



UNIVERSITY OF MINNESOTA

Spring Commencement, 1972

THURSDAY EVENING, JUNE 15, 7:30 P.M.

GRANDSTAND AREA

MINNESOTA STATE FAIRGROUNDS

Board of Regents

The Honorable Elmer L. Andersen, St. Paul
Chairman

The Honorable Neil C. Sherburne, Lakeland Township
Vice Chairman

The Honorable Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

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

The Honorable Fred J. Hughes, St. Cloud

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

The Honorable Lester A. Malkerson, Minneapolis

The Honorable George W. Rauenhorst, Olivia

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

The Honorable John A. Yngve, Plymouth

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 Coordinate Campuses and Educational
Relationships

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-first 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 241,700 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 51,000 students annually on its Twin Cities, Duluth, Morris, Crookston, Waseca, and Rochester campuses, the University offers, through its Schools of Agriculture and 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 51,000 students who enrolled at the University at the beginning of the 1971-1972 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

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

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

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

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

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their 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:

<i>Festive Overture</i>	Shostakovich
<i>West Side Story</i>	Bernstein
<i>President's Trio</i>	Bencriscutto
<i>Jubilation Overture</i>	Ward

PROCESSION: At 7:30 p.m., the Mace-Bearer, Professor Gerald McKay, Ph.D., Institute of Agriculture, will carry the Mace onto the platform, heralding the arrival of the academic procession. The procession includes administrators, faculty, distinguished guests, 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, featuring the herald brass, will play:

<i>Festival Prelude</i>	Reed
<i>March from the Original Suite</i>	Jacob
<i>Academic Processional</i>	Grundman
<i>Inaugural Fanfare</i>	Bencriscutto

THE NATIONAL ANTHEM: As Mr. Ernest W. Teie, M.A., College of Education, steps to the microphone, the entire audience will stand and join him in singing the National Anthem:

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

INVOCATION (the audience still standing): Mr. Dale J. Friddle, M.Div., advisor to the University Christian Foundation-Church of Christ and member of the Council of Religious Advisors.

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

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

Professor E. Fred Koller, Ph.D.

College of Agriculture

Professor Warren G. Meyer, M.S.

College of Education

Assistant Professor Lewis G. Palmer, M.A.

Institute of Technology

Professor Leon Reisman, M.A.

General College

SPEAKING FOR THE MINNESOTA STUDENT ASSOCIATION: President Jack Baker, M.B.A., Law School.

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: After each new Doctor of Philosophy has been hooded, Dean Bryce Crawford, Jr., Ph.D., Graduate School, will present him to President Moos. Assisting them will be faculty marshals Professor Wallace D. Armstrong, Ph.D., Medical School; Professor Lawrence C. Merriam, Jr., Ph.D., College of Forestry; and Professor W. Donald Beatty, Ph.D., Admissions and Records.

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

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

Dean Albert Linck, Ph.D., College of Agriculture

Dean Richard S. Caldecott, Ph.D., College of Biological Sciences

Dean James D. Edwards, Ph.D., College of Business Administration

Associate Dean Donald Z. Woods, Ph.D., Continuing Education and Extension

Assistant Dean James R. Jensen, D.D.S., School of Dentistry

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

Dean Frank H. Kaufert, Ph.D., College of Forestry

Dean Alfred L. Vaughan, Ph.D., General College

Acting Dean Keith N. McFarland, Ph.D., College of Home Economics

Associate Dean Robert F. Grabb, LL.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
Dean Lee D. Stauffer, Ph.D., School of Public Health
Associate Dean Walter H. Johnson, Ph.D., Institute of Technology
Acting Dean James H. Wertz, Ph.D., University College
Acting Dean Dale K. Sorensen, Ph.D., College of Veterinary Medicine

HAIL! MINNESOTA: As Mr. Teie 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.

AULD LANG SYNE: The Frances Miller Brown Memorial Bells.

(There will be no recessional.)

Flags

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

Afghanistan	Ghana	Panama
Angola	Greece	Peru
Argentina	Guatemala	Philippines
Australia	Guyana	Poland
Austria	Haiti	Portugal
Barbados	Hong Kong	Republic of China
Belgium	Iceland	Republic of Congo
Bolivia	India	Republic of Korea
Botswana	Indonesia	Republic of 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

G. Max Spriggs, Minneapolis

B.S. '50, University of Minnesota; M.S. '67, St. Cloud State College. Major: Educational Administration. Minor: Educational Psychology. Thesis: The Role of Administrators of Special Education Programs as Perceived by Administrators of Special Education Programs in the State of Minnesota. Major Adviser: Prof. Richard Weatherman.

Doctor of Philosophy

Reginald Frank Bain, South Bend,
Ind.

A.B. '57, University of Notre Dame; M.A. '61, University of Arizona. Major: Speech and Theatre Arts. Minor: English. Thesis: The Federal Government and Theatre: A History of Federal Involvement in Theatre from the End of the Federal Theatre Project in 1939 to the Establishment of the National Foundation on the Arts and Humanities in 1965. Major Adviser: Prof. R. D. Moulton.

James Moses Ballard, Jr., Petersburg,
Va.

B.S. '63, M.S. '64, Virginia State College. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effect of Syntactical Transformations on the Performance of Meaning Task by Urban Black and White High School Students. Major Adviser: Prof. D. W. Johnson.

Conrad Hunter Bergo, Palatine, Ill.

B.A. *cum laude* '65, St. Olaf College. Major: Organic Chemistry. Minor: Supporting Program. Thesis: The Formation of 4-Arylpiperidines by Addition of Aromatic Compounds to Tetrahydropyridines. Major Adviser: Prof. C. F. Koelsch.

William Edward Boernke, Richfield

B.A. '66, University of Minnesota. Major: Zoology. Minor: Supporting Program. Thesis: Adaptations of the Amphibian Ornithine-Urea Cycle Enzyme Arginase. Major Adviser: Prof. W. D. Schmid.

Julio Esteban Bouillet, Buenos Aires,
Argentina

Lic.Math. '64, University of Buenos Aires. Major: Mathematics. Minor: Supporting Program. Thesis: Dirichlet Problem for Parabolic Equations with Continuous Coefficients. Major Adviser: Prof. E. B. Fabes.

Bruce Benjamin Burnes, Minneapolis

B.B.A. with distinction '50, M.B.A. '53, University of Minnesota. Major: Industrial Relations. Minor: Supporting Program. Thesis: Some Principal Determinants and Equitable Perceptions of Chief Executive Salaries in the Commercial Banking Industry: A Partial Sub-System Analysis. Major Adviser: Prof. H. G. Heneman, Jr.

Jon Harold Butler, Hector

B.A. '64, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Christian Experience in the Delaware Valley: The English Churches on the Eve of the Great Awakening. Major Adviser: Prof. J. R. Howe.

Alain Cardou, Nantes, France

Ing. '66, École Nationale Supérieure de Mécanique; M.S. '68, University of Minnesota. Major: Mechanics. Minor: Mathematics. Thesis: Minimum Mass Structural Design with a Frequency Requirement. Major Adviser: Prof. W. H. Warner.

Tze-Yao Chu, Princeton, N.J.

B.S. with highest distinction '64, Purdue University; M.S. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Thermal Convection in Horizontal Liquid Layers. Major Adviser: Prof. R. J. Goldstein.

Richard Ray Cole, Forney, Tex.

B.J. '64, M.A. '66, University of Texas. Major: Journalism. Minor: Supporting Program. Thesis: The Mass Media of Mexico: Ownership and Control. Major Adviser: Prof. R. B. Nixon.

David Lowell Cox, Winnemucca, Nev.

B.A. '63, M.A. '65, Michigan State University. Major: Educational Psychology. Minor: Psychology. Thesis: Component Processes in Judgments of Perceived Similarity. Major Adviser: Prof. P. E. Johnson.

Subhan Chander Datt, Hissar,
Haryana, India

B.V.S. '53, Punjab Veterinary College; M.R.C.V.S. '57, University of Bristol; M.S. '66, Ohio State University. Major: Veterinary Surgery and Radiology. Minor: Supporting Program. Thesis: Experimental Intestinal Obstruction in the Horse. Major Adviser: Prof. E. A. Usenik.

Don Michael Dell, Erie, N.D.

B.S. '63, M.S. '65, North Dakota State University. Major: Educational Psychology. Minor: Psychology. Thesis: The Effect of Congruence of Influence Attempt and Power Base of Counselor on Compliance with Counselor's Suggestions. Major Adviser: Prof. D. A. Blocher.

Ruth Marie Wood Delorey, Brooklyn
Park

B.S. '63, M.A. '67, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Job Satisfaction and Satisfactoriness of Business Graduates. Major Adviser: Prof. R. G. Price.

Rosemarie A. Devivo, Wallingford,
Conn.

B.S. '59, M.S. '64, Central Connecticut State College. Major: Education. Minor: Supporting Program. Thesis: A Comparison of Performance in Shorthand Transcription and Machine Transcription. Major Adviser: Prof. R. G. Price.

Dennis Wells Dickinson, St. Paul

A.B. *cum laude* '62, Augustana College; M.A. '68, University of Minnesota. Major: Anthropology. Minor: Philosophy. Thesis: Some Aspects of Archeological Taxonomy: A Critical Review. Major Adviser: Prof. O. E. Johnson.

Ivan Franz Dusek, Atwater

B.F.A. '61, Drake University. Major: Theatre Arts. Minor: German. Thesis: Ten Fastnachtspiele of Hans Sachs, a Translation and Adaptation, Including an Analysis of Characters and Their Social and Dramatic Significance. Major Adviser: Prof. F. M. Whiting.

David Curtis Egberg, Minneapolis

B.A. *cum laude* '64, Macalester College. Major: Organic Chemistry. Minor: Supporting Program. Thesis: The Synthesis and Reactions of Some Methylene Bridged Aromatic Compounds. Major Adviser: Prof. W. E. Parham.

Arnold Aaron Gerstein, Kalamazoo,
Mich.

B.A. '64, M.A. '66, University of Minnesota. Major: American Studies. Thesis: The Americanized Clergy and the East European Immigrant 1890-1920. Major Adviser: Prof. Hyman Berman.

Gerald Louis Gold, Toronto, Ontario,
Canada

B.A. '66, McGill University; M.A. '68, University of Minnesota. Major: Anthropology. Minor: Economics. Thesis: The Emergence of a Commercial Bourgeoisie in a French Canadian Town. Major Adviser: Prof. F. C. Miller.

David Royle Green, Moorhead

B.A. '53, Concordia College; M.A. '57, Northwestern University. Major: French. Minor: Spanish. Thesis: Sensual Imagery to Achieve Empathic Realism in *Les Théorèmes* of Jean de La Ceppède. Major Adviser: Prof. A. A. Renaud.

Peter Michael Greenston, Washing-
ton, D.C.

B.A. '64, Oberlin College. Major: Economics. Minor: Supporting Program. Thesis: The Food for Peace Program and Brazil: Valuation and Effects of the Commodity Inflow. Major Adviser: Prof. A. O. Krueger.

Paul Elmo Hadley, Minnetonka

B.A. '53, Wheaton College; M.A. '61, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: An Analysis of the Priorities Assigned to Selected Educational Goals by Citizens, Educators and Students. Major Co-Advisers: Profs. V. D. Mueller and G. F. Alkire.

Alfred Ray Harris, La Crescent

B.S. '54, Brigham Young University; M.S. '66, University of Minnesota. Major: Soil Science. Minor: Supporting Program. Thesis: Effect of Deciduous, Coniferous, and Abandoned Field Cover on the Hydrologic Properties and Frost Morphology of Frozen Soil. Major Adviser: Prof. D. G. Baker.

John Richard Hilborn, Minneapolis

B.S. '56, M.A. '60, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of Metropolitan and Normandale State Junior College Instructor Attitudes Towards Disadvantaged Students. Major Adviser: Prof. C. P. Hooker.

Janja Djukic Husar, Subotica, Yugoslavia

Dipl. Eng. '67, University of Beograd. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: Structure and Vibrational Spectra of Strong Hydrogen Bonded Systems. Major Adviser: Prof. M. M. Kreevoy.

Kunio Kawamata, Tokyo, Japan

B.A. '63, M.A. '65, Keio University. Major: Economics. Minor: Mathematics. Thesis: Price Distortion and Potential Welfare. Major Adviser: Prof. M. K. Richter.

Eugene Robert Kersey, Minneapolis

A.B. '63, Dartmouth College; M.A.P.A. '66, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Labor Organizations and Political Development: An Historical Comparative Analysis. Major Adviser: Prof. W. H. Flanagan.

John Samuel Kleinbaum, St. Cloud

B.A. *magna cum laude* '65, University of Minnesota. Major: Psychology. Minor: Neuropsychiatry. Thesis: Personality Patterns Among Juvenile Offenders. Major Adviser: Prof. P. F. Briggs.

Jerome Stewart Kleinsasser, St. Paul

B.S. '61, M.A. '66, University of Minnesota. Major: Music. Minor: Music Education. Thesis: Nineteenth Century Twin City Choral Activities. Major Adviser: Prof. Johannes Riedel.

Bon Ho Koo, Seoul, Korea

B.A. '55, Seoul National University; M.A. '59, University of Minnesota. Major: Economics. Minor: Sociology. Thesis: Role of Effective Exchange Rates in Small Developing Economies. Major Adviser: Prof. Edward Coen.

Byron Earl Kopp, Grantsburg, Wis.

B.S. '52, M.A. '65, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: Role Expectations of Minnesota Educators and School Board Members for the Elementary School Principal in Professional Negotiations. Major Adviser: Prof. W. R. Cross.

Richard Vincent Kowles, Anoka

B.S. '54, Winona State College; M.S. '68, St. Mary's College. Major: Genetics. Minor: Plant Physiology. Thesis: The Synthesis and Behavior of Two-Chromosome Double Interchanges in Maize and Neurospora Crassa. Major Adviser: Prof. C. R. Burnham.

Ronald Edward Kutz, Watertown, S.D.

B.S. '64, M.S. '66, South Dakota School of Mines and Technology. Major: Mathematics. Minor: Supporting Program. Thesis: Cohen-Macaulay Rings and Ideal Theory in Rings of Invariants of Algebraic Groups. Major Adviser: Prof. Melvin Hochster.

Rodney Kenneth Lambert, Palmerston North, New Zealand

B.S. '62, M.S. '64, University of Canterbury; M.S. '70, University of Minnesota. Major: Mechanics. Minor: Mathematics. Thesis: A Continuum Model for the Lung Parenchyma with Application to the Analysis of Flow Limitation. Major Adviser: Prof. T. A. Wilson.

Viateur Larouche, Montreal, Quebec, Canada

B.A. '62, Chicoutimi College; B.S. '64, M.A. '66, University of Montreal. Major: Industrial Relations. Minor: Supporting Program. Thesis: A Multivariate Investigation of Biographical Factors in Job Satisfaction. Major Adviser: Prof. R. V. Dawis.

Gary Young Larsen, Omaha, Neb.

B.A. '63, Northwestern University; M.A. '68, George Washington University. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Study of Reasoning as a Persuasive Process. Major Adviser: Prof. J. H. Flavell.

Ronald Lee Larsen, Little Falls

B.S. '63, St. Cloud State College; M.A. '67, University of Minnesota. Major: Education. Minor: Music. Thesis: Levels of Conceptual Development in Melodic Permutation Concepts Based on Piaget's Theory. Major Co-Advisers: Profs. R. L. Borg and E. M. Turrentine.

James Lindsay, Stirling, Scotland

B.S. '59 University of Glasgow. Major: Education. Minor: Mathematics. Thesis: Models for Regional Financing of K-12 Grades in Public Education. Major Adviser: Prof. V. D. Mueller.

Cheng Chung Liu, Anhwei, China

B.Ed. '61, Taiwan Normal University; M.S. '65, Kansas State College. Major: Education. Minor: Supporting Program. Thesis: Testing an Empirical Procedure for Identifying Technical Associative Conceptual Structures: Discriminating Between Student Groups by Performance and by Creative Thinking in a Mobile Communication Technology Program. Major Adviser: Prof. H. J. Nelson.

Gregg Hinton Marland, Staunton, Va.

B.S. '64, Virginia Polytechnic Institute. Major: Geology. Minor: Physical Chemistry. Thesis: Phase Relations in the System $\text{CaCO}_3\text{-H}_2\text{O}$. Major Adviser: Prof. H. T. Hall.

William Irvin McReynolds, Boulder, Colo.

B.J. '53, M.J. '62, University of Texas. Major: American Studies. Thesis: Walt Disney in the American Grain. Major Adviser: Prof. G. S. Hage.

Terry Dean Monson, St. Ignace, Mich.

B.A. '66, Oakland University; M.A. '68, University of Minnesota. Major: Economics. Minor: Supporting Program. Thesis: Migration, Learning, and Infant Industries: A Case Study of Turkey. Major Adviser: Prof. A. O. Krueger.

James Donald Moon, Middletown, Conn.

B.A. *summa cum laude* '64, University of Minnesota; M.A. '66, University of California, Berkeley. Major: Political Science. Minor: Economics. Thesis: The Revisionist Debate in Contemporary Democratic Theory. Major Adviser: Prof. M. Q. Sibley.

Kootalai Anantha Iyer Natarajan, Palghat, Kerala, India

B.S. '62, University of Kerala; B.E. '64, Indian Institute of Science; M.S. '69, University of Minnesota. Major: Metallurgical Engineering. Minor: Analytical Chemistry. Thesis: The Behavior of Platinum Electrodes as Redox-Potential Indicators in Metallurgical Systems. Major Adviser: Prof. Iwao Iwasaki.

Sidney B. Nelson, Cambridge

B.A. *cum laude* '61, M.A. '63, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: *Nasha: A Study of Administrative Texts of the Third Dynasty of Ur*. Major Adviser: Prof. T. B. Jones.

David Eric Nevalainen, Hibbing

B.S. '66, University of Minnesota. Major: Anatomy. Minor: Pathology. Thesis: The Response of C3H Mice to L1210 Tumor Cells: Cytology and Radioautography. Major Adviser: Prof. R. D. Sundberg.

Chester Wayne Oden, Jr., Lake Elmo

B.S. '54, M.A. '68, College of St. Thomas. Major: Educational Psychology. Minor: Speech-Communication. Thesis: Personality Profiles of Successful Inner-City Teachers and the Appropriateness of the Responses of Pre-Service Teachers of Similar and Differing Profiles to Simulated Inner-City Classroom Situations. Major Adviser: Prof. F. H. Wood.

Gregorio Adan Oestemer, Chile

B.S. '64, Universidad Católica de Valparaíso; M.S. '68, University of Minnesota. Major: Nutrition. Minor: Supporting Program. Thesis: A Reevaluation of the Quantitative Requirements of the Young Pig for Isoleucine and a Study of the Effects of Isoleucine-Leucine Interaction on Isoleucine Requirements. Major Adviser: Prof. L. E. Hanson.

Manley Elmer Olson, St. Paul

B.S. '60, Wisconsin State University; M.A. '65, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Use of Public Funds for Transporting Pupils Who Attend Nonpublic Schools. Major Adviser: Prof. C. P. Hooker.

Ares-Demetrius Paspoularides, Athens, Greece

Major: Physiology. Minor: Chemical Engineering. Thesis: Contribution to the Study of Pulsatile Flows in Large Arterial Branchings. Major Co-Advisers: Profs. R. L. Evans and E. D. Grim.

Michael Matthew Passi, Ely

B.A. '66, M.A. '69, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Mandarins and Immigrants: The Irony of Ethnic Studies in America since Turner. Major Adviser: Prof. D. W. Noble.

Patricia Sullivan Paxton, Bethesda, Md.

B.A. '65, Vanderbilt University. Major: Psychology. Minor: Supporting Program. Thesis: Effects of Drug-Induced Behavior Change in Hyperactive Children on Maternal Attitudes and Personality. Major Adviser: Prof. R. D. Wirt.

Dean Russell Pedersen, Harlan, Iowa

B.S. '63, Iowa State University; M.S. '65, University of New Mexico. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Effect of Density Ratio on Film Cooling Effectiveness for Injection Through a Row of Holes and for a Porous Slot. Major Adviser: Prof. E. R. Eckert.

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Roger Gordon Zurn, Minnetonka

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

Master of Fine Arts

Adyline Johnson Felsted, Minneapolis

B.Mus. '50, MacPhail College of Music. Field of Concentration: Music. Major Adviser: Prof. R. A. Schuessler.

Paul John Flick, Jr., Minneapolis

B.A. '70, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. Zigmunds Friede.

Mary Ellen Jenkins, Minneapolis

B.Mus., B.Mus.Ed. '50, MacPhail College of Music. Field of Concentration: Music. Major Adviser: Prof. R. A. Schuessler.

Donald Bruce McRaven, Jr., Minneapolis

B.A. '69, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. Raymond Hendler.

Zigrida Sloka, Minneapolis

B.F.A. '70, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. K. E. Nash.

Master of Science

Gerald Andrew Augst, Montgomery
B.A. '68, Wartburg College. Field of Concentration: Mathematics. Major Adviser: Prof. Robert Ellis.

Shyrl Blaise Bergstedt, St. Paul
B.A. '49, Carleton College. Field of Concentration: Chemistry. Major Adviser: Prof. W. E. Parham.

Myung Sun Chi, Seoul, Korea
B.Ag. '66, Kon-Kuk University. Major: Animal Science. Minor: Biochemistry. Thesis: Nutritive Value of High Lysine Corn for the Growing Chick and the Laying Hen. Major Adviser: Prof. G. M. Speers.

Rudolph Chester Darling, Bristol, Conn.
B.A. '69, Antioch College. Field of Concentration: Ecology. Major Adviser: Prof. E. J. Cushing.

Gail Anne DeBoer, Milwaukee, Wis.
B.S.N. '67, Alverno College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Larry Allen Demaree, Breckenridge
B.S. '69, University of Minnesota. Major: Forestry. Minor: Industrial Engineering. Thesis: The Influence of Drying Temperature and Extractive Content on Redwood's Dimensional Stability. Major Adviser: Prof. R. W. Erickson.

Merlin Elroy Ekstrom, Bowbells, N.D.
D.V.M. '67, Oklahoma State University. Field of Concentration: Veterinary Pathology. Major Adviser: Prof. H. J. Kurtz.

Mohamed Mahmoud El-Sherif, Cairo, Egypt
B.S.Ag. '65, Cairo Polytechnical Institute. Major: Animal Science. Minor: Biometry. Thesis: Response of Lambs to Protein of Different Sources. Major Adviser: Prof. R. M. Jordan.

Leonard Robert Greger, South St. Paul
B.A., B.S. '65, University of Minnesota. Field of Concentration: Environmental Health. Major Adviser: Prof. D. E. Barber.

Kathleen Ann Holmes, Orinda, Calif.
B.A. '68, College of the Holy Names. Major: Biochemistry. Minor: Biometry. Thesis: A Study of the Effects of Tropicacalcin on the ATPase Activity of Synthetic Actomyosin. Major Adviser: Prof. E. S. Benson.

Haruhisa Ijiri, Osaka, Japan
B.A. '64, Doshisha University. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

Ibrahim M. Jaziri, Tripoli, Libya
B.A. '64, Libyan University. Field of Concentration: Business Administration. Major Adviser: Prof. E. H. Lewis.

Phillip Charles Johnston, Robbinsdale
B.S. '69, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. R. D. Thompson.

Hugh Frederick Juergens, Stillwater
B.S.B. '68, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

George Gerald Klee, Minneapolis
B.S. *summa cum laude* '67, Syracuse University. Major: Biometry. Minor: Related Fields. Thesis: Detection of Distorted Arterial Pressure Waves in Computerized Cardiac Monitoring by a Sum of Curvature Technique. Major Adviser: Prof. Eugene Ackerman.

Douglas William Kuehl, Duluth
B.S. '69, Hamline University. Major: Chemistry. Minor: Internal. Thesis: Phenyl Norbornyl Cations. Major Adviser: Prof. Ronald Caple.

Jon Peter Lake, Rochester
B.A. '67, University of Minnesota. Field of Concentration: Biometry. Major Adviser: Prof. G. E. Bartsch.

Shyi-Shan Lee, Chungwha, Taiwan
B.A. in Econ. '63, M.A. in Econ. '67, National Taiwan University. Field of Concentration: Business Administration. Major Adviser: Prof. John Neter.

Gregory Brant Lie, Richfield
B.A. '69, St. Olaf College. Field of Concentration: Botany. Major Adviser: Prof. D. C. Pratt.

Sau Kwan Chung Lo, Hong Kong
B.A. with honor '68, Hollins College. Major: Physics. Minor: Mathematics. Thesis: Decoupling Scheme for the Heisenberg Magnet in the Paramagnetic Region. Major Adviser: Prof. J. W. Halley.

Mark Steven Lubnau, Detroit, Mich.
B.S. '66, Wayne State University. Field of Concentration: Chemistry. Major Adviser: Prof. John Overend.

Thanthwe Elizarr Makhambera,
Ncheu, Malawi

B.S. '68, University of Massachusetts. Field of Concentration: Animal Science. Major Adviser: Prof. W. E. Rempel.

Rickard Herman Malmberg, St. Paul

B.A. cum laude '69, Augsburg College. Major: Biochemistry. Minor: Chemistry. Thesis: Peptidoglycan Synthesis in Micrococccaceae: In Vitro Studies of Glycan Strand Formation and of Peptide Cross-linking Reactions in *Micrococcus Lysodeikticus* and *Sarcina Lutea*. Major Adviser: Prof. J. S. Anderson.

Enrique Mansilla, Lima, Peru

B. Engr. '66, National University of Engineering. Major: Geology. Minor: Related Fields. Thesis: Paragenesis in the Uchucchacua Mining District, Peru. Major Adviser: Prof. F. J. Sawkins.

Norimoto Nakagawa, Tokyo, Japan

B.E. '68, Nagoya Institute of Technology; M.E. '70, Tokyo Institute of Technology. Field of Concentration: Business Administration. Major Adviser: Prof. C. W. Rudelius.

Henry William Nanne, San José,
Costa Rica

Ing. Agron. '68, University of Costa Rica. Major: Entomology. Minor: Plant Pathology. Thesis: Survival Development and Fecundity of Green Peach Aphid on Wild Solanum Species. Major Adviser: Prof. E. B. Radcliffe.

David Gilmore Nelson, Glidden, Wis.

B.S. with distinction '67, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. R. A. Skok.

Ronald Joseph Ocken, Templeton,
Iowa

B.B.A. '69, University of Iowa. Field of Concentration: Business Administration. Major Adviser: Prof. G. B. Davis.

Roberta Freeman Olander, White
Bear Lake

B.S. '66, Washington University. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Jiwan Paul Palta, Ludhiana, India

B.S. '66, M.S. '68, Punjab Agricultural University. Major: Soil Science. Minor: Plant Physiology. Thesis: Effect of an Asphalt Barrier on Water Redistribution After Infiltration in Sandy Soils. Major Adviser: Prof. G. R. Blake.

Young Chul Park, Korea

B.S. '68, Seoul National University. Major: Genetics. Minor: Biometry. Thesis: Genetic Correlation Between Growth Rate and Feed per Unit Gain in Mice. Major Adviser: Prof. R. E. Comstock.

John Herman Pfund, Madison, Wis.

B.S. '70, Wisconsin State University, Platteville. Major: Plant Breeding. Minor: Plant Pathology. Thesis: Comparative Performance of Tall and Semi-Dwarf Barley Varieties in Various Planting Arrangements. Major Adviser: Prof. D. C. Rasmusson.

Sharon Lynn Pontious, Coon Rapids

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

Edward Gregory Rodgers, Sacramento,
Calif.

B.S. '68, University of California, Davis. Major: Chemistry. Minor: Mathematics. Thesis: Application of Harris Method to Potential Resonances. Major Adviser: Prof. J. S. Dahler.

George Michael Satovich, Cuyuna

B.A. '68, St. Cloud State College. Major: Physics. Minor: Internal. Thesis: $K^+ K^-$ Spectrum for $\pi^+ p$ Interaction at 3.65 GEV/C. Major Adviser: Prof. Keith Ruddick.

Ronald Charles Severson, Walnut
Grove

B.S. '67, University of Minnesota. Major: Soil Science. Minor: Geography. Thesis: A Characterization of a Soil Biosequence in Northwestern Minnesota. Major Adviser: Prof. H. F. Arneeman.

Hans Raj Taneja, Delhi, India

B.S. '64, M.S. '66, University of Delhi. Major: Chemistry. Minor: Internal. Thesis: The Synthesis of Dihydro-Y-Pyrones. Major Adviser: Prof. R. M. Carlson.

Sally Martha Vogel, New Ulm

B.S. '70, University of Minnesota. Field of Concentration: Home Economics. Major Adviser: Prof. M. D. Doyle.

James Conrad Wolf, Newark, N.J.
B.S. '68, Pennsylvania State University. Major: Plant Pathology. Minor: Biochemistry. Thesis: Regulation of the Sexual Stage in *Fusarium roseum* 'graminearium.' Major Adviser: Prof. C. J. Mirocha.

James Lee Wolf, St. Paul
B.Phys. with high distinction '69, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: An Electron-Proton Spectrometer for Studies of the Trapped Radiation. Major Adviser: Prof. J. R. Winckler.

Galen L. Youngsma, Chandler
B.A. cum laude '66, Augustana College. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. W. D. Munro.

Master of Science in Aerospace Engineering

Danfield Eugene Rodenz, Spring Valley

B.A.E. with distinction '70, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: The Influence of Particle Size and Bounding Walls on Flow Through Porous Media. Major Adviser: Prof. G. S. Beavers.

Master of Science in Agricultural Engineering

Eugene Joseph Retka, Le Sueur
B.Ag.Engr. with high distinction '68, University of Minnesota. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: Some Aspects of the Use of Thermal Water for Subsurface Irrigation. Major Adviser: Prof. E. R. Allred.

Glenn Stanley Warner, Bonaparte, Iowa
B.S.Ag.E. '67, Iowa State University. Major: Agricultural Engineering. Minor: Related Fields. Thesis: A Comparison of Rainfall and Runoff Frequencies. Major Adviser: Prof. C. L. Larson.

Master of Science in Chemical Engineering

Dragomir Branislav Bukur, Beograd, Yugoslavia
Dipl.Eng. '70, University of Belgrade. Major: Chemical Engineering. Minor: Mathematics. Thesis: Some Special Consideration of Yamouchi Problems Involving the Transient Motion of the Water Film on a Metal Surface. Major Adviser: Prof. H. S. Isbin.

Paul William Kamienski, Warren, Mass.
B.S. cum laude '69, University of Massachusetts. Major: Chemical Engineering. Minor: Mathematics. Thesis: Impact Electrification of Particles. Major Adviser: Prof. W. E. Ranz.

Annavarapu Shivram Murty, Bombay, India
B.Tech. with honors '69, Indian Institute of Technology, Bombay. Major: Chemical Engineering. Minor: Mathematics. Thesis: Interfacial Phenomena Associated with Reactions in Two Phase Liquid-Liquid Systems. Major Adviser: Prof. W. E. Ranz.

Vaclav Petr Zabransky, Prague, Czechoslovakia
Dipl.M.E. '65, Czechoslovak Technical University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Kinetics of Methylene Radical Reactions and Intersystem Crossing in Ketene. Major Adviser: Prof. R. W. Carr, Jr.

Master of Science in Civil Engineering

Clayton Leroy Anderson, Coon Rapids
B.S. with distinction '65, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. H. G. Stefan.

Harald Paul Bakke, Minneapolis

B.C.E. '53, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. L. E. Goodman.

Mohamad Nazmi Adel Sharabi, Damascus, Syria

B.S.C.E. '68, Damascus University. Field of Concentration: Civil Engineering. Major Adviser: Prof. P. P. Christiano.

Einar Skare, Sauda, Norway

B.S. with honors '70, South Dakota School of Mines and Technology. Major: Civil Engineering. Minor: Mathematics. Thesis: The Analysis of a Shear Wall of Unusual Shape. Major Adviser: Prof. L. E. Goodman.

Master of Science in Dentistry

Richard Kenneth Check, Minneapolis

D.D.S. '67, University of Iowa. Major: Dentistry. Minor: Anatomy. Thesis: Experimental Study of Collateral Circulation in the Tibia of Dogs. Major Adviser: Prof. D. E. Waite.

Joseph Alan Fiedler, Edina

D.D.S. '70, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Variation in Dental Relationships Among Extreme Antero-Posterior and Vertical Skeletal Patterns. Major Adviser: Prof. R. J. Isaacson.

Darrell William Zenk, St. Paul

B.S., D.D.S. '67, University of Minnesota. Major: Dentistry. Minor: Microbiology. Thesis: The Feasibility of the Use of Cyanoacrylate as an Endodontic Filling Material. Major Adviser: Prof. J. R. Jensen.

Master of Science in Electrical Engineering

Leonard Wayne Haseman, New Brighton

B.S.E.E. '66, University of Missouri. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. L. Kinney.

Master of Science in Geo-Engineering

Wayne Leonard Johnson, Two Harbors

B.Geol.E. with high distinction '70, University of Minnesota. Field of Concentration: Geo-Engineering. Major Adviser: Prof. D. H. Yardley.

Master of Science in Industrial Engineering

Jesus Ignacio Gonzalez, Monterrey, Mexico

Ing.Mec.Elec. '69, Ing.Mec.Adm. '70, Monterrey Institute of Technology. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Harold Marvin Nelson, Apple Valley

B.S. '57, United States Naval Academy. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Master of Science in Mechanical Engineering

Gary Richard Knowles, Morgan

B.M.E. with distinction '69, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Study of a Transpiration-Cooled Arc with Multiple Plenum Chambers. Major Adviser: Prof. Emil Pfender.

Vijay Sadanand Kogekar, Bombay, India

B.E. '70, University of Bombay. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. Liu.

Ashok Umanglal Mehta, Bombay, India

B.M.E. '70, University of Baroda. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. W. A. Kleinhenz.

Rajendra Kumar Modi, Sirohi, India

B.E. with honors '70, University of Jodhpur. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

James R. Winslow, Two Harbors

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

Master of Science in Medicine

Manley Cohen, Long Beach, Calif.

B.M.B.Ch. '60, University of the Witwatersrand. Major: Medicine. Minor: Biochemistry. Thesis: Studies of Human Gastric Lipolysis of Medium and Long Chain Triglyceride. Major Adviser: Dr. A. F. Hofmann.

Master of Science in Mineral Resources Engineering

James Thomas March, Anchorage,
Alaska

B.S. '66, University of Alaska. Field of Concentration: Mineral Resources Engineering. Major Adviser: Prof. E. P. Pfeider.

Master of Science in Orthopedic Surgery

Robert Leland Kruse, Mt. Vernon,
Iowa

B.A. '62, Cornell College; M.D. '66, Northwestern University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Effect of Venous Tourniquet on Healing of Tibial Fractures in Dogs. Major Adviser: Dr. P. J. Kelly.

Certificate of Specialist in Education

Richard Ervin Lawrence, Brooklyn
Center

B.S. with honor '59, M.S. '62, Mankato State
College. Field: Business Education. Major Ad-
viser: Prof. C. R. Hopkins.

Anne Marie Matthews, Burnsville

B.S. *cum laude* '62, M.A. '70, University of
Minnesota. Field: School Psychological Ser-
vices. Major Adviser: Prof. M. D. Hall.

Herbert Lee Millington, Jr., White
Bear Lake

B.S. '63, University of Minnesota; M.A. '69,
College of St. Thomas. Field: Secondary
School Administration. Major Adviser: Prof.
N. C. Nickerson.

