle, West Allis, Wis.

B.A. cum laude '71, St. Olaf College. Field of Concentration: Chemistry. Major Adviser: Prof. M. M. Kreevoy.

Jarmila Juris, St. Paul

R.N.Dr. '69, Charles University, Prague. Field of Concentration: Genetics. Major Adviser: Prof. C. J. Witkop, Jr.

Richard William Kansas, Jr.,
Minneapolis

B.S.E.E. '60, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. E. Willis.

Christine Leokadia Laszcz, Cleveland, Ohio

B.S. '72, Notre Dame College. Field of Concentration: Environmental Health. Major Adviser: Prof. K. J. Caplan.

Stephen L. Legenhausen, Minneapolis

B.A. with honor '64, Mankato State College. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. P. C. Patton.

Hugo Alberto Medina, Mexico City, Mexico

D.V.M. '70, National Autonomous University of Mexico. Field of Concentration: Veterinary Microbiology. Major Adviser: Prof. B. S. Pomroy.

James Peter Mellema, Reading

B.Phys. with distinction '71, University of Minnesota. Field of Concentration: Physics. Major Adviser: Prof. C. F. Giese.

Andrew Brian Mickel, Minneapolis

B.S. '71, University of Texas. Major: Computer and Information Sciences. Minor: Linguistics. Thesis: Comparative Study of the Semantics of Select Programming Languages. Major Adviser: Prof. K. S. Frankowski.

Karen Joy Wickler Moore, St. Paul

B.S. cum laude '70, Westmar College. Field of Concentration: Botany. Major Adviser: Prof. Thomas Morley.

J. David Naumann, St. Paul

B.A. '71, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffmann.

Michael George Nelson, Minneapolis

B.A. '63, University of Maryland. Field of Concentration: Business Administration. Major Adviser: Prof. J. K. Simmons.

Norman Martin Nelson, Minneapolis

B.A. '67, St. Cloud State College; M.S. '69, University of Minnesota. Field of Concentration: Biometry. Major Adviser: Prof. J. R. Boen.

Bruce James Parliman, St. Paul

B.S. '70, University of New Hampshire. Field of Concentration: Horticulture. Major Adviser: Prof. Cecil Stushnoff.

John Michael Quernemoen, Fergus Falls

B.Math. '67, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. B. E. Fristedt.

David Alan Rhoades, Wellington, New Zealand

B.S. with honors '71, Victoria University of Wellington. Field of Concentration: Mathematics. Major Adviser: Prof. Steven Orey.

Patricia Ann Richards, St. Paul

B.S. cum laude '60, University of Dubuque. Major: Entomology. Minor: Botany. Thesis: The Origin of the Cuticular Ring or Rings and Flanges in the Proventriculus of *Aedes Aegypti* Larvae. Major Adviser: Prof. A. C. Hodson.

Nathan Richman, New York, N.Y.

B.S. '63, Brooklyn College. Major: Biochemistry. Minor: Microbiology. Thesis: Interaction of Polypeptide Chain Elongation Factors with the Bacterial Ribosome. Major Adviser: Prof. J. W. Bodley.

Robert Gerrit Ruesink, Spring Valley
B.A. '65, University of Minnesota. Major:
Fisheries. Minor: Biometry. Thesis: Threshold
Toxicity Levels as Indices of Chronic Toxicity
in Fish. Major Adviser: Prof. L. L. Smith.

Edwin Albert Ruotsinoja, St. Paul
B.S. '68, University of Minnesota. Field of
Concentration: Business Administration. Ma-
jor Adviser: Prof. C. R. Purdy.

David Kenneth Severson, Little Falls
B.A. '72, Gustavus Adolphus College. Field
of Concentration: Environmental Health. Ma-
jor Adviser: Prof. C. P. Straub.

Wibisono Soerodikoesoemo,
Yogyakarta, Indonesia
Ir. '60, Gadjah Mada University. Major: Bot-
any. Minor: Biology. Thesis: Pollen-Stigma
Relationships in Tomato (*Lycopersicon Escu-
lentum* Mill.). Major Adviser: Prof. J. W.
Hall.

Jesse Ernest Stewart, Bonneville, Ore.
B.S. '69, Oregon State University. Field of
Concentration: Hospital Pharmacy. Major Ad-
viser: Prof. H. F. Kabat.

Jane Loundell Soderlind Swanson,
Lake Benton
B.S. '47, University of Minnesota. Major:
Laboratory Medicine. Minor: Anatomy. Thesis:
Study of Leukocyte Antigens on Red Cells.
Major Adviser: Prof. E. J. Yunis.

Richard Owen Swenson, Minneapolis
B.A. cum laude '70, University of Minnesota.
Field of Concentration: Computer and Infor-
mation Sciences. Major Adviser: Prof. A. R.
Hanson.

Lynne Charles Thompson,
Minneapolis
B.S. cum laude '70, Kansas State University.
Major: Entomology. Minor: Statistics. Thesis:
Analysis of the Parasite Complex of the Larch
Sawfly in Minnesota. Major Adviser: Prof.
H. M. Kulman.

David L. Urich, Colorado Springs,
Colo.
A.B. '70, Washington University. Major:
Wildlife. Minor: Biometry. Thesis: Nutritive
Analysis of Selected Browse Species Used by
Deer and Moose in Northern Minnesota. Ma-
jor Adviser: Prof. J. M. Peek.

Barbara Peterson Weiblen,
Minneapolis
B.A. summa cum laude '67, Wartburg Col-
lege. Field of Concentration: Genetics. Major
Adviser: Prof. S. C. Reed.

Master of Science

MAYO GRADUATE SCHOOL OF MEDICINE

Connie Lynn Stammes, Rochester
B.S. '69, University of Minnesota. Major:
Home Economics. Minor: Biochemistry. The-
sis: The Effect of Simple vs. Complex Carbo-
hydrate on Cholesterol Metabolism in Human
Subjects. Major Adviser: Prof. B. A. Kottke.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

Mark Steven Bergman, Duluth

B.A. magna cum laude '71, University of Minnesota, Duluth. Major: Physics. Minor: Mathematics. Thesis: Optical Properties of Excitons in RBI. Major Adviser: Prof. Michael Sydor.

Ruby T. Fomunyan, Duluth

B.A. '71, Bethel College. Field of Concentration: Chemistry. Major Adviser: Prof. J. C. Nichol.

Linda Lea Johnson Holmstrand,
Cloquet

B.S. magna cum laude '62, University of Minnesota, Duluth. Major: Zoology. Minor: Botany. Thesis: Ecology of *Lindia Euchromatica* EDM (Rotifer: Notommatidae). Major Adviser: Prof. B. O. Krogstad.

Edward Michael Ripley, Rock Island,
Ill.

B.S. with honors '71, Illinois State University. Major: Geology. Minor: Internal. Thesis: The Ore Petrology and Structural Geology of the Deer Lake Mafic-Ultramafic Complex, Effie, Itasca County, Minnesota. Major Adviser: Prof. D. M. Davidson, Jr.

Master of Science in Aerospace Engineering

Jung Yul Yoo, Seoul, Korea

B.S. '69, Seoul National University. Major: Aerospace Engineering. Minor: Mathematics. Thesis: Water Waves on a Channel of Finite Depth. Major Adviser: Prof. D. D. Joseph.

Master of Science in Anesthesiology

George Sverdrup Bergh, Jr.,
Minneapolis

B.A. '64, University of Minnesota; B.S. '67, University of South Dakota; M.D. '69, University of Minnesota. Major: Anesthesiology. Minor: Biometry. Thesis: Evaluation of Three Pulse Pressure Contour Methods of Estimating Cardiac Output. Major Adviser: Prof. J. J. Buckley.

Master of Science in Civil Engineering

Robert Charles Mayeron, Minneapolis

B.C.E. with distinction '72, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. J. Maier.

Marvin Lee Sorvala, Bessemer, Mich.

B.S.C.E. with high honor '72, Michigan Technological University. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. K. Johnson.

Master of Science in Dentistry

Karl Heinz Biewald, Minneapolis
B.S., D.D.S. '68, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis: A
Comparative Evaluation of Certain Soft and
Hard Tissue Dimensions of Length and Width
in Vertically Diverse Facial Types. Major Ad-
viser: Prof. R. J. Isaacson.

Donald J. Jeronimus, Jr., Golden
Valley

D.D.S. '69, University of Minnesota. Major:
Dentistry. Minor: Anatomy. Thesis: The Vi-
ability of Microorganisms Under Dental Seal-
ants. Major Adviser: Prof. M. J. Till.

Walter Stanley Warpeha, Jr., St.
Paul

B.S. cum laude '71, University of Minnesota.
Major: Dentistry. Minor: Anatomy. Thesis:
Design and Technique Variables Affecting
Fracture Resistance of Ceramo-Metal Crowns.
Major Adviser: Prof. R. J. Goodkind.

Master of Science in Dermatology

MAYO GRADUATE SCHOOL OF MEDICINE

Norman Fred Deffner, Wausau, Wis.
B.S. '58, Wisconsin State College; M.S. '64,
M.D. '68, University of Wisconsin. Major:
Dermatology. Minor: Pathology. Thesis: Acro-
dermatitis Enteropathica and Failure to
Thrive. Major Adviser: Prof. H. O. Perry.

Madeleine Landry, Montreal, Quebec,
Canada

B.A. '62, College Jesus Marie; M.D. magna
cum laude, University of Montreal. Major:
Dermatology. Minor: Pathology. Thesis: Tubu-
lar Apocrine Adenoma. Major Adviser: Prof.
R. K. Winkelmann.

William Sumner Logan, Charlotte,
N.C.

B.S. '64, Davidson College; M.D. '68, Duke
University. Major: Dermatology. Minor: Pa-
thology. Thesis: Histometric Analysis of Epi-
dermal Effects of Retinoic Acid in Psoriasis.
Major Adviser: Prof. H. O. Perry.

Master of Science in Electrical Engineering

Stephen John Anderson, Bloomington
B.E.E. with high distinction '71, University
of Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis: The Effect of
Dielectric Surface Loading on the Stability of
Epitaxial Coplanar Gunn Effect Devices. Ma-
jor Adviser: Prof. G. Y. Robinson.

Charles Edward Howey

B.S.E.E. '64, University of Arizona. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. R. Y. Kain.

Thomas Burton Thorsell, Minneapolis
B.E.E. with distinction '71, University of Min-
nesota. Field of Concentration: Electrical
Engineering. Major Adviser: Prof. V. D. Al-
bertson.

Master of Science in Industrial Engineering

Kailash Nath Rohatgi, Delhi, India
B.E. '65, University of Delhi. Field of Con-
centration: Industrial Engineering. Major Ad-
viser: Prof. J. S. White.

Master of Science in Metallurgy and Materials Science

Jaydev Dhirubhai Desai, India
B.Tech. '71, Indian Institute of Technology,
Bombay. Major: Metallurgy and Materials
Science. Minor: Industrial Engineering. The-
sis: Study of Acoustic Emission as a Measure
of Crack Growth. Major Adviser: Prof. W. E.
Gerberich.

Sheng-Yueh Pai, Amoy, Fukien,
China

B.S. '70, National Taiwan University. Major:
Metallurgy and Materials Science. Minor:
Chemistry. Thesis: The Elastic Constants of
Undoped and Doped Strontium Oxide Single
Crystals by Ultrasonic Pulse-Echo-Overlap
Method. Major Adviser: Prof. J. M. Sivertsen.

Master of Science in Ophthalmology

Robert Carlson Ramsay, Winnipeg,
Manitoba, Canada

B.S., M.D. '68, University of Manitoba. Ma-
jor: Ophthalmology. Minor: Pharmacology.
Thesis: The Ocular Penetration and Distribu-
tion of Soluble and Insoluble Corticosteroid
Compounds. Major Adviser: Prof. J. E. Harris.

Master of Social Work

Patricia G. Pfundstein, St. Paul

B.A. '50, Marygrove College. Field of Con-
centration: Social Work. Major Adviser: Prof.
R. B. Teeter.

Master of Social Work

UNIVERSITY OF MINNESOTA, DULUTH

Kathryn Jane Statmiller Ackland,
Duluth

B.A. '68, Ohio Dominican College. Field of
Concentration: Social Work. Major Adviser:
Prof. R. C. Broeker.

David Paul Bast, Minocqua, Wis.

B.S. '69, University of Wisconsin. Field of
Concentration: Social Work. Major Adviser:
Prof. J. F. Jones.

Marguerite Daugherty Ciebiera,
Duluth

B.A. '72, University of Minnesota, Duluth.
Field of Concentration: Social Work. Major
Adviser: Prof. C. D. Hollister.

Ruth Leona Danielson, Moorhead

B.A. '69, University of Minnesota. Field of
Concentration: Social Work. Major Adviser:
Prof. P. D. Kulkarni.

F. Richard Dolezal, Barnum

B.A. '69, College of St. Thomas. Field of
Concentration: Social Work. Major Adviser:
Prof. R. C. Broeker.

Peter Michael Flaherty, St. Paul

B.A. '72, University of Minnesota. Field of
Concentration: Social Work. Major Adviser:
Prof. R. C. Broeker.

John Edward Iverson, Minneapolis

B.A. '69, University of Minnesota. Field of
Concentration: Social Work. Major Adviser:
Prof. C. D. Hollister.

Glenn Hollis Joplin, Duluth

B.A. '59, University of California; M.A. '62,
University of Minnesota. Field of Concentra-
tion: Social Work. Major Adviser: Prof. R. C.
Broeker.

Richard Allen Oates, Duluth
B.A. '68, University of Minnesota, Duluth.
Field of Concentration: Social Work. Major
Adviser: Prof. P. D. Kulkarni.

Thomas Michael Patten, Duluth
B.A. '69, University of Minnesota, Duluth.
Field of Concentration: Social Work. Major
Adviser: Prof. C. D. Hollister.

Arlene Becker Stone, Duluth
B.A. '72, University of Minnesota, Duluth.
Field of Concentration: Social Work. Major
Adviser: Prof. R. C. Broeker.

Michael Angelo Trujillo, Campbell,
Calif.
B.A. magna cum laude '72, Chico State Col-
lege. Field of Concentration: Social Work.
Major Adviser: Prof. R. C. Broeker.

Mary Elizabeth Bradley Witkin,
Superior, Wis.
B.A. '72, Wisconsin State University. Field of
Concentration: Social Work. Major Adviser:
Prof. J. F. Jones.

Pamela Jeanne Zagaria, St. Paul
B.A. '67, College of St. Catherine. Field of
Concentration: Social Work. Major Adviser:
Prof. P. D. Kulkarni.

Certificate of Specialist in Education

Elizabeth Maria Pinheiro Gama,
Espirito Santo, Brazil
B.Ed. '69, Federal University of Espirito
Santo. Field: Counseling. Major Adviser: Prof.
L. D. Hansen.

Thomas Hastings, Minneapolis
B.A. '49, M.A. '72, University of Minnesota.
Field: Counseling. Major Adviser: Prof. A. R.
Anderson.

Mohammed Lawal, Okene, Nigeria
B.S. magna cum laude '64, Bethune-Cookman
College; M.S. '65, Atlanta University. Field:
Mathematics Education. Major Adviser: Prof.
T. R. Post.

Alice Roberta Thompson, Pepin, Wis.
B.S. '57, Wisconsin State University; M.A.
'64, University of Minnesota. Field: Element-
ary School Administration. Major Adviser:
Prof. G. F. Alkire.

COLLEGE OF AGRICULTURE

Bachelor of Science

Gordon Lee Engebretson, Clearbrook
Donald LeRoy Hanson, Paynesville

Virginia Ann Lerch, St. Paul, with
high distinction
David A. Velde, Minneapolis

COLLEGE OF AGRICULTURE AND COLLEGE OF EDUCATION

Bachelor of Science

Steven Mark Tilleraas, A.A.S., Crookston

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Marie Louise Deputat, Minneapolis, cum laude
John Paul Gangl, Jr., St. Paul
John Peter Harvat, Minneapolis
Carl Lee Johnson, Minneapolis
Todd Robert Klaenhammer, St. Paul
Winnifred Holly Leiferman, Minneapolis, cum laude
Margitta Gertrude Lindberg, Crystal
John Thomas Mundahl, New Brighton
Howard Arthur Prestidge, Jr., A.A., Bloomington
Monica Kay Wallace, Owatonna
Man Ming Young, Minneapolis

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Charles Burdette Ameson, B.A., Forest Lake
Curtis Richard Behm, Fridley
David Everett Beson, Edina
Bruce Gregory Blackey, Minneapolis
James Earl Brown, Montevideo
David Michael Bungert, Bloomington
John Michael Carlson, North St. Paul
Cara Taylor Cederstrand, Minneapolis
Jerry Lee Coggins, Le Sueur
Kevin Michael Combs, Minneapolis
Patricia Cudd, Willmar
Jerald N. Dahl, St. Paul
Robert Leo Dangers, Howard Lake
Kevin Richmond Dunn, Excelsior
Blaine Ehrmantraut, Champlin
Michael Lee Evans, St. Paul
Colleen Katherine Gallagher, Edina
Kathleen Peake Gallo, St. Paul
Michael Joseph Gehlen, St. Paul
Edimand Carlton Gilbertson, B.S.
Stephen Richard Graupner, Edina
Robert Irving Gruys, Jr., Edina
Kenneth Marvin Hertaus, Burnsville
Linda Roxanne Holm, A.A., Taylors Falls
William Thomas Johanson, Fridley
David James Karel, St. Paul
Ronald George Kline, St. Paul
James Russell Landstrom, Cloquet
Douglas Herbert Lanner, Minneapolis
Gary Alan Lewison, Granite Falls, with distinction
Frederick Hartmann Lott, Jr., B.A., Minneapolis, with distinction
Dennis Lee Mashuga, A.L.A., Minneapolis, with high distinction
James M. McFarland, Inver Grove Heights
William Edward Meek, Stephen
Marvin Joseph Menke, Wilmont
Larry James Moench, St. Paul
Dennis G. Nelson, St. Paul, with distinction
John Allen Nemec, Zumbrota
William Evans Oberreit, Reading, Pa., with distinction
William Michael Peters, B.M.E., Minneapolis
Roger L. Quigg, Hopkins
Jack Arthur Qvale, A.A., Austin
John Scott Renne, Edina
Paul Anthony Ries, A.A., South St. Paul
Robert Lewis Rosenberg, A.A., Denver, Colo.
Lodewijk Johannes Seghers, Den Haag, Holland
Thomas Birkholz Seim, St. Louis Park
Jeffrey Patrick Shields, St. Louis Park
Harlan Thomas Smith, A.A., Minneapolis
David Peter Stolarek, Minneapolis

Daniel LeRoy Stone, with distinction
John Ward Vadnais

Donald Stanley Wilson, St. Paul
Lynn C. Zingleman, Minneapolis

CONTINUING EDUCATION AND EXTENSION

Business Administration Certificate

Charles Burdette Arneson, Forest Lake

SCHOOL OF DENTISTRY

Bachelor of Science

Dennis Frank Payne, St. Paul

Doctor of Dental Surgery

Mark William Boback, Bovey
Dana John Isaacson, B.S., Bemidji
Dimitri T. Matsan, Jr., B.S.,
Minneapolis

Ronald Allen Snyder, B.S., Willmar
James Frederick Westman, B.S.,
Duluth

COLLEGE OF EDUCATION

Bachelor of Science

Dean Randall Anderson, Minneapolis,
with distinction
David Marvin Bassett, A.A., St. Paul
Bruce Arthur Broberg, Minneapolis,
with high distinction
Thomas Emil Brovold, B.C.E.,
Hopkins
Linda Kay Carlson, Minneapolis,
with distinction
Carol Ann Christensen, Edina, with
distinction
Richard Allen Cornwell, Minneapolis
Jacquelyn Stenglein Crawford, Minne-
apolis, with distinction
Marsha Kay Fosburgh, Minneapolis,
with distinction
James Anton Groth, Minneapolis
Kathy Lynn Gebauer Groven,
Mahtomedi

David Guy Hovland, Prior Lake
Susan Louise Jacox, Minneapolis,
with distinction
Stanley Peter Johannes, A.A., St. Paul,
with distinction
Rosalind Anne Kenyon, St. Paul, with
distinction
Janet Marie Krueger, South St. Paul
Mary Therese LaScotte, St. Paul, with
high distinction
Lois Catherine Lemay, Sault Ste.
Marie, Ontario, Canada, with
distinction
Mary Elizabeth Lindeman, Cleveland,
Ohio
Peter Rudolph Lodoen, St. Cloud,
with distinction
Catherine Jane Meyer, Rochester,
with high distinction

Clifton Ray Nelson, Minneapolis
Kathleen Avis Nelson, Austin
Kris Waldo Nelson, Minneapolis
Bruce Roger Nordquist, St. Paul
Barbara Jeanne Peterson, Wyoming
Irene Pinkowski, Minneapolis
Gretchen Mary Proesch, Stillwater,
with distinction
Steven Lee Roe, LeRoy

Christine Marie Sadar, A.A., Eveleth,
with distinction
John Joseph Simpson, A.A., St. Paul
Vilmaa Barbara Stone, Minneapolis,
with distinction
Karen Dorothy Stulberg, Hopkins,
with distinction
Alan William Welle, B.A., Melrose,
with high distinction
Marjorie Lou Wilensky, Minneapolis

COLLEGE OF FORESTRY

Bachelor of Science

Kenneth Joseph Stager, Duluth

GENERAL COLLEGE

Associate in Arts

Thomas Michael Coleman,
Minneapolis
Anita Joy Dahl, Duluth
Sandy Joan Golden, St. Louis Park
Pamela Durene Haack, Minneapolis*
Katherine Charlotte Hartman
Mary Cathlene Johnson, St. Paul

John Thomas Kulstad, Minneapolis
Steven Donald Landberg, Minneapolis
Leonard James Merck, St. Paul
Steven Eugene Pettman, Minneapolis
Sharon Ruth Price, St. Paul
James Allen Southward, Jr., St. Paul

Bachelor of Applied Studies

Nicholas Stephen Kocisko, A.A.,
Minneapolis

Elizabeth Joan Sly, A.A., Minneapolis

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Jeanette Louise Andersen, St. Paul
Diane Marie Andrescik Andersson,
Minneapolis
Rebecca Anne Borchardt, Minneapolis
Bridget Marie Callaghan, Minnetonka

Jenny Lynn Eisenman, Rochester
Susan Marie Foster, Minnetonka
Janet Kathleen Gillson, A.A.,
Rochester
Janet Faye Gustafson, Mahtowa

* Degree conferred as of June 16, 1973

Janice Kay Hultgren, Hopkins
Kathleen Ann Martin, St. Paul
Alpha Christine Nelson, Minneapolis,
with distinction
Kathleen Gail Nelson, Grand Rapids,
with distinction
Diane Adele Nevins, Porter, with
high distinction

Charles Sheldon Pantzke, Little Falls
Debora Kay Schurr, Minneapolis
Jill Ann Spelios, St. Paul
Barbara Jean Stark, Excelsior
Elaine Kaye Sunne, Richfield
Patricia Anne Swanson, St. Paul

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Bachelor of Science

Maureen Carol Gross, Minneapolis,
with distinction

Wendy Louise Ambrose Habedank,
Jackson, with distinction
Wendy Lea Hanson, Minneapolis

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

David Bruce Anderson, Crystal
Mary J. Johannes, Minneapolis
Matthew Andrew Kalliman,
Minneapolis

Brunhilde Hofer Lengsfeld, St. Paul
Charlotte May Yee, Minneapolis

Bachelor of Arts

Michael James Ahern, Red Wing
Paul Richard Anderson
Patricia Ann Arth, St. Paul, magna
cum laude, Interdepartmental
Barbara Ann Babbitt, Murray Hill,
N.J.
Kathleen Jean Barrett, St. Paul
Kelly Thomas Becker, Minneapolis
Jonathan Keith Belmore, Edina
James Emery Bigham, North Mankato
Sara Marie Blake, Hopkins
Mark John Bly, Garretson, S.D.
Marjorie Catherine Bolton, B.A.,
Minnetonka
Steven Greg Bornus, Grand Forks,
N.D.