COLLEGE OF AGRICULTURE

Bachelor of Science

Myles Gregory Bakke, Minneapolis

Charles Thomas Behrens, Marietta

Marvin Phillip Bernau, Emmons

Bruce Raymond Bigalk, Harmony

David Franklin Blomquist, North
Branch, WITH DISTINCTION

Mark Richard Eggimann, Jackson,
WITH HIGH DISTINCTION

James Curtis Franklin, Wendell

Curtis Lawrence Ganz, Swanville

Daniel Leonard Grant, A.A., Austin

Mike Anton Guggisberg, Gibbon

Carlton Everett Gustafson, Bird Island

Wayne Grant Hartman, Taopi

Wayne Roger Hauschild, Hendricks

Richard James Horihan, Lanesboro

Curtis Howard Kees, St. Paul

Keith Eugene Knight, Adams

David Reid Matthies, A.Ag., New
Richland

Stephen Harold Mickelson, Bloom-
ington

LeLon Van Naylor, Villard

Richard Myles Nelson, Redwood Falls,
WITH DISTINCTION

Mark George Obermeyer, Walters

Sara Leslie Olson, Edina

Glenn Martin Ostman, International
Falls

Merlin Everaldo Peterson, St. Paul

John Eugene Remmele, Echo

Gordon Dale Ruskell, Jackson

Joseph Henry Schlick, St. Martin,
WITH HIGH DISTINCTION

Harold Frederick Schroeder, Monti-
cello

Mark Milton Schutte, Dawson

Charles Robert Schwartau, Goodhue,
WITH DISTINCTION

Legodile Ernest Serema, Palabye, Bots-
wana

Robert Ayres Sheppard III, St. Paul,
WITH HIGH DISTINCTION

Owen Jerome Skelly, Cohasset, WITH
DISTINCTION

Gary Allen Stromley, Hector

Arlo Paul Thompson, Kensington,
WITH HIGH DISTINCTION

Gary Anton Thurnau, Owatonna

Daryl Lee Viland, Pipestone

Dwayne Richard Wienrank, A.A.,
Worthington

Ronald Carl Zitzow, B.S., Dover

Thomas George Zych, Graceville

**COLLEGE OF AGRICULTURE AND
COLLEGE OF BUSINESS ADMINISTRATION**

Bachelor of Agricultural Business Administration

Palmer Milloy Welcome, A.A.,
Welcome

**COLLEGE OF AGRICULTURE AND
COLLEGE OF EDUCATION**

Bachelor of Science

Gary V. Luebke, A.A., Kenyon
James Ivan Nickel, A.A., Worthing-
ton, WITH DISTINCTION

Darrell Duane Ogilvie, Blue Earth

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Miriam Rich Anderson, Mount Croco-
dile, Ill.
Sarah Evelyn Armstrong, Wayzata
Dale Russell Benson, Columbia
Heights

Mary Cecilia Pazzelli, Virginia
Nancy Ann Richardson, Minneapolis
Ronald Ross Runck, Minneapolis,
CUM LAUDE, *Biology*

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Craig E. Anderson, Anoka
Howard James Anderson, Excelsior
Lyle Norman J. Anderson, Blue Earth
Frederick Newton Armstrong, Jr.,
Bloomington
Eugene Francis Arnt, North St. Paul
Richard Pennig Artes, St. Paul
Donald Ervin Baltus, B.Ch.E., Minne-
apolis, WITH DISTINCTION
Reginald Glen Berg, St. Louis Park
John Joel Bergeson, St. Paul
Robert Adam Borowski, Crystal
Robert Floyd Bravinder, Jr., Minne-
apolis

Richard Earl Bredehoff, Minneapolis,
WITH DISTINCTION
William David Bren, Hopkins
Walter William Christiansen, Prior
Lake
Katherine Ann Clinton, Minneapolis
Leonard Charles Crowe, A.A., Foley
Richard William Curry, Minneapolis
Thomas Howard Denny, Minneapolis
Catherine Dolores Disch, Minneapolis
Thomas Edmund Doten, Robbinsdale
Edward Joseph Downing, St. Paul
James Emmett Driscoll, Minneapolis
Michael Robert Finn, Minneapolis

Martin Patrick Flaherty, Minneapolis
 Gregory Harold Gardner, St. Paul
 John Bradley Goodman, St. Louis
 Park, WITH DISTINCTION
 Gerry Bruce Hagar, A.A., Minneapolis
 Michael Kenneth Hagberg, Blaine
 Craig Allan Halweg, St. Paul
 JoAnn Sue Hawkins, St. Paul
 George Arthur Hokanson, A.A., Min-
 neapolis
 Thomas Richard Hurley, Minneapolis
 James Ivan Johnson, Forest City, Iowa
 Susan Kay Johnson, Richfield
 Susan Mary Johnson, St. Paul
 William Charles Johnson, Lindstrom
 James Reid Joiner, St. Paul
 Grady Lee Kinghorn, Coon Rapids
 Gordon Joseph Kircher, B.A., St. Paul,
 WITH DISTINCTION
 Michael Allen Koep, Minneapolis
 Kenneth James Kramer, Brainerd
 Richard Joseph Krautkremer, Bloom-
 ington
 Jay Ronald Landy, Minneapolis
 Vincent John Long, Jr., St. Paul
 David Charles Mariette, Excelsior
 Gary Victor Martin, A.A., Brainerd
 Scott Dana Meriwether, Excelsior,
 WITH DISTINCTION
 Gary Lynn Merritt, Minneapolis
 John Milton Meyer, A.A., St. Paul
 Richard George Morin, Minneapolis
 Mark Arthur Morris, Edina
 Bill Louis Moses, Minneapolis
 Dallas Harry Moyer, Lake City
 Kirk William Nelson, St. Paul
 Bruce Guy Ohman, Minneapolis
 Ward Hayden Olson, Hutchinson
 Gregory Philip Ovik, Minneapolis
 Mark Joseph Peterka, Aurora
 Byron Lloyd Raynie, Richfield, WITH
 DISTINCTION
 Thomas John Resch, St. Paul
 Dennis Kingsley Sanford, St. Paul
 John Cyril Schwebach, B.A., Minne-
 apolis
 Scott Joe Seiberlich, St. Paul
 Richard Michael Seymour, Minne-
 apolis
 Stanley Lawrence Sieberg, A.A., St.
 Paul, WITH DISTINCTION
 Myron Malcolm Simonson, Benson
 David Michael Sirknen, North Branch
 Virgil Edwin Smit, A.A., Minneapolis
 John George Stanson, Montevideo
 Peter Michael Stanek, Minneapolis
 Michael Duane Steege, St. Louis Park
 Gaylord Sig Strand, Minneapolis
 Lynn Marie Thorn, Mora, WITH HIGH
 DISTINCTION
 Louis Robert Tilton, St. Paul
 Ronald Benjamin Tlougan, Byron
 Gregory John Tollefsrud, Minneapolis
 Lawrence Harvey Tveten, B.E.E.,
 Wayzata
 Jan Paul Vanderwall, Minneapolis
 Gary Allen Walz, St. Paul
 James Charles Yackley, Minneapolis
 Michael John Znameroski, Virginia,
 WITH DISTINCTION

CONTINUING EDUCATION AND EXTENSION

Business Administration Certificate

Richard Campbell Hooker, Circle
Pines

Alvin Joseph Sadecki, Minneapolis
Robert Eugene Wolff, Edina

Senior Business Administration Certificate

Richard Allen Whiting, Hopkins

Social Work Certificate

Robert Joseph Busek, St. Paul

**Undergraduate Development Certificate in
Electrical Engineering—90 Credits**

Merlin W. Harjes, Minneapolis

**Undergraduate Development Certificate in
Engineering and Science—90 Credits**

Richard Anthony Starzynski, St. Paul

SCHOOL OF DENTISTRY

Doctor of Dental Surgery

Jeffery Allan Buchholz, B.A., International Falls
Michael L. Hamann, B.S., Willmar
Thomas Raymond Horton, B.S., Grand Rapids

James Anthony Schorn, B.A., B.S., Jordan

COLLEGE OF EDUCATION

Bachelor of Science

Carolyn June Ahlstrom, Braham
Karen Loraine Anderson, Minneapolis,
WITH HIGH DISTINCTION
Lianne Mae Anderson, St. Paul
Susan Kay Anderson, Golden Valley,
WITH DISTINCTION
Judy Ann Antoine, Minneapolis
Mary Ellen Arvanitis, St. Paul
Sheila Rae Labofsky Atlas, St. Louis
Park, WITH DISTINCTION
David Tousley Barth, Minneapolis
Virginia Pedersen Beard, St. Louis
Park, WITH DISTINCTION
Ronald David Bohm, Cambridge,
WITH DISTINCTION
Carol Jean Borne, Minneapolis, WITH
DISTINCTION
Robert Dennis Branton, Minneapolis
Bonnie Lee Bursch, Minneapolis,
WITH DISTINCTION
Patricia Jeanne Carlson, Minneapolis

Richard James Cherveney, A.A., St.
Paul, WITH DISTINCTION
Clare Barbara Christensen, Minne-
apolis, WITH HIGH DISTINCTION
Mary Chrun, St. Paul
Deborah Ann Cohen, Brooklyn Cen-
ter, WITH DISTINCTION
Thomas Arthur Cooper, Lake Worth,
Fla., WITH DISTINCTION
Susan Elizabeth Cowell, Minneapolis,
WITH DISTINCTION
Dean Marshall Dainsberg, Benson,
WITH DISTINCTION
Sylvia Alice Dalbey, Mora
Rita Marie Davern, St. Paul, WITH DIS-
TINCTION
Thomas Sims Denison, Minneapolis,
WITH DISTINCTION
Mary Jennifer Dinsmore, Owatonna,
WITH DISTINCTION
Cynthia Ellen Kraemer Draper, Min-
neapolis

Caren Mindy Elin, New York, N.Y.
 Nada Jean Engquist, Chisago City,
 WITH DISTINCTION
 Orpha M. Erdahl, Hopkins, WITH
 HIGH DISTINCTION
 Evelyn Bipes Etter, Richfield, WITH
 DISTINCTION
 LaVerne Mary Farrell, North St. Paul
 Dallas Stephen Felegy, Minneapolis,
 WITH DISTINCTION
 Bonnie Jean Ferguson, West Concord,
 WITH HIGH DISTINCTION
 Donna Kay Fiscus, Minneapolis, WITH
 DISTINCTION
 Melody Ruth Foley, Minneapolis,
 WITH DISTINCTION
 Janice Follett, Minneapolis, WITH DIS-
 TINATION
 Mary Carole Fortney, St. Paul, WITH
 DISTINCTION
 Ellen Maureen Hayden Graber, Min-
 neapolis
 Louise Christine Gresback, St. Paul,
 WITH DISTINCTION
 Inese Konstance Grikis, Duluth
 Barbara Ann Grossman, St. Louis Park
 Ernest Stanley Gulner, St. Paul
 Kenneth Gerald Hakanson, B.A., Min-
 neapolis
 Jack Gilman Halvorson, Chatfield,
 WITH HIGH DISTINCTION
 Fred Emil Harms, Minneapolis, WITH
 HIGH DISTINCTION
 Susan Elizabeth Havelak, Minneapolis,
 WITH DISTINCTION
 Alvin Ray Hawes, Minneapolis
 Patricia Anne Heath, Minneapolis,
 WITH DISTINCTION
 Sandra Kohls Hendrickson, Minne-
 tonka, WITH HIGH DISTINCTION
 Jean Marie Flescher Hoffman,
 Omaha, Neb.
 Katherine Ann Johannes, Minneapolis
 Bonnie Kay Burton Johnson, Minne-
 apolis
 Perry James Juenemann, B.A., Min-
 neapolis
 Candice Jean Kallio, Minneapolis,
 WITH DISTINCTION
 Victoria Kanavati, St. Paul
 Laurel Mae Karel, St. Paul, WITH
 DISTINCTION
 Mark Jeffrey Karon, St. Paul, WITH
 DISTINCTION
 Susan Linnea Karpe, Minneapolis,
 WITH DISTINCTION
 Kathleen Louella Keith, Crystal Bay
 Rita Ann Keltgen, Minneapolis,
 WITH DISTINCTION
 Katherine Knopke, New Ulm
 Kathryn Ann Flugaur Kolbo, A.A.,
 Minneapolis, WITH DISTINCTION
 Darlene Kay Kooiman, Edgerton,
 WITH DISTINCTION
 Mary Margaret Koopman, Belle
 Plaine
 Adell Hollman Langenfeld, A.A.,
 Fridley
 Curtis Everett Larson, Jr., A.A.S.,
 Minneapolis, WITH DISTINCTION
 Sharon Ann Leahy, Minneapolis
 Stephen Michael Lenarz, Minne-
 apolis
 Keith Gaylord Libby, St. Paul
 Linda Carol Ludtke, B.A., Morgan
 Donald Keith Macher, Rochester,
 WITH DISTINCTION
 Mary Elizabeth Goehringer Malone,
 A.A., Minneapolis
 Genell Alice Martin, Richfield, WITH
 DISTINCTION
 Lawrence Frederick McCarty, Min-
 neapolis
 Dennis John McDonough, A.A.,
 St. Paul
 Carol Ashford Mellon, Minneapolis,
 WITH DISTINCTION
 Marvin Adrian Miller, St. Cloud
 Kathy Sue Mohr, Morris
 Jane Kathleen Moran, Deephaven
 Ruth Margaret Rohrer Morgan,
 Lewiston, WITH DISTINCTION
 Sandra Lea Wittman Morgan, A.A.,
 Willmar
 Teresa Ann Moritz, Minneapolis,
 WITH DISTINCTION
 Jay Allan Mortensen, Crystal, WITH
 HIGH DISTINCTION
 Marion Jo London Mowry, Minne-
 apolis
 Linda Rae Boyum Nelson, Roseville

Ann Carol Olson Nielsen, Minneapolis
 Lois Marie Norton, Mahtomedi,
 WITH DISTINCTION
 Jane Ellen Oberg, Richfield
 Carol Jean Olson, Richfield,
 WITH DISTINCTION
 Kenneth Woodruff Page, Minneapolis, WITH DISTINCTION
 Gretchen Mary Palmen, Wabasha,
 WITH DISTINCTION
 Roger Thomas Peterson, Jr., Minneapolis
 Susan Terry Potter, Morgan
 Nancy Lee Kammerman Pratt, Fridley,
 WITH DISTINCTION
 Lawrence Edmund Probst, A.A., B.A.,
 St. Paul
 Michael Joseph Prosnick, Minneapolis
 Larry Reich, A.A., St. Paul, WITH
 DISTINCTION
 Raleigh Evonne Ressen, Minneapolis
 Richard Dean Reuter, B.A, Minneapolis
 Patricia Anne Riley, St. Paul
 Nancy Lee Trowbridge Rinderknecht,
 Brooklyn Center, WITH DISTINCTION
 Robert Edward Ruth, Jr., St. Paul,
 WITH DISTINCTION
 Linda Mulholland Ryan, Minneapolis,
 WITH DISTINCTION
 Lynn Bruce Salisbury, Ortonville,
 WITH HIGH DISTINCTION
 Margaret Clare Sanford, Minneapolis
 Beth Ann Scherkenbach, Virginia,
 WITH HIGH DISTINCTION
 June Caroline Schultz, St. Paul,
 WITH HIGH DISTINCTION
 Lonna Mae Schultz, A.A., Pequot
 Lakes
 Charlotte Crist Schwartz, Austin
 Ronald James Schwartz, Minneapolis

Susan Ellen Sherman, Minneapolis
 Roberta Jean Smolin, Peekskill, N.Y.,
 WITH HIGH DISTINCTION
 James Wallace Steele, Columbia
 Heights, WITH DISTINCTION
 Joan Esther Steen, Minneapolis,
 WITH DISTINCTION
 Marilyn Mason Stelli, Deephaven,
 WITH DISTINCTION
 Alison Joan Stendahl, Edina, WITH
 DISTINCTION
 Richard Michael Stewart, Minneapolis
 Sharon Marie Thompson, Mound
 Donald Brian Timm, Burnsville,
 WITH DISTINCTION
 Laurel Ann Trach, St. Louis Park
 Susan Mae Turbenson, Elk River,
 WITH DISTINCTION
 Jerome Richard Urbaniak, A.A.,
 St. Paul, WITH DISTINCTION
 Joan Catherine Velander, Richfield
 Margaret MacKenzie Velky, B.S.,
 White Bear Lake, WITH DISTINCTION
 Mary Catherine Vogt, Newport,
 WITH DISTINCTION
 Jenifer Elizabeth Von Bank, Albert-
 ville
 Donna Eileen Wandersee, Minneapolis,
 WITH HIGH DISTINCTION
 Susan Kay Weberg, Brooklyn Center,
 WITH DISTINCTION
 John Kelley Weston, Coronado,
 Calif., WITH DISTINCTION
 James Donald Wikstrom II, St. Paul,
 WITH DISTINCTION
 Mary Joanne Willems, Cologne
 Sylvia Alyce Wilson, Brooklyn Park,
 WITH HIGH DISTINCTION
 Dean Edwin Wollmuth, Clarkfield
 Mariel Louise Wolter, Minneapolis,
 WITH DISTINCTION

Master of Education

Rebecca Ruth Dalluge, B.A., Minneapolis

COLLEGE OF FORESTRY

Bachelor of Science

David Paul Austin, *International Falls*, WITH HIGH DISTINCTION
Richard Patrick Axtman, Minneapolis
Michael Ralph Boyd, St. Paul
Thomas Raymond Danger, Braham
Lawrence Joseph Donovan, Minneapolis
William Scott Hayes, Forest Lake

Daniel William Hurley, *Richfield*, WITH HIGH DISTINCTION
Mark Stephen Jensen, *Barron, Wis.*, WITH HIGH DISTINCTION
Stephen Charles Kartak, Hopkins
Ramon Delbert Killmer, Big Falls
Larry Allan Kotchman, *Cavalier, N.D.*
David Curtis Nelson, Minneapolis

GENERAL COLLEGE

Associate in Arts

Thomas Stanley Badiner, St. Louis Park
Richard Bryan Bakke, Minneapolis
John Edward Behmler, Mound
Mark Carney, Minneapolis
David Steven Dahle, St. Louis Park
Stephen Patrick Ditty, Minneapolis
Ronald Stuart Doran, West St. Paul
Patricia Louise Edstrom, Minneapolis
Charles Rowland Eggert, Minneapolis
Sheryl Sue Frankel, St. Paul
Lynn Marie Hager, Minneapolis
Patricia Ann Hager, St. Paul
Annette Marie Hammer, Minneapolis
Dennis David Hoffa, St. Paul
Bunny Rochelle Homa, St. Paul
Robert James King, Minneapolis
William Jay Laden, Golden Valley
Scott Anthony Larson, Hopkins
Cary Marvin Libman, St. Paul
Joanne Kathryn Marusich, St. Paul

Charles Edward Metz, St. Paul
Gary Reed Meyer, Minneapolis
Lilene Elizabeth Moore, Minneapolis
Thomas Joseph O'Rourke, St. Paul
Susan Lorraine Pierson, Minneapolis
Virginia Ann Polski, St. Paul
John Burdick Ritzinger, Jr., St. Paul
Harold Rosenzweig, St. Paul
Michael Thomas Rowland, Bayport
Diane Lee Rubenstein, Minneapolis
Donna Lou Rubenstein, St. Louis Park
Timothy Naumann Schmalz, St. Paul
Janet Arlene Shuberg, Minneapolis
Gregory Lawrence Skog, St. Paul
Charles Robert Van Hoven, St. Paul
Edward Thomas Westin, St. Paul
Gary Lee Wold, St. Louis Park
Mary Kay Wussler, St. Paul
Connie Mae Zweigbaum, St. Louis Park

Bachelor of Applied Studies

Robert Earl Howard, A.A., St. Paul

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Leigh Ann Austin, St. Paul
Cari Jane Christenson, Edina
Julie Ann French, Minneapolis
Christine A. Gabrielson, Minneapolis
Vicki Lynne Goldstein, Minneapolis
Adele Marie Harmon, Rush City
Anne Marie Hegle, Minneapolis
Missale Kumelachew, Addis Ababa,
Ethiopia
Susan Marie Lackner, St. Paul
Mary Elizabeth Ludwig, Cannon Falls

Darlene Esther Nosco, Minneapolis
Marianne Marie Pritchard, Minneapolis
Elizabeth Jean Strait, St. Paul,
WITH DISTINCTION
Linda Carole Swanson, Ada
Joanne Estelle Theis, Minneapolis,
WITH DISTINCTION
Diane Elaine Wasser, Minneapolis
Patricia Jean Weber, St. Paul

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Bachelor of Science

Sharon Lee Beckstrom, Bloomington,
WITH HIGH DISTINCTION
Barbara Elizabeth Glass, St. Paul,
WITH DISTINCTION
Cheryl Elaine Hauschild, Hendricks,
WITH DISTINCTION
Elaine LeAnn Hendrickson, Minneapolis,
WITH HIGH DISTINCTION
Kathleen Ann Kratz, Minneapolis
Cleo Faye Nelson, B.S., Richfield,
WITH HIGH DISTINCTION

Shirley Grace Hagg Olson, Isanti,
WITH HIGH DISTINCTION
Donna Jean Pechacek Proeschel,
Willmar
Linda Joanne Salmela, Sebeka
Nancy Lee Vietor, Stillwater
Jana Grace Williams, St. Paul, WITH
DISTINCTION

LAW SCHOOL

Juris Doctor

Peter Tobias Kahn, B.A., Minneapolis

William Peter Zuger, B.A., Minneapolis

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Richard Douglas Cairnes, St. Paul
James Timothy Flescher, Minneapolis
Esther Dortha Gieschen, Randolph
Carl John Gramentz, Springfield
Scott John Linsley, St. Paul

Eleanor May Sirvas Marlow, Newport
Jeffrey Stuart Murman, Minneapolis
Belinda Denise Pinck, Minneapolis
David Chester Sikorski, Minneapolis
Marilyn Anne Smith, Babbitt
Kathryne Ann Szczeck, Minneapolis

Bachelor of Arts

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

Lynne Mary Abramson, Minneapolis
Bonita Kay Ahlquist, Minneapolis
Thomas Kevin Allen, Minneapolis
Susan Meredith Alnes, Minneapolis
Paul Mark Andersen, Minneapolis
James Robert Anderson, St. Paul,
SUMMA CUM LAUDE, History
Joseph Wayne Anderson, Cedar
Kent Joseph Anderson, Edina
Jack Appleman, Minneapolis
Thomas Henry Arendt, Mazepa
David William Arpi, Virginia, MAGNA
CUM LAUDE, Economics
Joan J. Aul, Hutchinson
Mary Frances Bailey, Tulsa, Okla.
Michael Francis Baker, St. Paul
Robert Henry Banktson, Bloomington
Jeffrey Paul Barron, Minneapolis
Miranda Io Barton, Minneapolis
Martha Bauer Baskin, Minneapolis
Susanne Jeanne Baumtrog, Minneapolis
Lloyd Reid Beardsley, Rochester
Katherine Alice Benson, Fort Collins,
Colo., SUMMA CUM LAUDE, Child
Psychology
John Allen Berg, Clearbrook
Robert Edward Bergeron, St. Paul
Jeffry Dennis Bergin, Cloquet,
SUMMA CUM LAUDE, English
Lawrence Henry Berle, Minneapolis
Thomas Michael Bienemann, Wil-
mette, Ill.
Susan Lorraine Blank, Bloomington
Judith Bergmann Blomquist, St. Paul

Daniel Roy Bloomquist, Golden
Valley
Juanita Valarae Bolland, Detroit
Lakes, CUM LAUDE, History
Marietta Rose Bongiovanni, St. Paul
Christine Elizabeth Born, Minne-
apolis
Henry Jerome Brandis, St. Paul
Kristine Louise Bruer, Edina
Michael H. Buol, St. Paul
Paul Durant Butler, Mankato, MAGNA
CUM LAUDE, Economics
Patrick Joseph Carey, A.A., Minne-
apolis
Dennis Gerald Carlson, West St. Paul
Lyle David Chapin, Dodge Center
Kent Edwin Charpentier, St. Paul
Marilyn Chesnik, Minneapolis
John Chrun, St. Paul
Nathan Kenneth Churchill, San
Francisco, Calif.
James Dennis Cleary, Sleepy Eye
Charles Arne Cline, Minneapolis
Cathy Mae Colbeck, Prior Lake
Jonathan Almy Coleman, Berkeley,
Calif.
Carol Delores Conrad, Minneapolis
Robert Edward Cook, West St. Paul
David Michael Corredato, Minne-
apolis
David Ralph Costanzo, St. Paul
Susan Elizabeth Cowell, Minne-
apolis
Jeffrey Donald Cramer, A.A.,
St. Louis Park

Thomas Alan Cronk, A.A., Minneapolis
 Gretchen Wiencke Crowder, Minneapolis
 Stephen Carl Dahl, New Brighton
 Howard Bruce Dahlberg, Coon Rapids
 Kathryn June Dean, Minneapolis
 Paul Ray Deaven, Bloomington
 Richard Ralph DeBlicck, Minneapolis
 Richard Frank Dehn, A.A., St. Paul
 James Michael Delebo, Edina
 Chester Wallace Deschane, Bloomington
 Larry Stephen Dietz, Glencoe
 Robert Burton Dillard, Jr., Minneapolis, MAGNA CUM LAUDE, *History*
 Rita Elizabeth Donohue, St. Paul
 Linda S. Druck, St. Paul
 Margaret Claire Ducharme, Minneapolis
 Kathleen Gail Durkee, Hutchinson
 Jessica Noel Duscha, St. Paul
 Daniel Walter Eilola, Virginia
 Juliana May Elchert, St. Cloud
 Gary Alan Englund, Minnetonka
 Harold Alexander Erickson, Minneapolis
 Stanley Howard Estrin, St. Louis Park, SUMMA CUM LAUDE, *Mathematics*
 Richard Paul Farnell, St. Paul
 Darrell Raymond Feela, Minneapolis
 David William Feigal, Palo Alto, Calif., SUMMA CUM LAUDE, *Psychology*
 Scott Marvin Fischer, Minneapolis
 Mary von Neufville Flinsch, Minneapolis
 Terry David Frazier, A.A., Ironton
 Richard Joseph Frey, Jr., Minneapolis, CUM LAUDE, *Economics*
 Paul Thomas Frid, Brainerd
 Timothy Rudolph Fugina, Roseville
 Constance Fuller, St. Paul
 Cecilia Wing-Han Fung, Hong Kong, MAGNA CUM LAUDE, *Geography*
 Judith Ann Gardner, A.L.A., G.D.H., St. Paul
 Bruce Robert Gefvert, Minneapolis
 Earl J. Getsug, A.L.A., St. Paul

John Phillip Giese, Minneapolis
 Barry Lynn Gillespie, Owatonna
 Michael Scott Gilliland, Pipestone, SUMMA CUM LAUDE, *Speech*
 Barbara Ann Ginner, Minneapolis
 Carol Hilda Glewwe, Mendota Heights
 Douglas Charles Grabham, Minneapolis
 James Emery Graca, Minneapolis
 Barbara Joan Grahm, St. Paul
 Galen George Grant, St. Paul, CUM LAUDE, *Architecture*
 Elizabeth Jane Green, Aberdeen, S.D.
 Constance Fritz Gremore, Minneapolis, MAGNA CUM LAUDE, *English*
 Barry Kenneth Grimm, Minneapolis
 Elena Yolanda Grof-Tisza, Minneapolis
 Heidi Sue Gustafson, Edina, CUM LAUDE, *Humanities*
 John Peter Halfen, St. Paul
 Wendy Jo Halper, St. Paul
 Patricia Snyder Halsor, Bloomington, MAGNA CUM LAUDE, *Social Welfare*
 Dorothy Jean Halvorson, Anoka, MAGNA CUM LAUDE, *Psychology*
 Richard Pearson Hames, Minneapolis
 Elsbeth Ann Hanenberger, Rochester
 Stephen Jay Hansen, Brooklyn Park
 Thomas Lee Hanson, Frost
 Danny Lee Harrison, Minneapolis
 Michel Colburn Harry, Minneapolis
 Charles Matthew Hartfiel, Minneapolis
 Robert James Hartman, Detroit Lakes
 Mark Donald Hauge, Stillwater, MAGNA CUM LAUDE, *Microbiology*
 Beverly Elizabeth Hauschild, Minneapolis
 James Ivan Hedine, Alexandria
 Robert Myron Heine, Minneapolis
 Sheila Ann Heintz, Mankato
 Teresa Ann Helmstetter, Roosevelt, MAGNA CUM LAUDE, *Anthropology*, and CUM LAUDE, *Studio Arts*
 Nancy Louise Henkel, Minneapolis
 Paula Marie Henry, St. Cloud
 Stephen Paul Hernick, Minneapolis

Richard Walter Emil Heuer, St. Paul,
MAGNA CUM LAUDE, Economics
Robert Lawrence Heuer, St. Paul
Bill Lee Holen, International Falls
Helen Holubka, Minneapolis
Helen Dorr Holzer, St. Paul
Larry Huff, Elizabethtown, Ky.
Elizabeth Ann Huss, Minneapolis
Patrick Paul Irestone, St. Paul
Patrick Edward Jacoby, Detroit Lakes
Cheryl Jane Johnson, Cloquet
Darryl August Johnson, Princeton,
SUMMA CUM LAUDE, English
Ellen Elizabeth Johnson, Minne-
apolis
Uerjo Karia, Minneapolis
Mary Reasbeck Keifenheim, Minne-
apolis
Richard Jay Kelber, Minneapolis
Deborah Lou Keltgen, Minneapolis
Patricia Ann Kerlin, St. Paul
Gerald Alan Kiedrowski, Richfield,
SUMMA CUM LAUDE, German
Pamela Ann Kirk, Edina
Thomas Edward Klecker, St. Paul
Laurel Elizabeth Kleven, Minneapolis
Judith Lee Knott, Forest Lake
William Francis Knutson, St. Paul
Craig George Kochsiek, St. Paul
Karen Ellen Kolb, Minneapolis
John Thomas Korsmo, Fargo, N.D.,
CUM LAUDE, History
Michael John Kosik, Minneapolis
Judith Margaret Kub, St. Cloud
John Michael Kuesel, Anoka
Ronald Earl L'Amie, A.A., Marble
Robert Correll Lamprey, St. Paul
Patricia Ann Landy, St. Paul
Gordon James Larrabee, Jr., Anoka
Elizabeth Brown Larsen, Minneapolis,
MAGNA CUM LAUDE, Music
Dennis John Larson, Richfield
Diane Rose Laueremann, St. Cloud
Janet Susan Lee, Minneapolis, SUMMA
CUM LAUDE, Biology
Jerry Philip Lehman, St. Louis Park
John Irvin Lewis, Minneapolis
Ward Robert Lewis, Peoria, Ill.
Nancy Elizabeth Lind, Minneapolis
Theresa Josephine Lippert, Minneapo-
lis, SUMMA CUM LAUDE, English

Mui Kay Maggie Liu, Hong Kong,
CUM LAUDE, Economics
Michealyn Kvasnik Ludeke, Minne-
apolis
Jean Louise Lund, Edina
Barbara Dee Lundquist, Mound
Nolan Dean Madson, Mankato
William Robert Malone, Wabasha
John Robert Manly, St. Anthony
Village
Michelle Marie Manthey, St. Paul
David Edmund Marquist, Richfield,
MAGNA CUM LAUDE, Studio Arts
Charles Douglas Mayer, Minneapolis
John Clifford McCabe, Jr., A.A.,
Mahtomedi
Michael H. McCann, Charlottesville,
Va.
Donald Lawrence McDonald, Hopkins
Barbara Joan Meyer, Minneapolis
William Paul Meyer, A.A., Glencoe
Linda Josephine Milbradt, Redwood
Falls
Janice Diane Miller, Bloomington
Dale John Moe, Minneapolis
Jean Ellen Moldestad, Minneapolis
Eleanore Sophie Molvik, Twin Valley
Lisa Katharine Monkkonen, Minne-
apolis
Michael Melvin Monten, Minneapolis
Douglas Clifton Moore, Minneapolis
Jack Calvin Moore, St. Paul
Ronald Albert Morris, A.A., Houston,
Tex.
Monte S. Mutschler Mossong, St. Paul
Elizabeth Louise Mueller, Prior Lake
Cathy Jean Murphy, Minneapolis
John Patrick Murphy, Minneapolis
Laurie Jean Mustonen, Minneapolis
Bruce Eric Nelson, Minneapolis
Wayne Alan Nelson, Minneapolis
Larry Lynn Nienkerk, Woodstock
Linda Carol Nodstrom, Coon Rapids
Kathleen Norton, St. Paul
Sharon Jean Nylund, Nisswa
Dennis Patrick O'Leary, Minneapolis
Clifford Matthew Olson, Hopkins,
MAGNA CUM LAUDE, Economics
David Eiler Olson, Columbia Heights,
CUM LAUDE, Humanities
Sheryl Corrinne Ostby, Minneapolis

Spencer Kingsley Osterberg, Jr.,
 Minneapolis
 Lupe Michael Paez, St. Paul
 John Michael Parker, Minneapolis
 Timothy Matthew Pellizzer, Minne-
 apolis
 Jeanne Brigham Perrin, North St. Paul
 Dennis Lee Peterson, Sebeka
 Bruce Harold Phyle, Minneapolis
 Timothy Daniel Plant, Minneapolis
 Margaret Ann Marker Purdy, Two
 Harbors
 Thomas Michael Quinn, A.A., St. Paul
 Linda Lorraine Razidlo, St. Paul
 Suzanne Marie Reedy, St. Paul
 Shirley Ann Reider, St. Paul
 Jennifer Lynn Roth, Minneapolis
 Diane Dubow Rothfeder, Bayside,
 N.Y.
 Thomas Jon Rotramel, Minneapolis
 Jack Clifton Rounsiville, A.A., Mounds
 View
 Thomas Frank Russ, Minneapolis
 Genaro Lopez Salazar, St. Paul
 Samuel Ira Sallerson, St. Louis Park
 Russell Lee Sandstrom, St. Paul
 Michael Joseph Savage, Minneapolis
 Dennis Frank Schaefer, Worthington
 Lynn Carol Schifsky, St. Paul
 Mary Josephine Schleppegrell,
 Hibbing
 Sharon Kay Schones, A.A., Rochester
 Craig Steven Schroder, Brainerd
 Randy Sue Schulman, Eden Prairie
 Emmanuel F. Schulte, Minneapolis*
 Robert N. Schwie, Minneapolis
 Roger Michael Selly, Minneapolis
 Jeffrey John Sholl, Minneapolis
 Cheryl Ann Sinning, Richfield
 Bonnie Faye Skanse, Minneapolis
 Thomas Jon Smith, Brooklyn Park
 William Gordon Snow, Minneapolis
 James Oleen Sonstegard, Paynesville,
 CUM LAUDE, *Economics*
 Steven William Sprecher, Austin
 Carol Marie Springer, Eden Prairie
 Richard Mark Staloch, Wells
 James Elwyn Stanton, New Ulm

Alison Joan Stendahl, Edina, CUM
 LAUDE, *Mathematics*
 Alan Carl Sterner, Minneapolis
 Thomas Leo Stowell, Minneapolis
 Mary Margaret Swain, St. Paul
 Jean Reed Sweitzer, Minneapolis
 Theodore Robert Syverson, Minne-
 apolis
 Sandra Maureen Talbot, Kewanee, Ill.
 Robert William Tennant, Newton,
 Mass., CUM LAUDE, *Speech*
 Linda Marie Thompson, St. Paul
 David George Thomson, Edina
 Patricia Ann Tolzmann, Duluth
 Curtis Lavern Traaseth, Hayfield
 Mary Patricia Michelson Tramel,
 Minneapolis
 Kathryn Ann Tweedy, Winona
 John Benedict Vander Horck, Duluth,
 SUMMA CUM LAUDE, *Humanities*
 Deborah Ann van Deusen, Glenview,
 Ill., SUMMA CUM LAUDE, *Humanities*
 Joan Elizabeth Vasseur, Minneapolis
 Eugene Carl Vogl, A.A., St. Paul
 Lesley Joseph Wachendorf, Hastings
 Randy Jay Wall, Roseville
 Stephen Morgan Wanvig, Minneapolis
 Mary Therese Weberg, Hopkins
 Linda Jean Webster, Minneapolis
 John Leo Weidenbach, St. Paul
 Charles David Weinke, Minneapolis
 Peter Juergen Weith, Minneapolis,
 MAGNA CUM LAUDE, *Economics*
 Melissa Ann Wick, Hartland
 Kristi Ann Wien, Edina
 Lynn Jennifer Wiles, Minneapolis
 Diane Michele Wiley, St. Paul
 Barbara Jeanne Wilkie, St. Paul
 Donald Lee Willer, South St. Paul
 Patricia Ann Williams, Becker
 Melodie June Wilson, St. Paul
 Nancy Lee Thilquist Wilwerding,
 Minneapolis*
 Laurence Michael Wryk, Minneapolis
 Michael Vincent Young, Minneapolis
 Ronald LeRoy Yurik, Minneapolis
 Janelle Anne Ziske, Aitkin
 Linda Lea Zlotnick, St. Louis Park
 Harry James Zubulake, Anoka

* Degree conferred as of December 15, 1971.

Bachelor of Elected Studies

Glenn Amandus Schiffler, Albany

Bachelor of Fine Arts

Thomas William Bettein, A.A.,
Minneapolis
Linda Lou Bielke, Chaska

Cynthia Sue Ruona, Minneapolis
Thomas Carl Utne, Minneapolis

MEDICAL SCHOOL MEDICAL TECHNOLOGY

Bachelor of Science

Bernice Carol Eldred, St. Louis Park*
Elizabeth Ann Hareid, Sherburn*
Marilyn Louise Hickman, Robbins-
dale*

Linda Sue Janssen, Minnetonka, WITH
DISTINCTION*
Judy Ann Parham, St. Paul*
Kathleen Ann Rhode, Elk River*

MEDICINE

Doctor of Medicine

Richard Campbell Gehrz, B.S., St.
Paul
Eric Jon Gilster, B.A., Minneapolis
Keith Ormon Kiehmeyer, B.A., Fergus
Falls

Peter Thomas Smyth, B.S., Lester
Prairie
Robert Ricky Steuer, B.Chem.,
Minneapolis
Gary Allan Strandemo, B.A., Kenyon

MORTUARY SCIENCE

Bachelor of Science

Elden Eugene Bjurling, Gardner,
Mass.
Michael Andrew Hasara, A.A.,
Lakefield
Thomas Earl Karlovetz, A.M.S.,

Fremont, Ohio
Michael Ernest Kinzley, Salem, S.D.
Michael Arthur Schulta, Rothschild,
Wis., WITH HIGH DISTINCTION

* These degrees are conferred subject to the completion of practical work prior to June 15, 1972.

PHYSICAL THERAPY

Bachelor of Science

Janice Marie Angelo, Virginia
Carlene Joanne Carlson, Hibbing
WITH DISTINCTION

Toni Marie Deters, Rochester
John Charles Dye, Marshalltown, Iowa
William Reuben Eckberg, St. Cloud
Barbara Anne Ernstsen, Nashwauk
Dennis Bert Fischer, International
Falls

Kathy Ellen Freid, Windom, WITH
DISTINCTION

Rita M. Geraets, Browerville, WITH
DISTINCTION

Michael Jon Gosha, Austin

Janet Dale Hayes, Minneapolis
Steven Jay Heydt, Austin, WITH
DISTINCTION

Diane Sue Kremer, Edina
Karey David Love, Minneapolis
Eldon Bruce Miller, St. Paul, WITH
DISTINCTION

Linda Katherine Nicoli, New Market
Betty Louise Ollila, Sebeka, WITH
DISTINCTION

Patricia Jane Platto, Alexandria, WITH
DISTINCTION

Karen Ann Prael, Searles, WITH
DISTINCTION

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Anita Linda Blocker, B.S. Geol.,
White Bear Lake

Michael Joseph Burkhart, B.S., Santa
Fe, N.M.

James Leonard Koniar, B.A., Minne-
apolis

Wilbur Clayton Quain, Jr., B.S.,
Winona

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Robert Allen Asleson, Stanchfield
Karl William Brown, Bloomington
Dennis Michael Carroll, West St. Paul
James Adrian Keller, St. Paul

James Sievert Nelson, Minneapolis
Ronald Paul Pohjola, Cloquet
Rodger Earl Whipple, Columbia
Heights

Bachelor of Agricultural Engineering

James Arthur Bosch, Atwater
Robert Arnold Ehlers, Elbow Lake
Charles Leonard Nystrom, A.A.,

Worthington, WITH DISTINCTION
Henry Charles Radintz, Osseo

Bachelor of Architecture

Galen George Grant, B.A., Minneapolis, WITH DISTINCTION

Walfrid Ashlie Johnson, New Brighton

Terry John Lamb, Neenah, Wis.

Kenneth Arlynn Lillquist, B.A., Minneapolis, WITH DISTINCTION

Allen Harvey Roiter, B.A., Chicago, Ill.

Brooke Lee Silvernail, Black River Falls, Wis.

Norman Charles Wells, A.A.S., New Brighton

Bachelor of Chemistry

Henry Field Grote, Minneapolis

Donald Max Harshbarger, Minneapolis

Carl Edward Reller, Minneapolis

Peter John Silbernagel, Minneapolis

Bachelor of Civil Engineering

Earl Craig Bancroft, Minneapolis, WITH DISTINCTION

James Allen Benson, Cedar

Daniel Royce Boxrud, Circle Pines

John Howard Carlson, Duluth

Lawrence Dean Dalen, Milan, WITH DISTINCTION

Craig Lee Ebeling, Rushmore, WITH DISTINCTION

Loren David Hill, St. Paul

Charles Joseph Hubbard, Bloomington

Richard James Juelich, St. Paul

Steven Dale Koenes, Fulton, Ill.

Kent Michael Lokkesmoe, Alberta

Philip Oren Martinson, Alexandria, WITH HIGH DISTINCTION

Brian Edwin McCollom, Mound, WITH DISTINCTION

Edward Daniel McGuire, South St. Paul

James Allen Minkkinen, Cloquet

David LeRoy Morrill, St. Charles, WITH DISTINCTION

Michael Thomas O'Donnell, Spring Lake Park

Maurice Michael Okrent, St. Louis Park, WITH HIGH DISTINCTION

Jack Gerald Petersen, Red Wing

Raymond Melvin Strege, Minneapolis

Rick Alan Svehla, Park Falls, Wis.

Bachelor of Computer Science

Dhirendra Padamshi Chheda, Bombay, India, WITH HIGH DISTINCTION

Jacob Walter, Minneapolis, WITH DISTINCTION

Bachelor of Electrical Engineering

Jack Lee Funk, Minneapolis

Jerome J. Merth, St. Paul

Paul Frank Michalek, Jr., Besoco, W. Va.

Richard Louis Nelson, Bloomington

Larry Gene Reitz, Shenandoah, Iowa, WITH DISTINCTION

John Tsvividis, Athens, Greece, WITH HIGH DISTINCTION

Bachelor of Environmental Design

David Earl Steen, Minneapolis

Bachelor of Geo-Engineering

Keith Marvin Craik, A.A., Thief
River Falls

Donald Michael Wood, International
Falls

Bachelor of Landscape Architecture

Bryan Douglas Carlson, B.A.,
Bloomington

David Earl Steen, Minneapolis

Bachelor of Mathematics

Thomas Willman Anderson, Richfield,
WITH HIGH DISTINCTION
Andrew Frank Dale, Minneapolis,
WITH HIGH DISTINCTION

Thomas Ernest Hendrickson, Hopkins,
WITH DISTINCTION

Bachelor of Mechanical Engineering

Alireza Irani Behbahani, Ahwaz, Iran,
WITH DISTINCTION
Mohammad Ahmad Faruqui, B.S.,
Hyderabad, Pakistan
Gerald Paul Fignar, Minneapolis,
WITH DISTINCTION
Daniel Manuel Furman, Santiago,
Chile, WITH DISTINCTION
Maximin Aubrey Green, Morgan
James Edward Jirele, Blooming Prairie
James William Kastet, Minneapolis,
WITH DISTINCTION
James Roger Lamm, St. Paul
Randy John Landhuis, Leota
Douglas Brian Larson, Barnesville

Gregory Lowell Mangan, Cloquet
Dennis Lee Matula, Hastings
Marvin John Mentjes, Balaton
Robert Glen Norell, Darfur
Benjamin Paz, San Pedro Sula,
Honduras
Michael Raymond Perry, Minneapolis,
WITH HIGH DISTINCTION
Paul Everett Sivula, B.A.E.M.,
Minneapolis
Dennis Neal Tomlinson, St. Paul
Stephen Michael Vossberg, Lauder-
dale, WITH HIGH DISTINCTION
John Scott Weiss, Minneapolis
John Marvin Welna, Little Falls

Bachelor of Physics

Darryl Alison Thayer, St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Nancy Ellen James, Minneapolis
Barbara Jean Sandstrom, Minneapolis

Dorothea Elizabeth Southworth,
Minneapolis

Bachelor of Science

Karen Baker Christofferson, St. Paul,
WITH DISTINCTION

Leland Fraser Comb, Minneapolis

Craig Steven Giffis, Minneapolis

Jean Elizabeth Gillham, Forest River,
N.D.

Robert Lawrence Hunegn, Golden
Valley

William Isaac Jaffa, A.A., St. Louis
Park

Charlene Mary Keefer, Minneapolis

Thomas Charles Lowe, Fridley

Janice Faye Manley, Minneapolis

Daniel Adam Miller, Jr., South St.
Paul

JoAnn Mooers, Robbinsdale

Rodney Laurence More, Cambridge

March Candidates for Commissions

Subject to the completion of all curriculum requirements at the close of winter quarter, commissions have been 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

Michael John Kosik, Minneapolis

Second Lieutenant, Military Police Corps

Robert Edward Cook, West St. Paul

Second Lieutenant, Ordnance Corps

Thomas Sims Denison, Edina

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Clifford M. Olson, Hopkins

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 upon others meeting the graduation requirements.

GRADUATE SCHOOL

Doctor of Education

Harold Harvey Boyum, Anoka

B.S. '61, St. Cloud State College; M.A. '67, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Comparative Study of Paraprofessional-Assisted and Traditionally-Staffed Ninth Grade Introductory Physical Science Classes. Major Adviser: Prof. N. C. Nickerson, Jr.

George Barakat Droubie, West St. Paul

B.S. '58, M.A. '59, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Effecting Interstate Reciprocity in Teacher Certification. Major Adviser: Prof. S. H. Popper.

Marjorie L. Neihart, St. Paul

B.S. '41, University of Minnesota; M.A. '55, University of Colorado. Major: Educational Administration. Minor: Supporting Program. Thesis: A Comparative Evaluation of the Flexible Modular Scheduling Plan at Highland Park Junior High School in St. Paul. Major Adviser: Prof. S. H. Popper.

Michael Frank Trepanier, Brooklyn Park

B.S. '65, M.S. '67, St. Cloud State College. Major: Educational Administration. Minor: Educational Psychology. Thesis: A National Analysis of Nonurban Title VI Funded Administrative and Instructional Support Projects. Major Adviser: Prof. Richard Weatherman.

Doctor of Philosophy

Mona Mahmoud Abdel-Rahman, Cairo, Egypt

B.S. '66, Cairo University; M.S. '70, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Hot Electron Effects in SCL Diodes and Mosfets. Major Adviser: Prof. Aldert van der Ziel.

Bruce Franklin Abramson, Chippewa Falls, Wis.

B.S. '62, M.S.A.E. '65, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: On the Flow of a Rarefied Gas in a Long Cylindrical Capillary. Major Adviser: Prof. T. S. Lundgren.

John Julius Almasi, Schenectady, N.Y.

B.S.E.E. *cum laude* '65, M.E. '66, Rensselaer Polytechnic Institute. Major: Biophysics. Thesis: Steady State Respiratory Modulation of Heart Rate Studied by Computer Assisted Voluntary Cardiorespiratory Synchronization. Major Adviser: Prof. O. H. Schmitt.

Robert Frank Anderson, Ames, Iowa

B.S. '64, M.S. '66, Iowa State University. Major: Mathematics. Minor: Supporting Program. Thesis: Diffusion with Second Order Boundary Conditions. Major Adviser: Prof. Steven Orey.

Robert Milford Anderson, Jr., Syracuse, N.Y.

B.A. '65, Ohio State University. Major: Philosophy. Minor: Psychology. Thesis: An Essay in Neuroepistemology. Major Adviser: Prof. G. E. Maxwell.

Padmanabham Ananta Arimilli, Bhimavaram, India

B.S. with honors '58, Andhra University. Major: Physics. Minor: Mathematics. Thesis: A Search for Nuclear Isomeric States by Gamma-Ray Studies. Major Adviser: Prof. G. W. Greenless.

Eddice Belle Barber, Mankato

B.S. '42, Northwest Missouri State College; M.A. '48, University of Colorado. Major: English. Minor: Supporting Program. Thesis: Cotton Mather's Literary Reputation in America. Major Adviser: Prof. C. C. Hansen.

James Robert Baron, Royalton

B.A. '64, Catholic University of America; M.A. '67, University of Minnesota. Major: Classics. Minor: Philosophy. Thesis: Nature Imagery in Seneca's Tragedies. Major Adviser: Prof. R. P. Sonkowsky.

John Dickson Bazley, Aston Clinton, England

BA. '67, University of Bristol; M.S. '70, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: An Examination of the Ability of Alternative Accounting Frameworks to Predict Failure. Major Adviser: Prof. J. K. Simmons.

Paul Edward Beckstrand, St. Paul

B.A. with honors '48, University of Wisconsin; B.S. '59, M.A. '68, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: The Adaptation of Transactional Analysis as a Means to the Teaching of Written Expression in High School. Major Adviser: Prof. E. M. Birkmaier.

Steven Arthur Bendson, Staples

B.S. '65, M.S. '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Magnetic Properties of Cobalt-Rare Earth Thin Films. Major Adviser: Prof. J. H. Judy.

Richard Newman Berglund, St. Paul

B.A.E. with distinction '67, M.S. '68, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Basic Aerosol Standards and Optical Measurements of Aerosol Particles. Major Adviser: Prof. B. Y. Liu.

Jane Colville Betts, St. Paul

B.A. '52, Wilson College; M.A. '53, Columbia University. Major: English. Minor: Music. Thesis: The Marriage of Music and Rhetoric: A Study of the Use of Classical Rhetoric as a Rationale for Musical Innovation During the Middle Ages and the Renaissance. Major Adviser: Prof. G. W. O'Brien.

Richard Wallace Blood, St. Paul

B.S.E. with distinction '65, M.A. '68, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: A Historical Geography of the Economic Activities of the Jesuit Colegio Máximo de San Pedro y San Pablo in Colonial Mexico, 1572-1767. Major Adviser: Prof. W. J. Barrett.

Ralph Allen Brauer, Ocean City, N.J.

B.A. '67, Grinnell College; M.A. '68, University of Wyoming. Major: American Studies. Thesis: The Horse, the Gun and the Piece of Property: Changing Images of the T.V. Western. Major Adviser: Prof. D. W. Noble.

John Allen Bruce, Washington, D.C.

B.A. '56, Wesleyan University; S.T.B. '59, General Theological Seminary. Major: Sociology. Minor: Supporting Program. Thesis: Maternal Involvement in the Courtship of Daughters. Major Adviser: Prof. Reuben Hill.

Milton David Brue, Le Sueur

B.S. *summa cum laude* '65, University of Minnesota, Duluth. Major: Mathematics. Minor: Supporting Program. Thesis: A Functional Transform for Feynman Integrals Similar to the Fourier Transform. Major Adviser: Prof. R. H. Cameron.

Richard Rollo Buck, Clarissa

B.S. '54, Wisconsin State University, River Falls; M.A. '62, University of Minnesota. Major: Education. Minor: Physical Education. Thesis: Knowledge of Mechanical Principles to Facilitate Learning a Trampoline Skill Using Television as an Evaluation Aid. Major Co-Advisers: Profs. N. P. Pearson and M. U. Wilson.

Walter K. Bunge, River Falls, Wis.

B.S. '56, M.S. '61, University of Wisconsin. Major: Mass Communication. Minor: Supporting Program. Thesis: Public Interest as a Function of the First Amendment in Broadcasting: A Study of the New Technology and Some Old Assumptions. Major Adviser: Prof. D. M. Gillmor.

Betty Ann Burklund, North Platte, Neb.

B.S. '59, University of Nebraska; M.S. '62, Oregon State University. Major: Education. Minor: Supporting Program. Thesis: The University Supervisor of Student Teaching: Exploration of Procedures in Communication. Major Adviser: Prof. R. R. Ford.

Ho-Shii Chang, Taiwan

B.A. '61, M.S. '65, National Taiwan University. Major: Plant Pathology. Minor: Plant Physiology. Thesis: Effect of Light Uredospore Germination, Tropism of Germtubes, and Uredosorus Development of *Puccinia Graminis Triticis* and *P. Recondita* on Wheat. Major Adviser: Prof. R. D. Wilcoxson.

Nyles William Charon, New Brighton

B.A. '65, M.S. '69, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: Carbon Dioxide Metabolism and Isoleucine Biosynthesis in *Leptospira*. Major Adviser: Prof. R. C. Johnson.

Min Ming Chen, Hsinchu, Taiwan

B.S. '62, National Taiwan University; M.S. '68, Clemson University. Major: Forestry. Minor: Supporting Program. Thesis: A Proposed Explanation for the Phenomenological Rheology of Prefrozen Redwood During Drying. Major Adviser: Prof. R. W. Erickson.

Don Raymond Cherek, Omaha, Neb.

B.S. '67, Creighton University. Major: Psychology. Minor: Pharmacology. Thesis: Effects of Scheduled Contingencies and Delta-1-Tetrahydrocannabinol on Schedule-Induced Aggression. Major Adviser: Prof. G. T. Heistad.

Mao-jin Chern, Taiwan

B.S. '65, National Taiwan University; M.S. '69, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: A Study of Optical Activity and Raman Scattering in the Sodium Nitrite Crystals. Major Co-Advisers: Profs. R. A. Phillips and R. J. Collins.

Jay Owen Cherrington, Preston, Idaho

B.S. '68, Brigham Young University. Major: Business Administration. Minor: Economics. Thesis: Financial Statement Effects of Alternative Methods of Valuing Less than Fifty Percent Owned Long Term Security Investments. Major Adviser: Prof. R. G. Berryman.

Peter Wen-Shyg Chiou, Chung-Hwa, Taiwan

B.S. '64, Chung-Hsing University; M.S. '69, University of Minnesota. Major: Animal Science. Minor: Supporting Program. Thesis: Energy and Protein Requirements of Young Lambs Fed Milk Replacers and Housed in Two Environments. Major Adviser: Prof. R. M. Jordan.

Kenneth Eugene Christopherson, Tacoma, Wash.

B.A. '46, Augustana College; B.Th. '50, Luther Theological Seminary. Major: History. Minor: Philosophy. Thesis: Norwegian Historiography on Norway's Reformation. Major Adviser: Prof. J. D. Tracy.

Stephen Marlin Coleman, Minneapolis

B.A. '63, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Measurement and Analysis of Political Systems. Major Adviser: Prof. R. T. Holt.

Eve Annette Conner, Northwood, Iowa

B.A. '67, Keuka College. Major: Pharmacology. Minor: Biochemistry. Thesis: The Production, Composition and Distribution of Substances into Uterine Luminal Fluid of the Rat. Major Adviser: Prof. J. W. Miller.

Arthur Lorin Craig, Ambler, Pa.

B.S. '68, Ursinus College. Major: Pharmacology. Minor: Biochemistry. Thesis: Factors Influencing the Strain Difference in Pharmacologic Response of Mice to *d*-Amphetamine: A Pharmacokinetic and Pharmacodynamic Study. Major Adviser: Prof. J. W. Miller.

Robert Kent Crookston, Magrath, Alberta, Canada

B.S. '68, Brigham Young University; M.S. '70, University of Minnesota. Major: Plant Physiology. Minor: Supporting Program. Thesis: Investigations into Variability of the Physiological and Anatomical Characteristics that Separate C_4 and C_3 Species. Major Adviser: Prof. D. N. Moss.

Raul Antonio Cuestas, David, Panama

B.A. '66, University of Minnesota. Major: Anatomy. Minor: Supporting Program. Thesis: Studies on the Metabolism of Citric Acid in Alloxan Diabetes. Major Adviser: Prof. P. K. Dixit.

Le Roy Roger Curwick, Marshall

B.S.Met.E. with distinction '67, M.S.Met.E. '70, University of Minnesota. Major: Metallurgical Engineering. Minor: Supporting Program. Thesis: Strengthening Mechanisms in Nickel-Base Superalloys. Major Adviser: Prof. L. E. Toth.

Rose Marie Cutting, St. Paul

B.A. '62, College of St. Catherine; M.A. '63, University of Michigan. Major: English. Minor: Supporting Program. Thesis: America Discovers Its Literary Past: The Anthology as Literary History in the Nineteenth Century. Major Adviser: Prof. E. M. Griffin.

Alvin John De Boer, Jr., Loveland,
Colo.

B.A. '66, Colorado State University. Major: Agricultural Economics. Minor: Economics. Thesis: Technical and Economic Constraints on Bovine Production in Three Villages in Thailand. Major Adviser: Prof. D. E. Welsch.

Ross Allan Denham, Edmonton,
Alberta, Canada

B.Com. '58, University of Alberta; M.B.A. '66, University of Toronto. Major: Business Administration. Minor: Supporting Program. Thesis: A Theoretical and Empirical Study of Net Income Normalized as Earnings per Share Data. Major Adviser: Prof. J. M. Smith, Jr.

Carlyle Conrad Dewey, Minneapolis

B.A. '62, M.A. '64, University of Minnesota. Major: Education. Minor: Political Science. Thesis: A Study of Majors in Selected Social Sciences with Respect to Political Activism, Ideology, and Related Characteristics. Major Adviser: Prof. R. E. Eckert.

David Newell Dixon, Waynesfield,
Ohio

B.S. '66, Ohio State University; M.P.S. '68, University of Colorado. Major: Educational Psychology. Minor: Psychology. Thesis: Correlates of Perceived Internal-External Locus of Control in a Counseling Analogue Situation. Major Adviser: Prof. W. F. Shaffer.

Kenneth Owen Doyle, Jr.,
Menominee, Mich.

A.B. '66, Marquette University. Major: Psychology. Minor: Educational Psychology. Thesis: Construction and Investigation of Self-Improvement Rating Scales for College Instructors. Major Adviser: Prof. J. G. Darley.

Susan Elizabeth Osborne Erbaugh,
Rochester

B.A. with honors '64, Douglass College. Major: Psychology. Minor: Child Psychology. Thesis: Dogmatism, Personality and Parent-Child Relationships. Major Adviser: Prof. R. D. Wirt.

Max Clarence Farning, Bryan, Tex.

B.S. '60, Stout State University; M.A. '69, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Some Reasons Why So Few Black High School Graduates Attend Post High School Area Vocational Schools. Major Adviser: Prof. Jerome Moss, Jr.

Howard Chi-Han Feng, Taipei,
Taiwan

B.S.E.E. '58, Cheng Kung University; M.S.E.E. '63, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of the Sodium-Covered GE(111) Surfaces by Ion Neutralization. Major Adviser: Prof. W. T. Peria.

Lois Roughan Fern, Jefferson, Ga.

B.A. '39, Houghton College; M.A. '55, University of Michigan. Major: Education. Minor: Library Science. Thesis: Student Characteristics and Environments for Learning in Wesleyan Colleges. Major Adviser: Prof. R. E. Eckert.

James M. Ferreira, Kalamazoo, Mich.

B.S. '59, M.A. '65, Northeastern University. Major: American Studies. Thesis: The Radical Individualism of Norman Mailer. Major Adviser: Prof. D. W. Noble.

Norman Dale Fintel, Minneapolis

B.A. '51, Wartburg College; M.A. '59, University of Wisconsin. Major: Education. Minor: Journalism. Thesis: The Attitudes of Lutherans Toward Church Colleges. Major Adviser: Prof. M. E. Corcoran.

Carl Edward Frasch, Tacoma, Wash.

B.S. '67, University of Washington. Major: Microbiology. Minor: Supporting Program. Thesis: The Antigenic Properties and Identification of Serotypes of Group B *Neisseria Meningitidis*. Major Adviser: Prof. S. S. Chapman.

Philip Lee Friest, Duluth

B.A. '49, St. Olaf College; M.A. '52, University of Minnesota. Major: Business Administration. Minor: Sociology. Thesis: Cost Information for Hospital Laboratory Decisions. Major Adviser: Prof. R. G. Berryman.

John Luther Gardner, Chicago, Ill.

A.B. with high honors '63, Oberlin College. Major: Economics. Minor: Statistics. Thesis: Urban Labor Markets and the Geographical Redistribution of the Labor Force. Major Adviser: Prof. J. M. Henderson.

William Lee Gaslin, Wadena

B.A. '63, University of Minnesota; M.S. '66, St. Cloud State College. Major: Education. Minor: Mathematics. Thesis: A Comparison of Achievement and Attitudes of Students Using Conventional or Calculator Based Algorithms for Operations on Positive Rational Numbers in Ninth Grade General Mathematics. Major Adviser: Prof. D. C. Johnson.

Almoursi Abdelhamid Genenah, Aga, Dakahha, Egypt

B.S. '62, Cairo University. Major: Medicinal Chemistry. Minor: Organic Chemistry. Thesis: Stereochemical Requirements for Neuromuscular Junction Blockers. Major Adviser: Prof. T. O. Soine.

Farouk Habib Charib, Baghdad, Iraq

B.S. '61, University of Baghdad; M.S. '68, University of Minnesota. Major: Animal Science. Minor: Supporting Program. Thesis: Increasing the Utilization of Low Quality Forage. Major Co-Advisers: Profs. L. E. Hanson and J. C. Meiske.

Diana Devlin Graham, London, England

B.A. '63, Cambridge University; M.A. '69, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: The Dreamer and the Maker: A Study of Lewis Casson's Work in the Theatre. Major Adviser: Prof. C. M. Nolte.

Ramesh Chand Gupta, Hissar, India

D.V.M. '58, Punjab University; M.S. '67, Punjab Agricultural University. Major: Veterinary Obstetrics and Gynecology. Minor: Supporting Program. Thesis: Spermatogenesis and the Effect of Seasonal Changes in the Histology of Testes and Accessory Sex Organs in the Ram. Major Adviser: Prof. Raimunds Zemjanis.

Orvald Bernard Haugsby, Minneapolis

B.A. with honors '52, Wisconsin State University, Superior. Major: Mathematics. Minor: Physics. Thesis: An Operator-Valued Integral in a Function Space of Continuous Vector-Valued Functions. Major Adviser: Prof. R. H. Cameron.

Philip Joseph Heslin, Superior, Wis.

B.A. '53, Josephinum College; M.S.W. '62, Loyola University. Major: Social Work. Minor: Supporting Program. Thesis: A Study of Four Housing Modalities for the Elderly Which Provide Ascending Levels of Elderly Population Density as Related to Intra-Generational Social Interaction, Anomia, Isolation and Life Satisfaction. Major Adviser: Prof. P. W. Chommie.

David Reuben Hill, Minneapolis

A.B. '64, Princeton University; M.R.P. '67, University of North Carolina. Major: Political Science. Minor: Supporting Program. Thesis: Creative Eutopia: The Political Thought of Lewis Mumford. Major Adviser: Prof. M. Q. Sibley.

Frederic James Hill, St. Paul

B.S. with distinction '67, M.S. '69, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: An Economic Model of Chipper-Canter Aspen Production. Major Adviser: Prof. R. A. Skok.

Ross Lindsay Hood, Sidney, Australia

B.S. '68, University of New South Wales. Major: Animal Science. Minor: Physiology. Thesis: Adipose Tissue Cellularity and Lipogenic Activity in Porcine and Bovine Animals. Major Adviser: Prof. C. E. Allen.

Richard Brian Hoppe, Gambier, Ohio

B.A. '68, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Inter-Control Movement Dependence in a Two-Dimensional Compensatory Tracking Task. Major Adviser: Prof. P. W. Fox.

Marshall Atherton Howe, Pleasantville, N.Y.

B.A. '66, Alfred University. Major: Zoology. Minor: Supporting Program. Thesis: Mechanisms of Pair Bond Formation and Maintenance in Wilson's Phalarope, *Steganopus Tricolor*, with Emphasis on Vocal Communication. Major Adviser: Prof. D. F. McKinney.

Richard C. Hoyt, Lake City

B.S. '62, Kansas State University; M.S. '68, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: A Dynamic Econometric Model of the Milling and Baking Industries. Major Adviser: Prof. D. C. Dahl.

Gary William Hume, Rockville, Md.

B.A. *magna cum laude* '62, University of Minnesota. Major: Anthropology. Minor: Supporting Program. Thesis: The Ladizian: An Industry of the Asian Chopper-Chopping Tool Complex in Southeastern Iran. Major Adviser: Prof. O. E. Johnson.

Saied Heskel Jacob, Tehran, Iran

B.S. '66, M.S. '67, Illinois State University. Major: Educational Psychology. Minor: Psychology. Thesis: The Acquisition of Structured Material: Toward a Characterization of What Is Learned. Major Adviser: Prof. P. E. Johnson.

William Edward Johns, Dearborn,
Mich.

B.S.For. '66, Michigan Technological University; M.Wood Tech. '68, University of Michigan. Major: Forestry. Minor: Supporting Program. Thesis: A Thermodynamic Comparison of Liquid Versus Vapor Sorption of Aqueous Binary Fluids on Northern White Cedar. Major Adviser: Prof. R. L. Hossfeld.

John Lorenz Jost, Minneapolis

B.Ch.E. with high distinction '66, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Dynamics of a Symbiotic System: Interactions in a Microbial Food Web. Major Adviser: Prof. H. M. Tsuchiya.

Daniel John Jurkovic, Boyceville, Wis.

B.A. '56, Concordia College Theological Seminary. Major: Political Science. Minor: Philosophy. Thesis: Martin Luther on Civil Government and Social Justice: A New Interpretation. Major Adviser: Prof. M. Q. Sibley.

David Leigh Karnath, San Diego,
Calif.

B.A. '58, University of Notre Dame; M.A. '60, Stanford University. Major: English. Minor: Supporting Program. Thesis: *The Lying Contest* (The Meaning of Form in Mark Twain's Fictions). Major Adviser: Prof. Martin Roth.

Albert John Kinderman, Palo Alto,
Calif.

B.S. '67, Stanford University. Major: Statistics. Minor: Mathematics. Thesis: On Some Problems in Classification: Classifiability, Asymptotic Relative Efficiency, and a Complete Class Theorem. Major Adviser: Prof. Somesh Das Gupta.

Earl Owen Knutson, New London

B.A. '58, Concordia College; M.S. '61, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: The Distribution of Electric Charge Among the Particles of an Artificially Charged Aerosol. Major Adviser: Prof. K. T. Whitby.

Albert William Kuhfeld, Minneapolis

B.S. '63, Massachusetts Institute of Technology; M.S. '66, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Study of the Nucleus ^{109}Ag in the Core-Excitation Model via the (P,T) and ($^3\text{He,D}$) Reactions. Major Adviser: Prof. N. M. Hintz.

Leo Richard Lake, Kalamazoo, Mich.

B.S. '65, Massachusetts Institute of Technology; M.S. '68, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Loss Coefficient of Atomic Oxygen on Metal Surfaces. Major Adviser: Prof. A. O. Nier.

Byung-Hai Lee, Seoul, Korea

B.S. '59, Han Yang University; M.S. '68, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Structural Optimization of a Space Truss. Major Adviser: Prof. L. E. Goodman.

Sang Joon Lee, Seoul, Korea

B.S.E.E. '67, M.S.E.E. '69, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Experiments in Superheterodyne Mixing at 10.6 Microns. Major Adviser: Prof. Aldert van der Ziel.

Raymond Kenneth Levang,
Minneapolis

B.A. '47, M.A. '51, University of Minnesota. Major: History. Minor: Classics. Thesis: Studies in the History of Lesbos. Major Adviser: Prof. T. B. Jones.

Gary Libman, Burbank, Calif.

B.A. '62, Whittier College; M.A. '65, University of Minnesota. Major: American Studies. Thesis: Minnesota and the Struggle for Black Suffrage, 1849-1870: A Study of Party Motivation. Major Adviser: Prof. M. C. Turpie.

Leu-Fen Hou Lin, Taiwan

B.S. '67, National Taiwan University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Biosynthesis of Pyridine Nucleotides in the Rat. Major Adviser: Prof. L. M. Henderson.

Wayne Gerald Little, Duluth

B.S. '57, M.A. '62, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Relationships Between Certain Personality Characteristics of Post-Secondary Distributive Education Personnel and Job Satisfaction. Major Adviser: Prof. W. G. Meyer.

Tong Lu, Taipei, Taiwan

B.E.E. '65, Cheng Kung University; M.S. '68, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Microwave Propagation in a Magnetoplasma-filled Waveguide. Major Adviser: Prof. K. S. Champlin.

Jerold Luss, Independence, Mo.

A.B. '63, M.S. '65, University of Kansas. Major: Physical Chemistry. Minor: Supporting Program. Thesis: A Study of the Born-Oppenheimer Approximation. Major Adviser: Prof. C. A. Mead.

David Nicholas Lyon, Warren, Ohio

B.A. '62, M.A. '64, Wayne State University. Major: American Studies. Thesis: The World of P. J. McGuire: A Study of the American Labor Movement, 1870-1890. Major Adviser: Prof. Hyman Berman.

David John MacDonald, Fresno, Calif.

B.A. '65, Fresno State College; M.A. '68, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Coins of the Principate From the Excavations at Aphrodisias Cariae, 1961-1970. Major Adviser: Prof. T. B. Jones.

George Byron Macready, Cottage Grove, Ore.

B.A. '65, Willamette University; M.A. '67, University of Oregon. Major: Educational Psychology. Minor: Psychology. Thesis: An Investigation into the Nature of Interitem Relations and the Structure of Domain Hierarchies Found Within a Domain Referenced Testing System. Major Adviser: Prof. J. C. Merwin.

Wolodymyr Roman Madych, Hamtramck, Mich.

B.S. '66, University of Michigan. Major: Mathematics. Minor: Supporting Program. Thesis: Quasi-Homogeneous Lipschitz and Lebesgue Spaces. Major Adviser: Prof. Walter Littman.

Peter Mailandt, Hamburg, Germany

B.S. '63, University of Berlin; M.S. '67, M.B.A. '70, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Elastic Scattering of Alpha Particles Together with a Microscopic Interpretation. Major Adviser: Prof. G. W. Greenless.

Allan Michael Maslove, Ottawa, Ontario, Canada

B.A. with honors '67, University of Manitoba. Major: Economics. Minor: Supporting Program. Thesis: Travel Rent Gradients and the Value of Travel Time in a Multi-Nodal City. Major Adviser: Prof. H. D. Mohring.

David Raymond McConville, Murdock

B.S. '68, M.A. '69, St. Cloud State College. Major: Fisheries. Minor: Supporting Program. Thesis: Population Dynamics of the Macro-invertebrates in the Mississippi River Near Monticello, Minnesota. Major Adviser: Prof. T. F. Waters.

Harold Henry Messer, Brisbane, Australia

B.D.S. '64, M.D.S. '67, University of Queensland. Major: Biochemistry. Minor: Microbiology. Thesis: Metabolic Effects of Fluoride on Bone in Tissue Culture. Major Adviser: Prof. W. D. Armstrong.

Jonathon Army Mezz, New York, N.Y.

A.B. with honors '66, University of Rochester; M.A. '68, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: Solzhenitsyn Onstage: A Critical Study of *Olen' i salasovka* (A Play by Aleksandr Solzhenitsyn) and its World Premiere Production by the Minnesota Theatre Company, 1970. Major Adviser: Prof. F. M. Whiting.

William Towner Morgan, Pipestone

B.A. '55, Macalester College; M.A. '61, University of Minnesota. Major: American Studies. Thesis: The Politics of Business in the Career of an American Architect: Cass Gilbert 1875-1905. Major Adviser: Prof. B. R. Bowron.

Richard Harold Morrison, Van Nuys, Calif.

B.S. '65, California State Polytechnic College; M.S. '68, University of Minnesota. Major: Plant Pathology. Minor: Entomology. Thesis: Factors Affecting the Production of Zoospores by *Aphanomyces Euteiches* and Their Behavior Towards Roots of *Pisum Sativum*. Major Adviser: Prof. C. J. Eide.

Carol Jeanne Myers, Secane, Pa.

B.A. *summa cum laude* '67, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: An Analysis of Criterion Variables Used to Shape High Rates of Correct Responding in a Matching to Sample Task. Major Adviser: Prof. M. A. Trapold.

Elio Nunezgaracia, Madrid, Spain

B.A. '61, University of Madrid; M.A. '63, University of Minnesota. Major: Economics. Minor: Internal. Thesis: Pricing Spanish Electricity. Major Adviser: Prof. O. H. Brownlee.

Ngwu Okoro, Eastern Nigeria

B.S. '67, M.S. '68, South Dakota State University. Major: Sociology. Minor: Supporting Program. Thesis: The Acceptance of New Ideas by Agricultural Extension Service Legitimizers: County Commissioners, Appointed County Extension Committee, and County Extension Staff Members. Major Adviser: Prof. C. E. Ramsey.

Clarence Calvin Olson, Westby, Wis.

B.S. with distinction '46, M.S. '51, University of Minnesota. Major: Dairy Husbandry. Minor: Supporting Program. Thesis: Predicting Future Performance for Dairy Cows that Change Environment. Major Adviser: Prof. C. W. Young.

Thomas Lyle Olson, Red Wing

B.S. '64, Wisconsin State University, River Falls; M.A. '66, University of Omaha. Major: History. Minor: Supporting Program. Thesis: Unfinished Business: American Social Work in Pursuit of Reform, Community, and World Peace, 1939-1950. Major Adviser: Prof. K. J. Brauer.

Michael Ray Overcash, Medina, Pa.

B.S. '66, North Carolina State University; M.S. '67, University of New South Wales. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Couette Oxygenator. Major Adviser: Prof. K. H. Keller.

Harold Edward PaDelford, Ypsilanti, Mich.

B.S. '48, Mankato State College; M.A. '67, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: An Experimental Comparison of the Effect of Differentially Structured Content on Concept Learning. Major Adviser: Prof. Jerome Moss, Jr.

Richard Edward Papke, Waseca

B.S. with distinction '57, M.A. '66, University of Minnesota. Major: Education. Minor: Music. Thesis: An Investigation of Instrumental Music Directors' Rehearsal Behavior Utilizing an Evaluative Instrument with Implications for Broadening Perspectives in Secondary School Instrumental Music Curricula. Major Adviser: Prof. A. F. Caswell.

Georgia Korner Park, Minneapolis

B.A. *cum laude* '55, University of Washington; M.A. '62, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Mixed Dorm: Its Effect on Student Personality, Social Life, and Sex Attitudes and Behavior. Major Adviser: Prof. C. A. Parker.

David L. Pauls, Dallas, Ore.

B.A. *summa cum laude* '66, Pacific College. Major: Genetics. Minor: Supporting Program. Thesis: A Genetic Analysis of Mental Retardation and High Intelligence. Major Adviser: Prof. V. E. Anderson.

Ronald Gordon Perrier, Bloomington

B.S. '62, Wisconsin State University, River Falls; M.A. '68, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: A Study of the Dramatic Works of Tennessee Williams from 1963 to 1971. Major Adviser: Prof. J. D. Hurrell.