Carolyn Jean Borow, St. Paul, summa
cum laude, Psychology
Roxana Rae Boyles, A.A., Casper,
Wyo.
Angela Camfield Brady, Minneapolis
Shirley Silver Brinton, Minneapolis
Michael Dean Buchanan, Billings,
Mont.
Louise Ann Buchinger, Minneapolis
William Peter Carr, Minneapolis
Catherine Marie Carroll, Minneapolis
Thomas Richard Carty, Anoka
Bryan Douglas Colwell, Missoula,
Mont.
Charles Sydney Constantine,
Minneapolis

- Coline Melba Cowan, Minneapolis
 Kristine Ann Crawford, Robbinsdale
 Linda Gail Fritz Culhane, Mound
 Charles Weber Culmer, Denison,
 Iowa, *summa cum laude*, *Philosophy*
 Carl Theadore Czar, Staples
 Alexander Linwood Danforth,
 Mahtomedi
 Mary Elizabeth Thorpe Davies, St.
 Paul, *magna cum laude*, *American
 Studies*
 Gregory Martin Diebel, A.A., St. Paul
 James Patrick Dillon, A.A., St. Paul
 Daniel Howard Donnelly, Minneapolis
 Barry James Douglas, Minneapolis
 Henri Ernest Drews, A.L.A., St. Paul
 Marthanne Edwards
 Eileen Sandra Eisenberg, Minneapolis
 Marcia Ann Esse, Wall Lake, Iowa,
cum laude, *Sociology*
 Douglas Robert Evans, Fort Collins,
 Colo.
 Mary Dunn Farrell, Minneapolis
 C. W. Field II, Minneapolis
 Sylvia C. Fine, A.L.A., Minneapolis
 Tracy Lynn Garrett, Edina
 Gregory Benjamin Gill, St. Paul
 Ted Elliot Gordon, Minneapolis
 Donae Verbena Gustafson,
 Minneapolis
 Sheila Jean Hagg, Minneapolis
 Herbert Edward Haire, Edina
 Brian Roy Hanzal, St. Paul
 John Adolph Haugen, Crookston
 Margaret Sue Haugh, Faribault
 David M. Heins, Red Wing
 Mark Douglas Hendrickson, St. Louis
 Park
 Linda Hennum, Minneapolis, *magna
 cum laude*, *Psychology*
 Gail M. Henry, A.A., St. Paul
 Barbara Jo Hiebeler, Bloomington
 Charles William Higgins, Edina
 Ruben Hoch, St. Paul
 Timothy Jay Holzer, Golden Valley
 Bruce Wayne Horton, Homecroft
 David Thomas Hostetler, Fridley
 Douglas Robert Hovelson, Wayzata
 Dianne Patricia Hunt, Burnsville
 Garry Thomas Jarman, Minneapolis
 Donna Mae Johnson, Minneapolis
 Theresa Rainelle Johnson,
 Minneapolis
 David Michael Jorgenson, Albert Lea
 Aron Jay Kahn, New York, N.Y.
 Barbara Lee Kallusky, St. Paul, *summa
 cum laude*, *History*
 Peggy Jane Robinson Kamholz, Hoyt
 Lakes
 Jean Marie Kelly, Grand Rapids
 Deborah Jean Bahr Kinney,
 Minneapolis
 Katherine Mae Klesmit, Minneapolis
 Karen Ann Knauer, St. Paul
 Roger A. Knight, Edina
 Richard Stephan Knotz
 Michael Robert Knox, Lakeville
 Steven John Korn, Forest Lake
 Marianne Elaine Kreitlow, Howard
 Lake
 Debbie Beth Krovitz, Duluth
 Donald Arthur Larson, Jr., Edina
 Dorrance Walter Larson, Wheaton
 Larry Eugene Larson, A.A.,
 Minneapolis
 Ruth Karen Lazareck, Devils Lake,
 N.D.
 Winnifred Holly Leiferman,
 Minneapolis
 Harriet Louise Lindstrom,
 Minneapolis
 Susan Ruth Locketz, Minneapolis
 Russell James Loomis, Jr., St. Paul
 JoAnn Phyllis Lukesh, St. Paul
 Robert Allen Lundberg, Minneapolis
 Barbara Jo Lundeen, A.A., Chisholm
 Edward John Maag, Blaine
 George Eugene Makepeace,
 Minneapolis
 Hillary Reed Mankin, Rochester
 Kathleen Margaret McEvoy, St. Paul,
summa cum laude, *Physiology*
 Douglas Scott McNair, Elk River
 Amparo Menendez-Braga, Monte-
 video, Uruguay, *summa cum laude*,
International Relations
 Richard Allan Messina, Duluth
 Catherine Jane Meyer, Rochester,
cum laude, *Music*

Janice Anderson Meyer, St. Paul,
summa cum laude, *Speech-Communication*; *magna cum laude*,
American Indian Studies
 Catherine Mary Miller, Minneapolis
 Cortland Richard Miller, Richfield
 Nancy Sue Miller, Minneapolis
 Keith Lowell Monson, B.Met.E., St.
 Paul
 Lilene Elizabeth Moore, A.A.,
 Minneapolis
 Paul Forrey Moore, Robbinsdale
 Alan Douglas Morris, *International*
Falls, summa cum laude, Urban
Studies
 Carol Marie Moss, Roseville
 Jeanne Marie Nelson, Minneapolis
 JoAnn Carol Nelson, St. James
 Ronald Lawrence Nicholas, Anoka
 Michael Brendan Nicholson, St. Paul,
magna cum laude, Interdepart-
mental
 Elaine Brudvik Norling, Minneapolis
 Robert William Norwick, A.A.
 Minneapolis
 James Richard Novak, B.S.,
 Minneapolis
 Margaret Mary Nuechterlein, Minne-
 apolis, *summa cum laude, Child*
Psychology
 James Douglas Olson, Alexandria
 John Phillip Olson, Stillwater
 Thomas James O'Neill, St. Paul
 Laurie JoAnne Orner, Richfield
 Gregory Lee Paulson, Burnsville, *cum*
laude, Humanities
 Charles William Pauly II,
 Minneapolis
 David John Perry, St. Paul
 Jean Ann Pierce, Burnsville
 Sonja Alette Quanbeck, New London
 Terrence Jerome Quinn, Minneapolis
 Lawrence Charles Ratay, Minneapolis
 Bryan Thomas Reagan, Minneapolis
 Richard James Reid, Chicago, Ill.
 Sally Anne Reid, B.A., Dallas, Tex.
 James Patrick Richardson, St. Paul
 Kathleen Joy Roberts, Minneapolis
 Susan Petrie Robinson, Minneapolis

Nora Lee Ross, Minneapolis, *cum*
laude, Latin
 Judy Lynn Royce, St. Louis Park
 Mark Stephen Runnels, Bloomington
 Mary Joan Ryan, Stillwater
 Susan Marie Saetre, Moorhead
 Elizabeth Jeanne Satack, St. Paul*
 Robynne Schanck, Redwood Falls,
summa cum laude, Art History
 Rosemary Jean Schindeldecker,
 Minneapolis
 Jeffrey Paul Schmitz, Minneapolis
 Deborah Jean Schumm, Northfield
 Margaret Jean Scott, Minneapolis
 John Clifford Shirley, Bloomington
 Bonnie Lea Shumate, Austin
 Leonard Joseph Sibinski, A.A.,
 Columbia Heights
 Kevin Lee Siebold, Hastings
 David Allan Simpkins, Golden Valley
 Patricia Anne Sims, Edina
 Kathleen Terese Slitts, Minneapolis
 Gary Michael Smith, Lake City
 Gregory Lawrence Smith, Rochester
 James Anthony Spaulding
 Thomas Munson Steen, Richfield
 Thomas Lee Stephen, Lake City
 Susan Carol Sternfels, Minneapolis
 Elizabeth Anne Straus, St. Paul,
summa cum laude, American
Studies
 Betty Alice Strong, St. Paul
 Lois Ann Stuedemann, Glencoe
 Peggy Ann Stumpfa, Minneapolis
 Andrea E. Sullivan, Minneapolis
 Karen Jannette Sunram, Ponsford
 James Bruce Swanson, A.A.,
 Minneapolis
 Stephen Julius Tamasy, New Brighton
 Kenneth Paul Thomsen, Minneapolis
 Jay Francis Tracy, St. Paul
 James Daniel Trites, Henning
 William Patrick Waddick, Jr., A.A.,
 Minneapolis
 Theresa Louise Walls, St. Paul
 Edith Marion Ward, Hopkins
 Paula Jay Webster
 Diane Marie Weeks, A.A., Coon
 Rapids

* Degree conferred as of June 16, 1973

Deborah Jean Weidner, St. Cloud,
summa cum laude, Studio Arts
Paul Alan Weingarden, St. Paul,
summa cum laude, Social Welfare
Jennifer Ruth Wellner, Shoreview,
summa cum laude, Studio Arts

Steven Dwight Wescott, St. Louis
Park
Holly Kathryn Wheeler, St. Paul
Jo Ann Wiederhorn, Minneapolis
Wende Michiko Yamane, Chatham,
N.J.
William Hugo Zobbi, Robbinsdale

Bachelor of Elected Studies

Nancy Jean Dalbec, Hutchinson
Edward Jon Froehlich, Minneapolis
Ronald Jerry Gomez, Minneapolis
Gregg Honen Juster, St. Louis
Georgia Mary Lyon, Wayzata
Carolyn Joan Nelson, Minneapolis

Michael Allen Spath, A.A.,
Minneapolis
Virginia Louise Teggatz, Minneapolis
Russell James Trimble, Milwaukee,
Wis.

Bachelor of Fine Arts

Jennifer Lee Griffith, New York, N.Y.
Dane Arthur Krogman, A.A., Minne-
apolis, *magna cum laude*, Studio
Arts

Judith Ann Harding Ploetz, Willmar
Michael Joseph Proulx, Minneapolis

MEDICAL SCHOOL MEDICAL TECHNOLOGY

Bachelor of Science

*These degrees are conferred subject to the completion of practical work
prior to December 12, 1973*

Patrick Joseph Colford, B.S., Richfield
Patricia Armeline Foran, Cedar
Rapids, Iowa
Marilee Mae Huisinga, Windom, with
distinction

JoAnn Louise Kappel, St. Paul
Donna Rae Migler, St. Paul
Patricia Elizabeth Murphy, Glencoe
Penny Ann Rogers, Wayzata
Mary Lou Slominski, Minneapolis

MEDICINE

Bachelor of Science

Paul John Bubak, Sisseton, S.D.
John James Grant, B.A., M.D.,
Robbinsdale

Douglas Leong Hom, Fergus Falls
Michael Verner Severson, Shakopee

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Patricia A. Deiman, B.S., M.A., St.
Paul

Patricia House, B.S., East Brunswick,
N.J.

Martha Gore Kaplan, B.A.

Richard Allen Kark, B.A., Osage,
Iowa

Lois Janet Klemm, B.S., St. Paul

Daniel Edward LaFontaine, D.V.M.,
Alvada, Ohio

Kent E. Peterson, B.S.Pharm.,
Minneapolis

Prem Kishor Saint, B.S., M.S.,
London, England

Gale Dean Taylor, B.S., D.V.M.,
Tuscola, Ill.

INSTITUTE OF TECHNOLOGY

Bachelor of Civil Engineering

Kevin Brian Bauer, Mahtomedi

Brian Nicholas Borg, B.Phys.,
Plymouth

William H. Kopp, St. Paul

Vietchau Nguynvan, Hue, Vietnam,
with distinction

Melvin A. Roseen, Minneapolis
James Walter Stahnke, St. Paul

Bachelor of Electrical Engineering

Lee Greg Anderson, Minneapolis

John Edward Hanson, Minneapolis
Dean Robert Johnson, Minneapolis,
with distinction

Jay Earl Olson, Duluth, *with
distinction*

Bachelor of Geo-Engineering

Perry Allen Canton, Moorhead, with distinction

Bachelor of Mathematics

Cooke Yong Chang, Seoul, Korea,
with distinction

Robert John Miles, Osseo

Donald James Ruzin, Hopkins, *with
distinction*

Bachelor of Mechanical Engineering

Randall Rey Bendtsen, Rose Creek

Lauren Waldemar Berg, St. Louis
Park

Duane Jay Cartier, Norcross

Byron Darel Day, Minneapolis, *with
high distinction*

Timothy John Dess, Minneapolis,
with distinction

Irling John Itzen, Herman, with
distinction
Thomas Paul Jensen, Mankato
Donald Joseph Kasprzyk, Silver Lake,
with high distinction
Robert Thomas Kerestes, Albany

Mark Harold Magnuson, Blaine
Gerald Edward Mueller, Melrose
Frank Mark Pengal, A.A., Ely
William Keith Schwartz, Rochester,
with distinction

Bachelor of Science in Geology

Stephen Vincent Freesl, North St. Paul

Bachelor of Science in Geophysics

William Fulton Haxby, Minneapolis,
with high distinction*

Gary Allen Swits, St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Katherine W. Britz, G.D.H., St. Paul
Barbara Ann Janisch, Minneapolis
Paul Vivret Norman, Minneapolis

Gloria Lynn Schroeder, G.D.H.,
South St. Paul
Alvin Herman Smith, A.A., Jackson-
ville, Fla.

Bachelor of Science

Garhardt Charles Balego
Debra Luise Goldman, A.A., St.
Louis Park
Jay Murray Goldstone, St. Louis Park
Janette Verle Lutz, Minneapolis
James Thomas McDonald, Grand
Rapids
Mary Ellen Miller, G.D.H., Albert
Lea

Marion Thomas Purvis, St. Paul
Patrick Lee Reagan, Minneapolis
Gregory John Relf, A.A., St. Paul
Robert Louis Roedocker, A.A.,
Minneapolis
Kaye Robbins Wildasin, A.A., St.
Paul
Beverly Lofthus Wright, Minnetonka

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

Lawrence Curtis Kaiser, with high distinction

* Degree conferred as of July 20, 1973

August Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

Jay Earl Olson, Duluth

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Signal Corps

Charles S. Constantine, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Second Lieutenant, USMC

Jon T. Minerich, Grand Rapids

Academic Costume

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

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

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

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

College of Agriculture	maize
College of Biological Sciences	golden yellow
College of Business Administration	drab
Continuing Education and Extension	orange and drab
School of Dentistry	lilac
Collège 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
College of Veterinary Medicine	gray
Graduate School	black

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

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

President's Reception

SUMMER 1973

The members of the graduating class, their families, and friends are invited to attend the President's Reception immediately after the commencement exercises. The Reception will be held on the Coffman Memorial Union Terrace. In case of rain, it will be held in the Main Lounge.

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

Printed on recycled paper



UNIVERSITY OF MINNESOTA

December Commencement, 1973

WEDNESDAY EVENING, DECEMBER 12, 7:30 P.M.
NORTHROP MEMORIAL AUDITORIUM

Board of Regents

The Honorable Elmer L. Andersen, St. Paul
Chairman

The Honorable Neil C. Sherburne, Lakeland Township
Vice Chairman

The Honorable Fred A. Cina, Aurora

The Honorable Lauris D. Krenik, Madison Lake

The Honorable L. J. Lee, Bagley

The Honorable Wenda Moore (Mrs. Cornell L.), Minneapolis

The Honorable Lester A. Malkerson, Minneapolis

The Honorable George W. Rauenhorst, Olivia

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

The Honorable David C. Utz, M.D., Rochester

The Honorable Kathryn Vander Kooi (Mrs. Benjamin), Luverne

The Honorable John A. Yngve, Plymouth

Central Executive Officers

Malcolm Moos, President

Duane A. Wilson, Secretary to the Board of Regents

James F. Brinkerhoff, Vice President for Finance, Planning, and Operations

Paul H. Cashman, Vice President for Student Affairs

Harold W. Chase, Acting Vice President for Academic Administration

Lyle A. French, Vice President for Health Sciences

Stanley B. Kegler, Vice President for Administration

Stanley J. Wenberg, Vice President for State and Federal Relations

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.

Your University

CHARTERED in 1851 by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and twenty-second birthday. One of the great land-grant universities in the nation, the University of Minnesota is dedicated to training young men and women to be our future leaders. Each year, graduates leave our campuses to add new skills and knowledge to the existing resources of the state. They have been trained as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, scientists, farmers, businessmen—to name but a few of the careers for which preparation is offered. Since its founding, the University has awarded more than 265,000 degrees, each one in recognition of the successful completion of a challenging academic program.

In addition to giving collegiate instruction to nearly 50,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Waseca campuses and at the Mayo Medical and Graduate Schools in Rochester, the University offers, through Continuing Education and Extension programs, special training for those who wish to study on a part-time basis. The University also offers educational opportunities through its Agricultural Extension Service, with county agents, home agents, 4-H club agents, and recreation and health consultants available throughout the state to provide help to Minnesotans in their own homes.

In the many research laboratories on the University's five campuses, at the agricultural experiment stations located throughout the state, at the Rosemount Research Center, the Cloquet Forestry Center, the Cedar Creek Natural History Area near Bethel, the Horticultural Research Center and Landscape Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Horticulture Center at Duluth, the Sand Plain Experimental Field at Elk River, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are at work on countless experiments of great potential importance to the quality of our lives. Research projects are leading to new knowledge in such areas as learning disabilities, drug abuse, urban and environmental problems, rural/urban migration, health care delivery systems, and computer technology, to name only a few. The progress being made in these and other areas will have a profound impact on the lives of Minnesotans and people throughout the world.

THE UNIVERSITY continues to be the great cultural center of the Upper Midwest. It is the home of the University Artists Course, the University of Minnesota Television Hour, Radio Station KUOM, the University Theatre, the Bell Museum of Natural History, the Minnesota Orchestra, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings important artists and lecturers to more than a million persons annually.

Minnesotans have good reason to be proud of their University, not only because it is one of the leading state universities in the country, but also because of the extent and quality of its services to the people of the state, their families, communities, and organizations. The interest of Minnesotans in their University is a dynamic thing, and it expresses itself in many ways. Their contributions have made it possible to build the Variety Club Heart Hospital and the Mayo Memorial Building. Through the American Legion

and its auxiliary posts all over the state, thousands of friends have made generous donations to endow a research professorship in heart disease. Other contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall, which houses the biomedical library and other medical research facilities.

Just as generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose efforts have made hundreds of grants and fellowships available to deserving students. As the University moves toward emphasis on upper division, graduate, and professional programs, educational costs will increase. Friends and supporters of the University, who are aware of the financial impact of increased specialization, work continuously to increase the funds available for student assistance.

THE 1973 LEGISLATURE appropriated \$240,306,221 for the University's operating expenses during the 1973-75 biennium. Of that amount, \$185,852,478 was designated for general operations and maintenance, \$13,072,538 for the University Hospitals, \$1,747,532 for the Waseca Technical College, \$2,320,548 for the Crookston Technical College, and \$32,493,034 for new buildings, land, and the rehabilitation of existing buildings. In addition, \$37,313,125 was received in special appropriations, for funding of projects such as special research and extension activities.

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

COMMENCEMENT marks the conclusion only of the student's academic life at the University. As a graduate, he or she is part of its history and part of its future as well. Alumni are urged to continue their relationship with the University through the Minnesota Alumni Association and its college groups.

Alumni and their families and friends will always be welcome here. The University's doors will be open to those who come back to visit and to keep in touch with an important part of their lives.

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Twin Cities campus of the University this evening, they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Stephen Paulus, B.A., Graduate School.

PRELUDE CONCERT: From 7:00 to 7:30 p.m., Professor Heinrich R. Fleischer, Ph.D., College of Liberal Arts, University Organist, will play.

PROCESSION: At 7:30 p.m. the Mace-Bearer, Associate Professor Athanasios Theologides, M.D., Medical School, will carry the Mace onto the platform, heralding the arrival of the academic procession. The procession includes administrators, faculty, distinguished guests, Regents, and the candidates for degrees marching by college. The line of march for candidates is as follows:

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

During the procession Professor Fleischer will play:

Festival March Handel

THE NATIONAL ANTHEM: As Assistant Professor D. Clifton Ware, D.M., College of Liberal Arts, 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 James A. Diamond, Chaplin, University Episcopal Center, and member of the Council of Religious Advisers.

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

COMMENCEMENT ADDRESS: Dean May Brodbeck, Ph.D., Graduate School.

CONFERRING OF DEGREES: President Moos will confer certificates and degrees, including the University of Minnesota degree Doctor of Science, *honoris causa*.

CONFERRING OF HONORARY DEGREE: Vice President Paul H. Cashman, Ph.D., Student Affairs, will present John Bardeen for the degree of Doctor of Science, *honoris causa*.

JOHN BARDEEN

Native of Wisconsin; graduate of the University of Wisconsin with the degrees Bachelor of Science and Master of Science, and of Princeton University with the degree Doctor of Philosophy; past member of the faculty of the University of Minnesota, former staff member at the Bell Telephone Laboratories, and currently Professor of Physics and of Electrical Engineering at the University of Illinois; the only person to be awarded two Nobel prizes in Physics, the first in 1956 for achievements in semiconductor research, which led to the invention of the transistor and stimulated significant advances in solid state physics, the second in 1972 for his part in the development of a long-sought microscopic theory of superconductivity; adviser to Presidents Eisenhower and Kennedy; former president of the American Physical Society; holder of numerous honorary degrees and awards—

Because you are at the forefront in extending physical knowledge; because you combine breadth of interest with depth of comprehension; because your achievements have brought honor to the academic profession and the nation—

The Regents of the University of Minnesota, upon recommendation of the faculties, confer upon you, John Bardeen, the degree of Doctor of Science, *honoris causa*.