Sandra Jane Petersburg, Joice, Iowa

B.S. '62, Iowa State University. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Metabolism of Lipoprotein-Bound Cholesterol and Cholesteryl Esters by the Perfused Rat Liver. Major Adviser: Prof. J. F. Van Pilsum.

Daniel Wayne Pfaff, Nampa, Idaho

B.S. '62, University of Oregon; M.A. '68, Pennsylvania State University. Major: Mass Communication. Minor: Supporting Program. Thesis: The First Amendment and Symbolic Speech: Toward a Rationale of the Public Forum. Major Adviser: Prof. J. E. Gerald.

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A.B. '67, Oberlin College. Major: Analytical Chemistry. Minor: Inorganic Chemistry. Thesis: The Chemical and Electrochemical Reduction of Ruthenium (IV) in Hydrochloric Acid Solutions. Major Adviser: Prof. H. S. Swoford, Jr.

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B.S. '67, Chemical Institute of Sarria; M.S. '69, Colorado School of Mines. Major: Chemical Engineering. Minor: Mathematics. Thesis: Capillary Hydromechanics Configuration and Stability of Interfacial Menisci. Major Adviser: Prof. L. E. Scriven.

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B.S. '60, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: The Experimental Analysis of Educational Objectives. Major Adviser: Prof. Wells Hively.

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B.V.S. '66, A.H. '66, M.V.S. '68, Uttar Pradesh Agricultural University. Major: Animal Science. Minor: Genetics. Thesis: A Genetic Study of a Specific Crossbreeding System in Sheep. Major Adviser: Prof. W. J. Boylan.

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B.Ed. '44, University of Toledo; M.A. '64, Spec.Cert. '68, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Longitudinal Study Comparing the School Achievement and School Adjustment of Children Retained in Kindergarten and Children Placed in a Transition Program. Major Adviser: Prof. G. M. Mork.

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B.S.A.E. '60, M.S.A.E. '61, Oklahoma State University. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Hydrograph Routing in Open Channels. Major Adviser: Prof. C. L. Larson.

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B.Phys. '50, M.A. '58, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Comparison of an Independent-Progress-Rate Method with an Even Front Method in the Teaching of Science. Major Adviser: Prof. C. H. Boeck.

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B.A. *summa cum laude* '61, M.Ed. '64, St. Mary's College. Major: History. Minor: Philosophy. Thesis: Specialized Catholic Action in the United States, 1936-1949: Ideology, Leadership, and Organizations. Major Adviser: Prof. T. L. Smith.

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B.A. with honors '67, University of Manitoba. Major: Economics. Minor: Supporting Program. Thesis: Lindahl Equilibrium and the Allocation of Public Goods. Major Adviser: Prof. H. F. Sonnenschein.

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B.A. '59, Morgan State College; M.A. '64, University of Iowa. Major: American Studies. Thesis: A Critical Review of the Ideas of Henry Thoreau. Major Adviser: Prof. M. C. Turpie.

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A.B. '63, M.A. '64, Hunter College. Major: Industrial Relations. Minor: Supporting Program. Thesis: Federal Manpower Forecasting: An Analysis and Evaluation. Major Adviser: Prof. George Seltzer.

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B.A. *cum laude* '63, St. Mary's College. Major: Education. Minor: Sociology. Thesis: Equality of Educational Opportunity Within a School: A Study of the Effects of Ability Grouping on Peer Relations. Major Adviser: Prof. W. M. Ammentorp.

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B.P.A. '64, Seoul National University; M.A.P.A. '69, University of Minnesota. Major: Sociology. Minor: Public Administration. Thesis: From Chosen to Daehan Social Change in Twentieth Century. Major Adviser: Prof. D. A. Martindale.

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Fil.Kand. '57, University of Stockholm; M.A. '68, University of Minnesota. Major: Scandinavian. Minor: Educational Psychology. Thesis: Bjälboarvet Seen in Relation to the Historical Sources. Major Adviser: Prof. Nils Hasselmo.

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B.S. '64, George Washington University; M.S. '69, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: A Computer Data Management System Using Minimal Fast Memory Storage. Major Adviser: Prof. S. J. Kahne.

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B.A. '53, M.A. '55, University of Manitoba. Major: English. Minor: Philosophy. Thesis: Coventry Patmore and the Poetic Drama of the Victorian Intellectual. Major Adviser: Prof. W. A. Madden.

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B.S.E. '56, M.S. '57, University of Michigan. Major: Control Sciences. Thesis: Studies of Command and Control for Personalized Rapid Transit Systems. Major Adviser: Prof. E. B. Lee.

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B.S. with distinction '61, M.S. '62, University of Minnesota. Major: Physical Education. Minor: Physiology. Thesis: Oxygen Consumption and Heart Rate Changes of Two Gymnastic Ring Routines Due to Training, Warm-Up and Fatigue. Major Adviser: Prof. P. J. Bird.

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B.A. *cum laude* '63, West Virginia University; M.A. '66, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Affects of Migration Between Cities of Different Sizes on Social and Socio-Psychological Integration. Major Adviser: Prof. D. A. Donohue.

Ronald Isaac Sibanda, Bulawayo,
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B.S. '70, M.A. '71, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Comparative Study of the British and the United States Systems of Agricultural Education at the University Level as a Basis for the Development of an Agricultural Education Model for Colleges and Universities of Africa. Major Adviser: Prof. R. P. Marvin.

Michael John Singer, White Plains,
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B.S. '66, Cornell University; M.S. '68, University of Minnesota. Major: Soil Science. Minor: Geology. Thesis: Phosphorus Cycling in an East Central Minnesota Deciduous Hardwood Forest. Major Adviser: Prof. R. H. Rust.

Ronald Lee Soderstrom, Rochester

B.S. with high distinction '64, M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Millimeter Wave Harmonic Generation by an Indium Antimonide Magnetoplasma. Major Adviser: Prof. K. S. Champlin.

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B.S. with distinction '61, University of Minnesota; M.S. '67, Iowa State University. Major: Plant Physiology. Minor: Biochemistry. Thesis: Ethylene in Relation to Phytoherontology. Major Adviser: Prof. C. J. Weiser.

Paul Edward Tavernier, Minneapolis

B.A. '65, North Park College; M.S. '69, University of Minnesota. Major: Biochemistry. Minor: Microbiology. Thesis: Studies on the Ribosomal RNA from *Rhodospseudomonas Spheroides*. Major Adviser: Prof. E. D. Gray.

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B.A., M.A. '50, University of New Mexico. Major: History. Minor: Scandinavian. Thesis: The Defense Question in Sweden, 1911-1914. Major Adviser: Prof. H. C. Deutsch.

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B.A. '67, Bristol University; M.S. '70, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: An Accounting Study of Cost Behavior and Transfer Pricing of Management Information Systems. Major Adviser: Prof. C. R. Purdy.

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B.A. '55, M.A. '59, State University of New York, Albany. Major: Education. Minor: Mathematics. Thesis: An Experimental Evaluation of Structure in Proof in High School Geometry. Major Adviser: Prof. J. E. Stochl.

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B.A. '63, University of Minnesota; B.D. '66, North American Baptist Seminary; M.A. '69, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: A Case Study in Organization Development: The Role of Communication. Major Co-Advisers: Profs. W. S. Howell and G. L. Shapiro.

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B.S. '64, Iowa State University; M.S. '68, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: A Study of the (d, ∞) Reaction on the Even Titanium Isotopes. Major Adviser: Prof. N. M. Hintz.

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B.S. '57, St. Mary's College; M.A. '59, St. Louis University. Major: Theatre Arts. Minor: Supporting Program. Thesis: The Changing Concepts of Dramatic Action and Their Relationship to Theatrical Form. Major Adviser: Prof. J. D. Hurrell.

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B.A. '43, Kletzing College; M.A. '58, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of Attitudes of Christian and Missionary Alliance Clientele Toward Higher Education. Major Co-Advisers: Profs. R. E. Eckert and R. J. Keller.

David Nelson Wheeler, Chetwynd,
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B.S. with distinction '65, Stout State University; M.S. '66, Southern Illinois University. Major: Education. Minor: Supporting Program. Thesis: The Relationship Between Amount of Vocational Education and Measured Employment Success: A Study of Minnesota Post-High Vocational-Technical School Entrants. Major Adviser: Prof. H. F. Nelson.

Ida-Lorraine Jules Wilderson,
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B.A. '53, Xavier University; M.A. '58, University of Michigan. Major: Educational Psychology. Minor: Educational Administration. Thesis: The Relationship Between Black Awareness, Orientation for Achievement and Measured Ability in Urban High School Students. Major Adviser: Prof. B. E. Balow.

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B.S. '58, University of Maryland; M.S. '62, Pennsylvania State University. Major: Education. Minor: Educational Psychology. Thesis: A Cinematographical Analysis of Selected Sprint Starts in Track for Women. Major Adviser: Prof. M. U. Wilson.

Richard Martin Wolfson, Topeka,
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B.A. '65, College of William and Mary; M.A. '67, Vanderbilt University. Major: Political Science. Minor: Supporting Program. Thesis: Primary Representativeness: The Cases of Minneapolis and Los Angeles in 1969. Major Adviser: Prof. W. H. Flanigan.

Mary Lou Morris Wolsey, St. Paul

B.A. '58, Mary Washington College; M.A. '61, University of Kansas. Major: French. Minor: Spanish. Thesis: The Eracle of Gautier d'Arras: A Critical Study. Major Co-Advisers: Profs. J. L. Waldauer and H. F. Williams.

Lin Wright, Minneapolis

B.S. '54, M.A. '60, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: The Effect of Creative Drama on Person Perception. Major Adviser: Prof. K. L. Graham.

Fabian A. Yanez, Quito, Ecuador

C.E. '61, Central University of Ecuador; M.S.C.E. '67, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Optimization of Rapid Sand Filtration with a Polymer Filter Aid. Major Adviser: Prof. G. J. Schroepfer.

Tada Yipintsoi, Bangkok, Thailand

M.B., B.Ch. '58, Welsh National School of Medicine. Major: Physiology. Minor: Supporting Program. Thesis: Extraction of Diffusible Substances in Isolated Beating Canine Hearts. Major Co-Advisers: Profs. E. H. Wood and J. B. Bassingthwaighte.

Seongjae Yu, Seoul, Korea

B.L. '60, B.C. '62, Seoul National University; M.S. '67, Southern Illinois University. Major: Business Administration. Minor: Supporting Program. Thesis: A Markovian Model for the Review of the Internal Control System. Major Co-Advisers: Profs. G. B. Davis and John Neter.

Jon Paul Zbasnik, Ely

B.Phys. '66, M.Met.E. '69, University of Minnesota. Major: Metallurgical Engineering. Minor: Physics. Thesis: The Electronic Structure of Stoichiometric and Nonstoichiometric Vanadium Carbide Determined by the Method of Augmented Plane Waves. Major Adviser: Prof. L. E. Toth.

Doctor of Philosophy in Medicine

Russell F. Hanson, Minneapolis

A.B. '62, University of South Dakota; M.D. '66, University of Minnesota. Major: Medicine. Minor: Biochemistry. Thesis: Isolation, Identification, Formation, and Metabolism of $3\alpha, 7\alpha$ -Dihydroxy- 5β -Cholestan-26-Oic Acid in Man. Major Adviser: Prof. I. D. Franz.

Doctor of Philosophy in Physical Medicine and Rehabilitation

Murray Everett Brandstater, Hamilton,
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M.B.B.S. '57, Melbourne University. Major: Physical Medicine and Rehabilitation. Minor: Physiology. Thesis: An Analysis of Motor Units in Skeletal Muscle. Major Adviser: Prof. E. H. Lambert.

Doctor of Philosophy in Surgery

Alfonso Morales Zúñiga, Tapachula
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M.D. '63, National University of Mexico. Major: Surgery. Minor: Pathology. Thesis: The Importance of Bronchial Artery Circulation in Lung Transplantation. Major Adviser: Prof. C. R. Hitchcock.

Master of Architecture

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B.A. *summa cum laude* '66, Macalester College. Major: Music. Minor: Art History. Thesis: The Physiology of Pitch and the Role of Science in Twentieth Century Music Theory. Major Adviser: Prof. Paul Fetler.

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Cert. '59, Lycée La Fontaine. Major: French. Minor: Art History. Thesis: Labyrinth, Monsters and Monstrosity in Robbe-Grillet and Butor. Major Co-Advisers: Profs. A. A. Renaud and T. D. O'Donnell.

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B.A. *summa cum laude* '64, University of Minnesota. Field of Concentration: French. Major Adviser: Prof. J. L. Waldauer.

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B.S. *cum laude* '52, Columbia University. Major: Journalism. Minor: Curriculum and Instruction. Thesis: McClure's Magazine: A Decade of Influence in Public Affairs, 1897-1907. Major Adviser: Prof. W. E. Emery.

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B.A. '68, Oberlin College. Major: Speech Science, Pathology, and Audiology. Minor: Child Psychology. Thesis: An Operant Program Designed to Teach the Articulation of Final Consonants Viewed as a Response Class. Major Adviser: Prof. G. M. Siegel.

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B.B.A. '69, Marshall University. Major: Educational Psychology. Minor: Child Psychology. Thesis: A Reanalysis of Spatial Reasoning in Three Ethnic Groups Comparing Individual Data to Group Data. Major Adviser: Prof. D. H. Feldman.

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Carol Louise Heen, Maynard

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B.A. '70, University of Minnesota. Major: Speech-Communication. Minor: Sociology. Thesis: The Interpersonal Communication Breakdown Between Clergy and Laity in White Liberal Protestant Churches of America in the 1960's. Major Adviser: Prof. R. L. Scott.

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B.S. '67, Macalester College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. Barbara Redman.

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B.S. '54, St. Catherine's College. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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B.S. '52, Agronomical Institute, Romania. Field of Concentration: Soil Science. Major Adviser: Prof. R. H. Rust.

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B.S. with distinction '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. C. W. Rudelius.

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B.S. '71, Marquette University. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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B.S.Ag. with high distinction '70, University of Minnesota. Field of Concentration: Agricultural Economics. Major Adviser: Prof. D. C. Dahl.

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B.S. '67, University of Bridgeport. Field of Concentration: Public Health. Major Adviser: Prof. E. M. Anderson.

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B.S.N. *cum laude* '68, St. Olaf College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. Barbara Redman.

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B.A. with honors '70, MacQuarie University. Field of Concentration: Mathematics. Major Adviser: Prof. E. G. Fuhrken.

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B.S.N. *cum laude* '60, Gustavus Adolphus College. Field of Concentration: Nursing. Major Adviser: Prof. M. I. Harris.

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B.A. '56, University of California, Berkeley. Major: Genetics. Minor: Psychology. Thesis: Effect of Gene Expression on Mutagenesis by ICR-191 in *Escherichia Coli*. Major Adviser: Prof. L. A. Snyder.

James Edgar Floyd, Minneapolis

B.S. '70, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. Peter Rosko.

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B.S. with honors '61, University of Minnesota. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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B.A.E. with distinction '70, University of Minnesota. Field of Concentration: Fluid Mechanics. Major Adviser: Prof. J. P. Moran.

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B.S. '70, Oregon State University. Field of Concentration: Forestry. Major Adviser: Prof. J. M. Hughes.

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B.S. '70, University of Louisville. Field of Concentration: Botany. Major Adviser: Prof. E. C. Abbe.

Leland Stanley Grotte, Minneapolis

B.Chem. with high distinction '66, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. R. H. Cameron.

Fontaine Ray Hagedorn, Buhl, Idaho

B.S. *magna cum laude* '69, College of Idaho. Field of Concentration: Mathematics. Major Adviser: Prof. W. F. Pohl.

Dorothy Ellis Hammer, Cannon Falls

A.A. '56, B.S. '60, University of California. Field of Concentration: Home Economics. Major Adviser: Prof. R. N. Hey.

David Lee Hanson, Glenville

B.S. '68, University of Minnesota. Major: Fisheries. Minor: Entomology. Thesis: Abundance and Production Rate of a Stream Brook Trout Population. Major Adviser: Prof. T. F. Waters.

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

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M.A. '67, Magdalene College. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffmann.

Russell Craig Heinselman, St. Paul

B.Math. with high distinction '68, University of Minnesota. Major: Computer and Information Sciences. Minor: Mathematics. Thesis: Computerized Detection and Correction of Spelling Errors in FORTRAN Programs. Major Adviser: Prof. A. R. Hanson.

Kay Eileen Henkel, Duluth

B.S. '70, University of Minnesota, Duluth. Field of Concentration: Botany. Major Adviser: Prof. W. L. Koukkari.

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B.S. '66, California State College at Los Angeles. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Arlene Ann Hondl, Cold Spring

B.A. '69, College of St. Catherine. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Jane Wen-Hsin Wu Huang, Taipei, Taiwan

B.S. '68, National Taiwan University. Major: Animal Physiology. Minor: Biometry. Thesis: Mechanism of Movement of Drugs Across the Uterine Membrane. Major Adviser: Prof. G. E. Miller.

Duane A. Huckell, Hopkins

B.S. '67, University of Minnesota. Major: Forestry. Minor: Economics. Thesis: Some Timber Opportunity Costs of Recreation Development on the Superior National Forest. Major Adviser: Prof. J. M. Hughes.

Ngo Tan Hung, Vinh Binh, Vietnam

B.S. '67, National College of Agriculture, Saigon. Field of Concentration: Animal Science. Major Adviser: Prof. L. E. Hanson.

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B.S.N. with high honors '68, University of Minnesota. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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B.S. '70, Pace College. Field of Concentration: Business Administration. Major Adviser: Prof. Peter Rosko.

Leigh Alan Kessel, Minneapolis

B.S. '63, University of Michigan. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

Michael Anthony Kilgore, Spokane, Wash.

B.A. with high honors '69, B.S. with high honors '69, Washington State University. Field of Concentration: Mathematics. Major Adviser: Prof. E. F. Cline.

John Gordon King, St. Paul

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

Joseph Kowalik, New Britain, Conn.

B.A. '69, Boston University. Field of Concentration: Geology. Major Adviser: Prof. F. J. Sawkins.

Sun Kwok, Hong Kong

B.S. '70, McMaster University. Field of Concentration: Physics. Major Adviser: Prof. P. J. Kellogg.

Roger E. Lake, St. Paul

B.A. '67, Macalester College. Major: Wildlife. Minor: Ecology. Thesis: Browse Production in Two 33-Year-Old Wildfire Areas in Northeastern Minnesota. Major Adviser: Prof. W. H. Marshall.

Sofia Marina Ormaza de Landry,
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B.S. '66, University of Colorado. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Steven Jerome Lee, Concord, Calif.

B.A. '70, Bemidji State College. Major: Business Administration. Minor: Educational Psychology. Thesis: The Perception of Deception in Print Advertising (An Exploratory Study). Major Adviser: Prof. Ivan Ross.

Jauw Tjen Lie, Melbourne, Australia

M.B.B.S. '60, University of Melbourne. Major: Pathology. Minor: Related Fields. Thesis: Postmortem Diagnosis of Inapparent Early Myocardial Infarction by a New Histochemical Technique. Major Adviser: Prof. J. L. Titus.

Gerald James Lindbergh, Minneapolis

B.S. '70, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. T. K. Soulen.

Francisco Armet Mac-Clure,
Santiago, Chile

Dipl.Ing.Agr. '69, Universidad Catolica de Chile. Major: Animal Science. Minor: Related Fields. Thesis: The Effect of Forage Quality and Level of Concentrate Feeding on Milk Production and Related Parameters. Major Adviser: Prof. J. D. Donker.

Patricia Ann Magnuson, Minneapolis

B.S. '70, University of Minnesota. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Susan Kay Mahle, St. Paul

B.A. cum laude '70, Lawrence University. Field of Concentration: Zoology. Major Adviser: Prof. D. J. Merrell.

Kathleen Fain Manahan, St. Paul

B.S. '65, College of St. Teresa. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Gregory Richard Mansfield, New
Brighton

B.S.E.E. '64, Purdue University. Major: Computer and Information Sciences. Minor: Mathematics. Thesis: APL/Kronos: An APL Interpreter for the CDC 6000 Series Computer. Major Adviser: Prof. W. R. Franta.

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B.A. '56, College of St. Catherine. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. J. R. Hubbard.

Roger K. McLimans, Cudahy, Wis.

B.S. '69, University of Wisconsin. Major: Geology. Minor: Physical Chemistry. Thesis: Archean Conglomerates of the Vermilion District. Major Adviser: Prof. R. W. Marsden.

Dean Ray McWilliams, Crookston

B.A. '65, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. Daniel Pedoe.

John Andrew Mihm, Ivanhoe

B.S. '68, University of Minnesota. Major: Entomology. Minor: Ecology. Thesis: Ecological Observations on Predatory Mites in Relation to Northern and Western Corn Rootworms. Major Adviser: Prof. H. C. Chiang.

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B.B.A. '64, University of Michigan. Field of Concentration: Business Administration. Major Adviser: Prof. J. K. Simmons.

Hugo Eugene Miller, Jr., Minneapolis

B.S. '70, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. F. D. Irving.

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

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Edward Elmer O'Neill, St. Paul

B.S. '69, University of Nebraska. Major: Food Science and Industries. Minor: Biochemistry. Thesis: The Relationship of Surface Tension to Rancidity of Milk. Major Adviser: Prof. E. L. Thomas.

Larry Grant Paisley, Babb, Mont.

D.V.M. with distinction '70, Washington State University. Major: Veterinary Obstetrics and Gynecology. Minor: Veterinary Pathology. Thesis: The Effects of Exogenous Gonadotrophins on the Genital Tract of Bitches. Major Adviser: Prof. M. L. Fahning.

Seon-Ja Rhee, Seoul, Korea

B.S.N. '67, Seoul National University. Field of Concentration: Public Health. Major Adviser: Prof. E. M. Anderson.

Eddie Bert Robertson, Grayling,
Mich.

B.S. '69, Alma College. Major: Botany. Minor: Geology. Thesis: A Reassessment of the Position of the Eastern Depositional Boundary of the Cretaceous Hell Creek Formation in Western North Dakota. Major Adviser: Prof. J. W. Hall.

Francis Henri Roger, Brussels,
Belgium

M.D. '67, University of Louvain. Major: Biometry. Minor: Epidemiology. Thesis: An Evaluation of Serum Lactate Dehydrogenase Among Patients in a Diet Heart Survey. Major Adviser: Prof. E. A. Johnson.

Patrick Michael Rothamel, St. Paul

B.B.A. *summa cum laude* '66, University of North Dakota. Field of Concentration: Business Administration. Major Adviser: Prof. J. J. Mauriel, Jr.

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B.S. '68, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. L. C. Merriam, Jr.

Mikal Endre Saltveit, Jr., Minneapolis

B.A. '67, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. C. J. Weiser.

Joseph Beck Sanford, Valparaiso, Fla.

B.S. '69, University of Maryland. Major: Biology. Minor: Internal. Thesis: Nucleotide Phosphohydrolase Activities of the Plasma Membranes of Embryonic Chick Liver Cells. Major Adviser: Prof. M. D. Rosenberg.

Cary Lee Santee, Adrian, Mich.

B.S. '69, Adrian College. Major: Physical Chemistry. Minor: Organic Chemistry. Thesis: Temperature-Composition Phase Equilibrium in Polymer Liquid Crystals. Major Adviser: Prof. W. G. Miller.

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apolis

B.S. '59, South Dakota State University. Field of Concentration: Public Health. Major Adviser: Prof. D. J. Fredlund.

Richard John Seebach, Red Wing

B.Phys. '69, University of Minnesota. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. P. J. Nicholson.

Gary Don Siesennop, Bloomington

B.S. '69, University of Minnesota. Major: Fisheries. Minor: Related Fields. Thesis: The Effect of Temperature on the Toxicity of Copper, Phenol and Hydrogen Sulfide to the Amphipod, *Gammarus Pseudolimnacus*, Bousfeld. Major Adviser: Prof. L. L. Smith, Jr.

Thomas William Skemp, La Crosse,
Wis.

B.A. '70, St. Mary's College. Field of Concentration: Public Health. Major Adviser: Prof. R. G. Bond.

Janet Rae Smith, Cedar Rapids, Iowa

A.B. '68, Grinnell College. Major: Physics. Minor: Mathematics. Thesis: A Study of the Rho-Zero Meson in the Reaction Pi-Minus Proton Goes to Pi-Plus, Pi-Minus, Neutron at 3.65 GeV/c. Major Adviser: Prof. Keith Ruddick.

Mari Soekörv, Göteborg, Sweden

Fil.Mag. '70, University of Lund. Major: Mathematics. Minor: Biometry. Thesis: Topics in Simple Groups. Major Adviser: Prof. E. F. Cline.

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B.A. '65, Elon College. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

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B.A. *cum laude* '70, St. Thomas College. Field of Concentration: Business Administration. Major Adviser: Prof. J. K. Simmons.

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B.S. '70, University of Minnesota. Field of
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Thomas Joseph Teehan, Dublin,
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B.Ag.S. with honors '66, University College,
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ence. Major Adviser: Prof. W. J. Boylan.

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B.Econ. '70, University of Malaya. Field of
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of Concentration: Mathematics. Major Ad-
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B.S. with high honor '70, Michigan State
University. Major: Computer and Information
Sciences. Minor: Industrial Engineering.
Thesis: The Robustness of Analytic Models
of Operating Systems. Major Adviser: Prof.
W. R. Franta.

Daniel James Vavrick, St. Louis Park
B.A.E. with distinction '68, University of
Minnesota. Field of Concentration: Mech-
anics. Major Adviser: Prof. W. H. Warner.

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B.S. '69, Iowa State University. Field of
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B.A. *magna cum laude* '67, Wartburg Col-
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Major Adviser: Prof. K. R. Meyer.

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B.A. '66, University of Minnesota. Major:
Wildlife. Minor: Biometry. Thesis: Winter
Food Habits and Habitat Preferences of Deer
in Northeastern Minnesota. Major Adviser:
Prof. R. J. Mackie.

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B.S. '65, M.B.A. '70, Seoul National Univer-
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ministration. Major Adviser: Prof. N. L.
Chervany.

Norman Walter Yogerst, Thompson
Falls, Mont.
B.S. '63, University of Idaho. Field of Con-
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A. C. Mace.

Master of Science in Agricultural Engineering

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B.S.A.E. '67, Iowa State University. Field of
Concentration: Agricultural Engineering. Major
Adviser: Prof. C. L. Larson.

Daniel Evan Peterson, Waseca
B.Ag.E. '70, University of Minnesota. Major:
Agricultural Engineering. Minor: Mechanical
Engineering. Thesis: A Power Control System
for an Agricultural Tractor with a Hydrostatic
Transmission. Major Adviser: Prof. John Strait.

Master of Science in Civil Engineering

Orestes Michael Bevilacqua, Los Angeles, Calif.

B.S. *cum laude* '68, University of California at Los Angeles. Major: Civil Engineering. Minor: Related Fields. Thesis: Development and Application of an Automotive User Cost Evaluative Technique. Major Adviser: Prof. M. J. Huber.

Arthur James Greengard, Jr., West St. Paul

B.C.E. '67, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. L. P. Pederson.

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B.E. '69, Bangalore University. Field of Concentration: Civil Engineering. Major Adviser: Prof. H. I. Epstein.

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B.S. with distinction '65, U.S. Naval Academy. Field of Concentration: Civil Engineering. Major Adviser: Prof. M. J. Huber.

Master of Science in Dentistry

James Edward Spitzmueller, St. Paul

B.S. '66, D.D.S. '68, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: An Evaluation of the Warm Gutta Percha Technique for Sealing Root Canals. Major Adviser: Prof. J. R. Jensen.

Master of Science in Electrical Engineering

Ahmed Abdelrafeh Belal, Alexandria, Egypt

B.S. '66, University of Alexandria. Field of Concentration: Electrical Engineering. Major Adviser: Prof. B. A. Shenoi.

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B.E.E. '69, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Bruce Allen Bicknell, Minneapolis

B.S.E.E. '69, Purdue University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

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B.E.E. '68, Chulalongkorn University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. H. Park.

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B.S.E.E. '69, Drexel University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. M. Waltz.

Eugene Francis Dumstorff, Rochester

B.S.E.E. '69, Iowa State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Y. Kain.

Tatsuo Fujiwara, Tokyo, Japan

B.S. '62, Tohoku University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Signal to Noise Ratio of Magneto-Optical Kerr Read-out. Major Adviser: Prof. J. H. Judy.

Millard Mathew Garrison, Edina

B.E.E. '63, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. W. P. Robbins.

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B.S.E.E. '60, University of Nebraska. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

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B.S.E.E. '68, Pennsylvania State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. M. Warner, Jr.

Master of Science in Geo-Engineering

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B.Min.E. with distinction '70, University of Minnesota. Field of Concentration: Geo-Engineering. Major Adviser: Prof. D. H. Yardley.

Master of Science in Industrial Engineering

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B.S. '68, Seoul National University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

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B.E.E. '68, Chulalongkorn University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

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B.Tech. with honors '66, Indian Institute of Technology. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

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B.E. '67, College of Engineering, Guindy. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Venkateswar Rao Tella, Hyderabad, India
B.E. with distinction '70, Sri Venkateswara University. Field of Concentration: Industrial Engineering. Major Adviser: Prof. S. R. Arora.

Master of Science in Mechanical Engineering

Kenneth Wayne Bartelt, St. Paul
B.S.M.E. with high distinction '69, Valparaiso University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Decaying Annular Swirl Flow with Inlet Solid Body Rotation. Major Adviser: Prof. C. J. Scott.

Robert Bruce Heimdahl, North St. Paul
B.M.E. '70, University of Minnesota. Major: Mechanical Engineering. Minor: Computer and Information Sciences. Thesis: A Study of Sheath Air Impactor. Major Adviser: Prof. B. Y. Liu.

John Lowell Beck, Byron
B.S.M.E. with honors '64, South Dakota School of Mines and Technology. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Vishvesh Kumar Maini, Ludhiana, India
B.E. with honors '70, Birla Institute of Technology and Science. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. J. L. Threlkeld.

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B.M.E. with distinction '68, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. W. A. Kleinhenz.

Ronnie LeRoy Tang, Felton
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Eugene Raymond Theis, Eden Valley
B.Ag.E. with high distinction '71, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

Master of Science in Mineral Resources Engineering

Nestor H. Castro, Medellín, Colombia
Engr. '63, National University of Colombia. Field of Concentration: Mineral Resources Engineering. Major Adviser: Prof. D. H. Yardley.

Allan Dale Paananen, Ishpeming, Mich.

B.S.Ch.E. '69, Michigan Technological University. Major: Mineral Resources Engineering. Minor: Internal. Thesis: The Flocculation Behavior of Calcite Using Corn Starch. Major Adviser: Prof. Iwao Iwasaki.

Master of Science in Radiology

Ralph Cramer, Jr., Elmwood, Okla.
B.S. '58, Oklahoma State University; M.D. '64, University of Oklahoma. Major: Radiology. Minor: Pathology. Thesis: A Simple Non-thrombogenic Coating: Experimental and Clinical Study. Major Adviser: Prof. Kurt Amplatz.

Patricia Ann Randall, Neenah, Wis.
B.S. '61, M.D. '66, University of Wisconsin. Major: Radiology. Minor: Pathology. Thesis: The Spleen and Congenital Heart Disease: Pathologic Findings and Radiographic Correlations. Major Adviser: Prof. Kurt Amplatz.

Master of Social Work

Nancy Mae Abramson, St. Paul
B.S. with honors '66, University of Colorado. Field of Concentration: Social Work. Major Adviser: Prof. B. J. Potter.

Stephanie Jilaine Black, Robbinsdale
B.A. '70, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. Annalee Stewart.

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Charlene Talsma Doyle, Oak Lawn, Ill.

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Dell Warren Evans, Worthington

B.A. '66, St. Cloud State College. Field of Concentration: Social Work. Major Adviser: Prof. G. S. Orfald.

Florence Elizabeth Fadell, Minneapolis

B.A. '66, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. Annalee Stewart.

Allan Byron Finkelstein, Golden Valley

B.S. *magna cum laude* '70, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. M. R. Cohn.

Pamela Perbix Folk, Hopkins

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B.A. '69, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. Gisela Konopka.

Donald Leo Generous, Minneapolis

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Janet Marie Hagberg, Minneapolis

B.S. '68, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. L. N. Scott.

William David Harrison III, Chapel Hill, N.C.

A.B. '70, University of North Carolina. Field of Concentration: Social Work. Major Adviser: Prof. D. A. Whitmore.

Ricardo Guillermo Haskins, Monterrey, Mexico

B.A. '70, Macalester College. Field of Concentration: Social Work. Major Adviser: Prof. Richard Sterne.

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Linda Katherine Kinney, St. Paul

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Terrence Jerome Tompkins, Minneapolis
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Certificate of Specialist in Education

Philip Monroe Dyrud, Newfolden
B.A. '64, Augsburg College; M.A. '70, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. N. C. Nickerson.

Jimmy Dale Libby, Ringsted, Iowa
B.S. with distinction '64, M.A. '67, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. W. R. Cross.

Hattie Woods Moreland, Chelmsford, Mass.
B.S. with distinction '55, Prairie View Agricultural and Mechanical College of Texas; M.A. '64, University of Minnesota. Field: Special Education. Major Adviser: Prof. D. G. Force, Jr.

Walter Jerome Simonson, Sauk Rapids
B.S. '61, St. Cloud State College; M.A. '67, University of Minnesota. Field: General Educational Administration. Major Adviser: Prof. C. P. Hooker.

COLLEGE OF AGRICULTURE

Bachelor of Landscape Architecture

Gregory Harold Albers, Dundas
Allen James Amiot, A.A.S., Crookston

Timothy William Erkkila, St. Paul

Bachelor of Science

- Norman Stuart Abbe, Owatonna
 James Keith Aderhold, Rosemount
 Emeka H. Agorua, Oguta, Biafra
 Joel Richard Anderson, Lamberton
 Dale Lawrence Bachman, Minneapolis
 Bruce Emmet Beckman, Bird Island
 Dennis William Bengtson, Little Falls
 Glenn Alan Bessingpas, Preston, WITH
 DISTINCTION
 Robert Wesley Blake, Minneapolis
 Louis James Blazek, Hudson, Wis.
 Gordon Lee Borner, Hastings
 Gregory Louis Brambrink, St. Cloud
 Ronald Allan Branch, Starbuck
 Kim Howard Brandt, Thief River Falls
 Michael Conway Caskey, Glenwood
 Marty Jay Christensen, Rochester
 LeRoy Vernon Dahlke, Arlington
 Daniel George Deml, Owatonna
 Judy Ellen Edberg, Minneapolis
 John Gordon Edlin, Jackson
 Darroll Darvis Engelmann, Glencoe
 Betsy Knight Evensen, Effie
 Beverly Jean Felska, Hutchinson,
 WITH HIGH DISTINCTION
 Jerry Lee Floden, Waldorf
 John Robert Frederiksen, St. Paul
 Dean Ray Fultz, Tracy, WITH
 DISTINCTION
 Daniel Iver Gensmer, Hutchinson,
 WITH DISTINCTION
 Kenneth Matthias Giesen, New
 Prague
 Gene Michael Gilman, Garden City
 Brian Edward Glass, Minneapolis
 Gary Joseph Gorton, St. Paul
 Gordon Henry Grimm, Norwood
 Marguerite Mary Grundtner, St. Paul
 Paul Eugene Haack, Marshall
 Gerald Edward Hackett, Jr., Hastings,
 WITH DISTINCTION
 Leroy E. Harmon, St. Paul
 Roy Harold Harrington, St. Paul
 Joan Eva Heinrich, St. Paul, WITH DIS-
 TINATION
 Paul Arnold Holmen, Comfrey, WITH
 DISTINCTION
 Mary Elizabeth Hopkins, A.A.S.,
 Janesville, Wis.
 Thomas Richard Howard, A.A., Merrifield, WITH DISTINCTION
 Lynn Lester Huges, Chandler
 Philip Micheal Huinker, A.A., Austin
 Steven John Hundley, New Brighton
 Daniel Robert Jennrich, St. Paul
 Larry J. Paul Jensen, Pipestone
 Roy Allen Johnson, Red Wing, WITH
 HIGH DISTINCTION
 Michael Patrick Kennedy, Delano
 Dennis G. Kreter, A.A., Rochester,
 WITH DISTINCTION
 Thomas Anton Kucera, Crookston
 Clive Frank Lake, Montevideo,
 Uruguay
 Karen C. Larson, Mabel, WITH
 DISTINCTION
 Bruce Edward Leeth, Richfield
 Junelle Evelyn Lewis, Minneapolis
 David Timothy Lind, Minneapolis,
 WITH DISTINCTION
 Merlin Robert Mackenthun,
 Brownton
 Dennis Wayne Malenke, Brewster
 Rebecca Lynn Naegele, St. Anthony
 Village, WITH HIGH DISTINCTION
 Gregory John Noland, A.A., Hayward
 Gary Lee Nuechterlein, St. Paul, WITH
 HIGH DISTINCTION
 Peter William Ongstad, Minneapolis,
 WITH DISTINCTION
 Richard Joseph Pavek, Faribault
 Eric Lance Perkins, St. Paul
 Jill Ann Pinckaers, Minneapolis, WITH
 DISTINCTION
 Donald Steven Rakstad, Crystal
 Patricia Irene Rauenhorst, Olivia,
 WITH DISTINCTION
 Fredrick Alan Raymond, A.A.,
 Rochester
 Dennis Wayne Rondorf, Thief River
 Falls, WITH DISTINCTION
 Gary Lester Rydeen, Marine-on-St.
 Croix
 Bruce David Sandstrom, Brainerd
 Charles John Sartell, A.A., Wadena
 Sheldon John Schiebe, Plymouth
 Charles George Schilling, A.A.S.,
 Frazee

Donald Arthur Schulz, Madison Lake
 Charles Edward Schwartz, Arlington
*David Craig Sellman, Almelund, WITH
 DISTINCTION*
*John Alvin Sethre, Carlisle, WITH
 DISTINCTION*
*Stanley Lynn Smith, Grand Marais,
 WITH DISTINCTION*
 Keevin Royal Speckman, Sleepy Eye
 Felix Jens Spinelli, Orange, N.J.
 Robert Craig Starz, Zumbro Falls
 Woodrow Ole Stene, Minneapolis
 Frederick Charles Strand, Elk River

Craig Floyd Swenson, Glenwood
 Mark Gottlieb Tessmer, Rogers
 Betty Sharman Thorpe, Canby
 Dennis Howard Tyrrell, Browerville
*Daniel John Undersander, St. Cloud,
 WITH DISTINCTION*
 Theodore L. Vershey, Tracy
 Alan Kent Walker, Alden, WITH
 DISTINCTION
 Linda Ann Wolf, White Bear Lake,
 WITH DISTINCTION
 Aivars Zakis, Richfield

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Thomas John Bosshardt, Nerstrand
 Rolland Eugene Durst, Kasson
 Dale Jerome Engan, Grove City
 Steven William Frodl, Owatonna
 Thomas James Hart, A.A., Austin
 Michael Lee Holmberg, Avoca
 Daniel Lawrence Larson, LeRoy

Dale Dwight Molnau, St. Louis Park
 Gary Charles Nagel, Boyd
 Wayne Fremont Olson, Braham
 Iven Luther Ose, Thief River Falls
 Duane Malcolm Steele, A.A., Spicer
 Michael Richard Tomschin, Spring-
 field

COLLEGE OF AGRICULTURE AND COLLEGE OF EDUCATION

Bachelor of Science

Clinton George Becker, Blooming
 Prairie
 Gary Steven Brinkmeier, Brownton
*Donald Lee Buhl, Tyler, WITH
 DISTINCTION*
 John Donald Floden, Waldorf
*Michael Carl Hanson, Windom, WITH
 DISTINCTION*
 John Orven Hellerud, Nerstrand
 Duane Gilmer Hutton, Northfield
 Gary Marvin Johnson, Upsala
 Kenneth Merlin Johnson, Minneota
 Bennett P. Jorgensen, A.A.,
 Stewartville
 Rene Douglas Koester, Northfield

Michael John Mainz, Hastings
*David Kent Murray, Blue Earth,
 WITH HIGH DISTINCTION*
*Steven Richard Nordsiden, Russell,
 WITH DISTINCTION*
 Vernon James Quade, Wells
*Martin Thomas Rudolph, Little Falls,
 WITH DISTINCTION*
 Steven Norman Sodeman, St. James
 Gerald Kieth Starz, St. Paul
*Eldred Edmund Statz, Foley,
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*Dennis Dean Uittenbogaard, Slayton,
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 Charles Paul Walerius, New Prague

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

- Gary Allen Ackert, St. Paul
Leonard David Aldes, St. Louis Park
Patricia Joan Alkire, Edina
Roger James Blahník, A.A., Spring Valley, CUM LAUDE, Zoology
Steven Edward Bondow, Neenah, Wis., MAGNA CUM LAUDE, Biology
Barbara Jane Bulbulian, St. Paul
James Earl Burrell, Thief River Falls
Florence Yu Chan, Hong Kong, SUMMA CUM LAUDE, Microbiology
Arlen Dwight Denny, Minneapolis
Peter Arthur Dickinson, Stillwater
Brian Franklin Drazich, B.Phys., Proctor, SUMMA CUM LAUDE, Biology
Arloa Irene Eckels, Bloomington, SUMMA CUM LAUDE, Zoology
Gerald Scott Finer, Edina
Thomas John Fischbach, St. Paul
Harvey Benjerman Friedenson, Duluth, SUMMA CUM LAUDE, Biology
Mary Carol Gannon, Minneapolis
Gregory Allen Granrud, Moorhead
Michael Jeffrey Haas, St. Paul, SUMMA CUM LAUDE, Biochemistry
Timothy Dean Ham, Sherburn
Stephen Henry Hemker, Hopkins
Delman Richard Hogen, Minneapolis
James Martin Hogle, Minneapolis, SUMMA CUM LAUDE, Biochemistry
Scot William Hutton, A.A., Worthington, SUMMA CUM LAUDE, Biology
Daniel Vern Johnson, Maple Plain
Dennis Lowell Johnson, Anoka
Timothy Malcolm Johnson, Stillwater
Alan David Kangas, St. Paul
Philip Douglas Kath, Rochester, SUMMA CUM LAUDE, Biology
David Baker Kispert, St. Paul
Katherine Linda Kuha, Eagle Bend
John Jacob Kusmaul, Jr., Fort Wayne, Ind.
Allan Wayne Meadows, A.A., Virginia
Thomas Joseph Meier, Pine City, SUMMA CUM LAUDE, Biology
Paul John Meyer, Melrose
Steven D. Morrill, West St. Paul
Kurt Harold Myrnel, Bloomington
Douglas Lloyd Nelson, Minneapolis, SUMMA CUM LAUDE, Biochemistry
Jeffrey Loren Nelson, Mahtomedi, SUMMA CUM LAUDE, Biology
Kevin Roger Nickelson, Scandia
Ervin Edward Nothnagel, Burnsville
Charles Warren Opp, Cottage Grove
Patrick Eugene O'Regan, Montgomery
Bruce David Orensteen, St. Paul, SUMMA CUM LAUDE, Biology
Robert Jerome Peplin, Edina
Richard Frederick Peterson, Benson
Sharon Lee Pfeifer, B.A., Minneapolis, CUM LAUDE, Biology
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Caroline Ann Polta, Minneapolis
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Rapepun Rungraungpanaskul, Hat-Yai, Thailand
Carl Keith Samaroo, A.A., Trinidad, West Indies
Rosemary Nancy Sampson, A.A., Hibbing
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Craig William Schultz, New Brighton
Paul Wesley Schultz, Rochester
Steven John Schuur, Luverne
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SUMMA CUM LAUDE, *Biology*
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John William Wakely, Bloomington,
CUM LAUDE, *Biology*

Timothy Francis Walseth, St. Paul
Park
Paul David Wightman, Rochester
Gerald Charles Wodtke, Minneapolis
James Owen Woolliscroft, Alexandria,
SUMMA CUM LAUDE, *Biology*

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Steven R. Abbott, West St. Paul
James Milton Abrahamson, St. Paul,
WITH DISTINCTION
Dennis Dean Adams, Bloomington
John Guinney Adams, B.A.,
Minneapolis
James Michael Ahlvers, Mankato
Edward Randall Ahrens III, Fridley
Kevin Michael Alaspa, Duluth
Gordon Lee Alexander, Jr., Edina,
WITH HIGH DISTINCTION
Thomas Hugh Allen, Minneapolis
Bruce DeWayne Anderson,
Alexandria
Gary Wilbur Anderson, Minneapolis,
WITH DISTINCTION
Gregory Raymond Anderson,
Minneapolis
Richard Arthur Anderson, Brooklyn
Park
William Gene Arends, Minneapolis
Hanza Asgharali, Karachi, Pakistan,
WITH DISTINCTION
Brian Edward Barnett, Mankato
Ronald David Bartz, Coon Rapids
David John Beck, Norcross
Dennis Robert Behrendt, Minneapolis
Stephen Jeffrey Beisang, Minneapolis
Robert Walter Beltz, Jr., St. Paul,
WITH DISTINCTION
Russell L. Bengtson, Braham,
WITH DISTINCTION
Richard Lee Bennett, Coon Rapids
Brian Edwin Benson, Minneapolis
Eugene David Benting, Bloomington
Donald Chant Berglund, Minnetonka,
WITH DISTINCTION
Daryl Jerome Bergmann, Bloomington,
WITH DISTINCTION

LeRoy Allen Bergquist, South St. Paul
Gregory Warde Bernhardt, Richfield
Gary Allen Berquist, A.A., Litchfield
Ann Lorraine Berry, Roseville, WITH
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Phillip Frank Boehmke, St. Paul
Carla Marie Boner, Minneapolis
Robert Raymond Borscheid, Mound
John Paul Bottko, Minneapolis
Glen Russell Boyd, St. Paul, WITH
DISTINCTION
John Charles Breen, Blue Earth
Ron George Bremer, Faribault, WITH
DISTINCTION
Jeffrey Michael Brown, St. Paul,
WITH DISTINCTION
David Duane Brudevold, Minnetonka,
WITH DISTINCTION
Richard James Brumbaugh,
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William Scott Brune, Richfield
Andrew W. Buck, St. Paul
Robert Burnette Buck, Goodhue,
WITH DISTINCTION
Joel Ernest Buffington, Minneapolis
John Charles Burke, Golden Valley
Russel Edward Carlson, B.A.,
Stillwater
Geoffrey John Carman, Minneapolis
Timothy George Celusta, Minneapolis
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Arnold Tse Yen Chu, B.S., China
George John Claseman, St. Paul,
WITH DISTINCTION
Stephen Edway Cobb, Jr., Excelsior
Michael Ian Cohen, Minneapolis

Michael Allen Corbett, A.A., Forest Lake
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 Norajean Crowley, St. Paul
 William Marshall Dahlen,
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 Milton Eugene Dale, Jr., Lexington
 Albert John D'Amour, Cottage Grove
 Jon Bruce Darling, B.A., White Bear Lake
 Randall Lee DenHerder, St. Paul
 Stephen Gregory Dennis, Richfield,
 WITH HIGH DISTINCTION
 Gary James Dietrich, Rosemount
 James Anthony Dosen, Chisholm,
 WITH DISTINCTION
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 Wabasha
 Roger Eugene Duffy, Rosemount
 James Roy Duos, Minneapolis,
 WITH DISTINCTION
 James Ebbitt, Ottawa, Ontario,
 Canada
 Richard Erick Edin, St. Louis Park
 Thomas Leo Eiden, Melrose
 Thomas Alfred Engdahl, A.A.,
 Minneapolis
 Kenneth Lee Erickson, Minneapolis
 Robert John Ernt, Minneapolis,
 WITH HIGH DISTINCTION
 Collin Carl Exsted, Glencoe
 William Andrew Ferguson, Winona
 Harvey Allan Filister, Minneapolis
 Richard Ernest Filpula, A.A., Middle
 River
 Bruce Marshall Fink, St. Paul, WITH
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 Edward John Fitzgerald, St. Paul
 Thomas Frederick Geren, A.L.A.,
 Prior Lake
 John Michael Giblin, St. Paul, WITH
 DISTINCTION
 Donald John Grabowski, A.A.,
 Minneapolis
 James Vincent Greenwood, St. Cloud,
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 Fredrick Allan Gren, Richfield, WITH
 DISTINCTION
 Glen Wayne Grippen, Fort Snelling

Stephen John Guy, Arlington
 Ronald James Hagen, St. Paul
 John William Hall, St. Paul
 James Lester Halling, Minneapolis
 Paul Jeffrey Halvorson, St. Paul,
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 Bruce Henry Hanley, Hopkins, WITH
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 Terry Wallin Hanna, Eden Prairie
 Alan Lloyd Hans, Minneapolis, WITH
 DISTINCTION
 Albert John Hart, St. Paul
 Thomas Earl Hatcher, St. Louis Park
 Franklyn Curtis Hathaway,
 Minneapolis
 Frederick Lee Hauenstein, St. Paul
 Mark Anthony Hervey, Chaska,
 WITH DISTINCTION
 Douglas Gerard Hill, South St. Paul
 Kenneth David Hirschey, Minneapolis
 Michael Thomas Hoekstra, Buffalo,
 WITH HIGH DISTINCTION
 Clifford William Hoffman, Richfield,
 WITH DISTINCTION
 David M. Hoffmann, Minneapolis
 Jeffrey Paul Hotek, Buffalo, WITH
 HIGH DISTINCTION
 David Charles House, Austin
 Gerald Thomas Hudok, A.A.,
 Minneapolis
 Scott Lee Hudson, Marshall, WITH
 DISTINCTION
 Ted Raymond Huebner, Hastings,
 WITH HIGH DISTINCTION
 Jennifer Carol Ische, Minneapolis
 Charles Allen Janzen, Roseville
 Robert Allan Jensen, Osceola, Wis.
 Frank John Jershe, Ely
 Steven Russell Johnsen, St. Paul
 Dennis Robert Johnson, Minneapolis
 James Matthew Johnson, A.A.,
 Virginia
 Karl Emil Johnson, Siren, Wis.
 Leslie Roy Johnson, Eagan Township
 Richard James Johnson, Minneapolis,
 WITH HIGH DISTINCTION
 Richard Duane Jones, Minneapolis
 James L. Kallevig, Willmar
 Allen Ray Karinen, Minneapolis
 Gregory Michael Kask, West St. Paul

Richard Patrick Kastner, Aurora, Colo.
 Beatrice Hebzynski Kearney,
 Columbia Heights
 Benjamin Timothy Keillor, Anoka
 Ryan Lee Kemmerick, A.A., Austin
 Dennis Paul Kerber, Minneapolis,
 WITH DISTINCTION
 Vance Lyle Kinkel, A.A., Minneapolis
 Gordon Joseph Kircher, B.A., St. Paul,
 WITH DISTINCTION
 Glenn L. Kirsch, Blaine
 James Glenn Knoblauch, Edina,
 WITH DISTINCTION
 Jimmy Luitlen Kong, St. Paul
 Sheldon Kermit Krona, Minneapolis
 Donald G. Kunz, St. Paul
 Theodore Allen Kvasnik, St. Paul
 Richard McKenzie Laing, Minneapolis
 Neil Nissan Lapidus, St. Louis Park
 Robert Emmett Lee, Excelsior
 Joseph William Letourneau, St. Paul
 David Emil Lindberg, St. Paul
 Bruce Allen Lindstrom, Minneapolis,
 WITH DISTINCTION
 Helen Opdahl Livingston,
 Minneapolis
 George Bruce Loban, St. Paul
 Jerome Thomas Lodahl, Richfield
 George Charles Lohmer, Jr., Fridley
 Robert Francis Lommel, Jr.,
 Glenwood
 Scott Arnold Lourey, Minneapolis
 Laurence Raymond Lunden, Jr., A.A.,
 Minneapolis
 Edward Spencer Lynde, Minneapolis
 Thomas Edward Maitrejean, St. Paul
 Robert Lincoln Manke, St. Paul,
 WITH HIGH DISTINCTION
 John Paul Mayerle, St. Paul,
 WITH DISTINCTION
 Thomas Patrick McCullough, St. Paul,
 WITH DISTINCTION
 Robert James McDaniel, Rosemount
 John Michael McGinnis, Minneapolis
 James Sawyer McIntyre, Minneapolis
 Thomas Dudley McLeod, Minneapolis
 William James McManus, St. Paul
 William Alan Messer, Fridley
 Richard David Mickelson, A.A.,
 Milaca
 Curtis Hull Miller, Minneapolis

Jeffrey Michael Miller, Annandale
 Lynn Dale Miller, Owatonna
 Michael Charles Miller, Minneapolis,
 WITH DISTINCTION
 Thomas Rollin Minor, Golden Valley
 Thomas Paul Mliner, St. Anthony
 Village
 Gary Stephen Morgan, Austin
 Alan Lee Morrison, Edina
 Robert William Mudge,
 Minneapolis
 Richard Gerald Mueller, A.A.,
 St. Paul, WITH DISTINCTION
 Melanie Clare Murn, St. Cloud,
 WITH HIGH DISTINCTION
 David Leroy Neumann, Minneapolis
 John Donovan Newman, Wayzata
 Thomas Toivo Nieminen, B.Phys.,
 Minneapolis, WITH DISTINCTION
 James Sawyer Nippert, St. Paul
 David Irwin Norling, Bloomington
 Robert James Norman, South St. Paul
 John Manley Norris, Minneapolis
 Michael Dennis O'Keefe, St. Paul
 Thomas Edward O'Leary, Brooklyn
 Park, WITH DISTINCTION
 Ronald Sigurd Olsen, Minneapolis
 Ronald Theodore Olson, St. Paul
 James Keith Oman, Minneapolis
 Rochelle Stark Ondell, La Crosse,
 Wis.
 David Robert Orenstein, St. Louis
 Park, WITH DISTINCTION
 James Bradley O'Rourke, Minneapolis
 John David Orrill, Minneapolis
 Richard Joseph Ortmann, A.A.,
 Rochester, WITH DISTINCTION
 Richard Allen Oslund, Crystal
 Paul Dennis Ostergaard, St. Paul
 Lutz Wolfgang Pape, Minneapolis,
 WITH DISTINCTION
 James Donald Pavlik, Minneapolis
 Richard Kurt Pogin, St. Paul, WITH
 DISTINCTION
 Frederick Wayne Polkey, A.A.,
 Minneapolis
 Scott McKinley Potter, St. Paul Park
 Larry Charles Pratt, Minneapolis,
 WITH HIGH DISTINCTION
 Gary Martin Purkat, Keewatin,
 WITH HIGH DISTINCTION

Robert Richard Raatz, Brooklyn Park
 John Roger Racek, Owatonna, WITH
 DISTINCTION
 Curtis Loel Ratcliff, St. Paul
 Timothy Edward Reardon, St. Paul
 Wayne Reynolds, A.A., Edina
 Dale Alan Robertson, Minneapolis
 Ned Theodore Root, Dassel
 Dennis Patrick Roy, A.A., Grand
 Rapids
 Ronald Edward Ruegg, Pine Island
 Charles Jeffrey Sackett, Minneapolis
 Brian Paul Saevig, Richfield
 David Edward Schelling, White Bear
 Lake
 James Joseph Scheuring, St. Paul,
 WITH DISTINCTION
 David Harlan Schrupp, St. Louis Park
 Dale Valdyn Schulz, Minnetonka
 Gertrude Ida Pauline Sehman, West
 St. Paul, WITH DISTINCTION
 James Allen Shingler, Minneapolis
 Daniel Morris Silver, Minneapolis
 Steven Lee Skallerud, Newport
 John Thomas Skovran, Burnsville
 Sheryle Louise Spartz, Slayton, WITH
 DISTINCTION
 Daryl Arden Spilde, Cedar Rapids,
 Iowa, WITH DISTINCTION
 James William Stahlke, Delano
 Richard Ralph Staub, West Concord
 Robert Elliot Stein, St. Paul
 Marc Dana Stemp, A.A., Chatfield,
 WITH DISTINCTION
 Alan Bruce Stevenson, Minneapolis
 Richard John Stolp, Jackson
 Lawrence William Strunk, Palo Alto,
 Calif.
 David William Suck, Minneapolis
 Thomas Arthur Sveum, Robbinsdale
 Charles Douglas Swenson,
 Bloomington
 Dennis George Sycks, St. Paul
 Patrick Daniel Taylor, Minneapolis,
 WITH DISTINCTION
 Thomas Michael Taylor, A.L.A.,
 Grand Meadow

Ronald Dale Theis, Minneapolis,
 WITH DISTINCTION
 Dennis Clifford Thompson, Minne-
 apolis
 Darryl Lee Thorvilson, Robbinsdale,
 WITH DISTINCTION
 Donn Leroy Thorvilson, Robbinsdale,
 WITH DISTINCTION
 Christopher David Thuftedal,
 St. Anthony Village
 James Richard Toren, Worthington
 Gordon Duane Torgerson, Badger
 Jeffery Charles Tregillis, A.A., Grand
 Rapids, WITH DISTINCTION
 Robert Triebenbach, St. Paul
 Raoul Noel Tsakok, Kowloon,
 Hong Kong
 Gregg Rolland Tulien, Burnsville
 Steven Paul Urtel, Lake Elmo
 James Peter Vales, Minneapolis
 Dean Bernie Valtinson, Minneapolis
 Bruce Anthony Van Beusekom,
 Minneapolis
 Jeffrey Keith Vest, Minneapolis,
 WITH DISTINCTION
 Ted Curtis Victor, Wayzata
 James Bruce Wallace, South St. Paul,
 WITH DISTINCTION
 Richard Albert Wallin, A.A., Babbitt
 Dwight R. Ward, Mabel
 Gary Thomas Warnberg, Richfield
 Robert Lewis Wexler, Hopkins
 Roy Harry Whitney, Minneapolis
 Jeffrey Raymond Wilkins, Glencoe,
 WITH DISTINCTION
 Kevin Fredrick Wille, St. Louis Park
 James Vernon Wittich, Bloomington,
 WITH DISTINCTION
 Alice Leung Woo, Minneapolis
 Donald John Zajac, Minneapolis
 Charles Allen Zajicek, Hopkins
 James Edward Zimmerman, Edina,
 WITH HIGH DISTINCTION
 Dale Raymond Zobel, St. Paul
 Dale Albert Zwiaska, Minneapolis

CONTINUING EDUCATION AND EXTENSION

Senior Business Administration Certificate

Theodore William Alm, Monticello
Donald Gerald Anderson, Rosemount
Jerome Joseph Borell, St. Paul

Marilyn Dean Hagerman, Hopkins
Richard Edmund Ogren, St. Paul

Social Work Certificate

Carl Roger Ahlman,
Marine-on-St. Croix
Frances O. Beckman, Minneapolis
George Davis, St. Paul
James Eugene Hogie, Jr., Coon Rapids
Frances Julia Link, Minneapolis
Victor Sherman McCoy, Minneapolis

Mary Kay McNamara, Minneapolis
Mary Elizabeth Siemer Neustel,
West St. Paul
Dorothy Luther Rose, Minneapolis
Jerome Lee Soma, Anoka
John Neil Tift, Minneapolis

SCHOOL OF DENTISTRY

Bachelor of Science

Craig Wallace Amundson, A.A.,
Worthington, WITH HIGH
DISTINCTION
Edward Andrew Anderson, Detroit
Lakes, WITH DISTINCTION
Frederick John Anderson, Duluth
Matt Michael Anzelc, Biwabik
Terry J. Began, A.A., Chisholm
Paul Roy Bengtson, Bemidji
Robert Charles Biesterfeld,
Minneapolis, WITH DISTINCTION
Richard Bruce Brown, Altoona, Wis.,
WITH DISTINCTION
John Westrom Burnham, Milwaukee,
Wis., WITH HIGH DISTINCTION
Dennis Lee Carlson, B.A., Orr, WITH
DISTINCTION
John Rodman Cornell, B.A., St. Paul
Steven Reidar Daehlin, Great Falls,
Mont., WITH DISTINCTION
Bruce Michael Davenport, Fergus
Falls
Roger Allen Dunphy, Minneapolis
Scott Douglas Erler, Minneapolis
Roderick Stephen Fox, Grand Rapids
Paul Allen Fredrikson, Davenport,
N.D.

Paul John Griffin, Gilby, N.D.
Glenn Thomas Haggan, B.A.,
Minneapolis, WITH HIGH
DISTINCTION
Robert William Hasel, Westbrook
Robert Dean Hille, St. Paul, WITH
DISTINCTION
Terrance Arthur Huusko, Virginia
Dana John Isaacson, Bemidji, WITH
DISTINCTION
Leonard Raymond Jacobsen, St. Paul
Donald Edward Johnson, South
St. Paul
Randall Warren Johnson, Round Lake
Roger Ben Johnson, A.A., Brainerd
Robert Lee Keifer, Montevideo
Douglas James Kohlan, Minneapolis
Duane Robert Lennartson, Duluth
Gregory William Ludden, La Crosse,
Wis.
Michael Charles Mardell, Rosemount
James Dal Pra Marotzke, Minneapolis
Dimitri T. Matsan, Jr., Minneapolis,
WITH DISTINCTION
Clarence Anthony McCarty,
Minneapolis
Jeffrey Harold Miller, B.A., St. Paul

Frederick William Nolting, Edina
 Paul Dillon O'Brien, Marble
*Daniel John O'Connell, Chippewa
 Falls, Wis., WITH DISTINCTION*
 Mark Reque Omlie, Wayzata, WITH
 HIGH DISTINCTION
 Douglas Lyle Peak, Jr., Hollandale,
 WITH DISTINCTION
 John Anthony Perell, Hibbing,
 WITH DISTINCTION
 Ronald Mark Peterson, Moorhead
 Frank Joseph Resch, Minneapolis
 Richard Warren Scarp, Minneapolis
 Eugene Joseph Schneeweis, Jr.,
 Duluth
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 Minneapolis

Stephen Schwalbach, North St. Paul
 Mark Stanley Simmons, B.A.,
 Minneapolis
 Ronald Allen Snyder, Willmar,
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 Victor Leonard Sofie, A.A.,
 Mahtomedi, WITH DISTINCTION
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 Gregory James Strozinsky, Burnsville
 Barbara Jean Thompson, Minneapolis
 Rosalie Ann Warpeha, B.A., Bedford,
 Mass., WITH DISTINCTION
 James Frederick Westman, Duluth,
 WITH DISTINCTION
 Sister Anita Whalen, A.A., Crookston,
 WITH HIGH DISTINCTION
 James Jordan Wheeler, B.S., Fosston

Doctor of Dental Surgery

Harvey Alan Akerson, B.S., Mankato
 Frederick John Anderson, Duluth
 Wallace Jay Anderson, B.S.,
 Minneapolis
 Robert Charles Beattie, B.S.,
 Whitewater, Wis.
 Theodore Marvin Beeman, B.S.,
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 Paul Roy Bengtson, Bemidji
 Dennis Lee Carlson, B.A., Orr
 Donald Phillip Carlson, Minneapolis
 Robert Lloyd Childress, B.A., B.S.,
 Mora
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 Kirk Robert Dahl, B.S., Minneapolis
 Thomas Allen Daniels, B.A.,
 Rockford, Ill.
 Steven Paul DeKoster, B.S.,
 Hutchinson
 James Mark Eliassen, B.S., Grand
 Marais
 John Frederick Englund, B.A.,
 Minneapolis
 Gary Eugene Epp, A.A., B.S.,
 Virginia
 Ted J. Erickson, B.S., Starbuck
 Norman Gerald Fahrenheit, B.A.,
 B.S., Edina
 James Gibbs Figsenshaw, B.A., B.S.,
 Big Lake

Steven James Flinn, B.A., B.S.,
 Redwood Falls
 Barry Donald Gerst, B.S., Minneapolis
 John Melvin Gilbertson, B.A.,
 Willmar
 John Mark Grunseth, B.S., Mandan,
 N.D.
 Steven Frank Gunberg, B.A., B.S.,
 Minneapolis
 David Walter Gunelson, A.A., B.S.,
 Hibbing
 Richard Leslie Hafdahl, Virginia
 Craig John Hamilton, B.S.,
 Minneapolis
 Dennis Wayne Harnish, B.S., St. Paul
 John Lee Harrison, Jr., B.S.,
 Minneapolis
 Robert William Hasel, Westbrook
 Robert Dean Hille, St. Paul
 John Charles Hitzemann, Hutchinson
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 Willmar
 Stephen Richard Hoyem, B.S.,
 Mankato
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 Appleton
 John Blair Hughes, B.S., Roseville
 Bruce David Hustad, B.S., Duluth

James Michael Jagusch, B.S.,
Mahtomedi

Randall Warren Johnson, Round Lake

Roger Ben Johnson, A.A., Brainerd

Ross Harcourt Johnson, B.A., Austin

Mark Joseph Juetten, B.S., St. Paul

Brad Mark Kasson, B.S., Wahpeton,
N.D.

Robert Lee Keifer, Montevideo

Ronald Lee King, B.S., Richfield

Michael Neil Lampi, B.S., Richfield

Lyndon Lee Liebelt, New Hope

David Carl Lind, A.A., Virginia

Richard Allen Look, B.S., San Ramon,
Calif.

Richard George Lorenz, B.S.,
Paynesville

Steven Kent Mahler, B.S., Franklin

Michael Charles Mardell, Rosemount

Ernest Eastburn Martin III, B.S.,
Grand Forks, N.D.

Wayne Anton Mattern, B.S.,
Bismarck, N.D.

Max M. McMullen, B.A., Minneapolis

Meredith Mellon, B.S., Campbell

Daniel H. Mensor, B.A., B.S.,
Minneapolis

Anthony Charles Michelich, B.S.,
Keewatin

Carney Mark Middleton, B.S.,
Minneapolis

Dennis Allan Miller, B.S., Arlington
Heights, Ill.

Jeffrey Harold Miller, St. Paul

Stephen John Morris, B.A., Dassel

Steven Paul Nadeau, Minneapolis

Stephen George Nagy, B.A.,
Rochester

David Paul Nelson, Minneapolis

Michael John Nielsen, B.A., Grand
Rapids

Jerome Raymond Nyberg, B.S., North
Branch

John David Nydahl, B.S., Eden
Prairie

Paul Dillon O'Brien, Marble

William Patrick O'Brien, B.S.,
St. Peter

Daniel Owen Odegaard, B.S.,
Minneapolis

Richard Moe Page, B.A., B.S.,
Merrill, Wis.

John Charles Pearsall, B.S., Virginia

Anthony August Pesola, St. Louis Park

Gary Ray Peterson, St. Paul

Steven John Poeschl, B.S., St. Paul

Frederick Eldred Renneke, B.S.,
Richfield

Jeffrey Allan Rossmann, B.A., B.S.,
St. Paul

Robert Henry Rubey, B.S., Sleepy Eye

Robert Dean Saeger, B.A., Bemidji

Mark Edward Schurke, A.A., B.A.,
Minneapolis

Stephen Schwalbach, B.S., North
St. Paul

Ronald Kent Scott, B.S., Eau Claire,
Wis.

James Paul Segerstrom, B.S., River
Falls, Wis.

Jerry Wayne Sherwood, B.S., South
St. Paul

Dennis Edgar Simpson, B.S.,
Menomonie, Wis.

Gary Ralph Smisek, B.S., Minneapolis

Michael James Spencer, B.S.,
Minneapolis

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William Allen Struve, B.S., Rochester

Thomas Frederick Styrlund, B.S.,
St. Cloud

James Arthur Ude, B.A., St. Paul

Donald Joseph Vidmar, B.M.E., Chis-
holm

Rosalie Ann Warpeha, B.A.,
Bedford, Mass.

Dennis LeRoy Wavrin, Owatonna

James Jordan Wheeler, B.S., Fosston

Graduate Dental Hygienist

Sharon Rae Alm, St. Paul
Carol Cleo Anderson, St. Paul
Donna Marie Bateman, La Crescent
Deborah Ann Beebe, New Richmond,
Wis.

Jane Ellen Brooks, St. Louis Park
Kathleen Kay Brown, Morris
Carol Jean Budin, Northfield
Rebecca Jean Burggraf, Roseau
Paula Jean Christenson, Albert Lea
Margaret Ann Christian, Dundas
Cynthia Marie Ciampi, St. Paul
Shirley Marie Diem, St. Paul
Mary Louise Dierling, A.A.,
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MaryAnn Dlugosch, St. Cloud
Jacquelyn JoAnn Duscha, Minneapolis
Mary Lee Exon, A.A., Minneapolis
Faye Marie Fegley, Minneapolis
Carol Jean Gohdes, St. Paul
Carol Louise Grand, Bemidji
Suzanne Frances Groen, Crystal
Deborah Lynn Hanzlik, Bozeman,
Mont.

Debra Jane Harnish, Duluth
Carol Anne Hirt, Hibbing
Jacalyn Marie Janesky, Hibbing
Barbara Lee Johnson, Cambridge
Dianne Ella Johnson, Mounds View
Harriet Susan Kasprick, Edina
Nancy Elizabeth Kaysen, St. Paul

Cynthia Ann Kish, Fridley
Patricia Ann Korogi, Minneapolis
Katherine Mae Krier, Minneapolis
Debra Helen Kuipers, Hopkins
Jean Mary LeBrun, Pipestone
William Fred Lindig, St. Paul
Martha Jean Niemi, Hibbing
JoAnne Kaye Norton, Anoka
Linda Ann Novak, New Prague
Nancy Joy Novaria, Minnetonka
Linda Jean Valley O'Connell,
Chippewa Falls, Wis.
Elizabeth Maren Ogren, Edina
Diane Yvonne Peterson, St. Louis
Park
Christy Lynn Schjeldahl, Excelsior
Kathleen Ann Schrippe, Minneapolis
Trisha Lynn Schroeder, Anoka
Diane Marie Schultz, Minneapolis
Idona Marie Scofield, Minneapolis
Deborah Rae Singlestad, Minneapolis
Linda Jean Svendsen, Minneapolis
Sue Anne Thell, St. Paul
Patricia Ann Tripp, Owatonna
Cynthia Ann Tuttle, St. Paul
Margie Rose Verly, Marshall
Jean B. Werner, White Bear Lake
Susan Jean White, St. Paul
Ann Lucille Wiberg, White Bear
Lake

COLLEGE OF EDUCATION

Bachelor of Science

Mary Jean Ahlgren, Mora, WITH HIGH
DISTINCTION
Andrea Colleen Allard, St. Paul
Barbara Jean Anderson, Minneapolis,
WITH DISTINCTION
Bruce Harold Anderson, Fridley
Bruce Kenneth Anderson, Minneapolis
Connie Joan Anderson, Minneapolis,
WITH DISTINCTION
Diane Pauline Anderson, New
Brighton

Glenda Lee Anderson, Minneapolis,
WITH DISTINCTION
James L. Anderson, St. Paul, WITH
DISTINCTION
Julie Ann Anderson, St. Paul
Kathleen Moo Anderson, B.A.,
St. Paul
Mark Stephen Anderson, Crookston
Marlene Vivian Anderson,
Minneapolis, WITH HIGH
DISTINCTION

John Alden Anker, Minneapolis
 Ann Alexander Anklam, Excelsior,
 WITH DISTINCTION
 Gregory R. Anklam, St. Louis Park
 Kathleen Vynette Anttila, Henning,
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 Kathryn Ann Aspenson, Stillwater,
 WITH HIGH DISTINCTION
 Richard Ernest Backley, Minneapolis
 Ulla Christine Backstrom,
 Nordmaling, Sweden, WITH
 DISTINCTION
 LeAnn Karen Baker, B.A., Minneapo-
 lis, WITH HIGH DISTINCTION
 Ella Anne Baldwin, A.L.A., Minne-
 apolis
 Patricia Louise Baribeau, Richfield
 Lenore Kaye Barker, Minneapolis,
 WITH DISTINCTION
 John William Barrie, Minneapolis
 Elizabeth Ann Baskin, B.A., Minne-
 apolis
 Michael Thomas Beahen, Crystal
 Alice Kay Bechik, St. Paul, WITH
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 Martha Elizabeth Beckman, Minne-
 apolis
 Joann Susan Bell, Minneapolis, WITH
 DISTINCTION
 Nancy Lou Bellefeuille, Bloomington,
 WITH DISTINCTION
 Gwendolyn Beth Benson, Buffalo
 Ralph David Berg, St. Paul, WITH
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 Barbara Joan Jensen Bergerson, B.A.,
 Minneapolis
 David Lloyd Bergerson, Minneapolis
 Harriet Beth Bershow, Minneapolis
 Karlyn Page BeVier, Minneapolis,
 WITH DISTINCTION
 Harold Charles Bicking, Minneapolis
 Barbara Ann Bigley, Minneapolis
 Linda Jean Bissonette, Minneapolis,
 WITH DISTINCTION
 Joyce Marlene Moe Blegen, Saginaw,
 Mich.
 Mark Theodore Blomgren, West St.
 Paul
 John Joseph Bodey, B.S.B., St. Paul

Jeffrey David Bodin, Esko
 John Dolliff Boelter, Jr., Arlington
 Terry Johnson Bolduc, B.A., St. Paul,
 WITH DISTINCTION
 Marnie Bowen Bolstad, Minneapolis,
 WITH DISTINCTION
 Velma Lorraine Boreen, Minneapolis
 Marie Annette Bosmans, Minneapolis,
 WITH DISTINCTION
 Janet Lynn Bouman, Burnsville
 Elizabeth Ayars Bovee, Duluth
 William Thomas Bowman, A.A.,
 Minneapolis, WITH DISTINCTION
 Jeanne A. Braun, Ipswich, S.D., WITH
 DISTINCTION
 Martin Thomas Brenny, A.L.A., Little
 Falls
 Barbara Beth Bressler, Luverne, WITH
 HIGH DISTINCTION
 Janet Rae Brunner, Zumbrota
 Barbara Kay Bruns, Hinckley, WITH
 DISTINCTION
 Bojana Rose Bryan, St. Paul
 John Michael Buske, Rochester, WITH
 DISTINCTION
 Nina Lanette Dillenburg Buzzell,
 Blaine, WITH DISTINCTION
 Jerry Wayne Byzewski, Minneapolis
 Sharon Lee Cardinal, Brooks, WITH
 DISTINCTION
 Joan Marion Carlsen, Edina, WITH
 HIGH DISTINCTION
 Elizabeth Ann Carlson, White Bear
 Lake, WITH DISTINCTION
 Gail Victoria Carlson, Roseville
 Thomas Roy Carlson, Plymouth
 Mary Katherine Carroll, Bloomington,
 WITH DISTINCTION
 Paul Erling Christensen, A.A., Askov,
 WITH DISTINCTION
 Thomas Owen Christensen, St. Paul
 Thomas William Collins, Edina
 Kay Margaret Collison, Dundas, WITH
 DISTINCTION
 Helen Juliette Cotton, Minneapolis,
 WITH DISTINCTION
 Sandra Jane Coulter, Minneapolis
 Robert Joseph Culbertson, South St.
 Paul
 David Loren Dahlke, Minneapolis

Eugene Gunn Daly, St. Cloud, WITH
DISTINCTION

Judy Ann Damerow, Hopkins, WITH
DISTINCTION

Jackie Lynn Dietrich Daniel, Lubbock,
Tex.