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: After each new Doctor of Philosophy has been hooded, Dean Brodbeck will present him or her to President Moos. Assisting them will be Associate Professor Roger C. Park, J.D., Law School; Professor Geneva H. Southall, Ph.D., College of Liberal Arts; Professor Jesse B. Williams, Ph.D., College of Agriculture; and Mr. Charles Liesenfelt, M.A., Assistant Director, Admissions and Records.

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

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

Acting Dean Jack Goodding, Ph.D., College of Agriculture
Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences
Dean C. Arthur Williams, Ph.D., College of Business Administration
Dean Harold Miller, Ph.D., Continuing Education and Extension
Dean Erwin M. Schaffer, M.S.D., School of Dentistry
Dean Jack C. Merwin, Ph.D., College of Education
Dean Frank H. Kaufert, Ph.D., College of Forestry
Dean Alfred L. Vaughan, Ph.D., General College
Associate Dean Roxana Ford, Ph.D., College of Home Economics
Associate Professor Roger C. Park, J.D., Law School
Dean Frank Sorauf, Ph.D., College of Liberal Arts

Associate Professor Pearl P. Rosenberg, Ph.D., Medical School
Dean M. Isabel Harris, Ph.D., School of Nursing
Dean Lawrence C. Weaver, Ph.D., College of Pharmacy
Professor Conrad Staub, Ph.D., School of Public Health
Dean Richard A. Swalin, Ph.D., Institute of Technology
Dean Barbara Knudson, Ph.D., University College

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

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

RECESSIONAL: As graduates leave their seats, Professor Fleischer will play:
Ricercar Frescobaldi

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

The President's Reception follows the ceremony. Please see details on the back cover of this program.

Academic Costume

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College of Liberal Arts	white
Medical School	green
School of Nursing	green
College of Pharmacy	olive
School of Public Health	green
Institute of Technology	orange
University College	old gold and white
College of Veterinary Medicine	gray
Graduate School	black

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

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

December Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Charles Barry Borman, Bloomington
B.A. '59, B.S. '60, University of Minnesota; M.S. '71, Mankato State College. Major: Educational Administration. Minor: supporting Program. Thesis: A Study of Cost Effectiveness in a Proprietary School. Major Adviser: prof. W. R. Cross.

Marcia Carolyn Carthaus, Edina
B.A. cum laude '59, Tufts University; M.Ed. '60, Boston University. Major: Educational Administration. Minor: Educational Psychology. Thesis: A Study of Administrative Models for Staff Development in the Learning Disability Area. Major Adviser: Prof. R. F. Weatherman.

Donald Philip Gauvin, North St. Paul
Spec. '67, University of Minnesota. Major: Educational Administration. Minor: Education. Thesis: An Analysis of the Results of the First Year of Bargaining Under the Public Employees Labor Relations Act of 1971 as It Relates to Public School Teachers. Major Adviser: Prof. C. P. Hooker.

David Rogers Metzen, South St. Paul
B.S. '64, M.A. '70, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of the Role Dimension of the Twenty Suburban Elementary School Principals. Major Adviser: Prof. G. F. Alkire.

Nicholas Andrew Olsen, Benson
B.A. '57, St. Olaf College; M.A. '64, Spec. '68, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Model Adviser-Advisee Program. Major Adviser: Prof. N. C. Nickerson.

Doctor of Philosophy

James Otis Allsup, Waelder, Tex.
B.A. cum laude '59, Baylor University; M.A. '61, Cornell University. Major: English. Minor: History. Thesis: The Magic Circle: A Study of Shelley's Concept of Love. Major Adviser: Prof. J. L. Scoggins.

Ronald Gene Almquist
B.S.Ch. '69, University of Kansas. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: The Synthesis and Biological Evaluation of Structural Analogs of Chloramphenicol and Puromycin. Major Adviser: Prof. Robert Vince.

James Edward Angus, Ottawa, Ontario, Canada
B.S. '66, McGill University; M.S. '68, University of Massachusetts. Major: Agricultural Economics. Minor: Economics. Thesis: Spatial Distribution of Employment: Alternatives for a Metropolitan Region. Major Adviser: Prof. W. R. Maki.

Arvind, Lucknow, India
B.Tech. '69, Indian Institute of Technology. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Models for Comparison of Memory Management Algorithms. Major Adviser: Prof. R. Y. Kain.

Carol Ann Bainbridge, Buffalo, N.Y.
B.S. cum laude '68, State University of New York at Buffalo. Major: Pharmaceutics. Minor: Chemistry. Thesis: Investigations into the Reactions of Stannous Fluoride with Calcium Hydroxylapatite. Major Co-Advisers: Profs. K. G. Nelson and E. G. Rippie.

Eugene Bernard Bakko, Northfield
B.S. '62, Moorhead State College; M.A. '66, University of Wyoming. Major: Zoology. Minor: Supporting Program. Thesis: Water Balance in Four Species of Scurid Mammals. Major Adviser: Prof. W. D. Schmid.

Irvin Joseph Ball, Peoria, Ill.

B.S. '67, Utah State University; M.S. '71, University of Minnesota. Major: Wildlife. Minor: Supporting Program. Thesis: Ecology of Waterfowl Brood in a Forested Region of North-Central Minnesota. Major Adviser: Prof. J. R. Tester.

Elaine Schrader Barber, Sioux Falls, S.D.

B.A. summa cum laude '69, Augustana College. Major: Chemistry. Minor: Internal. Thesis: The Mechanism of Acidopentaamminecobalt (III) Perchlorate Substitution Reactions. Major Adviser: Prof. W. L. Reynolds.

Ernest Henry Baughman, Buhl, Idaho

B.S.Ed. '64, Concordia Teacher's College; M.A.L.S. '68, Reed College. Major: Chemistry. Minor: Supporting Program. Thesis: H_2BH_2CN as a Reaction Intermediate and Acid Base Indicators in 80% DMSO-20% Water. Major Adviser: Prof. M. M. Kreevoy.

David Leonard Beaulieu, St. Paul

B.A. '70, M.A. '71, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: An Analysis of Differences in the Perception of Information Needs Among American Indian Students in Two Selected Indian Reservation Communities. Major Adviser: Prof. G. F. Alkire.

Maryellen Bieder, Gainesville, Fla.

B.A. '64, Lawrence College; M.A. '66, Indiana University. Major: Spanish. Minor: French. Thesis: Narrative Perspective in Two Novels of Francisco Ayala: *Muertes de perro* and *El fondo del vaso*. Major Co-Advisers: Profs. J. B. Hughes and C. A. Sullivan.

Robert Barry Bloom, Chicago, Ill.

B.S. '58, University of Chicago; M.A. '70, Northeastern Illinois State College. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Incompatibility of Interpersonal Needs Between Teachers and Their Students as a Factor in Referring Children for Special Class Placement in Classes for Children with Behavior Disorders. Major Adviser: Prof. F. H. Wood.

Kyung Saeng Boo, Chejoo, Korea

B.S. '64, M.S. '68, Seoul National University. Major: Entomology. Minor: Supporting Program. Thesis: Ultrastructural Comparison of the Johnston's Organ in Males and Females of the Mosquito, *Aedes aegypti* L. Major Adviser: Prof. A. G. Richards.

Jean-Pierre Francois Antonin Bouchez, Lyon, France

Ing. '65, École Catholique d'Arts et Métiers de Lyon. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Heat Transfer to an Impinging Circular Jet in a Cross Flow. Major Adviser: Prof. R. J. Goldstein.

Glenna Louise Breslin, Berkeley, Calif.

B.A. magna cum laude '60, Mount Holyoke College. Major: English. Minor: Philosophy. Thesis: Form as Process in the Poetry of Theodore Roethke. Major Adviser: Prof. C. G. Anderson.

Keith Durham Buckley, Caraway, Ark.

B.M. '59, Southwestern at Memphis; B.S. '62, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Identification of Potential Academic Underachievers from Teacher Descriptions of Pupils on Cumulative Records. Major Adviser: Prof. L. H. Lofquist.

Luc Bureau, Quebec, Quebec, Canada

Lic. '67, M.A. '68, Laval University. Major: Geography. Minor: Supporting Program. Thesis: The Regional Perception of the Farm in Quebec. Major Adviser: Prof. E. C. Mather.

Cary Randall Byers, Meridian, Idaho

B.S. '68, University of Idaho; M.S. '69, University of Wyoming. Major: Business Administration. Minor: Statistics. Thesis: An Experimental Comparison of Three Modes of Computer-Supported Instruction. Major Adviser: Prof. T. R. Hoffmann.

Si Myung Byun, Chullanam-Do, Korea

B.S. '64, M.S. '66, Seoul National University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: *Myo*-Inositol Biosynthesis in Mammals. Major Adviser: Prof. Robert Jenness.

Roger Lee Carten, Bethesda, Md.

B.S. '63, Springfield College. Major: Educational Psychology. Minor: Child Psychology. Thesis: The Construction of an Adolescent General Maladjustment Scale for the Personality Inventory for Children. Major Adviser: Prof. M. D. Hall.

Donald Michael Cassata, Minneapolis

B.A. '66, M.A. '68, University of Denver. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Effect of Two Patterns of Nursing Staff in Two Urban Hospitals. Major Adviser: Prof. W. S. Howell.

Paul Anthony Chapman, Dublin, Ireland

B.Ch.E. '64, University College, Dublin. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Chemotaxis of Motile Bacteria. Major Co-Advisers: Profs. H. M. Tsuchiya and A. G. Fredrickson.

Fuchuan Chen, Hsinchu City, Taiwan
B.S.E.E. '65, Taiwan Cheng Kung University;
M.S.E.E. '67, National Chiao Tung University.
Major: Electrical Engineering. Minor: Physics.
Thesis: Theory of Millimeter Microwave Non-
linear Harmonic Generation and Its Appli-
cations. Major Adviser: Prof. K. S. Champlin.

Ming-Fen Myra Chern, Taipei,
Taiwan

B.S. '67, National Taiwan University; M.S. '71,
University of Minnesota. Major: Biometry.
Minor: Genetics. Thesis: Inheritance of Men-
strual Traits. Major Adviser: Prof. J. E. Bear-
man.

Hyun Mook Choe, St. Paul

B.S.E.E. '64, Seoul National University;
M.S.E.E. '71, University of Minnesota. Major:
Electrical Engineering. Minor: Mathematics.
Thesis: Noise in Superconductor Devices.
Major Adviser: Prof. Aldert van der Ziel.

Ronald C. Christner, West Chicago,
Ill.

B.A. '69, St. Procopius College; M.S. '71,
University of Minnesota. Major: Business
Administration. Minor: Supporting Program.
Thesis: Return, Risk and Diversification As-
pects of the New Markets for Lumber and
Plywood Futures. Major Adviser: Prof. R. B.
Upson.

Janie West Cotton, Houston, Tex.

B.S. '44, Texas Southern University; M.S. '45,
Kansas State University. Major: Education.
Minor: Home Economics. Thesis: Relevance of
the Undergraduate Preparation of Home Eco-
nomics Teachers for Employment in Schools
Enrolling Pupils from Culturally Distinct
Groups. Major Adviser: Prof. R. R. Ford.

Kathryn Lampe Craighead,
St. Louis Park

B.A. magna cum laude, B.S. with high dis-
tinction '69, University of Minnesota. Major:
Chemistry. Minor: Supporting Program. Thesis:
Nuclear Magnetic Resonance Studies of Outer
Sphere Complexes. Major Adviser: Prof. R. G.
Bryant.

John Sydney Croucher, Sydney,
Australia

B.A. '71, MacQuarie University; M.S. '72,
University of Minnesota. Major: Operations
Research. Minor: Mathematics. Thesis: Game
Theoretic Models with Applications. Major
Adviser: Prof. Seymour Geisser.

James William Cunningham,
Wheaton

B.A. '60, St. John's University; M.A. '63,
State University of Iowa. Major: History.
Minor: Geography. Thesis: Reform in the
Russian Church, 1900-1906: The Struggle for
Autonomy and the Restoration of Byzantine
"Symphonia." Major Adviser: Prof. T. G.
Stavrou.

Kathleen Ann Davis, Waukesha, Wis.

B.S. '67, University of Wisconsin. Major:
Physical Chemistry. Minor: Supporting Pro-
gram. Thesis: The Coupling of Harmonic
Oscillators in Simple Polyatomic Molecules.
Major Adviser: Prof. John Overend.

Sister Mary Veronica Davison,
Ladysmith, Wis.

B.S. '61, St. Scholastica College; M.A. '65,
University of Minnesota. Major: Music. Minor:
Art History. Thesis: American Music Period-
icals, 1853-1899. Major Adviser: Prof. Johan-
nes Riedel.

Kenneth James Dawes, Bismarck,
N.D.

Ph.B. '58, University of North Dakota; M.S.
'61, Columbia University. Major: Sociology.
Minor: Social Work. Thesis: Family Re-
lationships, Reference Others, Differential
Identification and Their Joint Impact on
Juvenile Delinquency. Major Adviser: Prof. J.
P. Clark.

Albert Kenneth Dawson, Winnipeg
Beach, Manitoba, Canada

B.P.E. '63, University of Alberta. Major:
Physiology. Minor: Biochemistry. Thesis:
Chronic Studies of Canine Ventricular Fibril-
lation Threshold: Effects of Physical Con-
ditioning and Chronic Anemia: An Exploratory
Study. Major Adviser: Prof. H. L. Taylor.

Roger Lee DeRoos, Minneapolis

B.S.C.E. '63, South Dakota State University;
M.S. '64, M.P.H. '68, University of Minne-
sota. Major: Environmental Health. Minor:
Civil Engineering. Thesis: Some Aspects of
Critical Quality Requirements for High-Purity
Water in Biomedical Research and Medical
Care Facilities. Major Adviser: Prof. C. P.
Straub.

Larry Albert Drew, Sierra Vista,
Ariz.

B.S. '65, M.S. '67, University of Idaho. Major:
Forestry. Minor: Statistics. Thesis: Vegetation-
Environment Relationships in the Prairies-
Forest Transition Zone in Minnesota. Major
Adviser: Prof. E. V. Bakuzis.

David Birke Drown, Superior, Wis.

B.S. '67, University of Wisconsin, Superior;
M.S. '69, Michigan Technological University;
M.P.H. '70, University of Minnesota. Major:
Environmental Health. Minor: Entomology.
Thesis: The Response of Lake Superior
Periphyton to Heat Additions. Major Adviser:
Prof. T. A. Olson.

William Wayne Dykoski,
Minneapolis

B.Phys. '65, University of Minnesota. Major:
Physics. Minor: Mathematics. Thesis: A Study
of the Structure of the Silicon and Phosphorus
Isotopes. Major Adviser: Prof. D. K. Dehnard.

**David Murray Emblidge,
Great Barrington, Mass.**

B.A. '67, St. Lawrence University; M.A. '68, University of Virginia. Major: American Studies. Thesis: A Dialogue of Energy: Rock Music and Cultural Change. Major Adviser: Prof. Johannes Riedel.

Victor Sih-chiun Fan

B.S. '64, Tunghai University; M.A. '67, University of California. Major: Microbiology. Minor: Biochemistry. Thesis: Lipid Metabolism of Normal and *Lymphogranuloma venereum* Infected Monkey Kidney Cells. Major Adviser: Prof. H. M. Jenkin.

Kwang-Fu Farnq, Taiwan

B.S. '67, National Taiwan University. Major: Pharmaceutics. Minor: Chemistry. Thesis: Effects of Sodium Carboxymethylcellulose on Sodium Salicylate Transport. Major Co-Advisers: Profs. K. G. Nelson and E. G. Rippie.

**Dietmar Anton Florian, Hamilton,
Ontario, Canada**

B.A. with honors '67, York University. Major: Statistics. Minor: Supporting Program. Thesis: Group-Testing with Uncertain Test Results: Dorfman-Type Procedures with Continuous Random Variables. Major Adviser: Prof. Milton Sobel.

**Bernice Margaret Folz,
Marshfield, Wis.**

B.B.A. with honors '56, University of Wisconsin; M.S. '65, University of Minnesota. Major: Biology. Minor: Supporting Program. Thesis: Biological Iron Oxidation at Two Sites in Minnesota. Major Adviser: Prof. D. C. Pratt.

**Ian Calder Gamson, Sydney, N.S.W.,
Australia**

B.A. '57, University of Sydney; Ed.M. '61, Harvard University. Major: History. Minor: Political Science. Thesis: The American Historian and the Concept of Manifest Destiny, 1845-1849. Major Adviser: Prof. D. W. Noble.

**Richard Keith Gehrenbeck,
White Bear Lake**

B.A. magna cum laude '56, Macalester College; M.A. '66, University of Minnesota. Major: Physics. Thesis: C. J. Davisson, L. H. Germer, and the Discovery of Electron Diffraction. Major Adviser: Prof. R. H. Stuewer.

Karen Grandstrand Gervais, Edina

B.A. '66, Oberlin College. Major: Philosophy. Minor: Internal. Thesis: Ifs, Cans, and the Compatibilist Thesis. Major Adviser: Prof. H. E. Mason.

Daryl Robert Gibson, Pittsburgh, Pa.
B.S. with distinction '62, M.F.A. '71, University of Minnesota. Major: Music. Minor: Internal. Thesis: A Photographic Study of Twelve Professional Trumpet Embouchures While Playing from the Low to the Extreme Upper Register. Major Adviser: Prof. E. M. Turrentine.

**Jacques Giguere, Sherbrooke,
Quebec, Canada**

B.S. '62, University of Montreal; M.S. '69, University of Sherbrooke. Major: Chemistry. Minor: Supporting Program. Thesis: High Resolution Infrared Spectra of Simple Molecules. Major Adviser: Prof. John Overend.

Larry George Gru, Edina

B.A. '64, Colgate University; M.S. '67, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Financial Ratios, Multiple Discriminant Analysis and the Prediction of Small Corporate Failure. Major Adviser: Prof. P. F. Jessup.

John Daniel Burgoyne Hamilton

A.B. magna cum laude '63, M.A. '64, Saint Louis University; B.D. cum laude '69, Boston College. Major: Classics. Minor: Philosophy. Thesis: The Characterization and Function of Helen in Euripidean Drama. Major Adviser: Prof. R. P. Sonkowsky.

**William Donald Hammel,
Minneapolis**

B.S. '58, University of Minnesota; M.A. '66, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Predicting Multiple Criteria of College Success with Intellectual and Non-Intellectual Predictors Among University of Minnesota Freshmen. Major Co-Advisers: Profs. C. A. Parker and T. J. Hummel.

**Robert Carl Hansen, North
Muskegon, Mich.**

B.S. '66, M.S. '69, Michigan State University. Major: Control Sciences. Thesis: Hierarchical System Theory Applied to River Water Resource Management. Major Adviser: Prof. S. J. Kahne.

**Michael Peter Hardy, Broken Hill,
Australia**

B.E. with honors '69, University of Adelaide. Major: Geo-Engineering. Minor: Supporting Program. Thesis: Fracture Mechanics Applied to Rock. Major Adviser: Prof. Charles Fairhurst.

**Jon Michael Hasbrouck, Great Falls,
Mont.**

B.A. with honors '66, M.A. '69, University of Montana. Major: Speech Science, Pathology and Audiology. Minor: Psychology. Thesis: Modification of Speech Disfluencies in Children. Major Adviser: Prof. R. R. Martin.

Milda Kusler Hedblom, St. Paul

B.A. '62, Macalester College; M.A. '65, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: A Method for Analysis of Political Data: Latin America: 1800-1960. Major Adviser: Prof. W. H. Flanigan.

James Lee Hedtke, Clintonville, Wis.

B.S. '67, University of Wisconsin. Major: Pharmacology. Minor: Biochemistry. Thesis: Cardiotimulant Properties of Cholera Enterotoxin in the Embryonic Chick Heart. Major Adviser: Prof. F. E. Shideman.

David Edward Herold, St. Paul

B.S. '61, M.A. '67, University of Minnesota. Major: American Studies. Thesis: A Species of Literary Lion: Essays on Morison, Freeman, DeVoto, and Becker and the Writing of History. Major Adviser: Prof. C. A. Chambers.

Susan Laurel Hines, Bethel Park, Pa.

A.B. summa cum laude '68, Ohio University; M.A. '71, University of Minnesota. Major: Latin. Minor: Supporting Program. Thesis: The Metaphorical Use of Mythological and Historical Allusions in Plautus. Major Adviser: Prof. R. P. Sonkowsky.

Yui Tim Ho, Hong Kong

B.S. cum laude '67, Chung Chi College; M.S. '69, University of Minnesota. Major: Genetics. Minor: Statistics. Thesis: Genetic Improvement by Combining Superior Alleles from Different Populations in a Naturally Cross Fertilizing Species. Major Adviser: Prof. R. E. Comstock.

**Helenmarie Herbert Hofman,
Sharpsville, Pa.**

B.S. '61, M.Ed. '65, Indiana University of Pennsylvania. Major: Education. Minor: Ecology. Thesis: A Study Conducted Within Selected Schools in Saint Paul, Minnesota, Designed to Assess Eight Year Old Children's Attitudes Toward Science. Major Co-Advisers: Profs. C. V. Goossen and A. H. Humphreys.

Chieh-Hsiang Huang, Taiwan

B.S.E.E. '65, Taiwan Cheng-Kung University; M.S. '68, National Chiao-Tung University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Study of Thermal Noise in Double-Injection Space-Charge-Limited Solid-State Diodes. Major Adviser: Prof. Aldert van der Ziel.

Wei-Tze Huang, Chekiang, China

B.S. '65, National Taiwan University; M.S. '70, University of Cincinnati. Major: Physics. Minor: Internal. Thesis: Theory of Phase Separation of Quantum Crystal Alloys. Major Adviser: Prof. L. H. Nosanow.

Dan Edward Huff, Beaumont, Tex.

B.S. '66, Lamar State College of Technology; M.S. '70, University of Minnesota. Major: Wildlife. Minor: Ecology. Thesis: A Preliminary Study of Ruffed Grouse-Aspen Nutrient Relationships. Major Adviser: Prof. W. H. Marshall.

Sherif El-Basil Ibrahim, Cairo, Egypt

B.S. '65, M.S. '68, Cairo University; M.S. '69, University of Wisconsin. Major: Chemistry. Minor: Internal. Thesis: Bromide Ion-Acid Catalyzed Cleavage of Cyclopentadienyl Mercuric Bromide. Major Adviser: Prof. M. M. Kreevoy.