Patricia Ann Davy, Minneapolis

Janine Frances deLambert, St. Paul,
WITH DISTINCTION

Trudy Hanson Delich, St. Paul, WITH
DISTINCTION

Barbara Joan Dellago, Minneapolis,
WITH DISTINCTION

Teresa Lynn Deppa, Minneapolis

Merlyn DeRider, Faribault

Emma Jean E. DeRosier, A.A.,
Brainerd

Pamela Jean Dettmer, Owatonna,
WITH DISTINCTION

John Byron Dewey, Jr., Bloomington

Alice Margaret Dickinson, A.A.,
Richfield

Kathleen Jane Diercks, Edina

MaryLou Collard Dinneen, St. Paul

Lorraine Carolyn Dittbenner,
Minneapolis

Caroline Agnes Klute Dittberner, St.
Paul, WITH DISTINCTION

Carol Jean Dixon, Shakopee

Nancy Leone Dobbs, Tyler

Mary Joan Dodds, A.A., Mahtomedi

Betsy Ann Haglof Dolmar, Richfield,
WITH HIGH DISTINCTION

James Edward Domian, A.A., St. Paul

Ruth Marie Donahue, Hastings, WITH
DISTINCTION

Virginia Kay Donohue, Minneapolis

Jane Catherine Dougherty, Richfield

Donald Douglas Dow, Minneapolis,
WITH DISTINCTION

George William Dramdahl, St. Paul,
WITH DISTINCTION

Barbara Ann Drobinski, St. Paul

Jeri Louise Drury, Minneapolis

Lesley Ellen DuFresne, Minneapolis,
WITH DISTINCTION

Donald John Dumais, Silver Bay, WITH
DISTINCTION

Nancy Jean Duncan, Flandreau, S.D.,
WITH DISTINCTION

Terry Lorn Dutton, Bixby

Nathan Wyatt Earp, Albert Lea

Mary Ruth Kronstedt Edlen, Minne-
apolis

Karen Kay Edmunds, Minneapolis,
WITH DISTINCTION

Or Della Krein Ehrmann, WITH
DISTINCTION

Sharon Leona Ehrmantraut, South St.
Paul, WITH DISTINCTION

Kathleen Ann Eickman, Rochester,
WITH DISTINCTION

Larry Gordon Ekegren, Richfield,
WITH DISTINCTION

Susan Mary Eldred, Minneapolis

Richard Cecil Elliott, B.A., St. Paul,
WITH HIGH DISTINCTION

Terri Lynn Engdahl, A.L.A., St. Louis
Park, WITH DISTINCTION

Karla Ruth Eppeland, St. James,
WITH HIGH DISTINCTION

Mark Joseph Erickson, St. Paul

Mary Ramona Erwin, North St. Paul,
WITH DISTINCTION

Pamela Katherine Feldhake, Minne-
apolis

Elaine Joanne Fenney, Minneapolis,
WITH DISTINCTION

David Michael Ferroni, Eveleth

Stephanie Ann Fidell, St. Louis Park,
WITH DISTINCTION

Nancy Margaret Fiedler, Chaska, WITH
HIGH DISTINCTION

Margaret Rose Findley, Lake City

Helen Louise Fishback, A.A., White
Bear Lake

Jack Lawrence Fisher, Webster, S.D.

Kristin Ann Finsness Fisher, Minne-
apolis

Christine Fisk, Minneapolis, WITH
DISTINCTION

Donald Richard Flatten, A.A., Bloom-
ington, WITH DISTINCTION

Roberta Kay Flatten, Minneapolis,
WITH DISTINCTION

Paulette Ann Koppe Fleming, Fergus
Falls, WITH DISTINCTION

Marie Theresa Foley, St. Paul, WITH
DISTINCTION

Gregory Harold Ford, Luverne, WITH
HIGH DISTINCTION

Cleo Mae Fors, Minneapolis, WITH
 HIGH DISTINCTION
 Alan Thomas Forsberg, B.C.E.,
 Clarkfield
 Merrill Maurice Forte, Hannibal, Mo.
 Darlene Moller Fredlund, Richfield,
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 Elaine J. Furney, A.A., Minneapolis,
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 Nancy Susan Gadd, Fridley, WITH
 DISTINCTION
 Steven Lloyd Gale, Minneapolis
 Grace E. Gamradt, A.A., Blaine, WITH
 HIGH DISTINCTION
 Pamela Leah Garland, Albany, Ore.,
 WITH DISTINCTION
 Mary Fussner Garrett, Minneapolis,
 WITH DISTINCTION
 Barbara Jean Gates, North St. Paul,
 WITH DISTINCTION
 Patricia Ann Geber, B.A. magna cum
 laude, St. Paul
 Gary Arthur Geisler, Pine City, WITH
 DISTINCTION
 Alton Maynard Gentz, Lakefield,
 WITH DISTINCTION
 Katherine Manion George, New
 Brighton, WITH DISTINCTION
 Sandra Claire Gerken, Minneapolis,
 WITH DISTINCTION
 Robert Steven Gershow, St. Paul,
 WITH DISTINCTION
 Kathryn Maude Gleason, St. Paul,
 WITH DISTINCTION
 Elizabeth A. Gleisner, St. Paul
 Bert Goran Gotrich, Minneapolis
 Shirley Heille Graczyk, Minneapolis
 Kathy Ann Graff, Worthington
 Nancy Jean Graham, St. Paul, WITH
 HIGH DISTINCTION
 Margaret Ann Gravesen, St. Paul,
 WITH DISTINCTION
 Laura Jeanne Grayson, St. Paul, WITH
 DISTINCTION
 Anne Marie Green, Minneapolis,
 WITH DISTINCTION
 Margaret Bernice Green, Minneapolis,
 WITH DISTINCTION
 Margaret Mary Green, Minneapolis,
 WITH DISTINCTION

Karen Rhaye Gregg, Anoka
 Diane Mary Greshowak, Minneapolis,
 WITH HIGH DISTINCTION
 Thomas Stephen Griffin, St. Paul
 Elizabeth Jane Grimes, Bloomington
 Suzanne Lynn Gruhlke, Princeton,
 WITH DISTINCTION
 Gail B. Gullgren, Minneapolis
 Paul Michael Gunderson, Minneapolis
 Susan Marie Gutzmann, New
 Germany
 Heidrun Gertrud Hagen, St. Paul,
 WITH HIGH DISTINCTION
 Beth Waterhouse Hager, Rochester,
 WITH DISTINCTION
 Joanne Pontius Halatsis, Eagle Bend
 Josephine Breckenridge Haldeman,
 Minneapolis, WITH HIGH DISTINC-
 TION
 Laura Jeanne Pollard Halldin, Way-
 zata, WITH DISTINCTION
 Phyllis Jeanette Anderson Halverstadt,
 Hamel, WITH DISTINCTION
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 WITH DISTINCTION
 Diane Cecile Hamm, St. Paul, WITH
 DISTINCTION
 Carole Susan Hansen, Jackson
 Judith Branton Hanson, A.A., Bloom-
 ington, WITH DISTINCTION
 Vicki Rae Hanson, Albert Lea
 Paul Otto Hardt, Richfield, WITH
 HIGH DISTINCTION
 Marjorie Mikelson Harein, St. Paul,
 WITH DISTINCTION
 Bruce William Harriman, Brooklyn
 Center, WITH DISTINCTION
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 Susan Aileen Hawley, Minneapolis,
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 Edina
 Sharon Louise Hedman, Columbia
 Heights
 Timothy Michael Heikkila, Superior,
 Wis.
 Annette Marie Heim, Minneapolis

Christine Ann Wisniewski Heimer, St. Paul
Michael John Herbert, St. Paul
Gayle Ann Herman, Brooklyn Center
Diane Renee Herseth, Minneapolis
Mary Elizabeth Ann Hetzler, Minneapolis, WITH DISTINCTION
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Betty Eleanor Holmes, Minneapolis
Ronald Robert Holmgren, Litchfield
Michele Jacqueline Holt, Minneapolis
Alvin Parnell Holter, Crystal
Sharon Darlyne Horrigan, Sedro Woolley, Wash., WITH HIGH DISTINCTION
Kathryn Jane Hovey, Albert Lea
M. Roseshel Howe, Carlton, WITH DISTINCTION
Robert Bruce Hutcheson, Edina
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Gloria Jean Ische, Cologne, WITH DISTINCTION
Anne Jackson, Arlington Heights, Ill., WITH DISTINCTION
Craig Fredric Jackson, St. Paul, WITH DISTINCTION
Louise Marie Jacobs, Bird Island, WITH DISTINCTION
Mary Kay Janowicz, Minneapolis, WITH DISTINCTION
Sally Ann Jenner, B.S., St. Paul, WITH DISTINCTION
Barbara Ann Sprain Johnson, St. Paul
Charles Harley Johnson, Minneapolis, WITH DISTINCTION
Janet Alice Johnson, Minneapolis
Jean Leslie Johnson, Grand Rapids, WITH DISTINCTION
Kathleen Ann Johnson, St. Paul
Scott Leland Johnson, A.A., Minneapolis, WITH DISTINCTION
Francis I. Johnston, A.A., White Bear Lake, WITH DISTINCTION
Adolphus Spencer Jones, Minneapolis
Deborah Holman Jorgenson, Bloomington
Mary Katherine Joyce, St. Paul, WITH DISTINCTION
Clifford Denman Juhlke, B.A., Minneapolis
Kathleen Dorothy Kalin, Robbinsdale, WITH DISTINCTION
Roxanne Elaine Kamel, Minneapolis, WITH HIGH DISTINCTION
Deedra Gail Kamenow, Minneapolis, WITH HIGH DISTINCTION
Deborah Mary Kamesch, St. Louis Park
John Lowell Kantar, Minneapolis, WITH DISTINCTION
Barbara Ellen Kappes, St. Louis Park
Linda Louise Karppinen, Moorhead
Kevin Keal, Moorhead, WITH DISTINCTION
Randall Dean Keillor, Anoka, WITH DISTINCTION
Helen Louise Kelley, Minneapolis, WITH DISTINCTION
Kathleen Ann Kennedy, Hopkins, WITH HIGH DISTINCTION
Nancy Kay Keprios, Bloomington, WITH DISTINCTION
Shirley T. Keran, B.A., St. Paul
Alice-Jo Korn Kermes, St. Paul
Susan Jane Kerns, Minneapolis, WITH DISTINCTION
Margaret Catherine Kerr, B.A., Minneapolis
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field, Wis.
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tional Falls
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 Kathryn Ann Simonson, Windom
 Richard Herman Simonson, McIntosh
 Ronald Arthur Simonson, Chisholm

- Meritta Joy Simpkins, Minneapolis,
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- Gary Norval Skorheim, Minneapolis
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- Jan Ingrid Smaby, Minneapolis
- Kathryn Small, Minneapolis
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- Teresa Lee Smetana, Minneapolis
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- Linda Gabrielson Smith, Luverne,
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Neb.
- Jane Murbach Stanley, Elyria, Ohio
- Susan Anne Stark, Minneapolis
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- Nancy Louise Steen, Minneapolis,
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- Linda Frances Stegura, Minneapolis
- Maria Rosa Steinheiser, Minneapolis
- Susan Irene Steller, Excelsior
- Craig Richard Stempf, Excelsior
- Paul Christopher Steneroden, St. Paul
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- William Cook Stone, Minneapolis
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- Steven Craig Swanson, St. Paul
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- Gregory John Tacik, St. Paul
- Gary Edward Talbot, Minneapolis
- Warren Gary Tang, Minneapolis
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SUMMA CUM LAUDE, Psychology
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- Gregory James Tavernier, North St. Paul

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- Steven Glenn Thompson, St. Paul,
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- Charles Ray Thueson, Minneapolis,
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- Ludvig Earl Towner, Coon Rapids
- James Edward Trevis, Farmington
- Michele Annette Tschida, St. Paul
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- Ruth Marlene Ulferts, Minneapolis
- Patricia Ann Uppgaard, St. Paul
- Karen Kay Varma, Minneapolis
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Heights
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- Dianne Mary Von Feldt, St. Paul
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- Craig Steven Vossen, Minneapolis
- Dennis Leo Vossen, Lambertton
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- David J. Walcher, Hopkins, SUMMA
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- Pamela Jean Waldron, Minneapolis,
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- Steven Paul Wallfred, Minneapolis
- Dale Charles Wallin, Mound
- Timothy John Wallin, Minneapolis
- Edward Patrick Walsh, St. Paul
- Lee Walter, St. Paul
- James Arvid Wandell, Pine City
- Barbara Ann Wanger, St. Paul
- Jeffrey Alan Ward, St. Paul
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Ky., MAGNA CUM LAUDE, *French*
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- William John Watson, Edina
- William Weller Weaver, Park Rapids,
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- Myles Jay Weinblatt, St. Paul
- Elaine Ann Weismann, Minneapolis
- Carolyn Marie Wendell, Minneapolis
- Craig Walter Wendland, Rochester
- Judith Julig Wepplo, Fridley
- Glenn Joseph Werneke, St. Paul
- Jeannine Johannah Werner, Minneapolis
- Mark Steven Wernick, St. Louis Park
- Mary Jo Westmoreland, Minneapolis
- Bruce Clyde Wetherby, St. Paul,
CUM LAUDE, *Psychology and Speech
Science, Pathology, and Audiology*
- Elizabeth Jane Wheeler, St. Paul,
SUMMA CUM LAUDE, *History*
- Linda Marie Whitford, Minneapolis
- Thomas Arden Whitnah, Brooklyn
Center
- Susan Audrey Wichmann, Conger,
MAGNA CUM LAUDE, *Journalism*
- Diane E. Wickstrom, A.L.A., Minneapolis,
SUMMA CUM LAUDE, *History*
- Sherilyn Ann Wigdahl, Minneapolis
- Norma Jeanne Wigen, Minneapolis
- Alfred Jawanza Williams, Miami, Fla.
- Robert Roy Wills, Richfield, SUMMA
CUM LAUDE, *History*
- Larry Alan Winans, A.A., Minneapolis

Margaret Karin Winchell, Minneapolis, *SUMMA CUM LAUDE*, *English and Russian*
 Stephen Douglas Wismer, Minneapolis
 Bradley Andrew Wistrom, Minneapolis
 Stephen Wayne Witt, Minneapolis
 Kurt Allen Witte, Hopkins
 Linda Marie Wojcik, Minneapolis
 Ronald James Wolfe, Minneapolis, *CUM LAUDE*, *History*
 Margaret Ann Wolff, Minneapolis
 Gerald John Wolinski, A.A., Minneapolis
 Suzanne H. Woodbridge, Minneapolis
 William James Woods, Livingston, Mont.

David Mandeville Worrell, Minneapolis
 Beverly Jean Wright, Minneapolis, *SUMMA CUM LAUDE*, *Speech*
 Mary Lee Wright, St. Paul
 Margaret Ann Wuertz, Austin
 Kathleen Louise Wyland, Minneapolis
 Donna Mae Youngdahl, St. Paul
 Paul Anthony Zagaria, St. Paul
 Geraldine Marie Zappa, St. Paul
 Howard Joseph Zechmeister, South St. Paul
 Joseph Michael Zeimetz, Avon
 William Karl Zimmer, Inver Grove Heights
 William John Zwart, A.A., Rochester

Bachelor of Elected Studies

John William Brink, Westport, Conn.
 Richard William Dinter, Milbank, S.D.
 Maryann Favour, St. Paul

John Dennis Lawler, Albert Lea
 Alan Marshall Miller, Minneapolis
 Grant Arnold Pylkas, A.A., South St. Paul

Bachelor of Fine Arts

Steven Mark Andersen, Minneapolis, *SUMMA CUM LAUDE*, *Studio Arts*
 John Robert Anderson, Trimont
 John Thomas Byron, Jr., West St. Paul
 Mary Forbes Drips, Rochester
 Alan Phillip Johnson, Minneapolis
 Randy James Johnson, *White Bear Lake*, *MAGNA CUM LAUDE*, *Studio Arts*
 Michael Robert Keene, Minneapolis
 Michael Lunde Lokensgard, Mankato
 Chrisann Mahle, Minneapolis, *MAGNA CUM LAUDE*, *Studio Arts*
 Janis Rae Mattox, St. Paul
 Judith Lois Meyer, Minneapolis
 Geraldine Karen Obert, *Battle Creek, Mich.*, *MAGNA CUM LAUDE*, *Studio Arts*

Edmund Ferdinand Raas, Basel, Switzerland
 Gene Edward Rubinstein, Devon, Pa.
 Mary Kathleen Schlais, Jacobson, *SUMMA CUM LAUDE*, *Studio Arts*
 John Leo Sonderegger, Minneapolis
 Terry Robert Streich, Springfield
 Bradley Roy Struble, St. Paul
 John Torii Suzuki, St. Paul
 Robert Francis Therien, *Golden Valley*, *SUMMA CUM LAUDE*, *Theatre*
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 Federico von Borstel, Mexico
 James Patrick Yunker, A.A., *Edina*, *SUMMA CUM LAUDE*, *Studio Arts*
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MEDICAL SCHOOL MEDICAL TECHNOLOGY

Bachelor of Science

Judy Ann Bakke, Canby*
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DISTINCTION*
Colleen Faye Blackberg, Duluth*
Bonita Frances Bouta, New Hope*
Teresa Ann Boyd, Minneapolis*
Katherine Ann Bungum, Bloomington*
Allynne Ola Burg, Bronx, N.Y.*
Mary Ethel Burke, Anoka*
Katherine Anne Calander, Minneapolis, WITH DISTINCTION*
Florence Eiden Deutsch, Minneapolis*
Lynn Christine Drecktrah, Minneapolis, WITH HIGH DISTINCTION*
Jean Margaret Elwell, Hill City*
Marjorie Elizabeth Gigeay, Waseca*
Sylvia Leona Gilland, Sleepy Eye,
WITH HIGH DISTINCTION*
Elizabeth Caroline Grabowski,
Hopkins*
Nina G. Ipanis, Minneapolis*
Barbara Jean Jacobson, Robbinsdale*
Nancy Meredith Janssen, St. Paul*
Pernella Marie Johnson, Princeton*
Victoria Mae Johnson, Minneapolis*
Peggy Claire Kohner, Mora*

Gayle Andrea Lancette, Minneapolis*
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City, WITH HIGH DISTINCTION*
Donna Lynn McCabe, Golden Valley,
WITH DISTINCTION*
Anne Mary Cebulla McKay, Minnetonka*
Beverly Ann Montag, Willmar*
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WITH HIGH DISTINCTION*
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WITH DISTINCTION*
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Judy Ann Parham, St. Paul*
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Gail Kathryn Stitt, Edina*
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MEDICINE

Bachelor of Science

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Thomas Gordon Cathey, B.A., St. Paul

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Doctor of Medicine

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 Dorothy Lorraine Anderson, B.A., Madison
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 Maurice Wayne Beers, B.S., Lake Wilson
 Kent Davis Bergh, B.A., Mahtomedi
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 Randal Dean Bjerke, B.S., Hoffman
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 John Lee Canfield, B.A., B.S., St. Peter
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 Thomas Gordon Cathey, B.A., St. Paul
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 Willimantic, Conn.
 William Jarrett Conard, B.A.,
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 David, Panama
 Joseph Richard Custer, B.A.,
 St. Louis Park
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 Lake Park
 Natalie Ann DeLue, B.A., Hopkins
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 John Timothy Diegel, B.A.,
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 Stephen Edward Dudley, B.A. *summa
 cum laude*, Le Center
 Kathleen Dunklee, B.A., Austin
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 Kensal, N.D.
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 Springfield
 Peter James Jarosak, B.A.,
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James Herbert Larson, B.A.,
Mendota Heights
Andre Jon LaSalle, B.S., Detroit Lakes
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magna cum laude, Detroit Lakes
Jeffrey Robert Latts, B.S., Duluth
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Reuel Anthony Martinson, B.S., Be-
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ley
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 Glencoe
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 Kensington
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 N.D.
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 Paul Masao Tani, B.A., St. Paul
 John Martin Thomas, B.A., Richfield
 James Warren Thompson, B.A.,
 Granite Falls
 Jerome Ivan Thompson, B.A.,
 Mankato
 Michael Benjamin Alexander
 Thompson, B.S., Moorhead
 Frederick Allen Townsend, B.A.,
 Brooten

Michael Raattama Tripp, B.A.,
 Melrose
 Joseph James Trombley, B.A.,
 Minneapolis
 Denis Clarke Tungseth, B.A.,
 Kennedy
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 Grantsburg, Wis.
 David Allen Van Bockel, Minot, N.D.
 John Charles Vandree, B.A.,
 Minneapolis
 Ronald Richard Vessey, B.S.,
 Rochester
 Richard John Wahlstrom, B.A.,
 Bloomington
 Gary Allen Ward, B.A., M.S., St.
 Louis Park
 Rick Lee Weber, B.A., Staples
 Larry Wayne Weiss, B.A., B.S., Ph.D.,
 St. Paul
 Barry Gene Welge, B.A., Webster,
 S.D.
 James Jesse Wheeler, B.S., B.A.,
 Robbinsdale
 Michael Robert Wilcox, B.A.,
 North Branch
 Regina Lee Williams, B.S., St. Paul
 Peter Bottge Windhorst, Minneapolis
 David M. Woeste, B.S., Glen Ullin,
 N.D.
 Patricia Barrett Wolff, B.A.,
 North St. Paul
 Barry James Wolstan, B.A., B.S.,
 St. Paul
 Robert Lee WonSavage, B.A.,
 Minneapolis
 Ronald Dean Workman, B.S.,
 St. Louis Park
 James Douglas Wuamett, B.S.,
 Owatonna
 James Timothy Young, B.Chem.,
 Minneapolis
 John Paul Zemjanis, St. Paul

MORTUARY SCIENCE

Bachelor of Science

Richard Neil Anderson, La Crosse,
Wis.

James Leslie Bredman, B.A., Ada,
WITH HIGH DISTINCTION

William C. Burmeister, B.A., Winona

Darrell Dallas Dickinson, B.S.,
La Crosse, Wis.

Gail Lawrence Duerr, Louisville, Neb.

Gerald Lee France, Rothschild, Wis.,
WITH DISTINCTION

Ernest John Gieseke, Marietta

John Keith Goudy, B.A., Underwood,
WITH DISTINCTION

Richard Tiffany Greene, Great Falls,
Mont.

William Golden Hardy III,
Louisville, Ky.

Gregory Mark Hilgendorf, B.A.,
Trimont

Ancil Arnold Hillman, Annandale

John Michael Kroshus, B.S., Ada
Lawrence Allen Lightner, Raleigh,
N.C.

Joseph Charles Mayne, Deer Creek,
Ill.

Bruce Alan Nelson, Alexandria, WITH
DISTINCTION

Randall Curtis Nelson, Fargo, N.D.

Steven Edwin Nesbitt, Fullerton, Neb.

Michael Francis Patrick, A.A.,
Ironwood, Mich.

Joan Carol Pederson, Wood Lake

Nicholas Radulovich III, Duluth

Mary Louise Cecelia Rottler,
Lawrence, Mass.

Peter Stephens Runge, B.S.,
Davenport, Iowa

Kenneth Ralph Spangler, New
Bethlehem, Pa.

John Michael Turnbull, Eskridge, Kan.

OCCUPATIONAL THERAPY

Bachelor of Science

Kathleen Marie Babcock, St. Paul,
WITH DISTINCTION*

Rondell Spencer Berkeland,
Minneapolis, WITH DISTINCTION*

Sister Miriam Therese Bowar, B.S.,
Aberdeen, S.D., WITH DISTINCTION*

Peggy Lucille Denton, Barnum*

Diane Marie Devereaux, West St.
Paul, WITH HIGH DISTINCTION*

Lillian M. Dolan, A.A., Austin,
WITH DISTINCTION*

Frances Jean Eberlein, Circle Pines*

Patricia Renee Christine Evans,
Minneapolis, WITH HIGH
DISTINCTION*

Linda Jean Gaalaas, River Falls, Wis.,
WITH DISTINCTION*

Jeanne Therese Gallogly, Bloomington,
WITH DISTINCTION*

Nancy Ellen Huntley, Minneapolis*

Elizabeth Ann Jensen, Anoka,
WITH DISTINCTION*

Patricia Marie Kasper, Excelsior*

Alida Dorothy Oberlin, Minneapolis,
WITH HIGH DISTINCTION*

Roberta Ann Ogurak, Minneapolis*

Karen Marie Pederson, Robbinsdale,
WITH DISTINCTION*

Lane Louise Petri, Victor, Colo.,
WITH DISTINCTION*

Maureen Marie Pierson, A.A., Will-
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Carole Ruth Wick, St. Paul, WITH
DISTINCTION*
Diane Lou Wicklund, Cambridge*
Steven Edward Wilm, White Bear
Lake, WITH DISTINCTION*
Nina Kay Wold, Mabel, WITH
DISTINCTION*

PHYSICAL THERAPY

Bachelor of Science

Fordyce William Anderson, Sioux
Falls, S.D.
Mary Jo Anderson, Minneapolis,
WITH DISTINCTION
Jeffrey Kenneth Anlauf, Hopkins
Stephen Lee Avery, Glenwood
Karen Joyce Beck, Buffalo, WITH
DISTINCTION
Annette Marie Belfiori, Deerwood,
WITH HIGH DISTINCTION
James Robert Carey, St. Paul, WITH
DISTINCTION
Linda Louise Carlson, Carlton
Vicky Lynn Christensen, Hill City,
WITH HIGH DISTINCTION
Tanya Leigh Dodson, Fairmont
Susan Mary Elsen, Golden Valley,
WITH DISTINCTION
Deborah Kay Erickson, Minneapolis
Wendy Margaret Gislason,
Lamberton, WITH DISTINCTION
Susan Joan Hacker, Bloomington,
WITH HIGH DISTINCTION
Robert George Hageman, Bovey,
WITH DISTINCTION

Nancy Jane Hoyt, Springfield,
WITH DISTINCTION
Shirley Mae Johnson, Duluth,
WITH DISTINCTION
Terry Gene Layher, A.A., New Hope
Patricia Miller Lieske, Hibbing,
WITH DISTINCTION
Jennifer Robyn Mather, Hugo,
WITH DISTINCTION
Linda Ruth Melander, St. Paul,
WITH DISTINCTION
Barbara June Proehl, Stewart,
WITH DISTINCTION
Ann Marie Ring, New Ulm, WITH
DISTINCTION
Dorothy Jean Scholand, Minneapolis
Bruce Alan Sellers, Austin
Lloyd Willard Stein, B.S., Two
Harbors
Christine Alane Toedt, Minneapolis,
WITH DISTINCTION
Sandra Marie Wilson, Cloquet,
WITH DISTINCTION

* These degrees are conferred subject to the completion of practical work prior to December 13, 1972.

SCHOOL OF NURSING

Bachelor of Science in Nursing

- Janice Martha Anderson, Robbinsdale,
WITH DISTINCTION
- Laurel Ann Anderson, Marshall,
WITH DISTINCTION
- Marlene Junnette Anderson, Sacred
Heart
- Rebecca Enos Anderson, Minneapolis
- Susan Kay Anderson, Stillwater
- Victoria Marie Auvin, Minneapolis
- Judith May Barnard, St. Paul
- Delores Ann Barstad, Buffalo
- Mary Jean Berg, Minneapolis, WITH
DISTINCTION
- Linda Blazovich, St. Paul
- Ruth Hildegaarde Carlsen, Burnsville,
WITH DISTINCTION
- Beverly Joy Carlson, Cambridge,
WITH HIGH DISTINCTION
- Connie Marie Carlson, Burnsville,
WITH DISTINCTION
- Sister Sharon Marie Connelly, South
St. Paul, WITH DISTINCTION
- Bonnie Marie Cudmore, International
Falls
- Brenda Joyce DeAustin, Marshall,
WITH DISTINCTION
- Mary Elizabeth Dederichs,
Minneapolis
- Susan Marie Dummer, Bloomington,
WITH DISTINCTION
- Claudia Carol Eklund, St. Paul
- Marlene Ruth Ellis, Edina
- Shirley Rae Goppelt, Inver Grove
Heights, WITH DISTINCTION
- Virginia Ann Griffing, Seattle, Wash.,
WITH HIGH DISTINCTION
- Patricia Anne Guernsey, Minneapolis,
WITH DISTINCTION
- Carol Jeanne Harbitz, St. James
- Linda Diane Hastings, Edina, WITH
DISTINCTION
- Julie Ann Haugen, Williston, N.D.,
WITH DISTINCTION
- Deborah Jane Henningsen, Edina,
WITH DISTINCTION
- Judith Lynn Hult, St. Paul
- Lois Hudgins Iepson, St. Paul,
WITH DISTINCTION
- Martha Jean Isaacson, Dassel,
WITH DISTINCTION
- Miriam Janice Jacobson, B.A., Kenyon,
WITH DISTINCTION
- Margaret Ann Johansen, Tyler,
WITH DISTINCTION
- Andrea Elizabeth Johnson, West
St. Paul, WITH DISTINCTION
- Vicki Ann Johnson, Detroit Lakes,
WITH DISTINCTION
- Anne Clare Jones, Ogilvie
- Judith Ann Knobloch, Browerville,
WITH DISTINCTION
- Marcia Hartnett Koukkari, B.S.,
Afton, WITH DISTINCTION
- Deborah Louise LaLonde, Litchfield,
WITH DISTINCTION
- Karen Elizabeth Landvik, Edina, WITH
DISTINCTION
- Nancy Carol Larson, Minneapolis,
WITH HIGH DISTINCTION
- Barbara Jean McDonald, Amboy,
WITH DISTINCTION
- Sister Jeraldine L. McNeilis, South St.
Paul, WITH DISTINCTION
- Agnes Carolyn Mellema, Reading,
WITH DISTINCTION
- Janice Kay Moen, Columbia Heights,
WITH DISTINCTION
- Martha Ann Moser, Minneapolis,
WITH DISTINCTION
- Elizabeth Ann Mueller, St. Cloud,
WITH DISTINCTION
- Janet Evelyn Newcomb, St. Paul,
WITH DISTINCTION
- Jacqueline Lee Nienhaus, St. Paul,
WITH DISTINCTION
- Sheila Ann Oman, Minneapolis, WITH
DISTINCTION
- Karen Anne Paulson, Eveleth
- Jean Elizabeth Redding, Grand Rapids
- Cynthia Lou Richter, St. Paul, WITH
HIGH DISTINCTION
- Norma Phyllis Rogers, Bloomington,
WITH HIGH DISTINCTION

Mary Louise Running, St. James
 Nancy Jo Russell, Austin, WITH
 DISTINCTION
 Christine Louise Scanlon, Bloomington
 Janice K. Schulte, Caledonia
 Jane Marie Schulz, B.A., Minneapolis
 Grace Sibanda, Bulawayo, Rhodesia
 Janet Lynn Sonicker, Watertown,
 WITH DISTINCTION
 Janet Lynn Strauss, Duluth
 Lucille Lunzer Swenson, New
 Brighton, WITH HIGH DISTINCTION

Susan Catherine Tackaberry, St. Paul
 Victoria Ann Terfehr, Parkers Prairie,
 WITH HIGH DISTINCTION
 Marlene Louise Thies, Caledonia
 Sandra Hope Vanderwall, Mound
 Jacqueline Ann Veits, Minneapolis,
 WITH DISTINCTION
 Luzette Ann Vertachnik, B.A., Gilbert
 Cheryl Kay Wendland, Bellingham
 Catherine Ann White, Worthington
 Mary Hanson York, St. Paul

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Jacqueline Marie Anderson, Cloquet
 Lee Thomas Anderson, Duluth
 John Keith Baker, Lake Crystal
 Bruce Allison Bakke, St. Louis Park
 Mark Anthony Barbato, Hibbing
 John William Benson, Minneapolis
 John Edward Brenna, B.S., Mabel
 John Charles Dahlgren, Bird Island
 David Harold Doerr, Marystown
 Richard James Earl, Edina
 Gary Allen Erickson, Glenwood, WITH
 DISTINCTION
 Frederick Michael Eskola, Kinney
 Charles Aubrey Fredson, Duluth
 Robert Earl Freye, Fergus Falls
 David Thomas Giorgi, Eveleth, WITH
 DISTINCTION
 Scott Errol Goodmanson, Albert Lea
 Thomas William Graham, St. Paul
 Dennis Joseph Griffin, St. Paul, WITH
 DISTINCTION
 Larry Dean Hafner, Slayton
 Terrence Leo Hartmann, Bird Island,
 WITH DISTINCTION
 Robert Gordon Hayes, A.A., St. Louis
 Park
 Joel Edgar Houglum, Twin Valley,
 WITH DISTINCTION
 Richard Charles Jansen, Red Wing
 Cherry Nelson Jeske, New Ulm
 Brian Arlie Johnson, Frederic, Wis.
 Patricia Marie Johnson, Little Falls

Robert Bennett Johnson, Elbow Lake,
 WITH HIGH DISTINCTION
 Rodney Lyle Johnson, Rushford, WITH
 HIGH DISTINCTION
 Vaughn Quentin Johnson, Clara City
 Darnell Charles Kaehler, Minneapolis
 Gregory David Kerber, Shakopee
 Sungae Esther Kim, Crystal
 Susan Kay Kirkwood, Minneapolis
 William Paul Larson, Brooklyn Park
 Thomas Richard Mach, Pine City
 Thomas Francis Madera, Minneapolis
 Howard Bruce Malinsky, B.A., Minne-
 apolis
 Greg Alan Marolt, Crosby
 David John Matson, Richfield
 Mary Kathryn Matuseski, Bemidji
 Philip John Meyer, Mankato
 Alan Young Michalka, West Milford,
 N.J.
 Mary Freudenthal Monteen, Brooklyn
 Park, WITH HIGH DISTINCTION
 Leslie Marvin Morrcim, Minnesota
 Lake
 Richard Alan Mueller, Wells, WITH
 DISTINCTION
 Steven Alan Myre, Albert Lea
 David Robert North, St. Paul
 Lee Theodore Olson, St. Paul
 Thomas Charles Panfil, Virginia
 Lynda Ann Parker, St. Paul, WITH
 DISTINCTION

Guy Van Reich, Fergus Falls
 David Michael Scott, St. Paul
 Rita Marie Scully, St. Paul, WITH
 DISTINCTION
 Joel Leon Skelton, Harris
 Robert Wayne Small, A.A., Rochester,
 WITH DISTINCTION
 Thomas Allen Stavenger, Pipestone,
 WITH DISTINCTION
 Charlotte Marie Stienessen, Plainview
 Gregory Thomas Strandberg, North
 St. Paul, WITH DISTINCTION
 Jeffrey Dean Swenson, A.A., Austin
 Susan Jane Swenson, Elbow Lake

Bradley E. Teske, Buffalo
 Calen Roger Thompson, St. Paul
 Suzanne Marie Tupper, Rochester
 Richard John VanHeuveln, B.A.,
 Minneapolis
 Wayne Dennis Vedder, Austin
 Darrell D. Vosika, Minneapolis
 William Anthony Wargin, Minneapo-
 lis, WITH DISTINCTION
 Donald Douglas Wegner, St. Cloud
 Carolyn Ruth Wiese, Humboldt,
 WITH HIGH DISTINCTION
 Robert Ernest Williams, Eveleth
 Dennis Gene Zitnak, A.A., Austin

SCHOOL OF PUBLIC HEALTH

Master of Hospital Administration

Gorden Kent Ballantyne, B.S.,
 Portland, Ore.
 Bruce Stephen Behnke, B.B.A., Troy,
 Mich.
 David Olaf Biorn, B.A., Northfield
 Douglas Anthony Clark, B.A., Butler,
 Pa.
 Robert Marc Dickler, B.A., St. Paul
 James Joseph Dooley, Westwood,
 Mass.
 George Howard Ennis, Jr., B.S.,
 Springfield, Mass.
 Gerald Kent Falin, B.C.E., M.P.H.,
 Minneapolis
 James Albert Goff, B.C.E., St. Paul
 Stephen Allen Gregg, B.S., Cohasset,
 Mass.
 Jack Hudock, B.S.Pharm., Tunkhan-
 nock, Pa.
 Philip Edward Jacobson, Jr., B.S.B.,
 Bloomington
 William Ivy Jenkins, Jr., B.A., North
 Chicago, Ill.
 James Martin Jensen, B.S., M.A.,
 Minnetonka
 Richard John Kramer, B.S., M.S.,
 Huntington, N.Y.
 Richard Arnold Lauer, B.A., Wayzata
 Stephen Charles Loescher, B.A.,
 Cincinnati, Ohio

Eugene Emile Loubier, B.B.A., Rum-
 ford, Me.
 Zygmunt Anthony Maksymowicz,
 M.A., Providence, R.I.
 Harry Cameron McClain, Jr., B.S.,
 Huntsville, Ala.
 David Paul McKee, B.A., St. Paul
 David Alan Michaud, B.A., Tacoma,
 Wash.
 John Edward Montgomery, B.A.,
 Chicago, Ill.
 Leigh Edward Morris, B.B.A., Hart-
 ford City, Ind.
 Courtland Edward Newman, Jr., B.A.,
 Minneapolis
 Roland Earl Palmer, B.A., Rockford,
 Ill.
 Thomas Edward Patrick, M.A., Ph.D.,
 Minneapolis
 Clayton Robert Peterson, B.A.,
 Minneapolis
 Terri L. Potter, B.S., Madison, Wis.
 Thomas Harold Rockers, B.S., Austin
 Everard Oscar Rutledge, B.S., Bronx,
 N.Y.
 Ken William Sargent, B.A., Enum-
 claw, Wash.
 Lawrence Siguard Schneider, Regina,
 Saskatchewan, Canada
 Marlo O. Senske, B.S., Perham

Mohamed Sultan Bin Haji Sickander,
B.B.A., Kuala Lumpur, Malaysia
Harlan James Smith, B.A., New
London, Conn.
John Gordon Storrs, B.S., Boise, Idaho
John Daniel Thomas, B.A., Minne-
apolis
Warren Kline Thompson, B.B.A.,
Oklahoma City, Okla.

Dar Wynn Vriesman, B.A., Richfield
Mark William Wallace, B.A., Golden
Valley
James Douglas Willard, B.S., Engle-
wood, Colo.
Stephen Blain Williams, B.B.A.,
Pasadena, Calif.
Steven Albert Wright, B.S., Chicago,
Ill.

Master of Public Health

Kenneth Oliver Bjorklund, B.C.E.,
Milwaukee, Wis.
Marvin Jerrold Block, D.D.S., Roch-
ester, N.Y.
James Michael Burke, B.S., Minne-
apolis
William Joseph Carter, B.S., Trenton,
N.J.
Charles Scott Daniels, B.S., Pough-
keepsie, N.Y.
Sharrel Edward Davison, B.S.,
Eugene, Ore.
Darryll Dean Farmer, B.S., Eau Claire,
Wis.
Eugene Feinstein, B.S., D.D.S.,
Massapequa, N.Y.
Marty Steven Kanarek, B.A., Wash-
ington, D.C.
John Thomas Kelly, B.A., B.S., M.D.,
Minneapolis
Robert Jerome Kelly, Anaconda,
Mont.

Robert John King, B.M.E., Minne-
apolis
Larry L. Koenig, B.A., Winner, S.D.
James Leonard Koniar, B.A., Minne-
apolis
Thomas Franklin Lahre, B.E.E.,
Minnetonka
John Morgan McLean, B.A., Minne-
apolis
Joan L. Morio, B.S., Minneapolis
Michael Francis O'Connell, Los
Angeles, Calif.
John Milton Patten, B.S.Pharm.,
Albuquerque, N.M.
John Christopher Prucha, B.S.,
D.V.M., M.S., Sacramento, Calif.
Douglas Lee Raymond, B.A., Fair-
mont
Esfandiar Setoudeh-Maram, D.V.M.,
Teheran, Iran
Kenneth Wesley Torbert, B.A., B.S.,
D.D.S., Arlington, S.D.

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

William Louis Anderson, A.A., Austin
*Walter Harold Ask, Jr., A.A., St.
Charles, WITH DISTINCTION*
Daniel John Barnett, St. Cloud
Bruce Edward Bastyr, Hopkins
Alan Donald Benz, Round Lake
Bruce Robert Callahan, St. Paul
Dennis Michael Carroll, West St.
Paul

Steven Douglas Chergosky, Minne-
apolis
Leland Paul Davis, St. Paul
Brian Wayne Gensmer, Edina
*Michael Howard Goemer, St. Paul,
WITH DISTINCTION*
*John Kingery, A.A., Worthington,
WITH DISTINCTION*
Terrence Jerome Mullen, Green Isle

Stephen James Paulsen, Hutchinson
Ray Cleve Privett, Duluth
David Douglas Radtke, Lester Prairie
Gary John Rocklitz, St. Paul, WITH
DISTINCTION
Bruce Evan Roth, Mound
Brandt Thomas Royle, Minneapolis
Kermit Oliver Rufsvold, St. Paul
William Patrick Russell, Edina

William Joseph Ryan, St. Paul, WITH
DISTINCTION
David Lawrence Schroeder, St. Paul
Terrence Joseph Schwartz, Bloomington
Richard L. Thomalla, St. Paul
Frank Yoshio Tsuchiya, Jr., St. Louis
Park, WITH DISTINCTION

Bachelor of Agricultural Engineering

Peter Frederick Frenzel, Kelliher
Gary Robert Garbe, St. Paul
John Philip Gieschen, Randolph
Mahedi Alibhai Karmali Jiwani,
Moshi, Tanzania
Curtis Harlan Lindblom, A.A., Good-
ridge, WITH DISTINCTION
Robert Thomas Mahowald, North-
field

Benjamin Rueben Nelson, Rush City,
WITH DISTINCTION
Wayne Francis Peters, Plainview,
WITH DISTINCTION
Steven Ansel Points, Stanchfield
Robert Charles Sandager, Hills
Mark W. Skogman, Cambridge, WITH
DISTINCTION

Bachelor of Architecture

Joel Mark Anderson, St. Paul, WITH
DISTINCTION
Daniel Lee Avchen, Minneapolis
John Harry Banks, Clinton, Mich.
Robert James Bruce, B.A., Minne-
apolis
Mark Horne Butler, St. Paul
Bruce Mark Carlson, B.A., Minne-
apolis
Christopher Wayne Colby, Coon
Rapids
Thomas Wayne Dunwell, Farmington
Nedret Tayyibe Ercan, Istanbul,
Turkey, WITH DISTINCTION
David Douglas Erickson, St. Paul,
WITH DISTINCTION
David Allen Frank, B.A., Minneapolis
Craig John Gilbert, Austin
Mary Jane A. Heinen, B.A., Melrose,
WITH DISTINCTION

Bruce Edward Knutson, Minneapolis
Thomas Babcock Lander, Mankato,
WITH HIGH DISTINCTION
Christopher Allen Lineer, St. Paul
William Leonard Miller, Edina
Richard Reinhard Oertel, Edina
Gregory David Peterson, Minneapolis
Thomas Scott Peterson, Bayport,
WITH DISTINCTION
Cecil Wayne Swason, B.A., Minne-
apolis
Matthew Russell Thompson, Minne-
apolis
James Alfred Torvik, B.A., Willmar,
WITH DISTINCTION
Lawrence M. Weinzetl, B.A., St. Paul
Russell George Wick, St. Louis, Mo.

Bachelor of Chemical Engineering

- Paul Edward Blum, St. Paul
George Herbert Bone, Georgetown,
Guyana
Alvaro F. Canizares, Bogotá, Colom-
bia, WITH HIGH DISTINCTION
John Edward Dougherty, Minneapolis,
WITH DISTINCTION
Jeffrey Michael Eliason, Minneapolis
Robert Mark Floyd, Robbinsdale,
WITH DISTINCTION
Gordon Terry Frank, Blaine
Terrance Michael Hanson, Minne-
apolis
James Paul Held, Salt Lake City,
Utah, WITH DISTINCTION
David Dale Huehn, A.A., Round Lake,
WITH DISTINCTION
Glenn Norman Johnson, Hopkins
Kevin Tilman Johnson, Richfield,
WITH HIGH DISTINCTION
Kyle David Jones, Minneapolis, WITH
HIGH DISTINCTION
Robert Albert Kaiser, St. Cloud
Kenneth W. Leonhardi, Minneapolis
John Martin Lorntson, Beaver Bay,
WITH HIGH DISTINCTION
Sun Peng Lui, Hong Kong, WITH
DISTINCTION
Rodney Eugene Massey, Dodge
Center
Lawrence John Mattila, Minneapolis,
WITH DISTINCTION
Thomas Donald Moberg, Hibbing
James David Naylor, Bemidji, WITH
HIGH DISTINCTION
Rudolph Gerard Poblete, Rochester
Steven James Powell, Austin, WITH
HIGH DISTINCTION
Maryjo Celeste Price, Bloomington
Erwin Rosen, Tel-Aviv, Israel, WITH
DISTINCTION
Janet Kristin Salomonson, St. Paul,
WITH HIGH DISTINCTION
Donald Albert Schuelke, Blaine, WITH
DISTINCTION
Bahram Shadzi, Isfahan, Iran
Michael Joseph Sinn, St. Paul, WITH
DISTINCTION
David Eugene Smith, Roseville
Scott David Smith, Duluth, WITH
HIGH DISTINCTION
Mark Allen Stadtherr, Austin, WITH
HIGH DISTINCTION
George Henchman Tucker, Jr., Rich-
field, WITH DISTINCTION
Mariam Maimoona Wahab, Hong
Kong, WITH DISTINCTION
William Joseph Zoelle, North
Mankato

Bachelor of Chemistry

- Dale Mark Buegel, Minneapolis,
WITH HIGH DISTINCTION
John Raymond Dolmar, Richfield,
WITH HIGH DISTINCTION
Gregg Michael Downing, St. Louis
Park, WITH HIGH DISTINCTION
Dan Carl Drinkwitz, Hibbing
Mary Lou Gantzer, Minneapolis
Theodore Arthur Johnson, St. Paul
Michiko Kasai, Tokyo, Japan
Gary Patrick Klinkhammer, Minne-
apolis
Robert Thomas Klun, A.A., Ely, WITH
DISTINCTION
Barrie Kenneth Meyer, Evanston, Ill.
Thomas Craig Miller, West St. Paul,
WITH HIGH DISTINCTION
Mark Allen Schroeder, Albert Lea,
WITH DISTINCTION
Paul Francis Schweiger, Gilbert
William Howard Siegel, St. Paul
Steven Rody Skorich, Grand Rapids
Terence Calvin Wagenknecht, St.
Paul, WITH HIGH DISTINCTION
James Vern Wessman, St. Paul
Robert Warner Wynne, New
Brighton

Bachelor of Civil Engineering

- Roger Bruce Anderson, B.A.E., Grygla,
WITH HIGH DISTINCTION
Glenn Livingston Archer, B.A., Nas-
sau, Bahamas
Constantinos Basileios Avgeropoulos,
Athens, Greece
John Jeffrey Bailen, St. Paul
Stafford Harold Baker, Willmar
John Christian Bertelsen, Minneapolis
Larry Donald Bohrer, Inver Grove
Heights, WITH DISTINCTION
Nicholas James Boosalis, Minneapolis
Robert Paul Borchardt, Minneapolis
Gary Lee Brenno, Rochester
Donald Clayton Burgardt, Little Falls
Carl Clarence Cordes, St. Paul
Gregory Alan Drahos, Hopkins
James Donald Groehler, Winthrop,
WITH DISTINCTION
Steven James Hayes, St. Paul
Donald Friedrich Hess, White Bear
Lake
Kevin Alan Johnson, Litchfield, WITH
HIGH DISTINCTION
Philip Jon Kramlinger, St. Paul, WITH
HIGH DISTINCTION
James Henry Krech, Inver Grove
Heights, WITH DISTINCTION
Thomas George Krzewinski, Duluth
Robert Charles Kurtz, St. Paul
Henry Jerry Lazniarz, Minneapolis,
WITH DISTINCTION
Charles Andrew Malovrh, Iron, WITH
DISTINCTION
Glenn Andrew Martin II, Edina,
WITH HIGH DISTINCTION
Carl Peter Mathiason, Alden, WITH
DISTINCTION
Gary Dennis May, Stillwater
Robert Charles Mayeron, St. Louis
Park, WITH DISTINCTION
Robert Francis Mayhew, A.A.,
Rochester
Martin Ray McCleery, B.S., St. Paul
Norman Ellsworth Mellem, A.A.,
LeRoy
Girma Wolde Michael, Addis Ababa,
Ethiopia
Paul Charles Miller, White Bear Lake
Barton Bryce Murphy, Minneapolis
James George Murphy, St. Paul, WITH
DISTINCTION
David Andrew Nesius, Wells, WITH
DISTINCTION
Craig Stanton Nibbe, Red Wing
James Peter Norton, Minneapolis
Ronald Wilfred Olds, Shoreview
Ralph Allen Pedersen, Edina, WITH
DISTINCTION
James Pennaz, Minneapolis, WITH
DISTINCTION
Karl Frederic Rasmussen, Minneapolis
Larry Allan Read, Albert Lea, WITH
DISTINCTION
Craig Arthur Robinson, Minneapolis
George Eric Schoener, Marinette,
Wis., WITH HIGH DISTINCTION
William Allen Sironen, Minneapolis
Roger Clark Skogen, A.A., Rochester
Charles Patrick Spitzack, Owatonna,
WITH DISTINCTION
Everett Albert Stauff, St. Paul
Richard Donald Stehly, Minneapolis
Karl Elof Streed, Minneapolis, WITH
HIGH DISTINCTION
James Richard Turnham, Long Lake,
WITH DISTINCTION

Bachelor of Computer Science

- Donald John Bailey, Minneapolis
Abdelhak Barbouche, B.Math., Le
Kef, Tunisia
Bruce Bevington Davis, St. Louis
Park, WITH HIGH DISTINCTION
Steven Kenneth Dirks, Victoria, WITH
HIGH DISTINCTION
Lawrence Marcus Espe, Minneapolis,
WITH HIGH DISTINCTION
Terry Phillip Gleason, Minneapolis
Bennett Hackner, Minneapolis, WITH
DISTINCTION
Karen Ann Halvorson, Lanesboro
Dennis Michael Hamerski, Minneapo-
lis, WITH DISTINCTION
Randolph Gerald Johnson, Minne-
apolis
- Charles Bernard Loscheider, Pierz
Stanley Joseph Loren, Gilbert
Richard Allen Noble, Austin
Stuart Paul Nordberg, Buffalo, WITH
DISTINCTION
Richard Kent Nordin, St. Louis Park,
WITH HIGH DISTINCTION
Mary Catherine Olson, Minneapolis,
WITH DISTINCTION
Diane Faye Pietz, Golden Valley
Jerred David Ruble, Oakland, WITH
DISTINCTION
Jerome Duane Sjostrand, East Grand
Forks
Bruce Edwin Wachs, St. Paul

Bachelor of Electrical Engineering

- George Edwin Aandahl, Austin
Dennis Burton Albrecht, Minneapolis
David Lee Anderson, Minnetonka
Roger Philip Anderson, Duluth
Wayne Leland Anderson, Isanti
John G. Antoniou, St. Paul
John Frederick Bahnemann, Rochester
Kent Roger Barker, Fairmont
Jannes Arlowe Becker, Mountain Lake,
WITH HIGH DISTINCTION
Kermit Myles Beseke, Minneapolis
Gary James Bohlman, Woodbury
William Joseph Book, Golden Valley
Michael Andrew Boot, Minneapolis,
WITH HIGH DISTINCTION
Perry Stephen Bowen, Richfield, WITH
HIGH DISTINCTION
Gregory John Boyle, South St. Paul
David Brusacoram, Chisholm
Michael Robert Burch, Blaine
Thomas Alan Bystrzycki, St. Paul
Jay Jerald Cain, A.A., Kasson
Kenneth George Carlson, Duluth,
WITH DISTINCTION
ChakMing Chie, Hong Kong, WITH
HIGH DISTINCTION
Lowell Frank Christensen, Freeborn
Jonah Louis Chu, Shanghai, China
- William Joseph Cimperman, Jr.,
Virginia
Mark John Clifford, Brooklyn Center
Bruce Colton, Minneapolis, WITH
DISTINCTION
Marvin Douglas Crawford, Brodhead,
Ky.
Pamela J. Dahl, Blaine, WITH HIGH
DISTINCTION
Norman Lundgren Danz, Silver Bay
Robert Lee Demorest, Minneapolis
Dimitrios Dokos, Amfissa, Greece
Robert Lynn Domrese, White Bear
Lake, WITH HIGH DISTINCTION
Thomas Charles Dostal, Hibbing
Charles Michael Dowd, Minneapolis
Michael Frank Drwall, St. Paul
Philip John Dusek, River Falls, Wis.
Paul John Easter, Aurora
James Robert Ellingboe, A.A., Pequot
Lakes
Don Gerard Erickson, Anoka
Alan Norman Fabian, Roseville, WITH
DISTINCTION
Douglas L. Felsenthal, Roseville
Fredrick Milton Fillmore, Mound
Randall Lynn Forbrook, Morgan
Gene Aage Frederiksen, Jackson

*Arnold Ray Gehrls, Okabena, WITH
DISTINCTION*
*Duane Walter Georges, Loretto, WITH
DISTINCTION*
Michael J. Grengs, Delano
Thomas Edward Grilli, St. Paul
Patricia Ellen Hansen, St. Paul
*Russell Lewis Hansen, Duluth, WITH
DISTINCTION*
Robert Jerome Hanson, Rush City
*Mark Otis Harvey, Blaine, WITH
DISTINCTION*
*Dean Lowell Heino, Biwabik, WITH
HIGH DISTINCTION*
*Steven Michael Helland, Thief River
Falls*
William Arthur Hensel, Excelsior
*Donald Lane Hersey, Hopkins, WITH
DISTINCTION*
Daryl Lavern Hintz, Alexandria
Andrew James Holewa, Minneapolis
*Tit Kwan Hui, Hong Kong, WITH
HIGH DISTINCTION*
Mark Ramon Imbertson, St. Paul
Paul Robert Iverson, St. Croix Beach
Thomas Paul Jagunich, Buhl
*David Alan Johnson, St. Paul, WITH
DISTINCTION*
*Gary Richard Johnson, Richfield,
WITH DISTINCTION*
Ronald Clayton Johnson, St. James
Jerome Kenneth Kallstrom, Roseville
Terrance Eugene Kantola, Cook
John Michael Kessler, Bloomington
Gary J. Koelsch, A.A., Rochester
*Michael Steven Kopman, St. Louis
Park*
*Peter Wing Kuen Kung, Hong Kong,
WITH DISTINCTION*
Donald Joseph Kunshier, St. Paul
Tom A. Kutscher, St. Paul
*Stephen Francis LaCasse, North St.
Paul*
Donald William Lamont, Brainerd
James Mark Landes, Cass Lake
Jerome Lavern Larsen, Siren, Wis.
*Keith Arthur Larson, Minneota, WITH
DISTINCTION*
*Thomas Anthony Larson, Benson,
WITH DISTINCTION*
Thomas Lyle Larson, St. Paul

*Charles Kinhing Lee, Hong Kong,
WITH HIGH DISTINCTION*
Ronald Jerome Lewandowski, Foley
*Raymond Francis Loonan, A.A.,
Lismore*
Thomas Anthony Lopac, Chisholm
*Bruce Edward Magnuson, A.A., Min-
neapolis, WITH DISTINCTION*
Michael Douglas Marohn, Hutchinson
*Michael Cameron McKay, Minne-
apolis*
John Bernard McNamara, St. Paul
Thomas Olney Moll, Sleepy Eye
*David Andrew Mondeel, Hollandale,
WITH DISTINCTION*
*Thomas Edward Montgomery,
Wykoff*
Bruce Dean Morem, Harmony
*William Leslie Morgan, Jr., St. Paul,
WITH DISTINCTION*
*Keith Harlan Myhre, Eitzen, WITH
DISTINCTION*
Jonathan Arland Nelson, Lake Lillian
Merrill John Nelson, Eden Prairie
*Donald John Nieken, St. Cloud, WITH
HIGH DISTINCTION*
*Craig William Nordling, Virginia,
WITH HIGH DISTINCTION*
John Marcus Nystuen, St. Paul
*Charles Irwin Odegaard, Hawley,
WITH DISTINCTION*
*Donald Wayne Olson, Mora, WITH
HIGH DISTINCTION*
*William Ralph Owens, Minneapolis,
WITH DISTINCTION*
Thomas Anthony Perino, Alexandria
Frank Joseph Plourde, Somerset, Wis.
*Brian Charles Plunkett, St. Paul, WITH
HIGH DISTINCTION*
William Orville Pollnow, St. Paul
*Stephen John Povroznik, Eveleth,
WITH DISTINCTION*
Ferris T. Price, Minnetonka
Marshall Jackson Prudhon, Fridley
Stanley Lawrence Przewdziecki, Anoka
*Brian Eugene Pulk, Richfield, WITH
DISTINCTION*
*John Charles Rathe, St. Cloud, WITH
HIGH DISTINCTION*
*James J. Ressimyer, Burnsville, WITH
DISTINCTION*

John Theodore Rohwedder, B.C.E.,
 B.Geo-E., Minneapolis
 Michael John Rossing, Minneapolis
 John Richard Rupp, Mountain Lake
 Bruce Emmanuel Russo, Prior Lake
 Brian Joseph Ryan, St. Paul
 Kim Stephen Ryden, Minneapolis
 Michael Ray Saltsman, Blaine, WITH
 DISTINCTION
 Darold Burke Sanderson, Minneapolis,
 WITH HIGH DISTINCTION
 Gerald Blake Sanderson, Minneapolis,
 WITH DISTINCTION
 Thomas Lee Sanny, A.A., St. Paul
 Irving Loren Sather, Albert Lea
 Douglas Warren Schmitt, St. Paul
 Dale Edward Schultz, Delano
 Richard Allan Skoglund, Minneapolis,
 WITH DISTINCTION
 Kerry James Sutherland, Minneapolis
 Larry Don Swenson, St. Paul
 Ronald Steven Tanaka, Bloomington
 David Michael Thimmesch,
 Caledonia, WITH DISTINCTION
 Robert James Thompson, Rochester

Louis Constantine Tiggas, Anoka
 Timothy Michael Tinsley, Austin,
 WITH HIGH DISTINCTION
 Richard Frank Toftness, Minneapolis,
 WITH DISTINCTION
 John Philip Toms, Hoyt Lakes,
 WITH DISTINCTION
 Albert Kang Tsai, Kowloon, Hong
 Kong, WITH HIGH DISTINCTION
 Thomas James Van Keuren, St. Paul
 Richard James Vensas, Anoka
 Gary Michael Voltin, A.L.A.,
 Mounds View
 James Leonard Walus, Minneapolis
 Robert Roy Washa, Montgomery,
 WITH DISTINCTION
 James Douglas Whaley, St. Paul
 David Lawrence Wilson, Brooklyn
 Park
 William George Winterstein, White
 Bear Lake, WITH HIGH DISTINCTION
 Terrence O. York, St. Paul, WITH
 HIGH DISTINCTION
 Arnold Dean Zempel, Montevideo

Bachelor of Environmental Design

Dennis Wayne Anderson, Minneapolis
 Angel Emilio Bettaglio Rivas,
 San Salvador, El Salvador
 James Arthur Blomquist, Milaca
 David Joseph Colalillo, Duluth
 Daniel Leroy Damschen, Minnetonka
 James Benjamin Dauer, New Ulm
 Lyle Gary Folkestad, Pine Island
 Robert Albert Geiser, St. Paul

Loren Duane Hoseck, Hendricks
 Eloy Elden Quenroe, Canby
 James Arthur Schoettler, St. Paul
 Gary Warner Strohmeier, Frazee
 Jeffery Rollin Sweitzer, Minnetonka
 Lyle James Swenson, Crookston,
 WITH DISTINCTION
 Dale Douglas Wenkus, Richfield

Bachelor of Geo-Engineering

Charles Alfred Rhoades, B.S.Geol.,
 Bloomington

Bachelor of Landscape Architecture

Lyle Gary Folkestad, Pine Island
 Donald Scott Ganje, St. Paul

Robert Arthur Hawkinson, Shafer

Bachelor of Mathematics

- Brian William Belair, St. Paul
Yuen Chau Chan, Hong Kong
ChakMing Chic, Hong Kong,
WITH HIGH DISTINCTION
Bruce Bevington Davis, St. Louis Park,
WITH HIGH DISTINCTION
Lawrence Marcus Espe, Minneapolis,
WITH HIGH DISTINCTION
Michael Arthur Ess, Minneapolis,
WITH DISTINCTION
Henry Eli Fink, Minneapolis,
WITH DISTINCTION
Bennett Hackner, Minneapolis,
WITH DISTINCTION
Dennis Michael Hamerski,
Minneapolis, WITH DISTINCTION
Bruce Alexander Hurlley, St. Paul,
WITH HIGH DISTINCTION
James Charles Ingebretsen,
Minneapolis, WITH HIGH
DISTINCTION
George Richard King, Minneapolis
Kirk Reid Kluegel, Mahtomedi,
WITH DISTINCTION
Joseph Thomas Kochevar, A.A.,
Eveleth
Paul Leroy Krueger, St. Paul,
WITH DISTINCTION
- Carl Joseph Kyonka, Minnetonka,
WITH HIGH DISTINCTION
Gary Lee Maltzen, Minneapolis,
WITH DISTINCTION
Philip Wayne McCartney, Eden
Prairie, WITH HIGH DISTINCTION
John Charles Meyers, Minneapolis,
WITH DISTINCTION
Michael Anthony Mohar, Virginia
Bruce Gordon Oldaker, Arvada, Colo.,
WITH DISTINCTION
Gary Lyle Quam, Fridley
Dixie Lee Ann Riley, Osseo
Sandra Kay Sandstrom, Grand Rapids
James Louis Stanislaw, St. Paul
John Matthew Takavitz, Ely
Bruce Edwin Wachs, St. Paul
Ronald LeRoy Wagenknecht, West
St. Paul, WITH HIGH DISTINCTION
Rodney Jerome Walz, Sebeka,
WITH DISTINCTION
Richard Alan Witthans, Minneapolis
Ronald Charles Witthans,
Minneapolis
Lee Edward Yurczyk, St. Joseph,
WITH DISTINCTION

Bachelor of Mechanical Engineering

- Douglas Francis Apel, Minneapolis,
WITH DISTINCTION
Morfah Sirri Atassi, Homs, Syria
Masoud Barjesteh, Tehran, Iran
Bryan Jay Beaulieu, Hopkins
Thomas Lee Bissonett, Edina
Wing Chung Chow, Hong Kong,
WITH HIGH DISTINCTION
Ronald Lee Christenson, Minneapolis,
WITH DISTINCTION
Ernesto Cortissoz, Jr., Barranquilla,
Colombia
Keith Allan Davis, St. Paul
Thomas Leroy Davison, A.A., Mound
Antoine Y. Hanna Dib, Lebanon
Jay Calvin Dolejsi, Hopkins
Duane Lee Ducommun, Anoka,
WITH DISTINCTION
- Stefan Anthony Dunda, Chisholm
Louis James Esterby, Coon Rapids
Dennis Earl Ferguson, Viola,
WITH DISTINCTION
Thomas Raymond Frantz, St. Paul
Rafael Getsug, St. Paul
Roger Paul Goepfinger, North St.
Paul
Edward Semple Greacen, Minneapolis
John Patrick Griffin, North St. Paul
Thomas Wayne Grue, St. Paul
Timothy Robert Hedlund, St. Paul,
WITH HIGH DISTINCTION
Richard Allen Henderson, A.A.,
Biwabik
Donald Wayne Hewitt, Roseville
John Eugene Hey, Duluth

- Grant Dean Isberg, Rushford,
WITH DISTINCTION
- Dean Curtis Johnson, Marshall,
WITH DISTINCTION
- Larry Robert Kline, Ellsworth, Wis.
- Joseph John Krak, Hibbing
- Pui Kwong Lau, Hong Kong
- Loren Lynn Lemke, St. Paul
- Richard Curt Leppala, Duluth,
WITH HIGH DISTINCTION
- Joseph Patrick Litecky, Minneapolis
- James Neal Love, St. Paul
- Steve Frank Lucas, Long Prairie, WITH
DISTINCTION
- Richard Stephen Luck, Duluth
- Robert Donald MacDonald III,
Stillwater, WITH DISTINCTION
- Lyle Theodore Mayer, Rochester
- Martin James Meyers, Jr., Richfield
- Gary Wallace Miner, Robbinsdale
- Mel Murray Moench, Coon Rapids
- Michael Joseph Nagel, Anoka
- Gene Peter Nelson, A.A., Brainerd
- Kenneth Allan Olson, St. Paul
- Steven Carl Panasuk, Comstock
- Jeffrey James Parkinson, Minneapolis,
WITH DISTINCTION
- Kevin Orval Peickert, Prior Lake
- Abdon Alden Peterson, Jr., Milaca
- Thomas William Peterson, Rochester,
WITH DISTINCTION
- Steven Michael Pickford, Minnetonka,
WITH DISTINCTION
- Edwin Chi Ho Pow, Hong Kong,
WITH HIGH DISTINCTION
- Roger Martin Powers, Rochester
- Joel Robert Puncochar, Osseo, WITH
DISTINCTION
- Timothy Ralph Quinn, St. Paul,
WITH DISTINCTION
- David Leo Reed, B.Aero.E., St. Louis
Park
- Mark Duane Roble, Spring Grove
- Douglas Fred Roome, Minneapolis
- Donald Gary Russell, Jump River,
Wis.
- Douglas Roy Schanzenbach, Richfield
- Steven Dennis Schmeichel, Odessa
- Warren Birtley Schneider, Stillwater,
WITH DISTINCTION
- Marlo William Schulz, Winthrop
- Timothy Keith Sehnert, Golden
Valley
- John Albert Severson, St. Paul,
WITH HIGH DISTINCTION
- Ronald William Siedow, St. Paul
- Alexander Simich, Minneapolis
- John Charles Tacheny, Mankato,
WITH HIGH DISTINCTION
- Karen Jean Traeger, Hibbing
- Giovanni Antonio Volpe, Barran-
quilla, Colombia
- John Harold Wang, Duluth, WITH
DISTINCTION
- Roger Vernon Wegner, Minneapolis,
WITH DISTINCTION
- Roy Scott Williams, Mountain Iron,
WITH HIGH DISTINCTION
- Michael Phillip Wojcehowicz,
Kenosha, Wis.
- Dennis Yen Wong, Rochester, WITH
DISTINCTION

Bachelor of Metallurgical Engineering

- Peter James Anderson, B.Phys., Rich-
field
- John Sylvester Koshuba, Fridley
- Neville Reid Moody, Coon Rapids,
WITH DISTINCTION
- Brian Charles Torgerson, Adams,
WITH DISTINCTION
- Gregory Ross Wyberg, Minneapolis

Bachelor of Mineral Engineering

Pak Chi Yee, Bok-Shan, China

Bachelor of Physics

Thomas Lee Clubb, St. Cloud
Terrence John Erickson, St. Paul
Kerry Robert Field, Oshkosh, Wis.
Herbert Ellis Gladen, Cloquet, WITH
DISTINCTION
Frank Harder, Butterfield, WITH HIGH
DISTINCTION
Thomas Ernest Hendrickson, Hop-
kins, WITH DISTINCTION
David Merland Homstad, Minne-
apolis
James Charles Ingebretsen, Minne-
apolis, WITH HIGH DISTINCTION
Richard David Johnson, Minneapolis

James Rada, Oakdale, WITH HIGH
DISTINCTION
Steven Wayne Richter, St. Paul, WITH
DISTINCTION
Daniel Richard Starks, Owatonna,
WITH HIGH DISTINCTION
John Hamilton Stauffer, Columbus,
Ohio
Roger L. Struve, Minneapolis
Richard Lee Swanson, Rochester,
WITH HIGH DISTINCTION
David Paul Thimsen, Minnetonka,
WITH DISTINCTION

Bachelor of Science in Geology

Robert Bruce Beresford, Crookston
Jeffrey Lynn Edlen, Jacksonville, Ill.
Robert James Grundy, Austin, WITH
HIGH DISTINCTION

Ernest Dwight Gustafson, Jr., Min-
neapolis, WITH HIGH DISTINCTION
Donald Allan Shaner, Fergus Falls

Bachelor of Science in Geophysics

Robert Lewis Ayers, Godfrey, Ill.

UNIVERSITY COLLEGE

Bachelor of Arts

Barbara Anne Burquest, Elk River
Rosa Maria De La Cueva, A.A.,
Torreon, Coahuila, Mexico
Mary Charlotte Ellingson, Waukon,
Iowa, WITH HIGH DISTINCTION
Linda Ann Gaerthofner, St. Paul
Bayne Edward Holley, Arden Hills
Dennis Dean Johnson, St. Louis Park

Jeanne Marie Keller, Minneapolis
Brenda Joyce Kopp, Waconia, WITH
DISTINCTION
Ruth Kanuit Plotnicky, Minneapolis
Clayton Herman Tanner, St. Paul
Susan Tania Tilsen, Minneapolis
Jeanne Elaine Topka, Edina

Bachelor of Science

Thomas Lowell Anderson, Edina
Kathleen Ruth Asao, Mound, WITH
DISTINCTION
Russell John Bockstedt, Minneapolis
Marc H. Bomberg, St. Paul, WITH
DISTINCTION

Marcia Lynn Boyd, St. Paul
James Richard Clifford, Minneapolis
Dennis Garvin Croonquist, Minne-
apolis
Jerry Dean, A.A., Minneapolis,
WITH DISTINCTION

Jack Dean DesChene, A.A., Minneapolis, WITH DISTINCTION
 Nancy Kathryn Dolan, A.A., Minneapolis
 Lee Francis Doucette, A.A., Minneapolis
 Gail Marie Dummer, St. Peter, WITH DISTINCTION
 Marilyn Rochelle Erickson, St. Paul
 Bruce Leonard Ericson, Duluth
 Stephen Thomas Frost, Minneapolis
 Alfrieda Marie Gabiou, Hastings
 David Eugene Gilmore, Burnsville
 Lawrence Rollin Harris, St. Paul
 Curtis Maynard Haugen, Minneapolis
 George Arthur Henly, Foley, WITH DISTINCTION
 Veryl L. Holmes, A.A., Minneapolis, WITH DISTINCTION
 Charles Thomas Hvass, Jr., Minneapolis, WITH DISTINCTION
 Steve Kenneth Johnson, St. Paul, WITH DISTINCTION
 Laurence Joseph Kelly, A.A., St. Paul
 David Gerald Kraakmo, Alcester, S.D.