**Delight Michelle Irwin,
St. Croix Falls, Wis.**

B.A. cum laude '67, University of Minnesota. Major: Child Psychology. Minor: Supporting Program. Thesis: The Relation Between Role-Taking and Moral Judgment in Five-Year-Old Lower and Middle Class Children. Major Adviser: Prof. S. G. Moore.

**Mohammad Yousef Jabbari,
Kazvin, Iran**

B.S. '64, Tehran Institute of Technology; M.S. '69, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Film Cooling and Heat Transfer with Air Injection Through a Staggered Row of Holes into an Accelerating Flow. Major Adviser: Prof. R. J. Goldstein.

Richard Allen Jackson, Cody, Wyo.

B.A. '64, University of Minnesota. Major: Chemistry. Minor: Internal. Thesis: The Chemistry of Some Derivatives of the Macrolide, Zearalenone. Major Adviser: Prof. S. W. Fenton.

Barry James Jacobsen, Racine, Wis.

B.S. '69, M.S. '71, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Interaction Between *Meliodogyne hapla* and *Verticillium albo-atrum* in the Verticillium Wilt Disease of Potato. Major Adviser: Prof. D. H. MacDonald.

Philip Alan Jahnke, Minneapolis

B.A. '65, University of Minnesota. Major: Botany. Minor: Supporting Program. Thesis: A Study of Polymorphism in *Staurastrum*. Major Adviser: Prof. D. J. McLaughlin.

**Heinz Eugen Jauch, Munich,
Germany**

Dip. '67, University of Munich; M.S.E.E. '71, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A New Algorithm for Detecting Faults. Major Adviser: Prof. R. Y. Kain.

Liasu Adele Jinadu, Lagos, Nigeria
B.A. '69, Brasenose College, University of Oxford. Major: Political Science. Minor: Philosophy. Thesis: The Political Ideas of Frantz Fanon: An Essay in Interpretation and Criticism. Major Adviser: Prof. M. Q. Sibley.

Dennis Gordon Johnson, Morris
B.S. '62, North Dakota State University; M.S. '66, University of Minnesota. Major: Dairy Husbandry. Minor: Genetics. Thesis: Genetic Change in Minnesota Dairy Herds. Major Adviser: Prof. C. W. Young.

James Frederick Klumpp,
Coffeyville, Kan.
B.A. '68, University of Kansas; M.A. '72, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Rhetorical Reaction to Attica: Social Rhetoric and the Symbolic Event. Major Adviser: Prof. R. L. Scott.

Raymond Albert Knight,
Brooklyn, N.Y.
B.A. '66, Cathedral College. Major: Psychology. Minor: Medicine. Thesis: A Test of the Censure Deficit Model in Schizophrenia Employing Three Tasks, Color Discrimination Reaction Times, Semantic Differential Ratings, and Children's Reports of Parent Behavior Inventory. Major Adviser: Prof. Norman Garzey.

Robert August Koenig, Chetek,
Wis.
B.S. with honors '55, Wisconsin State University; M.A. '65, University of Minnesota; B.D. magna cum laude '69, San Francisco Theological Seminary. Major: Educational Administration. Minor: Education. Thesis: An Analysis of Federal Legislation and Selected Court Cases Relating to Financing Non-Public Education in the United States. Major Adviser: Prof. C. P. Hooker.

Dale Anthony Krane, Starkville,
Miss.
B.A. '65, M.A. '66, Indiana University. Major: Political Science. Minor: Supporting Program. Thesis: Patterns of Centralization and Development: A Longitudinal Test of Theories of Optimal Government Configuration in Sixteen Nations, 1870-1970. Major Adviser: Prof. Edwin Fogelman.

William Lawrence Kuehn,
Cape Girardeau, Mo.
A.B. '62, Ph.L. '63, A.M. '64, S.T.L. '69, Saint Louis University. Major: Education. Minor: English. Thesis: Self-Actualization and Engagement-Involvement Response to Literature Among Adolescents. Major Adviser: Prof. G. L. Piché.

Patricia Katherine Kuhl,
Minneapolis
B.A. '67, St. Cloud State College; M.A. '71, University of Minnesota. Major: Speech Science, Pathology, and Audiology. Minor: Psychology. Thesis: An Investigation of Acoustic Invariance for Stop Consonants. Major Adviser: Prof. C. E. Speaks.

Tuncer Mahmut Kuzay, Turkey
M.S. '60, Technical University of Istanbul. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Turbulent Heat and Momentum Transfer Studies in Annulus with Rotating Inner Cylinder. Major Adviser: Prof. C. J. Scott.

Robert John Lawn, Mackay,
Australia
B.Ag.S. '67, M.Ag.S. '71, University of Queensland. Major: Agronomy. Minor: Plant Breeding. Thesis: Factors Affecting Symbiotic Nitrogen Fixation in Soybeans (Glycine Max (L.) Merr.). Major Adviser: Prof. W. A. Brun.

Craig Willis Lawson, La Porte, Tex.
B.A. '60, Gustavus Adolphus College; M.S. '62, Kansas State University. Major: Physical Chemistry. Minor: Mathematics. Thesis: Emission of Liquid Benzene: Comparison of 1849 and 253A Excitation. Major Adviser: Prof. Sanford Lipsky.

Inn Hee Lee, Seoul, Korea
B.S. '67, Seoul National University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Microbial Growth Dynamics and Interactions in Mixed Culture. Major Adviser: Prof. H. M. Tsuchiya.

William Everett Lemons, Jr.,
Meckling, S.D.
B.Ed. '41, Illinois State University; M.A. '50, University of Colorado. Major: American Studies. Thesis: The Western Historical Perspectives of DeVoto, Webb, Dobie, and Hyde. Major Adviser: Prof. D. W. Noble.

Margot Pringle Liberty,
Washington, D.C.
B.S. '53, Cornell University; M.A. '65, University of Minnesota. Major: Anthropology. Minor: Supporting Program. Thesis: The Urban Reservation. Major Adviser: Prof. F. C. Miller.

Dale Allen Lundgren, Duluth
B.S.M.E. '58, M.S.M.E. '62, University of Minnesota. Major: Environmental Health. Minor: Supporting Program. Thesis: Mass Distribution of Large Atmospheric Particles. Major Adviser: Prof. H. J. Paulus.

Thomas Lynaugh, Norristown, Pa.

B.A. '60, La Salle College. Major: Psychology. Minor: Supporting Program. Thesis: community Living: A Developmental Approach to the Treatment of Young Adults with Major Psychological Disorders. Major Adviser: Prof. R. D. Wirt.

Robin Edward MacStravic, Mt.
Vernon, N.Y.

B.A. '63, Harvard University; M.A.P.A. '70, University of Minnesota. Major: Hospital and Health Care Administration. Minor: Public Administration. Thesis: Community Participation and Influence in Health Care Delivery: Expectations, Performance and Satisfaction. Major Adviser: Prof. V. E. Weckwerth.

Mamoru Maekawa, Kyoto, Japan

B.E. '65, Kyoto University; M.S. '71, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: An Analysis of a Multiprogramming System with Overlap Within a Job. Major Co-Advisers: Profs. W. R. Franta and D. L. Boyd.

Charles John Maguire, Dublin,
Ireland

B.Ag.S. '60, National University of Ireland; M.A. '65, University of Minnesota. Major: Education. Minor: Animal Science. Thesis: An Investigation of the Effectiveness of a New 9th Grade Career Exploration Curriculum on Vocational Agriculture Students in Minnesota, 1971. Major Adviser: Prof. E. A. Persons.

Winston Ernest Markwalder,
Minneapolis

A.B. '47, Drake University. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Diagnosis of Susceptibility to Reasoning Level Change. Major Adviser: Prof. J. E. Turnure.

Babatunde Alli Masha,
Lagos, Nigeria

B. Aero. E. with distinction '69, M.S. Aero. E. '70, University of Minnesota. Major: Aerospace Engineering. Minor: Supporting Program. Thesis: The Flow of Gases Through and Over Porous Materials. Major Co-Advisers: Profs. G. S. Beavers and E. M. Sparrow.

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B.A. '65, Wellesley College. Major: Psychology. Minor: Pharmacology. Thesis: The Effects of Concurrent Behavior Modifications and Chlorpromazine Therapy in a Population of Mentally Retarded Women. Major Adviser: Prof. T. I. Thompson.

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B.A. '66, University of California; M.A. '68, University of Arizona. Major: Political Science. Minor: Supporting Program. Thesis: The Meaning of Political Philosophy. Major Adviser: Prof. M. Q. Sibley.

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B.S. '66, University of Alberta; M.S. '68, University of Nebraska. Major: Plant Physiology. Minor: Horticulture. Thesis: The Initiation of Cold Acclimation in *Cornus stolonifera*. Major Adviser: Prof. C. J. Weiser.

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B.A. '64, M.A. '70, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: City and Hinterland: The Relationship Between Urban Growth and Regional Development in 19th Century New York. Major Adviser: Prof. John Modell.

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B.A. '59, Yale College; M.A. '67, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: The Influence of Ovid on John Gower's *Vox Clamantis*. Major Adviser: Prof. J. J. McNally.

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Minneapolis

B.A. '64, M.A. '68, University of Minnesota. Major: History. Minor: American Studies. Thesis: Crime and Poverty in a Nineteenth Century City: The "Dangerous Class" of Columbus, Ohio, 1860-1885. Major Adviser: Prof. G. D. Green.

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B.S. '45, M.S. '54, Ohio State University. Major: Education. Minor: Supporting Program. Thesis: An Exploratory Investigation of Factors Related to Academic Advising of Foreign Graduate Students in Home Economics. Major Adviser: Prof. R. R. Ford.

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B.E. '58, Kobe University; M.A. '67, Northeast Missouri State College. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Flexibility in the Mentally Retarded: The Transfer of Positive and Negative Learning. Major Adviser: Prof. D. G. Force, Jr.

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B.S. cum laude '56, Centenary College of Louisiana; M.A. '66, University of Minnesota. Major: Educational Psychology. Minor: Curriculum and Instruction. Thesis: Reading Performance of Normally Sighted and Partially Sighted Third and Fourth Grade Students Using Regular Print and Large Print. Major Adviser: Prof. F. H. Wood.

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B.S.J. '60, M.S. '61, Ohio University. Major: Mass Communication. Minor: Supporting Program. Thesis: Harry S. Truman and Press Opinion, 1945-1953. Major Adviser: Prof. W. E. Emery.

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B.S. '64, Penn State University; M.S. '66, University of Maine. Major: Fisheries. Minor: Supporting Program. Thesis: Population Dynamics and Life History of Burbot, *Lota Lota* (Linnaeus), in Lake of the Woods, Minnesota. Major Adviser: Prof. L. L. Smith.

R. Owen Nelsen, Minneapolis

B.A. magna cum laude '60, Gustavus Adolphus College; M.A. '67, University of Minnesota. Major: Psychology. Minor: Child Psychology. Thesis: A Study of the Role of Sex Offenders' Marriages in the Commission of Their Sex Offenses. Major Adviser: Prof. A. J. Hafner.

David Edward O'Connor, Duluth

B.A. '61, M.S. '70, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Third Harmonic Generation by the Nonlinear Interaction of Millimeter Microwaves and Conduction Electrons in an Indium Antimonide Magneto-plasma. Major Adviser: Prof. K. S. Champlin.

**Pascal Anton Oltenacu,
Brason, Romania**

Dip. n. '64, Faculty of Veterinary Medicine, Bucuresti. Major: Animal Science. Minor: Statistics. Thesis: Genetic and Financial Considerations Regarding Progeny-Testing Breeding Programs in an A.I. Dairy Cattle Population. Major Adviser: Prof. C. W. Young.

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Oakland City, Ind.**

A.B. '63, Oakland City College; M.S. '70, University of Minnesota. Major: Entomology. Minor: Zoology. Thesis: Phototactic Responses of *Megachile rotundata* to Achromatic and Monochromatic Light. Major Adviser: Prof. Basil Furgala.

Dennis John Opheim, St. Paul

B.S. '69, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: The Regulation of Fructose 1,6-bisphosphatase in *Bacillus licheniformis*. Major Adviser: Prof. R. W. Bernlohr.

Dallas Lie Ouren, Terrace

B.A. '61, University of Minnesota. Major: Philosophy. Minor: Greek. Thesis: Hamilton—Mill on Hamilton: A Re-Examination of Sir William Hamilton's Philosophy. Major Adviser: Prof. D. B. Terrell.

Arthur Fytton Pabst, Brooklyn Park

B.S. '63, Rutgers University; M.S. '66, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Snow-melt Flood Forecasting in the Upper Midwest. Major Adviser: Prof. C. S. Song.

**William George Papke, Jr.,
Roseville**

B.A. '65, M.A. '70, Northeastern Illinois University. Major: Educational Administration. Minor: Supporting Program. Thesis: Development of a Statistical Programming Model for the Determination of Added Vocational Program Costs. Major Adviser: Prof. N. C. Nickerson.

Donald James Parks, Denver, Colo.

B.S. '66, Colorado State University; M.S. '68, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Formation of Nitric Oxide from Fluidized Bed Combustion. Major Adviser: Prof. E. A. Fletcher.

Andres Pastrana V., Venezuela

Eng. '71, University of Oriente; M.S. '71, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Kinetics of Hydroxyl Radical Reactions. Major Adviser: Prof. R. W. Carr.

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B.A. '41, University of Pennsylvania. Major: International Relations. Minor: Mass Communication. Thesis: American-Russian Relations, 1861-1869: A Period of Calculated Coexistence. Major Adviser: Prof. C. H. McLaughlin.

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Scranton, N.D.**

B.S. '57, Dickinson State College; M.S. '63, North Dakota State University. Major: Plant Physiology. Minor: Botany. Thesis: Some Factors Influencing the Water Permeability of *Allium Cepa* Bulb Scale Epidermal Cells. Major Adviser: Prof. Eduard Stadelmann.

Carl Lennis Pherson, Kasota

B.S. with distinction '67, M.A. '71, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: Economics of Alternative Waste Management Systems Complying with Pollution Control Regulations on Beef Feedlots. Major Adviser: Prof. T. R. Nodland.

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B.A. '69, Pepperdine University; M.A. '71, California State College at Long Beach. Major: Educational Administration. Minor: Educational Psychology. Thesis: The Relationships Between Preferred College Environment and Job Satisfaction of Public Junior College Faculty Members of Minnesota. Major Co-Advisers: Profs. V. D. Mueller and D. A. Morgan.

David Joseph Radel,

Honolulu, Hawaii

B.A. '61, Harvard College; M.A. '67, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Elite Perceptions of Population Problems and Potential Solutions: Research to Guide an Elite Oriented Population Education Program in Kenya. Major Adviser: Prof. Reuben Hill.

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B.S. '64, M.S. '65, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: An Experimental Study of Two-Dimensional and Three-Dimensional Curved Wall Jets. Major Adviser: Prof. R. J. Goldstein.

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Grosse Point, Mich.

B.S.N. with distinction '61, M.S. '63, University of Minnesota. Major: Sociology. Minor: Public Health. Thesis: Impact of Husband Illness on Family Functioning. Major Adviser: Prof. I. L. Reiss.

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B.S. '60, Chula University; M.A. '63, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Testing and Estimation Problems Concerning Noncentrality Parameters. Major Adviser: Prof. M. D. Perlman.

Stanley Raucher, St. Paul

B.A. '70, University of Minnesota. Major: Chemistry. Minor: Supporting Program. Thesis: An Approach to the Synthesis of Camptothecin. Major Adviser: Prof. R. F. Borch.

Reynold John Rehwaldt, Shoreview

B.A. '52, Gustavus Adolphus College; M.S.Ed. '57, Indiana University. Major: Educational Administration. Minor: Curriculum and Instruction. Thesis: A Comparative Analysis of Two Plans of High School Organization for Instruction, Traditional Versus 'Special K.' Major Adviser: Prof. N. C. Nickerson.

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Columbia, Tenn.

B.S. '68, Washington and Lee University. Major: Biochemistry. Minor: Chemistry. Thesis: Stereochemical Studies on the Mechanism of Action of Uridine Diphosphoglucose Dehydrogenase. Major Adviser: Prof. Samuel Kirkwood.

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Los Angeles, Calif.

B.A. '67, M.A. '68, California State College at Los Angeles. Major: Political Science. Minor: Supporting Program. Thesis: Political Theory, Action, and the Dilemma of Revolt. Major Adviser: Prof. M. Q. Sibley.

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Detroit, Mich.

B.A. '66, M.A. '67, Wayne State University. Major: Economics. Minor: Statistics. Thesis: Evaluating the Effectiveness of Monetary Reforms in Reducing Uncertainty about the Impact of Monetary Policy. Major Adviser: Prof. J. M. Henderson.

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B.A. '67, University of Michigan. Major: Psychology. Minor: Pharmacology. Thesis: The Effect of Methylmercury Dicyandimide, Administered During Embryogenesis, Upon the Development of the Young Chicken. Major Adviser: Prof. G. T. Heistad.

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I.F. '69, University of Chile. Major: Forestry. Minor: Economics. Thesis: Impact of Federal Forestry Incentives Programs on Timber Supply. Major Adviser: Prof. H. M. Gregersen.

Brian Bernard Sabo, Galesburg, Ill.

B.S. '58, M.S. '63, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: Measurements of HeII Flow Through Small Pores. Major Adviser: Prof. William Zimmerman, Jr.

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B.A. '56, Rajasthan University; M.A. '58, Aligarh Muslim University; M.A. '66, University of Hawaii. Major: Geography. Minor: Supporting Program. Thesis: Residential Pattern of Wheat Farmers in Southern Saskatchewan: A Case Study. Major Adviser: Prof. J. W. Webb.

Adisak Sajjapongse, Bangkok,

Thailand

B.S. '67, Kasetsart University; M.S. '71, University of Minnesota. Major: Soil Science. Minor: Supporting Program. Thesis: The Fate of Nitrogen Fertilizers Applied to Southwestern Minnesota Soils. Major Adviser: Prof. R. G. Gast.

John Houston Sanders, Jr.,
Kirkwood, Mo.

B.A. '63, Dartmouth College; M.S. '67, University of Kentucky. Major: Economics. Minor: Internal. Thesis: Agricultural Mechanization and Employment in Brazilian Agriculture, 1950-1971: An Economic Analysis of the Impact of Distorted Factor Prices upon the Machinery-Labor Choice. Major Adviser: Prof. V. W. Ruttan.

Richard Simon Sandman,
White Plains, N. Y.

B.A. '63, Dartmouth College; A.M. '65, Stanford University; M.A. '67, University of Oregon. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Development, Validation, and Application of a Multi-dimensional Mathematics Attitude Instrument. Major Adviser: Prof. W. W. Welch.

Daniel Lee Schafer, Spring Valley

B.S. '60, University of North Dakota. Major: History. Minor: Supporting Program. Thesis: The Maroons of Jamaica: African Slave Rebels in the Caribbean. Major Adviser: Prof. A. H. Spear.

Robert John Schiller, St. Paul

B.S. '66, University of Illinois; M.S. '69, University of Illinois; M.S. '69, University of Michigan. Major: Wildlife. Minor: Supporting Program. Thesis: Reproductive Ecology of Female Sharp-Tailed Grouse (*Pedioecetes Phasianellus*) and Its Relationship to Early Plant Succession in Northwestern Minnesota. Major Adviser: Prof. W. H. Marshall.

Janet Dawn Anderson Schrader,
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B.A. cum laude '67, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: The Role of Complement in Bacteriophage Neutralization. Major Adviser: Prof. L. H. Muschel.

William Daniel Semlak,
Grand Forks, N. D.

B.A. '68, M.A. '70, Marquette University. Major: Speech-Communication. Minor: Supporting Program. Thesis: A Rhetorical Analysis of George S. McGovern's Campaign for the 1972 Democratic Presidential Nomination. Major Adviser: Prof. E. G. Bormann.

Gerald Thomas Semmler,
Minneapolis

B.A. summa cum laude '64, Marquette University. Major: Psychology. Minor: Supporting Program. Thesis: Referrals as a Form of Clinical Judgment: An Application to Special Education. Major Adviser: Prof. R. D. Wirt.

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B.A. '67, University of Illinois at Chicago Circle. Major: Philosophy. Minor: Supporting Program. Thesis: A Study in Cartesian Dualism. Major Adviser: Prof. D. E. Lewis.

James Alan Senn, Minneapolis

B.A. '66, Augsburg College; M.S. '71, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Information System Structures and Purchasing Decision Effectiveness: An Experimental Study. Major Adviser: Prof. G. W. Dickson.

Nadim Ali Shaath, Jaffa, Palestine

B.S. with distinction '67, University of Alexandria. Major: Organic Chemistry. Minor: Supporting Program. Thesis: On the Mechanism of Heterogeneous Catalytic Hydrogenolysis Reactions of 2-Substituted 2-Phenyl-norbornanes. Major Adviser: Prof. E. W. Garbisch.

Shib Prasad Sharma, Manara, Nepal

M.Ag.S. '64, Massey University of Manawatu, Major: Education. Minor: Supporting Program. Thesis: A Study of the Influence of a Curriculum in Occupational Exploration in Agriculture and Natural Resources, and Other Related Factors on the Occupational Knowledge of 9th Grade Vocational Agriculture Students. Major Adviser: Prof. E. A. Persons.

James Walter Shatava, Pine City

B.A.B.A. '66, University of Minnesota; M.S. '68, Colorado State University. Major: Agricultural Economics. Minor: Economics. Thesis: An Estimate of the Benefits Derived from the Use of Commercial Fertilizers and Pesticides in Agriculture. Major Adviser: Prof. W. L. Peterson.

Frances Naomi Shirota,
Honolulu, Hawaii

B.A. '57, M.S. '60, University of Hawaii. Major: Medicinal Chemistry. Minor: Supporting Program. Thesis: Synthesis and Biochemical Evaluation of Suitably Blocked Analogs of the Amino Acids Proline and Lysine: 4,4-Difluoro-L-Proline and 5,5-Difluoro-DL-Lysine as Potential Inhibitors of Collagen Biosynthesis. Major Adviser: Prof. H. T. Nagasawa.

Michael Louis Shuler, Joliet, Ill.

B.S. cum laude '69, University of Notre Dame. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Applications of Biological Nitrogen Fixation. Major Adviser: Prof. H. M. Tsuchiya.

Rolf Norman Sigford

B.A. '68, M.A. '69, University of Minnesota. Major: American Studies. Thesis: The Rhetoric of the Vietnam War: Presidents Johnson and Nixon. Major Co-Advisers: Profs. M. Q. Sibley and T. S. Clayton.

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Lic. '67, University of Barcelona. Major: Economics. Minor: Internal. Thesis: A Model of General Equilibrium with Monopolistic Behaviour. Major Adviser: Prof. J. S. Chipman.

Andris Skreija, Omaha, Neb.

B.A. '59, University of Washington; M.A. '64, University of Kentucky. Major: Anthropology. Minor: Supporting Program. Thesis: Boguty: A Village in Poland. Major Adviser: Prof. F. C. Miller.

Lee Howard Smith, Minnetonka

B.S. '58, Mankato State College; M.A. '65, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The Development of Worldminded Attitudes in High School Students Through the Use of Anthropological Materials. Major Adviser: Prof. W. E. Gardner.

Velma Maurice Prince Smith,
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B.S. '60, Bishop College; M.A. '67, North Texas State University. Major: Educational Administration. Minor: Supporting Program. Thesis: An Investigation Concerning the Impact of an Experimental Counseling Condition on the Grade Point Averages and Retention Rate of Three Racial and Ethnic Groups in a Two Year Community College. Major Adviser: Prof. V. D. Mueller.

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B.S. '68, University of California, Davis; M.S. '70, University of Minnesota. Major: Physics. Minor: Internal. Thesis: Critical Phenomenon in Superconductors. Major Adviser: Prof. A. M. Goldman.

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B.Phys.Th. '67, University of Manitoba; M.S. '70, University of Oregon. Major: Educational Psychology. Minor: Physical Education. Thesis: The Improvement of Manipulative Dexterity in Educable Mentally Retarded Children. Major Adviser: Prof. D. G. Force, Jr.

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B.A. cum laude '57, M.A. '61, University of Minnesota. Major: German. Minor: Linguistics. Thesis: A Semantic and Functional Analysis of Personal Epithets in Wolfram's *Parzival*. Major Adviser: Prof. Cecil Wood.

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B.A. '64, Washington State University. Major: Economics. Minor: Supporting Program. Thesis: The Demand for Education: A Hedonic Approach. Major Adviser: Prof. A. O. Krueger.

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B.Phys. with high distinction '65, M.S. '69, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: 3.5λ Light Curves of Long Period Variable Stars. Major Adviser: Prof. E. P. Ney.

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B.Tech. '67, Indian Institute of Technology, Madras; M.Tech. '69, Indian Institute of Technology, Kanpur. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Computer Studies of Model Fluids. Major Adviser: Prof. H. T. Davis.

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B.S.E. '66, National Taiwan University; M.S.A.E. '69, University of Minnesota. Major: Aerospace Engineering. Minor: Supporting Program. Thesis: Convective Instability in Superposed Porous and Free Layers. Major Co-Advisers: Profs. D. D. Joseph and A. S. Berman.

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B.S. '68, University of Wisconsin. Major: Physics. Minor: Internal. Thesis: Hyperfine Enhanced Nuclear Magnetic Cooling in PrCu₂. Major Adviser: Prof. W. V. Weyhmann.

Paul Raymond Taubr, St. Paul

B.A. '59, St. Thomas College; M.A. '70, University of Minnesota. Major: English. Minor: Linguistics. Thesis: Code Elaboration Among Minneapolis Sixth-Grade Children: Variation with Interviewer. Major Adviser: Prof. H. B. Allen.

Cheng-Hsien Tsai, Tainan, Taiwan

B.S. '69, National Taiwan University. Major: Biochemistry. Minor: Chemistry. Thesis: Degradation of O-Phosphohydroxylysine in Rat Liver. Major Adviser: Prof. L. M. Henderson.

Stephen Hayes Ullman, Holley, N.Y.

B.A. '65, Yale University; M.A. '67, Northwestern University. Major: Political Science. Minor: Supporting Program. Thesis: Cross-Cultural and Sub-Cultural Variations in Political Socialization: A Study of Caucasian and Indian Canadians. Major Adviser: Prof. W. H. Flanigan.

Jerry Thomas Vigue

B.S. '64, M.S. '68, University of Minnesota. Major: Plant Physiology. Minor: Biochemistry. Thesis: The Influence of Biochemical and Environmental Factors on Protein Synthesis and Accumulation in Potatoes. Major Co-Advisers: Profs. P. H. Li and A. J. Linck.

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B.Tech. '68, University of Madras. Major: Chemical Engineering. Minor: Mathematics. Thesis: Adsorption Studies on (100)W and (100)Mo. Major Adviser: Prof. L. D. Schmidt.

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B.S. '59, M.A. '67, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Effects of Environmental Context Cues in Teaching Pre-Readers to Recognize Selected Words Found in the Environment. Major Adviser: Prof. R. T. Lambert.

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B.A. '69, Kent State University. Major: Psychology. Minor: Supporting Program. Thesis: Attack, Eating, Drinking, and Gnawing Elicited by Electrical Stimulation of Rat Mesencephalon and Pons. Major Adviser: Prof. W. W. Roberts.

Douglas Wallace, Minneapolis

B.A. '58, University of Minnesota; B.D. '62, Colgate Rochester Divinity School. Major: Educational Administration. Minor: Sociology. Thesis: An Exploration of the Latent Structure of Pro-Social Student-Defined Problems and Its Relationship to the Theories about Youth of Erick Erikson and Kenneth Keniston. Major Adviser: Prof. W. M. Ammentorp.

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**Peter Roy Weisenşel,
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B.S. '63, M.S. '65, University of Wisconsin. Major: History. Minor: Supporting Program. Thesis: Avraam Sergeevich Norov: Nineteenth Century Russian Traveller and Bureaucrat. Major Adviser: Prof. T. G. Stavrou.

**John Thomas Wetzel,
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B.A. '67, M.A. '68, University of Toronto. Major: Psychology. Minor: Supporting Program. Thesis: A Comparison of the Outcomes and Correlates of Two Methods of Evaluating Performance in the Introductory Psychology Course. Major Adviser: Prof. J. G. Darley.

**Helga Bosiljka Whiton,
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B.A. '53, University of Zagreb. Major: German. Minor: Linguistics. Thesis: Der Wandel des Polenbildes in der Deutschen Literatur des 19. Jahrhunderts (The Changing Image of the Poles in 19th Century German Literature). Major Adviser: Prof. G. H. Weiss.

**Jessica Redway Wirth,
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B.A. '65, University of Wisconsin; M.A. '68, University of Minnesota. Major: Linguistics. Minor: Japanese. Thesis: Syntactic and Semantic Investigations into "Focus" Constructions in English. Major Adviser: Prof. G. A. Sanders.

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St. Paul**

B.A. '61, College of St. Catherine; M.A. '68, University of Minnesota. Major: History. Minor: Political Science. Thesis: Nativism in Minnesota in World War I: A Comparative Study of Brown, Ramsey, and Stearns Counties, 1914-1918. Major Adviser: Prof. R. C. Loehr.

Larry Dean Yore, Delavan

B.S. '64, M.A. '68, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Comparison Study of Reading Readiness Skill Acquisition by Two Methods: Traditional Reading Readiness Program and the "New" Kindergarten Science Curriculum. Major Adviser: Prof. C. H. Boeck.

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B.S.M.E. magna cum laude '67, Western New England College; M.S.M.E. '69, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Dynamic Response of a Layered Viscoelastic-Damped Slider-Crank Mechanism. Major Adviser: Prof. D. A. Frohrib.

Doctor of Philosophy

MAYO GRADUATE SCHOOL OF MEDICINE

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Erik Leo Ritman, Rochester

B.S. '61, M.B.B.S. '64, University of Melbourne. Major: Physiology. Minor: Supporting Program. Thesis: Left Ventricular Function as Related to Its Shape and Volume. Major Adviser: Prof. E. H. Wood.

Doctor of Philosophy in Medicine

David Teh-ming Kiang, Minneapolis

M.B. '60, National Defense Medical Center; M.S. '64, Columbia University. Major: Medicine. Minor: Biochemistry. Thesis: The Effect of Fluoride and Mithramycin on Calcium Metabolism in Cancer Patients. Major Adviser: Prof. B. J. Kennedy.

Doctor of Philosophy in Radiology

MAYO GRADUATE SCHOOL OF MEDICINE

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Doctor of Philosophy in Surgery

Richard French Edlich,
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M.D. '62, New York University School of Medicine. Major: surgery. Minor: Microbiology. Thesis: Studies in the Management of the Contaminated Wound. Major Adviser: Prof. O. H. Wangenstein.

Master of Architecture

Douglas Albert Bevis, Wayzata

B.A. '67, Beloit College. Major: Architecture. Thesis: University West Bank Lounge and Dining Facilities as They Relate to Educational Goals. Major Adviser: Prof. W. K. Vivrett.

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B.E.D. with high distinction '71, University of Minnesota. Major: Architecture. Thesis: Flexibility in the Design of Lounges Which Facilitates Response to User Demand. Major Adviser: Prof. W. K. Vivrett.

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viser: Prof. K. J. Vander Horck.

Master of Business Administration

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Høgs. '71, Agder Distrikthøgskole. Field of
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viser: Prof. D. V. Harper.

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B.E.E. '65, University of Minnesota. Field of
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Sudhir Kumar Jain, Delhi, India

B.Tech. '69, Indian Institute of Technology, Delhi. Field of Concentration: Business Administration. Major Adviser: Prof. W. F. Weitzel.

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B.S. with distinction '56, M.S.M.E. '58, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

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B.B.A. '68, University of Wisconsin. Field of Concentration: Business Administration. Major Adviser: Prof. Jack Gray.

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C.E. '70, Technical University of Hanover. Field of Concentration: Business Administration. Major Adviser: Prof. R. B. Upson.

Richard Arnold Kunz, Edina

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Edmond Lawrence Lambert, St. Paul

B.A. cum laude '66, University of Minnesota, Duluth. Field of Concentration: Business Administration. Major Adviser: Prof. C. W. Rudelius.

Robert John Linhardt, Edina

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B.A. cum laude '72, St. Mary's College. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Zimmer.

Dale Thomas May, Minneapolis

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Merle D. Menssen, Afton

B.B.A. with distinction '59, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

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B.A. cum laude '57, St. Mary's College. Field of Concentration: Business Administration. Major Adviser: Prof. R. N. Cardozo.

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B.S. '50, Duke University. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

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B.M.E. '68, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

James Burris Treleaven, Coon Rapids

B.S.E. '69, Case Institute of Technology. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

David Lyle Young, St. Paul

B.A. '69, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. J. Holloway.

Master of Civil Engineering

Roger Orland Cole, Bloomington

B.S. '63, University of Nebraska. Major: Civil Engineering. Minor: Internal. Major Co-Advisers: Profs. Ladislav Cerny and H. I. Epstein.

Master of Fine Arts

Robert John Metcalf, Minneapolis

B.A. '73, University of Minnesota. Field of Concentration: Theatre Arts. Major Adviser: Prof. R. D. Moulton.

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B.A. '65, St. Olaf College; M.A. '68, University of Wisconsin. Field of Concentration: Theatre Arts. Major Adviser: Prof. H. L. Adey.

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B.F.A. '69, Boston University. Field of Concentration: Theatre Arts. Major Adviser: Prof. R. D. Moulton.

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B.F.A. summa cum laude '71, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. Raymond Henderl.

Master of Science

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B.A. '72, Macalester College. Field of Concentration: Environmental Health. Major Adviser: Prof. C. P. Straub.

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B.S. '65, University of Washington. Field of Concentration: Physical Therapy. Major Adviser: Prof. H. V. Skowlund.

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Dip. '70, University of Tunis. Field of Concentration: Agricultural Economics. Major Adviser: Prof. M. J. Purvis.

Abdelaziz Ben Mabrouk, Kalaa-
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Michael D. Bentley, New Brighton

B.S. '68, Central Michigan University. Field of Concentration: Biology. Major Adviser: Prof. R. G. Johnson.

Henry Benz, Minneapolis

B.A. cum laude '67, Temple University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: The Acid Cleavage of Cyclopropylmercuric Bromide. Major Adviser: Prof. M. M. Kreevoy.

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B.S. '63, Ohio University. Field of Concentration: Physical Therapy. Major Adviser: Prof. H. V. Skowlund.

Abelardo Castro-Merino,
Santiago, Chile

Ing. Agr. with distinction '68, Catholic University of Chile. Major: Soil Science. Minor: Agronomy. Thesis: A Comparison of Dry Matter Production, Yield, and Plant Nutrient Content in Two Wheat (*Triticum aestivum* L.) Genotypes. Major Adviser: Prof. Janis Grava.

Pei Lan Chen, Kaohsiung, Taiwan

B.S. '71, Chung-Hsing University. Field of Concentration: Mechanics. Major Adviser: Prof. R. L. Fosdick.

Chung-Po Cheng, Hong Kong

B.S. '69, United College, The Chinese University of Hong Kong. Field of Concentration: Mathematics. Major Adviser: Prof. E. B. Fabes.

Michael Chiyan Cheung, Hong Kong

B.S.E.E. with distinction '71, University of Minnesota. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. L. L. Kinney.

Allan James Ciha,
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B.S. '71, Iowa State University. Major: Plant Physiology. Minor: Statistics. Thesis: The Effects of Genotype and Environment on Stomatal Size and Frequency in Soybeans (*Glycine Max* L.). Major Adviser: Prof. W. A. Brun.

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B.S. with distinction '71, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. A. C. Mace.

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B.M.E. '72, General Motors Institute. Field of Concentration: Environmental Health. Major Adviser: Prof. K. J. Caplan.

Gordon Jay DeWaard,
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B.S. '71, University of Idaho. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Detection and Measurement of Hydrogen Sulfide in Heated Milks by Gas-Liquid Chromatographic Headspace Analysis. Major Adviser: Prof. E. L. Thomas.

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B.S. '66, University of Bombay; M.S. '68, Indian Institute of Technology, Bombay. Field of Concentration: Environmental Health. Major Adviser: Prof. H. J. Paulus.

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Ag. Eng. '70, University of Tunis. Field of Concentration: Agricultural Economics. Major Adviser: Prof. W. L. Peterson.

James Louis Elder, Lethbridge,
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B.S. '71, University of Lethbridge. Major: Chemistry. Minor: Internal. Thesis: Kinetic Studies of Conformational Changes in Chymotrypsin and Its Derivatives. Major Adviser: Prof. R. W. Lumry.

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B.S. with honors '68, B.S. with distinction '71, University of Bombay. Field of Concentration: Food Science and Industries. Major Adviser: Prof. W. M. Breene.

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B.A. magna cum laude '69, Hope College. Major: Computer and Information Sciences. Minor: Electrical Engineering. Thesis: An Application of Linear Programming to Heuristic Search. Major Adviser: Prof. A. R. Hanson.

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B.S. '70, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. A. C. Mace, Jr.

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B.A. magna cum laude '68, M.A. '70, University of Minnesota. Field of Concentration: Ecology. Major Adviser: Prof. W. H. Marshall.

Jessie Lynn Hansen, Minneapolis

B.S. with distinction '60, University of Minnesota. Major: Medical Technology. Minor: Physical Chemistry. Thesis: A Study of Serum Thyroxine Methodology Based on Competitive Protein Binding. Major Adviser: Prof. E. F. Freier.

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B.S. '70, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. A. R. Hallgren.

**Gene Ting-Piau Hsu, Yunlin,
Taiwan**

B.S. '65, Taiwan Normal University. Major: Plant Pathology. Minor: Entomology. Thesis: Combine Transmission of Aster Yellows Microplasma-Like Organism and Oat Blue Dwarf Virus by the Aster Leafhopper and Its Effect on Longevity and Reproduction. Major Adviser: Prof. E. E. Bantari.

**Jacquelyn Ann Huebsch,
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B.S. '62, College of St. Catherine. Field of Concentration: Nursing. Major Adviser: Prof. Barbara Redman.

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B.A. '68, College of Wooster. Major: Physics. Minor: Mathematics. Thesis: A Study on the Conductivity of the Air in Thunderstorms. Major Adviser: Prof. G. D. Freier.

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B.Math. with distinction '69, University of Minnesota. Field of Concentration: Physics. Major Adviser: Prof. C. H. Poppe.

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B.Math. with distinction, M.Ed. '67, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. J. E. Thompson.

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B.S. '68, St. Louis University. Field of Concentration: Physical Therapy. Major Adviser: Prof. M. O. Mundale.

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B.S. '69, Seton Hall University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. Barbara Redman.

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B.S. '68, Muhlenberg College. Field of Concentration: Physics. Major Adviser: Prof. W. H. Johnson.

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B.S. '72, University of Minnesota. Major: Horticulture. Minor: Plant Pathology. Thesis: Summer Pruning of Apples. Major Adviser: Prof. Cecil Stushnoff.

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B.S. '71, Pennsylvania State University. Major: Plant Pathology. Minor: Statistics. Thesis: Effects of Soybean Seed Germination on Growth of *Pseudomonas Glycinea* Coerper. Major Adviser: Prof. B. W. Kennedy.

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B.S. with distinction '70, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Composition and Digestibility of Dried and Ensiled Aquatic Plants. Major Adviser: Prof. D. E. Otterby.

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B.C. '67, Taiwan Provincial College of Marine and Oceanic Technology. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

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B.A.E. '71, University of Minnesota. Field of Concentration: Fluid Mechanics. Major Adviser: Prof. T. S. Lundgren.

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B.A. '68, Bethel College. Major: Biochemistry. Minor: Genetics. Thesis: Equilibria of Organic Phosphates with Horse Oxyhemoglobin. Major Adviser: Prof. R. E. Lovrien.

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B.S. '70, Technical University of Madrid. Major: Plant Breeding. Minor: Statistics. Thesis: The Effect of Planting Density on Genotypic and Phenotypic Correlations Among Yield and Yield Components in Two Populations of Corn. Major Adviser: Prof. R. E. Stucker.

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B.S. '50, Yale University. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

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A.B. cum laude '70, Cornell University. Major: Biophysics. Minor: Biochemistry. Thesis: The Correction of Respiratory Motion Artifacts in Liver Scintiphography. Major Adviser: Prof. M. K. Loken.

John Francis Pepe
B.S. '70, Purdue University. Major: Plant Breeding. Minor: Plant Physiology. Thesis: Relationship of Plant Height and Its Dwarfing Source to Protein Percentage and Yield in Semidwarf Wheat. Major Adviser: Prof. R. E. Heiner.

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B.S. cum laude '70, University of Minnesota. Major: Nutrition. Minor: Genetics. Thesis: The Effect of Methotrexate on the Uptake of Tritiated Deoxyuridine into the DNA of Fetal Rats. Major Adviser: Prof. L. M. Morse.

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B.S. '69, University of Minnesota. Major: Biochemistry. Minor: Veterinary Physiology. Thesis: A Comparative Functional Study of α -Lactalbumins from Several Species. Major Adviser: Prof. Robert Jenness.

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B.A. '70, University of Minnesota. Field of Concentration: Biology. Major Adviser: Prof. R. G. Johnson.

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Dip. '70, National Institute of Agronomy of Tunisia. Field of Concentration: Animal Science. Major Adviser: Prof. R. N. Shoffner.

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B.S. with distinction '71, University of Minnesota. Field of Concentration: Agricultural Economics. Major Adviser: Prof. F. J. Smith, Jr.

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B.A. '70, Macalester College. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Isolation of Lactose Constitutive Mutants of Lactic Streptococci and Their Possible Use in Dairy Fermentations. Major Adviser: Prof. L. L. McKay.

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Minneapolis

B.A. with distinction '69, University of Minnesota, Morris. Major: Chemistry. Minor: Internal. Thesis: Applications of Light Scattering. Major Adviser: Prof. E. J. Meehan.

Dan Shen-Dar, Haifa, Israel

B.S. '70, Technion-Israel Institute of Technology. Major: Business Administration. Minor: Economics. Thesis: The Market for Fluid Handling Equipment in Latin America. Major Adviser: Prof. R. N. Cardozo.

Bruce Henry Sielaff, Jr.,

Minneapolis

B.A. '66, M.S. '69, University of Minnesota. Major: Biometry. Minor: Microbiology. Thesis: An Analysis of the Antibiotic Sensitivity Patterns of Certain Organisms in the Clinical Microbiology Laboratory. Major Adviser: Prof. E. A. Johnson.

Cheryl Lynn Demien Swinehart,

Brookfield, Wis.

B.S. '68, University of Wisconsin. Major: Medical Technology. Minor: Anatomy. Thesis: Coagulation Studies on Cord Blood of Normal Newborns. Major Adviser: Prof. J. R. Edson.

Michael Larry Thoney,

Pullman, Wash.

B.S. with distinction '71, Washington State University. Major: Nutrition. Minor: Biochemistry. Thesis: Protein Requirements of Hereford and Charolais X Hereford Feedlot Steers. Major Adviser: Prof. J. C. Meiske.

Etsuro Uemura, Nakafurano, Japan

D.V.M. '65, Nippon Veterinary and Zootechnical. Major: Veterinary Anatomy. Minor: Veterinary Physiology and Pharmacology. Thesis: Distribution of Sacral and Lumbar Afferent Axons in Cat Urinary Bladder. Major Adviser: Prof. T. F. Fletcher.

Juan Manuel Vargas, Mexico

D.V.M. '67, Universidad Nacional Autonoma de Mexico. Field of Concentration: Veterinary Obstetrics and Gynecology. Major Adviser: Prof. Raimunds Zemjanis.

David James Weber, Minneapolis

B.A. '69, Hiram College. Major: Physics. Minor: Internal. Thesis: A Determination of the Equilibrium Charge State Distribution for Intermediate Energy O^{16} Ions upon Passage Through a Foil Target. Major Adviser: Prof. N. M. Hintz.

Joan M. Paulson Wilcox, Sunburg

B.S. '70, University of Minnesota. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Valerie Fridrich Wright, St. Paul

B.A. cum laude '65, Gustavus Adolphus College. Major: Entomology. Minor: Plant Pathology. Thesis: A Model to Study the Effects of Mycotoxins on Insects Utilizing *Tribolium Confusum* Duval and Metabolites of *Fusarium* SPP. Major Adviser: Prof. P. K. Harein.

David Bennett Yanke, Ellendale

B.A.E.M. with distinction '71, University of Minnesota. Field of Concentration: Mechanics. Major Adviser: Prof. W. L. Garrard.

Master of Science

MAYO GRADUATE SCHOOL OF MEDICINE

Francis D. Pien, Honolulu, Hawaii

B.A. '65, Johns Hopkins University; M.D. '69, University of Chicago. Major: Microbiology. Minor: Medicine. Thesis: Clinical and Bacteriologic Observations on the Species, *Enterobacter Agglomerans* (the *Herbicola-Lathyri* Bacteria). Major Adviser: Prof. W. J. Martin.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

Joel Nevin Gessele, Detroit Lakes
B.S. '71, Bemidji State College. Major: Chemistry. Minor: Internal. Thesis: Anodic Stripping Voltammetric Analysis Electrode Preparation and Hydrogen Ion Concentration Dependency of Peak Currents. Major Adviser: Prof. T. J. Bydalek.

Sue Ann Roberts, Pullman, Wash.
B.S. '71, Eastern Illinois University. Major: Chemistry. Minor: Internal. Thesis: Structure of Some Metal Aminocarboxylic Acid Complexes. Major Adviser: Prof. V. R. Magnuson.

Master of Science in Aerospace Engineering

Yves Bernard Pointin,
Fourmies, France

Dip. '72, E.N.S.A.M., Paris. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. T. S. Lundgren.

Jarmo Ilmari Uotila,
Helsinki, Finland

Dip. '72, Helsinki University of Technology. Major: Aerospace Engineering. Minor: Operations Research. Thesis: An Analysis of Parachute Opening Dynamics. Major Adviser: Prof. G. S. Beavers.

Master of Science in Agricultural Engineering

Charles Magee

B.S. '69, Alcorn A. & M. College. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Determination of Heat Production of Active Growing Turkeys by Indirect Calorimetry. Major Adviser: Prof. K. A. Jordan.

Stephen Kent Welsh, St. Paul

B.A. '71, Macalester College. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: The Effect of Sprinkling on the Physical and Chemical Properties of Liquid Animal Wastes. Major Adviser: Prof. P. R. Goodrich.

Brent Edward Rieke

B.S.Ag.E. '71, University of Illinois. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Modification of the Design of a Gas-Fired Crop Drier to Control Temperature Variations in the Heated Air Stream to a Drying Bin. Major Adviser: Prof. John Strait.

Master of Science in Chemical Engineering

Juan Carlos Mateos Torres

Ing. '67, University of Guadalajara. Major: Chemical Engineering. Minor: Industrial Engineering. Thesis: Experimental Cyclone Separator and Deep-Bed Filter for Collection of Airborne Particulates. Major Adviser: Prof. W. E. Ranz.

Robert Walter McCabe,
Houston, Tex.

B.S.Ch.E. '72, University of Houston. Major: Chemical Engineering. Minor: Mathematics. Thesis: Catalytic Etching of Platinum in NH_3 Oxidation. Major Adviser: Prof. I. D. Schmidt.

Master of Science in Civil Engineering

Earl Craig Bancroft, Minneapolis

B.C.E. '72, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. C. E. Bowers.

Donald James Galloway,
Bloomington

B.C.E. '61, McGill University. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. E. Fant.

Master of Science in Dentistry

Stephen Russell Nelson, Adrian
D.D.S. '69, University of Minnesota. Major: Dentistry. Minor: Public Health. Thesis: A Comparison of Acid Etch Methods and Materials. Major Adviser: Prof. M. J. Till.

Luis Roberto Velasco,
Mexico City, Mexico
D.D.S. '70, University of Mexico. Major: Dentistry. Minor: Anatomy. Thesis: A Comparative Study of the Dimensional Accuracy of Silicone Impression Materials. Major Adviser: Prof. R. J. Goodkind.

Master of Science in Dermatology

MAYO GRADUATE SCHOOL OF MEDICINE

William Ralph Welborn, Jr.,
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B.A. '64, M.D. '67, Vanderbilt University.
Major: Dermatology. Minor: Pathology. Thesis: Porphyria Cutanea Tarda: A Study in Heredity.
Major Adviser: Prof. H. O. Perry.

Master of Science in Electrical Engineering

Robert Donald Dreher, St. Paul
B.S. '71, University of Minnesota. Major: Electrical Engineering. Minor: Biomedical Engineering. Thesis: Telemetry of Visceral Volume. Major Adviser: Prof. G. W. Timm.

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B.E.E. with honor '67, University of Cairo.
Field of Concentration: Electrical Engineering.
Major Adviser: Prof. R. P. Halverson.

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B.S. '64, Kanazawa University. Major: Electrical Engineering. Minor: Statistics. Thesis: Flicker Noise Compensation in High Input Impedance Mosfet Circuits. Major Adviser: Prof. Aldert van der Ziel.

Paul George Malamen, Jr., Anoka

B.A. '71, St. Olaf College. Major: Electrical Engineering. Minor: Public Health. Thesis: V-Phase Transformer Connections. Major Adviser: Prof. V. D. Albertson.

William Leslie Morgan, Jr.

B.E.E. '72, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Parametric Subharmonic Generation of Acoustic Surface Waves on Piezoelectric Materials. Major Adviser: Prof. W. P. Robbins.

James C. Schwanebeck, Minneapolis

B.S.E.E. '70, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Characteristics of Cone Formation on Sputtered Targets. Major Adviser: Prof. G. K. Wehner.

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B.S.E.E. '63, University of Manitoba. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. N. Bailey.

Master of Science in Geo-Engineering

Osamu Kudo, Saitama-Ken, Japan

B.S. '67, Waseda University. Major: Geo-Engineering. Minor: Geophysics. Thesis: Seismic Location of Hydraulic Fractures in Rock. Major Adviser: Prof. Charles Fairhurst.

Master of Science in Industrial Engineering

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Master of Science in Mechanical Engineering

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B.M.E. '68, University of Minnesota. Major: Mechanical Engineering. Minor: Chemical Engineering. Thesis: Anode Heat Transfer in an Electric Arc. Major Adviser: Prof. Emil Pfender.

Thomas Howard Kuehn, Mahtomedi
B.M.E. with high distinction '71, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Natural Convection in the Annulus Between Horizontal Circular Cylinders. Major Adviser: Prof. E. R. Eckert.

Gerald Gene Olafson, Minneapolis
B.M.E. with distinction '69, University of Minnesota. Major: Mechanical Engineering. Minor: Geography. Thesis: A Methodology for the Location of Personal Rapid Transit Facilities. Major Adviser: Prof. J. E. Anderson.

Vinodrai Maganlal Parekh,
Rajkot, India
B.E. with distinction '69, University of Baroda. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. Liu.

Jeffrey Donald Swanson,
Falcon Heights
B.M.E. with distinction '66, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Inclined Orifice Discharge Coefficients for Incompressible Flow in Circular Ducts. Major Adviser: Prof. W. E. Ibele.

Master of Science in Medicine

MAYO GRADUATE SCHOOL OF MEDICINE

Arthur John Kennel, Rochester
M.D. '57, Hahnemann Medical College. Major: Medicine. Minor: Pathology. Thesis: Anatomy and Pathology of the Cardiac Conduction System in Relation to Coronary Artery Disease and Dysrhythmias. Major Adviser: Prof. R. D. Pruitt.

Master of Science in Metallurgy and Materials Science

Yew-Tsung Chen, Chung-Hwa,
Taiwan
B.S. '68, Cheng-Kung University. Major: Metallurgy and Materials Science. Minor: Mechanical Engineering. Thesis: Stress-Gradient Effects on Hydrogen Phenomena. Major Adviser: Prof. W. W. Gerberich.

Chun-Hao Koo, Taiwan
B.S.E. '69, Cheng-Kung University. Field of Concentration: Metallurgy and Materials Science. Major Adviser: Prof. W. W. Gerberich.

Prakash Thadani, India
B.Tech. '70, Indian Institute of Technology. Major: Metallurgy and Materials Science. Minor: Industrial Engineering. Thesis: Low Temperature Specific Heat Study of Transition Metal Phosphides. Major Adviser: Prof. L. E. Toth.

Brian Charles Torgerson, Adams
B.Met.E. with distinction '72, University of Minnesota. Major: Metallurgy and Materials Science. Minor: Microbiology. Thesis: Metallurgical Aspects of Microbiological Corrosion. Major Co-Advisers: Profs. H. M. Tsuchiya and L. E. Toth.

Master of Science in Mineral Engineering

Shankar Basu, Calcutta, India

B.Tech. with honors '70, Indian Institute of Technology. Field of Concentration: Mineral Engineering. Major Adviser: Prof. Gust Bit-sianes.

Master of Science in Orthopedic Surgery

MAYO GRADUATE SCHOOL OF MEDICINE

Edward Clarence McElfresh,
Columbus, Neb.

B.S. '64, M.D. '68, University of Nebraska. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Canine Tibial Blood Flow by Femoral Arterial Catheterization and the Effect of Sympathectomy and Nerve Stimulation. Major Adviser: Prof. P. J. Kelly.

Master of Science in Otolaryngology

MAYO GRADUATE SCHOOL OF MEDICINE

George Arthur Carder, Liberty, Mo.

A.B. '60, William Jewell College; M.S. '64, Washington University. Major: Otolaryngology. Minor: Anatomy. Thesis: Homograft Tympanic Membrane in Cats. Major Adviser: Prof. D. T. Cody.

Master of Science in Pathology

MAYO GRADUATE SCHOOL OF MEDICINE

Nora Chi-Jun Sun, Shanghai, China

M.D. '60, Shanghai Second Medical College. Major: Pathology. Minor: Internal. Thesis: The Effect of Induced Intravascular Coagulation on Tissue Plasminogen Activator in Dogs. Major Adviser: Prof. C. A. Owen.

Master of Science in Psychiatry

Javier Ignacio Escobar,

Medellin, Colombia

M.D. '67, University of Antioquia. Major: Psychiatry. Minor: Genetics. Thesis: A Double-Blind Comparison of Oral Versus Intravenous Chlorimipramine in Depressed Patients. Major Adviser: Prof. L. L. Heston.

Master of Science in Radiology

Timothy Eugene Tully, Anoka

B.S. '65, Marquette University; M.D. '69, Northwestern University. Major: Radiology. Minor: Pathology. Thesis: A Roentgenographic and Pathologic Classification of Diffuse Diseases of the Small Bowel. Major Co-Advisers: Profs. S. A. Kieffer and Eugene Ged-gaudas.

Master of Science in Surgery

MAYO GRADUATE SCHOOL OF MEDICINE

Roger Robert Dozois, Rochester

B.A. '60, Jesuit's College; M.D. '64, Laval University. Major: Surgery. Minor: Physiology. Thesis: The Role of the Canine Distal Antrum in the Regulation of Gastric Emptying. Major Adviser: Prof. K. A. Kelly.

Master of Social Work

Jane Nugent Green, St. Paul

B.A. '42, State University of Iowa. Field of Concentration: Social Work. Major Adviser: Prof. Richard Sterne.

John Gilmond Jenstad, Minneapolis

B.A. cum laude '65, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. A. D. Wade.

Mary Dana Korman, Bloomington

B.A. '60, Mills College. Field of Concentration: Social Work. Major Adviser: Prof. J. L. Brusseau.

Frances Louise Barkman Martinson, St. Paul

B.A. '59, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. J. L. Brusseau.

Barbara Wenstrom Shank, Ely

B.A. '69, Macalester College. Field of Concentration: Social Work. Major Adviser: Prof. J. L. Brusseau.

Judith Susan Stone, Minneapolis

B.A. cum laude '59, Brooklyn College. Field of Concentration: Social Work. Major Adviser: Prof. M. R. Cohn.

Certificate of Specialist in Education

Lucille Ione Cooper, Kansas City, Kan.

B.A. '49, Lincoln University; M.A. '69, St. Cloud State College. Field: Special Education. Major Adviser: Prof. F. B. Wilderson.

Ronald Erling Eikaas, Minneapolis

B.S. with distinction '61, M.A. '67, University of Minnesota. Field: School Psychological Services. Major Adviser: Prof. M. D. Hall.

Beth Hope Kaprove, East Hartford, Conn.

B.A. with distinction '71, M.A. '73, University of Minnesota. Field: School Psychological Services. Major Adviser: Prof. R. A. Weinberg.

Thomas Raymond Kleppe, St. Paul

B.S. '61, M.A. '63, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. R. T. Lambert.

Robert John Larson, Medford, Wis.

B.S. '59, Wisconsin State University; M.S. '66, Stout State University. Field: Secondary School Administration. Major Adviser: Prof. V. D. Mueller.

Phyllis Gantcher Long, St. Paul

B.A. magna cum laude '67, Brooklyn College; M.A. '69, University of Minnesota. Field: School Psychological Services. Major Adviser: Prof. M. D. Hall.

Roger James McHaney, Glenville

B.S. '65, M.S. '69, Moorhead State College. Field: Elementary School Administration. Major Adviser: Prof. V. D. Mueller.

Nina Marie Robinson, Chicago, Ill.

B.A. '52, Lincoln University; M.A. '56, University of Chicago; M.E. '64, Chicago State College. Field: Counseling. Major Adviser: Prof. C. A. Parker.

COLLEGE OF AGRICULTURE

Bachelor of Science

*Marty William Anderson, Elk River,
with distinction*

John William Baumgartner, Olivia

David Alan Berg, Minneapolis

Michael Philip Boileau, St. Paul

Lee Alan Bourgerie, Fridley

*Roger Ivan Brooks, Bricelyn,
with high distinction*

Wallace David Campbell, Byron

Thomas James Carlson, Minneapolis

*Jeffrey Reynold Ditrach, St. Paul,
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Thomas Alan Eggimann, Jackson

Russell Leigh Friend, Richfield

*Larry Frank Gates, Northfield,
with distinction*

Ronald Edmond Habeck, St. Francis

Gary Austin Halstead, Alexandria

David C. Heegard, Austin

Amy Ellen Jenewein, Fridley

*Francis Yan-Chung Kwong, San
Francisco, Calif., with distinction*

Robert Gene Nordaune, Boyd

*Dennis Wayne Oscarson, Fergus
Falls, with distinction*

Ronald Richard Peterson,
Long Prairie

*Dennis Theodore Primus, Sauk
Centre, with high distinction*

Terrence Edward Rong, Minneapolis

Janet Marie Schatzlein, Minneapolis

John Peter Sternberg, St. James

Robert William Stommes, St. Joseph

Thomas Charles Tebbenkamp,
Elk River

Callix I. Udofia, Abak, South
Eastern State, Nigeria

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

*Donald William Belter, Glencoe,
with distinction*

David John Michaelson, Dawson

Dennis John Runkle, Stewartville

*Carroll Gene Slaughter, Wells,
with distinction*

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Shehla Anjum, Karachi, Pakistan

Joyce Elizabeth Bostrom, St. Paul

John Robert Burza, Margarita,
Canal Zone

Mary Anita Danca, Stoneham, Mass.

Mark Ignatius Donnelly, B.A.,
St. Paul

Richard Bruce Douglas, Windom

Terry William Hansen, St. Paul

James Anthony Holmstoen,
St. Louis Park

Jeffrey Edward Julian, Minneapolis

Michael Scott Loeffler, St. Paul

Judith A. Haugen Museus,
Minneapolis

*Lolly Jane Schiffman, Bloomington,
summa cum laude, Biology*

Martin Willard Schularick,
Long Lake

Steven Leo Spanjers, Minneapolis

Dan Van Tran, Saigon, Vietnam

Robin Les Wellems, Hibbing

Jan Marie Wickstrom

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Dennis Earl Anderson, St. Paul
Duane John Anderson, Milroy,
with distinction

Michael John Ball
William Anthony Becken, A.A.,
Richfield, with distinction

James Joseph Benda, Minneapolis,
with high distinction

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Darrel Thomas Bradford, A.A.,
New Hope

Michael Thomas Bragelman, Anoka
James Douglas Carlson,
St. Louis Park

James Webb Challas, St. Paul
Donald Lee Commons, Hutchinson,
Kan., with distinction

Gideon John Cook, Minnetonka
Sam John Cotosman, South St. Paul
John Emmett Crowley, B.E.E.,
Minneapolis

Michael Robert Cushing, Red Wing
Jeffrey John Daugherty, A.A.,
Minneapolis

Leland Paul Davis, B.A.E.,
Maplewood

Peter Raymond Denzen, Little Falls
Robert John DeValk, Crystal
William Michael Drinane, St. Paul

Athene Uhler Eberlein, Edina
Randy Stuart Ellingson, Bloomington
Mary Elizabeth Erickson, Eagan,
with high distinction

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St. Paul

Janet Katherine Forsberg, A.A., Iron
John Paul Gauthier, Jr.,
West St. Paul

Bruce J. Gebbie, Blaine
Steven Lawrence Gensler,
Minneapolis

Roger Dean Gniffke, Cottonwood
Edward Jacob Gobeli,
Glenwood City, Wis.

Kenneth John Godbout,
North St. Paul
David Mark Gurewitz, Minneapolis,
with distinction

Stephen Henry Hall, Minneapolis
Dianne Carol Halverson, A.A.,
St. Paul

Sheik M. Hussein Haniff, A.A.,
Georgetown, Guyana

Douglas Davidson Harmon,
Minneapolis

Howard Craig Hemme, Hardwick
Richard David Hladky, Hopkins,
with distinction

Nancy Elaine Hoffman, St. Cloud
Timothy Aldrich Holmes,
St. Paul Park

Ivan Arthur Hone, Jr., Richfield,
with high distinction
Mark Joseph Huber, West St. Paul,
with distinction

Lee William Ibberson, Sleepy Eye
Ronald Edward Jackelen, Richfield
Grant Curtis Jensen, St. Louis Park

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James Carroll Jordan, Minneapolis
Thomas Harold Judd, Roseville

Robert Michael Julian, St. Paul
Michael Paul Keller, St. Paul
Todd Thomas Kimitch, Minneapolis

Edward John Kochevar, Jr., Duluth
Dennis Orville Kopfmann, Edina
Brian David Kovalchuk,
Minneapolis, with distinction

Marc E. Kramer, St. Louis Park
Dennis Michael Kudak, Minneapolis
John Edward Kuhlke II, Richfield

Gregory Francis Kurtz, St. Paul
John Christopher Landree,
Milwaukee, Wis.

Kathleen Judy Langton, Rochester,
with distinction

Stephan Turner Mann
Richard Francis Meyers, St. Paul
Edward William Mickelson,
Inver Grove Heights

Timothy Glen Mohr, Minnetonka
Joe E. Mullen, Osceola, Wis.

James George Nalezny, Minneapolis
Steven Lister Nason, St. Paul
Ronald Bradley Nelson, Bloomington,
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 Jerome William Odegaard,
 New Brighton
 Loren Duane Olmstead, A.A.,
 St. Paul
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 Brian John Osberg, Minneapolis
 Timothy Jon Ostman, Robbinsdale
 Steven Douglas Paulson,
 St. Louis Park
 Richard Joseph Pauly, Jordan
 Randall Phillip Pearson, Hopkins
 William Theodore Petersen III
 David Louis Pinger, Burnsville
 Bernard Paul Poranski, Newark, N.J.
 Harold Gene Posthuma, B.Met.E.,
 Vancouver, Wash.
 Thomas Daniel Raustadt,
 Brooklyn Center
 Gregory Joseph Rebeau, A.A.,
 Virginia
 Stephen Jeffrey Ries, Edina
 Stephen Gaylord Roehl, Minneapolis
 James Robert Roehrenbach, St. Paul
 Paul Solomon Rogin, B.A.,
 Minneapolis
 Thomas Edward Rubbelke
 Thomas John Ruble, Minneapolis
 James Holen Rucinski, B.A.,
 Minneapolis

James Weston Sailer, Minneapolis
 Peter F. Scherling, Minnetonka
 Roy Lawrence Schirmer,
 St. Louis Park
 Robert John Seifert, New Ulm
 Robert John Shaughnessy,
 Minneapolis
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 with high distinction*
 James Allen Snyder, White Bear Lake
 Robert Ronald Sorg, Freeport
 John Bruce Stone, Alexandria
 Glen Herbert Strandquist, St. Paul
 Paal Sunde, Oslo, Norway
 Robert Herman Swenson,
 Minneapolis
 Sharon Elizabeth Thielen,
 Minneapolis
 Bruce Richard Toskey, St. Paul
 Thomas Harold Underhill, B.A.,
 Minnetonka
 Joseph William Ungerman, Hopkins
*Jeffrey Lynn Wagner, White Bear
 Lake, with distinction*
 Mark Leonard Wanka, St. Paul
 Ronald John Warhol, Minneapolis
 David Charles Weber, Minneapolis
 Donald Albert Weber, Morgan
 Delmar C. Wise, Burnsville
 Dennis Clark Woodward, B.S.,
 Minneapolis
 Michael Raymond Worts, B.A.

CONTINUING EDUCATION AND EXTENSION

Business Administration Certificate

Claude Eric Cybulski, St. Paul
 Richard Thomas Kitoski, Wayzata
 Jeffrey Stuart Murman, Minneapolis

Herbert Gary Strozinsky,
 West St. Paul

Early Childhood Studies Certificate—90 Credits

Rita M. Suhr Bonsack,
 Inver Grove Heights
 Betty Ann Few, St. Paul
 Jacqueline Dejarlais Kes, Jordan

Willie Rue Emery Porter,
 Oklahoma City, Okla.
 Mattie Austine Vaughn, St. Paul
 Audrey E. Wright, St. Paul

*Degree conferred as of August 24, 1973

Engineering Science Certificate

David LeRoy Anderson, Minneapolis

Fellow in Management of Administrative Services Certificate

Richard Henry Smith, Minnetonka

Social Work Post-Baccalaureate Certificate

Donald P. Razskazoff, St. Paul

Undergraduate Development Certificate in Electrical Engineering—90 Credits

David Lee Thompson, Fridley

Undergraduate Development Certificate in Electrical Engineering—135 Credits

Donald Konrad Drach, St. Paul

Richard Thomas Kitoski, Wayzata

SCHOOL OF DENTISTRY

Bachelor of Science

Gregory Garvin Nelson, Mankato

Doctor of Dental Surgery

Robert Charles Biesterfeld, B.S.,
St. Louis Park

Robert Jay Bloom, B.A., Brainerd

Robert Anthony Casper, Jr., B.A.,
St. Paul

John Michael Dildine, B.A.,
Minneapolis

Roger Allen Dunphy, B.S.,
Minneapolis

Eugene Gerald Dvoracek, B.A.,
Minneapolis

Steven Andrew Earl, B.A., Edina

Thomas Richard Gustafson, A.A.,
B.A., Pengilly

Stanley George Haas, Worthington

Michael J. Homer, B.S.,
Grand Forks, N.D.

Douglas Albert Kekkonen,
Grand Rapids

Jeffrey Arlen Lane, B.S.,
Glasgow, Mont.

Kenneth Ralph Larson, Eveleth
Gregory William Ludden, B.S.,
Minneapolis

Clarence Anthony McCarty, B.S.,
Minneapolis

Duane Franklin McDonald, B.S.,
Duluth

Steven Lee Nelson, B.A., Buffalo
Eugene Joseph Schneeweis, Jr.,
B.S., Duluth

William James Shorack, B.A.,
South St. Paul

Barbara Jean Thompson, B.S.,
Minneapolis

COLLEGE OF EDUCATION

Bachelor of Science

- Margaret Jean Adams, Willmar,
with distinction*
- Colin Cathro Anderson,
Golden Valley
- Martha May Anderson, Detroit
Lakes, with high distinction*
- Warren John Anderson, Fountain,
with distinction*
- Marvin Michael Balamut, Columbia
Heights, with distinction*
- Michael Caryl Bardwell, A.A.,
Minneapolis
- Linda Alice Belbeck, Richfield
- Joyce Janelle Berdie, A.A., Willmar,
with distinction*
- Julia Elaine Bjorklund, Minneapolis,
with distinction*
- Patricia Joanne Blatzheim,
Robbinsdale
- Mary Margaret Blees, A.A., St. Paul
- James George Blumhoefer, A.A.S.,
Minneapolis, with high distinction*
- Earl William Bracewell, Ogilvie
- Junior Jene Branson, A.A., Minne-
apolis, with high distinction*
- Kathleen H. Brantley, Winona
- Jane Shirley Brattlof, St. Paul
- Kathleen Mary Briguet, Inver Grove
Heights, with distinction*
- Richard Edward Brown, Rosemount,
with distinction*
- Steven Albert Bury, Brooklyn Park,
with distinction*
- Jon Scott Buyek, Danvers
- Dene Wayne Byers, A.A.,
Walnut Grove
- Kenneth Donald Comer, Minnetonka
- Charles Hadden Corlett, Minneapolis,
with distinction*
- Jean Curtiss, B.A.
- Eleanor Ann Dahlgren, Minneapolis,
with distinction*
- Karen Ann Anderson Denison,
Minneapolis
- Deborah Jo Dodds, Mound,
with distinction*
- Richard Artley Donnelly,
Minneapolis, with distinction*
- Gracia Naomi Dyrud, Newfolden
- Daphne Jennifer Eklund, A.A.,
Willmar, with high distinction*
- Steven Edward Elftmann, Edina,
with distinction*
- Randi Jo Palm Empanger,
Minneapolis
- Patrick Henry Esser, B.A.,
Minneapolis
- Paul Anthony Evangelist,
Minneapolis
- David G. Flugaur, Minneapolis
- Bruce Arthur Folken, Austin,
with distinction*
- Ronald Lee Frankhouser,
Minneapolis, with distinction*
- Gloria Jean Frederick, Madison
Lake, with distinction*
- David Bruce Freedman, St. Paul
- Russell Walter Fystrom,
St. Louis Park
- Karen Lynn Gavett, A.A.,
Minneapolis
- Patricia Ann Gebeke, Melrose,
with distinction*
- Wendy M. Gerber, Spring Valley,
Wis., with distinction*
- Richard Bruce Gerk, Richfield
- Marna Sue Gillquist, Minneapolis,
with distinction*
- Sandra Kay Dandurand Gleason,
Hopkins
- Kathleen Mulyehill Graczyk,
Minneapolis, with high distinction*
- Gail Idele Greenspoon, A.A.,
Minneapolis
- Candace Ruth Greer, St. Paul
- Pamela Kari Gruber, Minneapolis,
with distinction*
- Wendy Marlene Gurstelle, St. Paul,
with distinction*
- Deborah Sue Hang, Prairie City,
Iowa, with high distinction*
- Indra Ann Hanson, Trinidad
- Joan Marie Shannon Hastings,
Minneapolis, with distinction*
- Linda Jane Herschman

Kathryn Sarah Hochsprung,
Brownton, with distinction
Carol Susan Hoikka, Annandale,
with distinction
 Paul Arthur Hokeness, Northfield
 Gregory A. Holey, Minneapolis
Barbara Kay Holman, Richfield,
with distinction
 George Joseph Honza, Montgomery
Darcy Ann Hoshal, Duluth,
with high distinction
 Patricia Ann Hoverman, Minneapolis
Anne E. Hrabe, Rochester,
with distinction
 Bernice Martha Ittel, Minnetonka
 Roland George Jarvi, B.A.,
 Two Harbors
Janet Ann Jerve, Minneapolis,
with distinction
Danny Thomas Johnsen, Duluth,
with distinction
Clare Elizabeth Johnson, Ada,
with high distinction
 Janet Ruth Johnson, A.L.A.,
 St. Paul
 Karne Kay Johnson, Hopkins
Kathleen Elizabeth Johnson,
Minneapolis, with distinction
Larry Raymond Johnson, A.A.,
Minneapolis, with distinction
 Gary John Kasid, St. Paul
 Katherine Eileen Keasey, B.S.,
 Vernonia, Ore.
Peter John Kelly, Minneapolis,
with distinction
Robert Arthur Kemppainen,
Brooklyn Center, with distinction
 Kathleen Marie Kenyon, St. Paul
 Elizabeth Mary Kilanowski,
 Little Falls
 Katherine Marie Kleifgen,
 Brooklyn Park
Patricia Ann Knobloch, Minneapolis,
with high distinction
Martha Rebecca Kooiman, St.
Cloud, with distinction
 Luanne Shirley Wenberg Koskinen,
 Coon Rapids
 Constante Louise Kracht,
 Minneapolis
 Richard Matthew Kramer,
 South St. Paul

Elaine Gladys Kramlich,
Minneapolis, with distinction
Patricia Mary Krech, Inver Grove
Heights, with distinction
Judith Anne Kukielka, Minneapolis,
with distinction
Rita Kay Kusnier, Richfield,
with distinction
Laura Louise Laegeler, A.L.A.,
Minneapolis, with distinction
 Kathleen Louise Lapham,
 Minneapolis
Paul Joseph Leska, Minneapolis,
with distinction
Linda Marie Lloyd, Minneapolis,
with distinction
 Mary Christine Kiecker Locke,
 Wyoming
Deborah Appleman Lundberg,
Minneapolis, with distinction
 Virginia Ann Millman, Minneapolis
Carol Susan Morrison,
with distinction
 Gregory Allen Nelson, Minneapolis
Carol Jean Netterlund, Karlstad,
with distinction
 William Eugene Olein, St. Paul
Robert Lee Otto, A.A., Elk River,
with distinction
 Donald Thomas Paden, B.A.,
 M.F.A., Minneapolis
 Cora Lee Barnes Parks, St. Paul
 Christine Ann Petersen, St. Paul
 Ruth Linnea Sandstrom Peterson,
 Minneapolis
Sherry Kay Pettit, Cannon Falls,
with distinction
Mary Adele Plocher, Minneapolis,
with distinction
Robert John Podlogar, Wayzata,
with distinction
 Stephen Robert Politano,
 Inwood, N.Y.
Shirley Mae Pyle, Golden Valley,
with distinction
Glenn Joel Quamme, Minneapolis,
with high distinction
Jerome Edward Raiter, A.A., St.
Paul, with distinction
 Roger Effen Reynolds, A.A.,
 Silver Bay

- Kurt Brownell Richter, Mahtomedi, with distinction*
Luann Kay Rowell, A.A., Virginia, with distinction
Beth Hope Rubinger, Minneapolis, with distinction
 Gene Howard Sanford, Faribault
 Marcella Jane Schinke, A.A., Minneapolis
 Daryl Dietrich Schmidt, Madison
 Deborah Coleen Klumpner Schultz, Minnetonka
 Barbara Laura Sevlie, Minneapolis
 Elizabeth Ann Smith, Minneapolis
Sharon Suzanne Smith, White Bear Lake, with distinction
Gaye Lois Sorenson, St. Paul, with distinction
 Annette Marie Stariha, Millerville
David Gordon Storholm, Minneapolis, with distinction
Craig Alan Storie, Robbinsdale, with distinction
Margaret Jean Sturges, Edina, with distinction
 Barbara Ann Svoboda, Bloomington
- Elizabeth Ann Taylor, Adrian, with distinction*
 David Paul Thimsen, B.Phys., Minneapolis
 Annette Renee Thompson, St. Paul
Linda Sue Ullman, St. Paul, with distinction
 Mary Kay Vann, St. Paul
Margaret Mary Van Rossum, Mapleton, with distinction
 Robert William Veldman, Hollandale
 Thomas Waltower, Jr., Augusta, Ga.
Barbara Ann Wardell, Edina, with distinction
Susan Marie Westlund, Rush City, with distinction
 Wendy Jean Wetterlin, Prior Lake
Jacqueline Ann Wigart, Edina, with distinction
 Charles J. Wilks, Jr., Amsterdam, Ohio
Benjamin Fred Withhart, Savanna, Ill., with distinction
Linda Susan Young, Sleepy Eye, with distinction

Master of Education

- Luverne Andrew Bushlack, B.S., Rochester
 Vivian Virginia Hoff*
 Marija Skutans Netz, B.S., Loretto
 Charlotte Kramer Prentice, B.A., St. Paul
- Larry Dale Strootman, B.S., Minneapolis
 Dagny Elizabeth Waldeland, B.A., Minneapolis

COLLEGE OF FORESTRY

Bachelor of Science

- Ronald Robert Christensen, Mahanomen, with high distinction*
 Thomas James Cowell
 Philip Charles Hudler, Cloquet
Thomas Leslie Jahnke, Monticello, with distinction
 Jon D. Jeresek, B.S., Red Wing
 Daniel Freed Jopp, B.A., St. Paul
Susan Katherine Kleinhenz, Minneapolis, with high distinction
 Thomas Eckman Kufryn, Benson
- Robert Harold Lambert, Minneapolis
Craig Robert Lindquist, Lexington, Ky., with distinction
 Robert Henry Nelson, A.A., Ellendale
 Frank Robert Riggle, Minneapolis
 Harry Raymond Roberts, Foreston
 Neil David Saltzman, Minneapolis
 Robert York Scarborough, Shakopee
 Kenneth Joseph Stager, Duluth
 Charles Stewart Veiman, Anoka

*Degree conferred as of August 24, 1973

GENERAL COLLEGE

Associate in Arts

Sharon Lynn Bank, Minneapolis
Francis Anthony Blaha, St. Paul
Carol Anne Blessing, Minneapolis
Wesley Donald Carlson, Minneapolis
Peter Frederick Carlyle, St. Paul
Rayetta Lee Connell, Minneapolis
Stanley Thomas Daniewicz,

Columbia Heights

Stephanie Rehn Datta, Minneapolis

Cyprian Ohadiwe Echemunor,

Nigeria

Linda Kay Edwards, Minneapolis

Hilda Patricia Eng, St. Paul

John Carl Ernst, Minneapolis

Susan Gail Evans, Minneapolis

LaVerne Frances Filek Fennert,

Minneapolis

Joann Lee Ferrario, St. Cloud

James Scott Finsky

Roberta Lee Floyd, Minneapolis

Debby Sue Goldner, Minneapolis

Thomas Peter Gurrola, St. Paul

Debra Ann Gustafson, St. Cloud

Kevin Barry Hawkinson, St. Louis

Park

Bonnie Joy Jennings, Minneapolis

Margaret Keefe, St. Paul

Joohi Khan, Minneapolis

Thomas Willard Knie, St. Paul

Panayiotis Kotis, Athens, Greece

Nancy Ann Kravetz, Minneapolis

Ronald Paul L'Allier, St. Paul

Kathryn Alexis Lambros, St. Paul

Craig Vernon Larson

Gwyneth Leder, St. Paul

Carmen Silva Magallon, Blaine

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Suzanne Kay Ramthun, Byron

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Joanne Neal Sloan, Rock Island, Ill.

Ciri Gail Smith, Minneapolis

Cynthia Jean Smith, Minneapolis

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Barry Vaughan Voss, Minneapolis

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with distinction
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Shelley Annette Bauer, St. Paul
Kristine Rae Berg, Marshalltown,
Iowa
Elizabeth R. Borich, with distinction
Cherylann Mary Boyer, Cloquet,
with high distinction
Terry Jean Campbell, Crookston
Jean Sherrin Chester, Minneapolis
Anne Lucia Crowley, Richfield
Janet Linda Cryer, Shakopee
Bonnie Mae Davis, St. Anthony
Village
Patricia Ann DeLay, Minneapolis,
with distinction
Margaret Mary Doenges, A.A.,
Minneapolis
Denise Martha Gilmore, Minneapolis
Karen Fay Klosowski Hankes,
Sturgeon Lake
Sharon Louise Hanson, Willmar
Kristin Carol Heisler, Forest Lake
Nancy Elizabeth Holmes,
Bloomington
Judy Ann Hutterer, Minneapolis
Mary Jo Bishop Jaehne, Minneapolis,
with distinction
Nancy Jean Jagerson, St. Paul
Patricia Ann Jenkins, North Branch,
with distinction
Linnea Ruth Johnson, Minneapolis
Constance Victoria Jurek,
Minneapolis
- Barbara Jean Kalvik, A.A.,
Fergus Falls
Kathleen Jo Klatke, Osseo
Gail Ellen Kochie, Minneapolis
M. Kathleen Mangum, Minneapolis,
with distinction
Linda Joan Mares, St. Paul
Mary Katherine McShane, Osseo
Marcia Kathryn Miller, White Bear
Lake, with high distinction
Joyce Kerber Mumford, Edina
Mary Louise Nelson, Minneapolis
Randolph Raymond Nelson, Edina
Marilyn Ann Oppgard, A.A.,
Bloomington
Rita Ann Oye, Hardwick
Linda Christine Palmer, A.A.,
Hopkins
Carol Ann Peterson, Richfield
Velura Kay Peterson, Virginia
Sherrie Patricia Pugh, Mound
Teresa Mary Rose, Georgetown
Sheila Diane Roth, St. Paul
Carol Elaine Rulli, St. Paul
Jalaine Gail Savage, Bloomington
Susan Marie Seifert, Eden Prairie,
with distinction
Catherine Mary Simmer, St. Paul
Cynthia Jill Stenzel, Minneapolis
Ann Pierce Wikman Swenson,
Edina
Carol Marie Johnson Tihey,
Minneapolis
Helen J. Wright Western, Redwood
Falls
Linda Susan Whalen, Edina
Linda Marie Wheaton, Houston

LAW SCHOOL

Juris Doctor

- Craig Dennis Boe, B.A., St. Paul
John Marvin Formo, B.A.,
Minneapolis
- John Ellsworth Keiffer, B.A.
Ronald Henry Ortlip, B.A., Waconia
Richard Randolph Rahders, B.A.,
Minneapolis

*Degree conferred as of August 24, 1973

Gerald Edward Sikorski, B.A.,

Breckenridge

David Allen Singer, B.S., St. Paul

Leon Adolphus Trawick, B.A.,

Washington, D.C.

Thomas Arthur Woxland, B.A.,

Rushford

Milton Daniel Zeddies, B.A.,

Minneapolis

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Karen Elizabeth Amundson, Chatfield

Lawrence Richard Cowan, St. Paul

Mary Gaarder Drinkwine,

Minneapolis

Edna Jane Dunshee, Minneapolis

David Russell Erickson, St. Paul

Daniel O. Frank, South St. Paul

Charles Edward Furness, Silver Bay

Mary Margaret Hale, Minneapolis

Fern Edel Knudson, Warroad

John Merlin Lau, Webster

Michael Charles McLaughlin

Ronald Lee Neverman

Robert John Nygren, St. Paul

Michael Frank Overline, Minneapolis

Sheila Lorraine Pike, Newport

Catherine Haugh Quist, Minneapolis

Stephanie Olsen Ruther, St. Paul

Jonathan Edward Stiegler,

Minneapolis

Aivars Stumbris, Riga, Latvia

Victoria Susan Tomczyk

Jeffrey B. Towey, Hopkins

Jill Darcy Wallentine, Alexandria

Thomas Eric York, Richfield

Robert Irving Zapolski, Two Harbors

Bachelor of Arts

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

Robert Woodrow Adams, A.L.A.,

Brooklyn Center

Casey Randall Garrett Alexander,

Edina

Louis Henry Allgeyer, Owatonna

John Wilson Allison, St. Paul

Karen Margaret Alnes, Mahtomedi

Barry Scott Anderson, A.A.,

Minneapolis

Lawrence Fredrick Anderson, A.A.,

Minneapolis

Marilyn Rose Anderson, St. Paul

Mark Rodney Anderson, Minneapolis

Susan Gay Anderson, Richfield

Nancy Deane Ankeny, Mankato

Thomas Peter Antony, Minneapolis

Edgar William Arenz, St. Paul

David Branstad Arnold, Afton

Russell Wayne Baeker, St. Paul

Marny Jane Barovich, Billings, Mont.

Connie Mae Barrett, Minneapolis

Mary Jane Barthelemy, Minneapolis

Todd Thomas Bates III, White Bear
Lake

Stephen Philip Batson, Wayzata

Mary Bernadette Bibus, St. Paul

Jeffrey James Bickel, A.A., St. Paul

Gary M. Biorn, Minneapolis

Gertrude Mary Bishton, St. Paul

Robert Orvis Bixby, A.A., Roseville

Barry Howard Bjornson, St. Paul

*Marjorie Catherine Bolton, B.A.,
Minnetonka, summa cum laude,
Social Welfare*

Martha Alice Borgman,
Annandale, Va.

Scott Rhey Bosworth, Minneapolis

Elizabeth Ada Bragg, Minneapolis

*Juliane E. Brand, St. Paul, summa
cum laude, Music*

Ronald Dean Breen, Excelsior

LaVonne M. Fernelius Brinker,
New London

Ellen Lynn Brown, Minneapolis

Frederick Louis Brown, Jr.,
 Robbinsdale
 Gail Jane Bull, Minneapolis
 William Bevan Bunker, Minneapolis
 Darryl Elliott Bunn, South St. Paul
 John Steven Burg, New Hope
 Patricia Ann Burke, Minneapolis
Cynthia Belle Campbell,
Minneapolis, summa cum laude,
Geography
 Michael Robert Campbell,
 Minneapolis
 Richard James Carlquist,
 Bloomington
 Richard Gary Carlson, Minneapolis
 Conrad Raymond Case, B.A., B.S.,
 M.Ed., Minneapolis
 Michael James Casey, St. Paul
 Wingche Amelia Chan
 Steven Harold Christianson, A.A.,
 Minneapolis
 Robert Lee Clegg, Minneapolis
 Beth Diane Clinton, Minneapolis
 Therese Elizabeth Condon,
 Stillwater
Gary James Crane, St. Paul, magna
cum laude, Psychology
Lawrence Allen Crawford, Shoreview,
summa cum laude, Russian
 Lynn Margaret Croucher, Sydney,
 Australia
 Robert Michael Crumley, St. Paul
 Susan Ahern Cumming, A.A.,
 Excelsior
Maureen Clare Cunnion, Houston,
Tex., cum laude, Art History and
Sociology
James Charles Darling, Worthington,
cum laude, Chemistry
 Bonnie Mae Davis, St. Anthony
 Village
 Barbara L. Dewald, Gold Hill, Ore.
 Michael John Dinneen, St. Paul
 Judith Ann Donohue, St. Paul
 William Patrick Donohue, St. Paul
 Marlon Scott Dubinsky, St. Louis
 Park
 Martha Mary Dunn, Minneapolis
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 Bluffs, Iowa
 Joan Mickelson Dwyer, Minneapolis
 Rebecca Lynn Eames, St. Paul
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 Brooklyn Park
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 John A. Engstrom, Minneapolis
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 Thomas Eugene Erickson
 Shirley Mae Erstad, Lake Wilson
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 Tate Eugene Ferguson, St. Paul
 Chandler Laughton Feuk
 Thomas Joseph Fisher, B.S., Royalton
 James Emmett Fitzgerald,
 Minneapolis
 Margaret Mary Fitzpatrick, White
 Bear Lake
 Kathryn C. Flanagan, Merton, Wis.
 James Donald Flood, Minneapolis
 Dale John Foley, Minneapolis
 Bonnie Jean Fox, Minneapolis
 Ellen Elizabeth Fram, White Bear
 Lake
 Linda Lee Frankenstein, Minnetonka
 Kathleen Diane Frederick, St. Paul
 Peter Marcus Friedlieb, Virginia
David Robert Fronk, Minneapolis,
magna cum laude, Economics
 Kathleen Marie Fryxell, Minneapolis
 Mark John Galarneau, Minneapolis
 Timothy Joseph Garvey, St. Paul
 Judith Marg Gaudette, Minneapolis
 Mary Thomas George, Duluth
 Martha Susan Davis Gerring,
 Hopkins
 Gail Beth Gibson, Eden Prairie
Patrick Joseph Gill, Minneapolis,
summa cum laude, Psychology
 Michael Daly Goblirsch, Jr.,
 Minneapolis
 Deborah Golub, St. Paul
 John Theodore Gougebas
 Timothy Gerard Graca
 John Eugene Gracyk, Minnetonka
 Martin Charles Greulich,
 Minneapolis
 Mark Harold Gruesner, St. Louis
 Park
 Paul William Gustafson, Minneapolis
Susan Patricia Haag, St. Paul, cum
laude, Anthropology
 Marc Christopher Hadley, Anoka
 Robert John Hage, St. Paul

- James Alroy Enger Hagquist,
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- Francis Edward Hanson, Jr., Anoka
- Steven Michael Hartland,
Minneapolis
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- Ann Marie Heimkes, Jordan
- Susan Elizabeth Heintz, Mankato
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- Eric Owen Hess, St. Paul
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- Timothy Jerome Hilger, St. Paul
- Guy Whitney Hoagland, Coon
Rapids
- Katherine Pearl Hobbs, Chicago, Ill.
- Peter Haldor Hodne, Richfield
- Michael John Hoffmann, St. Paul
- John Walter Holm, St. Paul
- Robert James Holmboe, St. Paul
- Mary Elizabeth Holmes,
Minneapolis
- Harold Paul Holmstrom, Blaine
- Carol Ann Hooten, Wadena, summa
cum laude, Child Psychology*
- Katherine L. Hoover, St. Louis Park
- Susan Ann Hopp, St. Paul
- Wen-Ming Hsu, Philippines
- Jamie Loyce Hubbard, Minneapolis
- Kathleen O'Brien Hunt, Wayzata
- Steven Donald Hunter, Minneapolis
- Roy Timothy Huskey, Clayton, Mo.
- Sylvia Marlene Iijima, Minneapolis
- Siebert Alvin Imsland, Jr., Faribault
- Ronald Phillip Janzen, Minneapolis
- Eric Peter Jensen, Rockville, Md.
- Phebe Lee Johansen, St. Paul
- Galen Joseph Johnson, Dassel
- Nancy Ann Johnson, Hopkins,
summa cum laude, Art History*
- Patty Lou Cass Johnson, Red Wing
- Randy Lee Johnson, Duluth
- Roberta Phyllis Johnson, A.A.,
St. Cloud
- Rolf Erik Josephson, St. Paul
- Michael Paul Katz, St. Paul
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Minneapolis
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Willmar
- Valerie Lynn Kern, A.L.A.,
Roseville
- Patricia Jean Kessler, Minneapolis
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- Jean Gould Kishta, A.A.,
Minneapolis
- Steven Arthur Klein, St. Paul
- Mark Robert Kochendorfer, St. Paul
- Leslie Sue Kohn, Minneapolis
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Minneapolis
- Katherine Agnes Krantz,
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- Ursula Maria Krawczyk, Wesel,
Germany
- Gilbert Karl Krohn, Minneapolis
- Thaddeus V. Kudzia, Minneapolis
- Mark Stephen Kuppe, Minneapolis
- Mary Louise LaFond, St. Paul
- Cheryl Ann Lametti, Hugo
- Jeffrey Harlan Lantto, Buffalo
- Pamela Jean Larson, St. Paul Park,
summa cum laude, Urban Studies*
- Reed William Larson, Minneapolis,
summa cum laude, Psychology*
- Scott Anthony Larson, A.A.,
Hopkins
- David Frank LaShomb, St. Paul
- James Albert Lavoie, Minneapolis,
magna cum laude, Economics*
- Kenneth Alfred Lee, New Hyde
Park, N.Y.
- Linda Lucina Levering, Edina
- Monica May Lewis, Brooklyn Center
- Pamela Ellen Lifson, Minneapolis,
magna cum laude,
Interdepartmental*
- Ellen Marie Linc, Minneapolis
- Craig Howard Lincoln, Hopkins
- Stephen William Lindfors, A.A.,
Minneapolis
- Richard Jon Lindgren, Columbia
Heights
- Katherine Marie Logan, Wayzata
- Thomas William Loosmore,
Spokane, Wash.

Penny Lee Lotze, Minneapolis,
summa cum laude, Psychology
Stuart Lucks, Manhasset, N.Y.,
summa cum laude, Urban Studies
 Michael John Ludvigsen,
 Bloomington
 Mark Ryan MacDonald, A.A.,
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 Mary Louise Mackey, Fairmont
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 Bear Lake
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summa cum laude, History
 Gail Ellen Marks, Duluth
Dwight Richard Marriott, White
Bear Lake, cum laude, Humanities
 Constance Beth Mayeron,
 Minneapolis
 Michael James McBrady,
 Hutchinson
 Gary Thomas McDonald,
 Hermantown
 Linda Lorraine McGowan,
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Doris Christine McKinnis, Dawson,
magna cum laude, Philosophy
 Kathleen Ann McLean, South
 St. Paul
 Thomas Clement McNally, Austin
 Kathleen Alice McNamara,
 Minneapolis
 Margaret Mary McSwiggen,
 Minnetonka
 Nancy Ann Meech, St. Paul
 Katherine Elizabeth Meehan, St. Paul
 Kathleen Anne Melcher, Buffalo
 Gregory Virgil Meuers, Robbinsdale
 Sheila Anne Meyer, St. Paul
Laura Christine Mickelson, West
St. Paul, cum laude, Humanities
 Roland James Miles, St. Louis Park
 Charles John Miller, St. Louis Park
 Mary Jane Miller, Mound
 Norma Jean Miller, Bloomington
 Peter Gregory Mladinich,
 Minneapolis
 Irene Mlekoday, Minneapolis
 John Thomas Montague, A.A.,
 Columbia Heights
 Catherine Elizabeth Morrison,
 St. Paul
 David Gordon Morrison, Stillwater
 John Rochel Mueller, Minneapolis
 Scott James Mullen, West Mifflin,
 Pa.
 Mary Victoria Myslajek, St. Paul
 Gerald Leon Nalepka, Minneapolis
 Nancy Nell Ortenstone Neal, Fridley
 Donald John Nelson, St. Paul
 James Carl Nelson, Fridley
 Susan Jean Nelson, St. Paul
 Richard Henry Nielsen, Elk River
 Rozanne Margaret Nohre, White
 Bear Lake
 Marguerite Kay Nolz, St. Paul
 Suzanne Lorraine Nordblom, Mound
 Gayle Linda Novick, St. Paul
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 Geraldine Lois G. Okubo
 Barbara Jean Olson, St. Paul
 Craig Allen Olson, St. Paul
 George Richard Olson, Minneapolis
 Moonyeen Patrice O'Phelan,
 Minneapolis
 Lowell Richard Pankake, Litchfield
Thomas James Paper, Wadena,
summa cum laude, Speech-
Communication
 Richard Edward Patchet, St. Paul
 Richard Allan Paulson, Minneapolis
 David Clark Paulus, St. Paul
Richard Lowell Pederson, Spicer,
cum laude, Psychology
 Barbara Jean Pelto, Hopkins
 Linda Marie Petersen, St. Louis
 Park
 Peter Erik Petersen, Circle Pines
 James Judson Phillips, St. Paul
 Debra Leigh Pickard, St. Paul
Margaret Mary Plunkett, St. Paul,
magna cum laude, Economics
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 Barbara Jeanne Radsom, A.L.A.,
 St. Paul
 Edward Daniel Rafel, Columbia
 Heights
 Mary Jane Raiola, St. Paul
 Pamela Morey Raschio, Portland,
 Ore.

Duane Keith Reed, A.A.,
 Minneapolis
 Pheobe Eva Ruth Reed, Bozeman,
 Mont.
*Kevin Michael Regan, summa cum
 laude, Sociology*
 L. Heidi Reidell, St. Paul
 Shirley Ann Reider, St. Paul
 Julie Ann Reynick, St. Paul
 John Robert Rheinberger, B.A.,
 Stillwater
 Thomas Craig Rice, St. Paul
 Ann-Marie Robertson
 Karen Ann Rostad, Minneapolis
*James Vincent Roth, Bloomington,
 summa cum laude, English*
 Gary Stephen Royce, Minneapolis
 Marcia Sue Rubin, St. Paul
 Steven Rubinger, B.S., St. Louis Park
 Larry Alan Ruehlman, A.L.A.,
 New Brighton
 Paul Vincent Ruhme, Bloomington
 Robert J. Rumpza, Delano
 Cynthia Lynn Samuelson,
 Minneapolis
 Ernest Lee Savage, A.A.,
 Birmingham, Ala.
 Linda Susan Sawyer, Minneapolis
 Kristine Mary Schatzlein,
 Minneapolis
 William Wayne Scheible, New Ulm
 William James Schlichter, Jr.,
 Austin
 Raymond Francis Schmidt, Morris
 Robert Arthur Schneider,
 Minneapolis
 Philip Robert Schoonmaker,
 Minneapolis
 Gordon A. Schultz, Roseville
 Marcia Lynne Schulz, St. Paul
*David Arnold Schwandt, Edina,
 magna cum laude, English*
 Scott Jeffery Severson, A.A.,
 Minneapolis
*Carol Ann Sharpe, Minneapolis,
 magna cum laude, Physiology*
 Susan Jo Shepard, St. Paul
 Harold Eddie Siddy, Jr.,
 Minneapolis
 Ann Terri Sigler
 Garrett Eugene Skelly, St. Louis Park
 Mimsi Ann Smith, Edina
 Paul Loren Snyder, Hopkins
 Richard Elwin Solheid, Belle Plaine
 John Philip Souza, Minneapolis
*Elizabeth Ann Spring, Morris,
 magna cum laude, English*
 Ann Christine Nelson Stack,
 Sturgeon Bay, Wis.
 Joyce Anne Stafki, White Bear Lake
 Carol Ann Stanton, Minneapolis
 Alan MacLean Staubly, Jr.,
 Minneapolis
*Elizabeth Ann Storaasli, St. Paul,
 summa cum laude, Music*
 Dennis Elon Strand, West St. Paul
 Diane R. Kirkland Straub,
 Minneapolis
 Jerry Strauss, St. Louis Park
 Ingrid Annette Stutz, Minneapolis
 Adrienne Marie Sullivan, Albert Lea
 Jerry James Sullivan, St. Paul
 Karen Leigh Thorberg, Richfield
 Deborah Leigh Tidmarsh, Moorhead
 Karen Beth Tornquist, Minneapolis
 Stephen John Townley, St. Paul
 Donald Curtis Tweedy, Minneapolis
 Edet Archibong Usanga, Uyo,
 Nigeria
 Kathryn Mary Utke, Minneapolis
 Dennis Dean Wainstock, A.A.,
 St. Paul
 Dallas Ronald Ward, Minneapolis
 Lauren Marie Warmelin, St. Louis
 Park
 Anna Marie Wasescha, St. Paul
 Alan Lee Watson, Minneapolis
 Alan Michael Watts, Minnetonka
 Jean Weathers-Lowin, Minneapolis
 Brian Lee Weber, Austin
 Julienne Ann Weigher, Minneapolis
 Mark Christopher Weir
*Karen Ann Wendt, St. Paul, magna
 cum laude, Latin American Studies*
*Karen M. Wermager, Minneapolis,
 magna cum laude, English*
 Susan Eileen Westra, St. Paul
 Constance Marie Whiteford,
 Marshall
 James Russell Widtfeldt, Minneapolis
 James Peter Wiegand, Minneapolis
 Fannie Louise Gates Williams, A.A.,
 Minneapolis
 Nina Sturgis Winston, Minneapolis

Nancy Ann Winter, Edina
Lewis Frederick Wolf, St. Paul
Jeannie May Wong, Minneapolis
James Francis Wood, International
Falls
Theodore Yankovich, Gary, Ind.

Elaine May Yee, A.A., Minneapolis
Evonne May Yee, A.A., Minneapolis
Edward John Yen, Minneapolis
Gerald Wayne Ylinen, Minneapolis
Charlene Kay Zamansky, St. Paul
Judy Colleen Zuber, St. Paul

Bachelor of Elected Studies

Patricia Jean Ahtelik, Roseville
John F. Adams*
Marina Jo Andrews, St. Paul
Mayer Allen Berg, Edina
Kanti Jocelyn Ann Blaz, Tatura,
Australia
Cynthia Ann Bolewski,
Leavenworth, Kan.
William Randall Chadwick,
Bloomington
Timothy C. Christiansen,
Minneapolis
Ann Ruth Eumurian, Roseville
Steven Gregory Gorman, Hopkins
Sharon Anne Hawkins, Edina

Susan Jo Herman, A.A., Minneapolis
David Garth Hogan, Hoyt Lakes
Cynthia Clerre Kaul, Faribault
Shelby J. Williams King
James Peter Knutson, Edina
Margaret Louise Meyers, St. Paul
Laura Adele Moon, A.A., St. Paul
Danny James Nylín, A.A.,
Minneapolis
Joann O'Leary Searles, Albert Lea
Marcia Anne Thomson, Minneapolis
Marcee Lynn Vinokour, Minneapolis
Marla Rae Elizabeth Wenzel,
New Richland

Bachelor of Fine Arts

Marilyn Rose Anderson
Media Laurel Arradondo,
Minneapolis
Sandra Wilson Bastien, Edmonds,
Wash.
Eleanor Anne Demos, Roseville
Anthony Dominic Giannetto,
Rochester
Michael Joseph Griesgraber, A.A.,
St. Paul

Lonnie Kaye Lovness, Stillwater
Mary Therese Mahoney, Minneapolis
Jeffrey Robert Pokorney, Duluth
Peep Raid, Minneapolis
John Barry Riese, Rochester
Sheryl Ellen Rosario,
Northridge, Calif.
Reed Kent Schilleman, St. Paul

Bachelor of Science

James Randall Alders, Mankato

MEDICAL SCHOOL

MEDICAL TECHNOLOGY

Bachelor of Science

*These degrees are conferred subject to the completion of practical
work prior to March 22, 1974*

Pamela Sue Mikkelsen, St. Louis Park Colleen Jensen West, Edina

*Degree conferred as of July 20, 1973

MEDICINE

Bachelor of Science

Terence Roy Pladson, St. Cloud

Doctor of Medicine

Julius C. Bonello, B.A., Minneapolis	Royd John Mahowald, B.A., Minneapolis
Patricia Martens Cole, B.A., Green Bay, Wis.	Gregory James Milne, B.A., Duluth
Thomas Joseph Diem, B.A., St. Michael	Francis Laurence Mueller, B.A., St. Paul
Bruce Darol Fossey, B.A., Minneapolis	Michael David Okada, B.A., Northfield
Melvin Gaddis Green, Jr., B.A., St. Paul	George Henry Pattison, B.A., Stubbs Bay
Theodore Adolph Groskreutz, B.A., Minneapolis	Terence Roy Pladson, St. Cloud
Spencer Allan Johnson, B.A., Grand Rapids	Robert Keith Rothfeder, B.A., Livingston, N.J.
Ronald William Kaufman, B.A., Minneapolis	Richard Donald Shank, B.A., St. Paul
Frank Kwok-Kit Leung, B.A., Hong Kong	Murray Dean Smith, B.S., Minneapolis
Carol Lynne Johansen Lietzau, B.S., Springfield	Carol Ann Soutor, B.S., Voss, N.D.
Kipton John Virgil Lundquist, B.A., Minneapolis	Robert Eugene Thompson, B.A., M.S., Ph.D., B.S., Peoria, Ill.
	Donna Gaye Wolseth, B.A., Fargo, N.D.

MORTUARY SCIENCE

Bachelor of Science

Martin Thomas Brenny, A.L.A., B.S., Little Falls

PHYSICAL THERAPY

Bachelor of Science

Gene A. Cirks, Nevis

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Dixie Joan Hayday, B.S., Hudson, Wis.	Twachai Tansathit, M.D., Chiangmai, Thailand
Joanne Ruth Monson, B.S., Boston, Mass.	Clitheroe Dean Ugboajah, B.A., Excelsior
Joallyn Leslie Sanstad, B.S., Minneapolis	Jeanne Green Williams, B.S., Rochester
Charles Edward Semenschin, B.S., New York, N.Y.	

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

John Robert Ackerman, St. Paul
Dean Raymond Johnson,
Minneapolis

Robert Jerome Larson, Jr.,
Bloomington

Bachelor of Agricultural Engineering

Randy Douglas Burnyeat,
Minneapolis

*Gary Steven Johnson, St. Paul,
with distinction*
Peter John Vogel, Currie

Bachelor of Architecture

Shim Oluwole Adesina, B.E.D.,
Ibadan, Nigeria
*Linda Ruth Bank, B.A., St. Paul,
with distinction*
Stephen David Barker, Fairmont
John Franklin Bidwell, B.A., Edina
Mark Horne Butler, B.A., St. Paul
*John Charilaos Caranicas, B.Phys.,
Minneapolis, with distinction*
*Charles Richard Coombs, Hoyt
Lakes, with distinction*
Paul Anthony DeMillo, Hibbing
*Nedret Tayyibe Ercan, Istanbul,
Turkey, with distinction*
David Emil Erpestad, B.A.,
Minneapolis
James Richard Grover, B.A.,
Apple Valley

*John Karl Justus, Minneapolis,
with distinction*
*John Dickson Kunz, Eden Prairie,
with distinction*
Jeffrey Chris Magnuson,
Brooklyn Center
Michael John McCarthy,
West St. Paul
Lupe Michael Paez, B.A., St. Paul
*Grant Alan Peterson, Richfield,
with distinction*
Jon Robert Pope, St. Paul
Alan Dean Raymond, Minneapolis
Peter Scott Renner, Wauwatosa, Wis.
Olaf Trelstad Running, B.S.,
Staten Island, N.Y.
Scott Michael Smith, Mequon, Wis.
Scott McWaters Wende, Minneapolis

Bachelor of Chemical Engineering

Bradley Paul Anderson, Albert Lea
Ronald William Berndt, St. Paul
Sharif Fahmi Jarrar, B.S., Jenin,
Jordan
Kerry Dean Reimer,
White Bear Lake

Sunil Shenoy, Bombay, India
David Alan Smith, Roseville
Stephen Robert Stone, St. Paul
Mark Lee Van Sloun

Bachelor of Chemistry

Juris Berzins, Minneapolis
Walter Harrison Carter, Minneapolis
Alan Vidar Fladmoe, Crystal
Patricia Ann Olson, Minneapolis

*James Owen Pederson, Plentywood,
Mont., with distinction*
Wei-Yang Stanley Su

Bachelor of Civil Engineering

Asped Avakian, Isfahan, Iran
*Gary Michael Christensen, White
Bear Lake, with distinction*
Ronald William Ehresmann,
Sauk Rapids
*Charles Harold Frick, Wayzata,
with distinction*
Gary John David Hafvenstein,
Columbia Heights
Jerrold A. Hanson, B.S., Bloomington
Daniel Marshall Jobe, St. Paul
Thomas David Johnson
LeRoy Gregory Krupke, Paynesville

Terrence Roy Lowrie, Minneapolis
Jerry Willis Mastin, A.A.,
Minneapolis
*Dennis Richard Myers, New
Brighton, with distinction*
*Kent Joseph Pederson, Minneapolis,
with distinction*
David Lee Putnam, A.A., Fridley
*John Charles Tamminen, Virginia,
with high distinction*
*William David Wymore, Lexington
Village, with distinction*

Bachelor of Computer Science

Gerald John Brinda, New Hope
David Lee Hintz, Hutchinson
James Donald Huss, Minneapolis

Thomas Coddington Kouri,
Minneapolis

Bachelor of Electrical Engineering

Norman John Christiansen,
Minneapolis
Clinton Jerome Coppicus,
Columbia Heights
*Earl Thomas Fuller, South St. Paul,
with distinction*
Paul Charles Higgins, Litchfield
Stephen Mark Igel, Edina

*Stephen Michael Johnson,
with distinction*
William Charles Keilen, St. Paul
Carl Francis Lundquist, A.A., Edina
Thomas Allen Petricka, Northfield
Fredrick George Schaff, St. Paul
Barry Lynn Stoltenberg, Rochester

Bachelor of Environmental Design

Joel Stephen Edstrom
Craig Stephen Johnson, Fridley

*John Irving Meyer, St. Louis, Mo.,
with distinction*
Stacy Leon Strand, Elbow Lake

Bachelor of Geo-Engineering

Perry Allen Canton, Moorhead, with distinction

Bachelor of Landscape Architecture

Steven John Hadersbeck, A.A.,
Minneapolis
Craig Stephen Johnson, Fridley

*William Folsom Short, Roseville,
with distinction*
Robert Dunnill Sykes, Minneapolis

Bachelor of Mathematics

Bui Tien Loc, Saigon, Vietnam
*Simeon Avraham Silman, St. Paul,
with high distinction*

John Maitland Tripp, Minneapolis
Alan Leslie Trowbridge,
West St. Paul

Bachelor of Mechanical Engineering

- Daniel Stanley Bernt, Minneapolis
Glenn Ervin Borkenhagen, Truman
Carl Joseph Braunreiter, St. Paul
Jeffrey Paul Cheever, Hibbing
Robert Thompson Chinnock, Cloquet
Edward Hull Cook, Red Wing
*Gary Ralph Fichtinger, Freeport,
with distinction*
Jeffrey Scott Finch, A.A., Brainerd
James Patrick Gray, Esko
Thomas Earl Haskett, St. Paul
*Mark Thomas Hedlund, Eveleth,
with high distinction*
Keith Albert Hokenson, Watertown
Dennis Keith Ireland, Good Thunder
Thomas John Janstrom, Maple Plain
*Daniel August Klasen, Melrose,
with distinction*
Joseph Thomas Kochevar, B.Math.,
Eveleth
*Randall Gregory Koza, St. Paul,
with distinction*
Thomas H. Kramer, Minneapolis
*Robert James Krowech, B.S.,
Roseau, with high distinction*
*Kui-Chiu Kwok, Hong Kong,
with high distinction*
*Ted Robert Larson, Milaca,
with distinction*
*Wilbert John Larva, Jr., Minneapolis,
with distinction*
*Christopher Chi-Yin Leung, Hong
Kong, with high distinction*
William Wallace Linneroth, Brainerd
*Lenard Oscar Lundblad, Chandler,
with distinction*
Scott Dallas Nelson, Willmar
Brian Faubion O'Crowley,
Minneapolis
*James Everett Olsen, Rochester,
with high distinction*
*Mark William Resong, St. Paul,
with distinction*
Clinton Nuzum Scott, Minneapolis
David Conrad Spartz
*Charles Edward Stanley, Duluth,
with distinction*
James Bernard Stasson, St. Paul
James Robert Taylor, Rochester
*K. S. Venkatachalam, B.S., India,
with distinction*
*Ngo Nhu Anh Viet,
with high distinction*
Ronald Keith Westby, Minneapolis
Terrance Earle Wick, St. Paul
*Donald Eugene Young, St. Paul,
with distinction*

Bachelor of Mineral Engineering

Robert R. Hendrickson, Virginia

Bachelor of Physics

- Stephen John Anthony
Stephen Wayne Goldstein,
Minneapolis
Steven F. Heppelmann, Rochester
Gary Stanley Lindberg, Edina

Bachelor of Science in Geology

Susan Kay Hakomaki, St. Paul

Bachelor of Science in Geophysics

- Charles Whitney Concklin, Los
Angeles, Calif., with distinction*
*Todd Howard Gilmer, Howard Lake,
with high distinction*
Earl John Larson, Lakeville

UNIVERSITY COLLEGE

Bachelor of Arts

Pamela Rae Johnson, St. Louis Park
Timothy Bangs Levin, St. Paul
Robert Edward Lynn, Minneapolis
Julie Ann Tarshish, Minneapolis

Eric Douglas Thompson, Wayzata
Ellen Genevieve Wallace,
Cedar Rapids, Iowa

Bachelor of Science

Richard Allan Banyai, A.A.,
Phoenix, Ariz.
Julie Christine Close, Bemidji
Paul D. Haemig, Minneapolis
Jay Lee Hardman, Minneapolis
Glenn Louis Larson, A.A.,
Bloomington
Samuel Ray Leathes, Minneapolis
Sister Gertrude McCarney,
Dublin, Ireland

Richard Kevin McGirl, St. Paul
Judith Mary Miller, A.A., St. Paul
Gerald Albert Pearson, St. Paul
Vida Scarpello
Rosemary Trow, Minneapolis
Judy Lynn Winnik, A.A.,
Milwaukee, Wis.
Roger Maurice Wiser, Wausau, Wis.

December Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

David F. Griffiths, Edina

Ronald M. Reichenberger,
Minneapolis

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Signal Corps

Stephen M. Igel, Edina

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

John L. Hegdal, Fairmont

Scott M. Smith, Mequon, Wis.

President's Reception

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.

Dean's Reception—University College

University College graduates, their families, and friends are cordially invited to attend the Dean's Reception immediately following the commencement ceremony. The Reception will be held in Nolte Center, located across Pillsbury Drive from Northrop Memorial Auditorium.

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

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