James Merton Lerberg, Elgin, Ill.
 Roxanne Sharon Manly, Minneapolis
 Larry Joel Mattson, A.A., Sebeka
 Patrick Joseph McAndrews, Edina
 Robin Midge Moss, St. Louis Park
 Florine A. Muska, G.D.H., St. Paul
 Gerald Thomas Nye, Richfield
 James Barton O'Shea, A.A., Minneapolis
 Duane Alan Parks, Minneapolis
 Cathy Susan Peters, G.D.H., Minneapolis
 Maria Rebecca Pintado, A.A., St. Paul
 Raymond Odette Presley, St. Paul
 Marshall Alan Rappaport, Minneapolis
 Steven Rubinger, Minneapolis
 Robert Steven Ryan, St. Louis Park
 Raoul Elian Schander, Minneapolis
 Kenneth Ernest Schindeldecker, A.A., Rosemount
 Thomas LeRoy Schlick, Savage
 Richard Paul Toren, Mahtomedi
 Brian Richard Wiessner, St. Paul
 Dennis Lloyd Yoraway, Minneapolis

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science

David Martin Best, St. Paul
 Barbara Edith Boyd, St. Paul, WITH DISTINCTION
 David Paul Bronder, Foley
 David Bruce Brunson, Minneapolis
 Richard Frank Ceman, Ft. Worth, Tex.
 Bradley LeRoy Day, Duluth, WITH DISTINCTION
 Christine Lynn Gabel, Bloomington, WITH DISTINCTION
 Craig Lee Galbreath, Enderlin, N.D., WITH HIGH DISTINCTION
 Robert Harold Hathaway, Osseo
 Patricia Ann Hayes, Rochester
 Michael Donald Healy, Montrose, S.D.
 William Ernest Hiatt, Minneapolis, WITH DISTINCTION

Bruce Dean Hultgren, Cambridge, WITH HIGH DISTINCTION
 Cheri Ann Johnson, Minneapolis, WITH DISTINCTION
 Kenneth P. Kirchgessner, St. Louis Park, WITH DISTINCTION
 Mark Douglas Kittleson, Sherburn
 Helen A. Lloyd, Mankato, WITH HIGH DISTINCTION
 Dean William Lofquist, Kensington, WITH DISTINCTION
 Gregory Scott Lovgren, Rochester, WITH DISTINCTION
 Linda Jean Madson, Blooming Prairie
 Stephen Philip Malin, Genoa, Wis.
 Brendan Colm McKiernan, St. Paul, WITH DISTINCTION
 David William Merry, Sun Prairie, Wis., WITH DISTINCTION

Fred Willis Pomeroy, South St. Paul
 James Wallace Rieser, B.S., Racine,
 Wis., WITH DISTINCTION
 Steven Jon Ruotsinoja, Wayzata,
 WITH DISTINCTION
 Donald Alan Schellpfeffer, B.S., Hori-
 con, Wis., WITH DISTINCTION
 Frank James Skalko, A.A., Gilbert
 Hannis Ledbetter Stoddard III, St.
 Paul

Gary Wayne Thayer, Princeton, WITH
 DISTINCTION
 John Carl Thomsen, Racine, Wis.
 David Iver Weckwerth, Arlington,
 WITH HIGH DISTINCTION
 Charles Walter Westman, St. Paul
 Loren Arthur Yerks, Minneapolis,
 WITH DISTINCTION

Doctor of Veterinary Medicine

Gerald Roy Abelsen, B.A., B.S.,
 Duluth
 Gary Leroy Andersen, B.S., Prior Lake
 John Wight Baillie II, B.S., St. Paul
 Leland Dale Bezdeka, Ladysmith,
 Wis.
 Lorna Catherine Brown, B.S., Wykoff
 William Kent Brunell, B.S., Mound
 Gerald Keith Ching, B.S., Castle-
 wood, S.D.
 Michael Thomas Collins, B.S., Min-
 neapolis
 Larry J. Connelly, B.S., Clinton
 Edward Frederick Dettmers, B.S.,
 M.A., St. Paul
 James Elmer Dick, A.A., B.S., Moun-
 tain Lake
 Jo-Ann Mae Drees, A.A., B.S.,
 Rochester
 Richard Redd Dubielzig, Madison,
 Wis.
 Stanley James Fagerness, A.L.A., B.S.,
 Rushmore
 Craig Steven Frisk, B.S., Minneapolis
 Gary Warren Gordon, B.S., Albert
 Lea
 John Charles Gramith, Richfield
 Daniel Vernon Groth, B.S., Zumbrota
 Wayne Orville Hagen, B.S., Belgrade
 Roland Lynn Hofmeister, B.S.,
 Waseca
 Paul Bradford Hoppstad, Gary
 John Paul Hurtgen, B.S., Pewaukee,
 Wis.
 Jill Roxanne Johnson, B.S., Waubay,
 S.D.

Steven Carl Johnson, B.S., Minne-
 apolis
 Davis James Kirkpatrick, Sanborn
 Vernon Richard Krebs, B.S., Albany
 Julian Kent Lang, B.S., Grantsburg,
 Wis.
 Richard Lyle Leither, B.S., St. Louis
 Park
 William Bernard Luckemeyer, B.S.,
 St. Cloud
 Richard Allen Maage, B.S., Ostrander
 Glenn Wayne Madsen, B.S., Arco
 Linda Jean Madson, Blooming Prairie
 Stephen Frederic Maske, B.S., Mon-
 roe, Wis.
 Dennis Joseph Meyer, B.S. with
 distinction, Medford, Wis.
 Wayne Melvin Mikula, B.S., Chetek,
 Wis.
 Loren Forrest Minear, A.A., Glenville
 John Frank Miskowicz, B.S., Colum-
 bia Heights
 Dennis Irvin Nelson, B.A., Kensing-
 ton
 Mark Robert Nelson, B.S., St. Louis
 Park
 Philip Lewis Nelson, B.S., Golden
 Valley
 Gary Allan Noser, B.S., Rochester
 James Earl Oosterhuis, Ogilvie
 Donald John Peterson, B.S., Cumber-
 land, Wis.
 Theodore C. Reichmann, B.S.Pharm.,
 Villard
 Joanne Marie Rick, B.S., Crystal

Donald Louis Rothbauer, Bloomer,
Wis.
Glen Paul Rouse, B.S., Olivia
William Woodrow Ryan, B.S.,
Waconia
Diane Carol Sittig, B.S., Waterloo,
Iowa
Douglas Dale Sitz, River Falls, Wis.
Janis Carol Spencer, B.S., Sturtevant,
Wis.
Michael Tieron Stabbe, Milwaukee,
Wis.
David R. Steiner, B.S., Breckenridge
James LeRoy Tomlinson, Jr., B.S.,
Mankato

Robert Dennis Walton, B.S., Minot,
N.D.
William Charles Wieland, B.S.,
Morris
Michael Harvey Williams, B.S.,
Austin
Stephen John Withrow, B.S., Edina
Barry Lester Yano, B.S., Mound
John Michael Zimmerman, B.S.,
Chaska
John Thomas Zimmerman, B.S.,
Minneapolis

June Candidates for Commissions

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

Cornell J. Anderson, Excelsior
Paul W. Burkett, Minneapolis
Robert L. Gaffney, Stillwater
Robert A. Hanner, St. Paul
Frank R. Harder, Butterfield
Donald G. Klemp, Minneapolis
Lyle T. Mayer, Rochester

Douglas A. Merrigan, Minneapolis
John C. Meyers, Richfield
David L. Schroeder, St. Paul
John E. Skovbroten, Owatonna
Robert D. Vavra, Ely, Iowa
Russell G. Wick, St. Louis, Mo.
Kevin F. Wille, St. Louis Park

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Adjutant General Corps

Alan C. Eidsness, St. Paul

Second Lieutenant, Air Defense Artillery

Robert F. Lommel, Jr., Glenwood

Second Lieutenant, Corps of Engineers

Stephen J. Salter, Westerville, Ohio

Second Lieutenant, Field Artillery

William F. Klumpp, Jr., Saginaw,
Mich.

Bruce G. Oldaker, Arvada, Colo.
Gary E. Talbot, Minneapolis

Second Lieutenant, Infantry

Robert R. Raatz, Brooklyn Park

Robert C. Sandager, Hills

Second Lieutenant, Medical Service Corps

Stephen M. Dolgin, Concord, Calif.

Second Lieutenant, Military Police Corps

Arvid W. Rydholm, Minneapolis

Second Lieutenant, Ordnance Corps

Eric R. Lind, Fridley

Neville R. Moody, Coon Rapids

Second Lieutenant, Quartermaster Corps

Richard W. Hinze, St. Paul

Second Lieutenant, Signal Corps

George E. Aandahl, Austin
Donald R. Betzold, Minneapolis

James C. Diracles, Edina

Second Lieutenant, Transportation Corps

Henry S. Alcott, New Hope

Joseph M. Mansur, West St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Kevin M. Alaspa, Duluth
Jerry D. Lindstrom, Helena, Mont.
Dale O. Snodgrass, Lake Ronkon-
koma, N.Y.

Lawrence W. Strunk, Arlington, Va.
Thomas G. Vetter, Golden Valley
James R. Worth, Richfield

Ensign, USNR

Robert S. Koch, St. Paul

Second Lieutenant, USMC

Frederick L. Hauenstein, St. Paul

Joseph M. Zeimet, Avon

Second Lieutenant, USMCR

John M. Buettner, Minneapolis

**Summary of Degrees Conferred by the University
During the Academic Year 1971-1972**

Conferred July, August, and December, 1971; and March 1972	5,104
Conferred June, 1972 (subject to completion of requirements)	<u>5,056</u>
Total degrees conferred 1971-1972	10,160*

* Includes 947 conferred at Duluth, 312 at Morris, and 130 at Crookston.

Academic Costume

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

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

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

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UNIVERSITY OF MINNESOTA

Summer Commencement, 1972

FRIDAY AFTERNOON, AUGUST 25, 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 Lyman A. Brink, Hallock

The Honorable Fred A. Cina, Aurora

The Honorable Daniel C. Gainey, Owatonna

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

The Honorable Fred J. Hughes, St. Cloud

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

The Honorable Lester A. Malkerson, Minneapolis

The Honorable George W. Rauenhorst, Olivia

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

The Honorable John A. Yngve, Wayzata

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 Programs

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-first 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 241,700 degrees, each one in recognition of the successful completion of an exacting academic program.

In addition to giving collegiate instruction to over 51,000 students annually on its Twin Cities, Duluth, Morris, Crookston, Waseca, and Rochester campuses, the University offers, through its Schools of Agriculture and 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 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 amount of money available for scholarship assistance.

As it meets the needs of present students, the University must also make plans for those of the future. The 51,000 students who enrolled at the University at the beginning of the 1971-1972 academic year represented nearly half of Minnesota's college-level enrollments. They underline the fact that there are limits to the University's physical capacity. Future enrollments must be adjusted to those limits.

THE 1971 LEGISLATURE granted the University \$162,174,982 for general operations and maintenance during the 1971-1973 biennium. In addition, the University received \$9,343,500 for University Hospitals; \$29,408,892 for special appropriations, including special extension and research activities; \$40,632,900 for new buildings, land, and the rehabilitation of existing buildings; \$1,844,000 for the Crookston Technical College; and \$1,400,000 for the Waseca Technical College.

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

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

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

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

Order of Events

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, Associate Dean Roger Page, Ph.D., College of Liberal Arts, 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	Law School
College of Biological Sciences	College of Liberal Arts
College of Business Administration,	Medical School
Continuing Education and	School of Nursing
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

During the procession Professor Fleischer will play:

Festival MusicGluck

THE NATIONAL ANTHEM: As Assistant Professor Clifton Ware, Ph.D., 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 Lewis R. Church, B.A., Director of the Institute of Religion of the Church of Jesus Christ of Latter-day Saints and member of the Council of Religious Advisers.

SPEAKING FOR THE UNIVERSITY: Vice President Paul H. Cashman, Ph.D., Student Affairs.

COMMENCEMENT ADDRESS: Commissioner Howard B. Casmey, M.Ed., Minnesota State Department of Education.

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: After each new Doctor of Philosophy has been hooded, Dean May Brodbeck, Ph.D., Graduate School, will present him to Vice President Cashman. Assisting them will be Faculty Marshals Associate Professor John A. Sebbel, J.D., Law School; Assistant Professor Ellen C. Egan, Ph.D., School of Nursing and Professor Harold Paulus, Ph.D., School of Public Health.

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

PRESENTATION OF CERTIFICATES AND BACHELORS' DEGREES: Assistant Vice President Lloyd H. Lofquist, Ph.D., Academic Administration will introduce the deans of the colleges or their representatives, who will present to Vice President Cashman 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
Professor Thomas R. Hoffmann, Ph.D., College of Business Administration

Dean Harold Miller, Ph.D., Continuing Education and Extension
Assistant Dean James R. Jensen, D.D.S., School of Dentistry
Assistant Dean Frank B. Wilderson, Jr., 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 R. Ford, Ph.D., College of Home Economics
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 Theodore A. Olson, Ph.D., School of Public Health
Professor Robert Plunkett, Sc.D., Institute of Technology
Professor Dewey G. Force, Jr., 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:
Trumpet Voluntary Purcell

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

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

Academic Costume

Academic costume — cap, gown, and sometimes hood — may be worn by anyone with a college degree, or by a candidate whose degree is soon to be awarded. Characteristics of costumes show their wearers' highest degrees, 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 armhole. 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, gold 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. Doctor's 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	maroon
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	maroon
General College	crimson and white
College of Home Economics	maroon
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.

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 upon those listed below and others meeting the graduation requirements.

GRADUATE SCHOOL

Doctor of Education

Kenneth Merrill Ashpole, Albert Lea
A.A. '50, Austin Junior College; B.S. with honor '52, Mankato State College; M.A. '56, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: The Development of a Model for Legislative Special State Financial Aids for Programs for the Academically Gifted. Major Adviser: Prof. N. C. Nickerson.

James MacLain Kraby, Mentor
B.S. '62, Bemidji State College; M.A. '66, Western Michigan University. Major: Educational Administration. Minor: Supporting Program. Thesis: An Analysis of Role Expectations for Presidents in the Minnesota State Junior College System. Major Adviser: Prof. V. D. Mueller.

Doctor of Philosophy

Reed Edward Barker, Mapleton, Utah
B.S. '68, Utah State University; M.S. '70, University of Minnesota. Major: Plant Breeding. Minor: Supporting Program. Thesis: Inheritance of Indole Alkaloids in Reed Canarygrass. Major Adviser: Prof. A. W. Hovin.

Patricia Sandquist Broen, Mahtomedi
B.S. with distinction '66, M.A. '70, University of Minnesota. Major: Speech Science, Pathology, and Audiology. Minor: Supporting Program. Thesis: The Verbal Environment of the Language-Learning Child. Major Adviser: Prof. G. M. Siegel.

Paul Harlan Blaney, New Haven, Conn.

B.A. '66, Eastern Nazarene College; M.A. '68, University of Minnesota. Major: Psychology. Minor: Psychiatry. Thesis: Two Studies on the Language Behavior of Schizophrenics. Major Adviser: Prof. P. E. Meehl.

Malcolm Roger Burdick, Milton, Wis.
B.S. '66, University of Wisconsin. Major: Psychology. Minor: Supporting Program. Thesis: An Exploration of the Aversion Therapy Technique of Covert Sensitization with Selected Cases of Exhibitionism. Major Adviser: Prof. D. T. Lykken.

Joseph Clifton Bratton, Hilo, Hawaii

B.A. '68, University of Hawaii; M.A. '70, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Programmatic Studies in Client Perceptions of Counselors. Major Adviser: Prof. S. R. Strong.

Joanna Burger, Niskayuna, N.Y.

B.S. '63, State University of New York at Albany; M.S. '65, Cornell University. Major: Ecology. Minor: Supporting Program. Thesis: Breeding Adaptations of Franklin's Gull (*Larus pipixcan*) to a Marsh Habitat. Major Adviser: Prof. H. B. Tordoff.

John Walker Briggs, Rochester, N.Y.

B.A. '60, Hobart College; M.A.T. '61, Johns Hopkins University. Major: History. Minor: Supporting Program. Thesis: Italians in Italy and America: A Study of Change Within Continuity for Immigrants to Three American Cities, 1890-1930. Major Adviser: Prof. T. L. Smith.

Glen Hamilton Dahlbacka, Waukegan, Ill.

B.S. with distinction '68, University of Illinois. Major: Physics. Minor: Supporting Program. Thesis: A Search for Gamma Ray Emission from the Region of the Galactic Center. Major Adviser: Prof. C. J. Waddington.

David Willis Drummond, New Haven, Conn.

B.S. '62, California Institute of Technology; M.S. '68, University of Minnesota. Major: Environmental Health. Minor: Biometry. Thesis: Effects of Humidity, Location, Surface Finish, and Separator Thickness on the Survival of *Bacillus Subtilis* Var. *Niger* Spores Located Between Mated Surfaces. Major Adviser: Prof. I. J. Pflug.

Thomas John Finstad, Starbuck

B.A. '55, St. Olaf College; M.A. '59, University of Minnesota. Major: Physical Education. Minor: Educational Psychology. Thesis: A Comparison of Attitudes Toward Physical Education Among Selected Junior High School Boys Receiving Letter Grades and/or Participating in Teacher-Student Conferences. Major Adviser: Prof. J. F. Alexander.

Paula Baral Fox, Baltimore, Md.

B.A. '68, Brandeis University. Major: Psychology. Minor: Child Psychology. Thesis: Locus of Control and Self Concept in Mildly Mentally Retarded Adolescents. Major Adviser: Prof. P. F. Briggs.

William Kendall Freiert, Washington, D.C.

B.A. '65, M.A. '66, St. Louis University. Major: Classics. Minor: Supporting Program. Thesis: The Motifs of Confrontation with Women in Homer's *Odyssey*. Major Adviser: Prof. R. J. Schork.

Arnold Lawrence Goldman, Turlock, Calif.

B.A. '54, University of Connecticut. Major: English. Minor: History. Thesis: The Structure of Time in Shakespearean Comedy. Major Adviser: Prof. Martin Roth.

Ved Prakash Gupta, Delhi, India

B.Tech. '67, Indian Institute of Technology, Delhi; M.S. '68, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: Upper Bound on Heat Transfer Across a Porous Fluid Layer Heated from Below. Major Co-Advisers: Profs. D. D. Joseph and A. S. Berman.

Owen Paul Halleen, Wheaton, Ill.

B.S. '56, Wheaton College; M.Ed. '57, University of Illinois. Major: Education. Minor: Curriculum and Instruction. Thesis: Teacher Behavior in a Modular-Flexible Scheduled School: A Comparative Study. Major Adviser: Prof. N. C. Nickerson.

Betty Lou Heidelberg, Minneapolis

B.A. '64, M.A. '66, University of Minnesota. Major: French. Minor: Italian. Thesis: Narrative Art in the *Contes* of Villiers de l'Isle Adam. Major Adviser: Prof. A. A. Renaud.

Carl Wayne Hensley, Bristol, Tenn.

B.A. '58, Milligan College; B.D. '63, Christian Theological Seminary; M.A. '66, Butler University. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Disciples of Christ: The Rhetoric of American Millennialism. Major Adviser: Prof. E. C. Bormann.

David Earl Hochtritt, Oshkosh, Wis.

B.A. '56, University of Northern Colorado; M.S. '59, University of Wisconsin. Major: Education. Minor: Educational Administration. Thesis: An Analysis of Attitudes Toward Articulation Patterns Among the University of Wisconsin, the Nine Universities of the Wisconsin State University System and the Private Colleges in the Professional Preparation of Physical Educators in the State of Wisconsin. Major Adviser: Prof. J. F. Alexander.

Robert Floyd Hoel, Fort Collins, Colo.

B.A. '64, Hamline University; M.B.A. '66, Indiana University. Major: Business Administration. Minor: Supporting Program. Thesis: The Effect of Introductory Price on Sales. Major Adviser: Prof. C. W. Rudelius.

Evelyn Louise Holmboe, Tracy

B.S. '63, M.A. '69, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Reality Testing as a Technique of Attitude Modification. Major Co-Advisers: Profs. E. M. Birkmaier and G. H. McCune.

George Cornelius Hudson, Jr., West Point, Ga.

A.B. '59, M.A. '61, Duke University. Major: English. Minor: Art History. Thesis: *The Stone Heart: An Image of the Spiritual Condition of Man in Seventeenth Century Poetry*. Major Adviser: Prof. G. W. O'Brien.

Robert DeVere Hunt, Cashel, Tipperary, Ireland

B.Ag.S. '65, University College, Dublin. Major: Agricultural Economics. Minor: Economics. Thesis: The Contrasted Effects of Quota Autarchy and Free Trade Policies on U.S. Beef Production and Prices. Major Adviser: Prof. J. P. Houck.

July

Elizabeth Meyers Hyde,
Shaker Heights, Ohio

B.A. '66, Bucknell University; Spec.Cert. '69, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: A Developmental View of the School Related Correlates of Maturity as Measured by the Missouri Children's Picture Survey. Major Adviser: Prof. M. D. Hall.

Paul Howard Jess, Ann Arbor, Mich.

B.A. '58, M.A. '59, University of Iowa. Major: Mass Communication. Minor: Industrial Relations. Thesis: Anti-Trust Law: A New Approach to Access to the Media. Major Adviser: Prof. J. E. Gerald.

Fredrick William Juengst, Jr.,
New Britain, Conn.

B.S. '64, Upsala College; M.S. '68, University of Connecticut. Major: Microbiology. Minor: Supporting Program. Thesis: RNA and Protein Synthesis during Germination of *Myxococcus Xanthus* Myxospores. Major Adviser: Prof. Martin Dworkin.

Jay Don Kain, Minneapolis

B.S. '54, M.A. '61, Ball State University. Major: Education. Minor: Studio Arts. Thesis: An Experimental Study of the Relation of University Coordinated Clinical Task Assignment-Activities to the Self-Concept of Art Education Student Teachers. Major Adviser: Prof. C. J. Hoyt.

Ann Edwards Coutts Kennedy,
Edinburgh, Scotland

B.Ed. '66, University of Alberta; M.A. '69, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Miniature Linguistic System as a Code-Breaking Device for the Deaf. Major Adviser: Prof. D. F. Moores.

Theodore Kobs, Minnetonka

B.S. '54, M.A. '60, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: The Relationship between Second Graders' Auditory/Visual Memory Span for Random Letter Sequences and Auditory/Visual Methods of Learning to Spell. Major Adviser: Prof. Robert Dykstra.

John Norton Kondrasuk, Gilman,
Wis.

B.S. cum laude '64, Wisconsin State University, Eau Claire; M.A. '66, University of Minnesota. Major: Psychology. Minor: Industrial Relations. Thesis: Rehabilitation Managers' Gains in Knowledge of Management by Objectives: Comparing the Training Methods of Coaching and Attending a Seminar. Major Adviser: Prof. R. C. Warnken.

Kenneth Charles Kulander,
Minneapolis

B.S. '65, Cornell College. Major: Physical Chemistry. Minor: Mathematics. Thesis: Double Excitation of Atoms by Electron Impact. Major Adviser: Prof. J. S. Dahler.

Steven Jeffrey Kupetz, Minneapolis

B.A. '66, University of Minnesota. Major: South Asian Languages. Minor: Supporting Program. Thesis: The Non-Dualistic Philosophy of Kashmir Saivism: An Analysis of the Pratyabhijna School. Major Adviser: Prof. G. R. Welbon.

Louis William Kutcher, Jr., Tampa,
Fla.

A.B. '63, M.A. '67, University of Rhode Island. Major: Sociology. Minor: Supporting Program. Thesis: The Part-Time Dropout: Family and School Achievement Characteristics of the High Absentee in a Low-Income Elementary School. Major Adviser: Prof. G. A. Donohue.

Richard Gordon Lindblad,
Minneapolis

B.A. '49, Augsburg College; M.A. '52, University of Minnesota. Major: Political Science. Minor: Sociology. Thesis: Progressive Politics and Social Change. Major Adviser: Prof. M. Q. Sibley.

William John Mattson, Jr.,
Ironwood, Mich.

B.S. '65, M.S. '66, University of Michigan. Major: Entomology. Minor: Ecology. Thesis: The Role of Insects in the Dynamics of Cone Production of Red Pine, *Pinus Resinosa*. Major Adviser: Prof. H. M. Kulman.

Paul Allan Mauger, Cheshire, Conn.

A.B. '67, Gordon College. Major: Psychology. Minor: Neuropsychiatry. Thesis: The Test-Retest Reliability of Persons. Major Adviser: Prof. J. N. Butcher.

Richard William McEntire,
Newport, R.I.

B.S. '64, Massachusetts Institute of Technology. Major: Physics. Minor: Mathematics. Thesis: The Electron Echo Experiment: A Comparison Between the Observed and Predicted Trajectories of Electrons Artificially Injected into the Magnetosphere. Major Adviser: Prof. J. R. Winckler.

Ronald Garfield McKechney,
Bienfait, Saskatchewan, Canada
B.S. '61, Bemidji State College; M.A. '67,
University of Minnesota. Major: Physical Edu-
cation. Minor: Educational Administration.
Thesis: The Effect of Exercise upon Learning
Under Psychological Stress of Rats. Major Ad-
viser: Prof. J. F. Alexander.

Susan Elizabeth Nicol, Briarcliff
Manor, N.Y.

B.A. '62, Mount Holyoke College; M.A. '66,
Columbia University. Major: Psychology. Min-
or: Supporting Program. Thesis: The Effect of
Serum from Schizophrenic Patients on Cellular
Lactate Stimulation and Tryptophan Uptake.
Major Adviser: Prof. I. I. Gottesman.

Nancy Jeanne Russell, Virginia

B.A. '60, M.A. '67, University of Minnesota.
Major: Zoology. Minor: Microbiology. Thesis:
Epidermal Ultrastructure During Wound Hea-
ling in Chick Embryos. Major Adviser: Prof.
N. T. Spratt, Jr.

Michael Allen Rynkiewicz,
Mt. Vernon, Ind.

B.A. '66, Bethel College; M.A. '68, University
of Minnesota. Major: Anthropology. Minor:
Supporting Program. Thesis: Land Tenure
Among Arno Marshallese. Major Adviser: Prof.
R. C. Kiste.

Michael James Shea, Minneapolis

B.A. *summa cum laude* '67, University of Min-
nesota. Major: Psychology. Minor: Supporting
Program. Thesis: A Follow-Up Study into
Adulthood of Adolescent Psychiatric Patients in
Relation to Internalizing and Externalizing
Symptoms, MMPI Configurations, Social Com-
petence, and Life History Variables. Major Ad-
viser: Prof. A. J. Hafner.

Frank Louis Slesnick, Columbus,
Ohio

B.A. '64, Oberlin College. Major: Economics.
Minor: Political Science. Thesis: The Cost of
Caring for Coronary Patients. Major Adviser:
Prof. E. M. Foster.

Ivan Edward Smith, Jr., St. Paul

B.A. '62, M.A. '63, Colgate University. Ma-
jor: American Studies. Thesis: John Dos Pas-
sos: Historian of Twentieth Century American
Culture. Major Adviser: Prof. C. A. Chambers.

Laurence Douglas Smith,
Toronto, Ontario, Canada

B.S. '66, M.B.A. '68, McMaster University.
Major: Business Administration. Minor: Sup-
porting Program. Thesis: A Short Term Plan-
ning Model for Manufacturing Firms. Major
Adviser: Prof. N. L. Chervany.

Naronk Sujjapunroj, Bangkok,
Thailand

B.A. '63, Thammasat University; M.A. '68,
University of Minnesota. Major: Educational
Administration. Minor: Public Administration.
Thesis: Financial Planning Model for Educa-
tion. Major Co-Advisers: Profs. T. F. Stark and
V. D. Mueller.

Timothy Paul Sullivan, Proctor

B.S. '67, M.S. '69, University of Minnesota.
Major: Plant Physiology. Minor: Plant Path-
ology. Thesis: The Effect of Root Genotype
on the Water Relations of Soybean [*Glycine*
max. (L.) Merrill]. Major Adviser: Prof. W.
A. Brun.

Andrés Surís, Cartagena, Spain

Lic. '40, University of Barcelona; M.A. '69,
University of Minnesota. Major: Spanish. Min-
or: French. Thesis: The Cinematographic
Techniques in the Works of Vicente Blasco
Ibañez. Major Adviser: Prof. W. T. Pattison.

William Arthur Swenson, Superior,
Wis.

B.S. '63, M.S.Ed. '66, Wisconsin State Uni-
versity, Superior. Major: Fisheries. Minor: Sup-
porting Program. Thesis: Food Competition
Between the Walleye, *Stizostedion vitreum vi-*
treum (Mitchell), and Sauger, *Stizostedion*
canadense (Smith), in Lake of the Woods,
Minnesota. Major Adviser: Prof. L. L. Smith,
Jr.

Diane Evelyn Johnson Tinsley,
Hibbing

B.A. '66, University of Pennsylvania. Major:
Psychology. Minor: Educational Psychology.
Thesis: Characteristics of Women with Differ-
ent Patterns of Career Orientation. Major Ad-
viser: Prof. R. G. Warnken.

John Chadwick Towner,
River Falls, Wis.

B.S. '66, M.S.E. '69, Wisconsin State Uni-
versity, River Falls. Major: Education. Minor:
Supporting Program. Thesis: The Relationship
Between Early, Intensive Phonics Instruction
and the Ability of Second, Third, and Fourth
Grade Children to Pronounce Synthetic
Words. Major Adviser: Prof. Robert Dykstra.

Robert Louis Utlaug, St. Louis, Mo.

A.B. *cum laude* '57, Central College; A.M.
'59, Boston University. Major: History. Minor:
Anthropology. Thesis: The Role of the Chau-
tauqua Movement in the Shaping of the Pro-
gressive Thought in America at the End of the
Nineteenth Century. Major Adviser: Prof. T.
L. Smith.

David Keith Wildung, Grand Rapids
B.S. '63, Iowa State University; M.S. '68, University of Minnesota. Major: Horticulture. Minor: Plant Physiology. Thesis: Rootstock-Scion Relationships and Root Hardiness in Apples. Major Adviser: Prof. C. J. Weiser.

David Robert Wilkie, Lunenburg,
Nova Scotia, Canada
B.P.E. '65, University of New Brunswick; M.A. '68, University of Alberta. Major: Physical Education. Minor: Educational Psychology. Thesis: Effect of Selected Variables on the Longitudinal Displacement of a Curling Stone. Major Adviser: Prof. J. F. Alexander.

Master of Architecture

David George Bodenbender,
Bellefontaine, Ohio
B.Arch. '66, Ohio State University. Field of Concentration: Architecture. Major Adviser: Prof. W. K. Vivrett.

Master of Arts

Betty Kaye Aboussie, Wichita, Kan.
B.A.Ed. '70, Wichita State University. Field of Concentration: Theatre Arts. Major Adviser: Prof. H. L. Adey.

Rona Schwartz Abramovitch,
Montreal, Quebec, Canada
B.A. '70, McGill University. Field of Concentration: Anthropology. Major Adviser: Prof. O. E. Johnson.

Douglas M. Abrams, Logan, Utah
B.A. *cum laude* '67, Utah State University. Field of Concentration: Political Science. Major Adviser: Prof. M. Q. Sibley.

Dawn Carlotta Ann Anderson,
Belview
B.A. '64, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. H. C. McClaskey.

Olive Jean Hughes Bailey, St. Paul
B.Mus.Ed. *cum laude* '44, North Central College. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

Pamela Grace Barclay, Rochester
B.A. '65, College of St. Teresa. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

Farhad Basri, Tehran, Iran
B.S. '68, National University of Iran. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

Howard E. Becker, Minneapolis
B.A. '70, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. J. J. Flagler.

Thomas Allen Berquist, Chisholm
B.A. *cum laude* '68, University of Minnesota, Duluth. Field of Concentration: Mass Communication. Major Adviser: Prof. J. N. Peterman.

Fred Scott Blaisdell, Minneapolis
B.A. '65, Carleton College. Field of Concentration: Mathematics Education. Major Adviser: Prof. D. C. Johnson.

Jo-Ann Eunice Nielsen Butte,
St. Louis Park
B.S. with honors '65, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.

Kathleen Reis Callahan, Minneapolis
B.A. '69, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. G. W. O'Brien.

Oratai Chayanon, Bangkok, Thailand
B. of Social Adm. '64, Thammasat University. Field of Concentration: Mass Communication. Major Adviser: Prof. R. G. Lindsay.

Rosemary Fa-Chuang Chu, Taipei,
Taiwan
B.A. '67, Fujen Catholic University. Field of Concentration: History. Major Adviser: Prof. S. E. Lehmborg.

Terry Michael Cook, Minneapolis

B.S. with honors '67, Iowa State University. Field of Concentration: History. Major Adviser: Prof. R. L. Rudolph.

Marcia Ann Daily, Chatfield

B.S. '66, Winona State College. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.

Douglas James Empey, Farmington

B.A. '65, Hamline University. Field of Concentration: Industrial Relations. Major Adviser: Prof. H. G. Heneman, Jr.

Joseph Adams Fisher, Springfield, Mo.

B.A. '67, Drury College. Field of Concentration: History. Major Adviser: Prof. P. W. Bamford.

James Edward Fogerty, St. Paul

B.A. '67, College of St. Thomas. Field of Concentration: Library Science. Major Adviser: Prof. E. W. McDiarmid.

Frederick William Ford, Sydney, Mont.

B.S. '64, Eastern Montana College of Education. Field of Concentration: Business Education. Major Adviser: Prof. C. R. Hopkins.

Timothy Austin Frisk, Minneapolis

B.A. '69, University of Minnesota. Field of Concentration: French. Major Adviser: Prof. J. L. Waldauer.

Leslie Gillette, Pleasantville, N.Y.

B.A. '70, Mount Holyoke College. Field of Concentration: Psychology. Major Adviser: Prof. J. J. Jenkins.

Judith Glatt Gross, Brainerd

B.S. '64, Moorhead State College. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.

Leon Joseph Gubeno, New York, N.Y.

B.A. '58, Case Western Reserve University. Field of Concentration: Library Science. Major Adviser: Prof. W. C. Simonton.

Robert Leon Hazel, Minneapolis

B.A. '62, St. Paul Seminary; M.A. '66, University of San Francisco. Field of Concentration: History. Major Adviser: Prof. C. A. Chambers.

Ruoh-Yun Hsieh, Canton, China

B.Ed. '67, National Taiwan Normal University. Field of Concentration: Home Economics. Major Adviser: Prof. M. M. Brown.

Leon Timothy Hunt, Montevideo

B.A. '64, University of Minnesota. Field of Concentration: International Relations. Major Adviser: Prof. E. C. Schoettle.

Henry Oliver Johnson III, Minneapolis

B.G.E. '66, University of Omaha. Field of Concentration: Psychology. Major Adviser: Prof. J. G. Darley.

Suzanne Dawn Johnson, Spring Valley

B.A. *summa cum laude* '70, Macalester College. Major: Speech-Communication. Minor: Psychology. Thesis: The FIRO-B Variable and Negotiation Success. Major Adviser: Prof. D. H. Smith.

Terence Joseph Juneau, Minneapolis

B.A. '70, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. E. W. McDiarmid.

Bruce Anthony King, San Leandro, Calif.

B.A. '70, California State College, Hayward. Field of Concentration: English. Major Adviser: Prof. G. W. O'Brien.

Colleen Beverly Kish, Zumbrota

B.A. *summa cum laude* '70, University of Minnesota. Field of Concentration: English. Major Adviser: Prof. G. W. O'Brien.

Hans Jost Koenig, Kassel, West Germany

B.A. '70, University of Minnesota. Major: German. Minor: Germanic Philology. Thesis: *The Miles Gloriosus in 17th Century German Comedy*. Major Adviser: Prof. G. H. Weiss.

Anita L. Kozan, Waseca

B.S. '69, University of Minnesota. Field of Concentration: Speech Science, Pathology, and Audiology. Major Adviser: Prof. G. M. Siegel.

Grace Wan-Li Lai, Taipei, Taiwan

B.A. '62, Tunghai University. Field of Concentration: History. Major Adviser: Prof. Romeyn Taylor.

Ruth Leyding, Minneapolis

B.S. with distinction '67, University of Minnesota. Field of Concentration: Education. Major Adviser: Prof. D. L. Lange.

Roger Dean Lonning, Albert Lea

B.A. '54, M.A. '57, State College of Iowa.
Field of Concentration: Library Science. Major
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Linnea E. Lose, Cincinnati, Ohio

B.A. '68, Ohio University. Field of Concentra-
tion: Mass Communication. Major Adviser:
Prof. G. S. Hage.

Gordon Allan Lothson, St. Paul

B.A. '66, University of Minnesota. Major: An-
thropology. Minor: Geography. Thesis: Burial
Mounds of the Mille Lacs Lake Area. Major
Adviser: Prof. O. E. Johnson.

Judith Anne Lubet, Hopkins

B.S. cum laude '68, University of Minnesota.
Field of Concentration: American Studies. Ma-
jor Adviser: Prof. M. C. Turpie.

Joseph Lappin Marks, Fort Smith,
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B.A. '69, Westminster College. Field of Con-
centration: Philosophy. Major Adviser: Prof.
G. E. Maxwell.

John Albert Mayer, Minneapolis

B.A. cum laude '68, St. Olaf College. Field of
Concentration: History. Major Adviser: Prof.
C. A. Chambers.

Michael James McCarthy, St. Paul

A.B. '64, Boston College. Field of Concentra-
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M. C. Turpie.

Glenda Faye Mooney, Stillwater

B.S. '59, University of Southern Mississippi.
Field of Concentration: Business Education.
Major Adviser: Prof. R. G. Price.

Sandra Mueller Morris, Minneapolis

B.A. '64, University of Minnesota. Field of
Concentration: Educational Psychology. Major
Adviser: Prof. C. A. Parker.

Kuniaki Nakayama, Japan

B.A. '68, Aoyama Bakuin University. Field of
Concentration: Mass Communication. Major
Adviser: Prof. R. G. Lindsay.

Marie Kristine Nielsen, Forest Lake

B.A. '66, University of Michigan. Field of
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Prof. Edith West.

John Ernest Norton, Moline, Ill.

B.A. '58, Knox College. Field of Concentra-
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Karen Olwig, Denmark

B.A. '70, George Washington University. Field
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B.A. '57, University of Minnesota. Field of
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M.Ed. '70, Seoul National University. Field of
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Don Sarath Rajapatirana, Colombo,
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B.A. with honors '64, University of Ceylon.
Field of Concentration: Economics. Major Ad-
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B.B.A. '47, University of Minnesota. Field of
Concentration: Educational Psychology. Major
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B.S.N. '64, St. Louis University. Field of Con-
centration: Home Economics. Major Adviser:
Prof. R. N. Hey.

Sister Gloria Rivera, Cedar Rapids,
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B.A. '66, Mount Mercy College. Field of Con-
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viser: Prof. G. H. Weiss.

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B.S. cum laude '71, University of Minnesota.
Field of Concentration: Library Science. Ma-
jor Adviser: Prof. W. C. Simonton.

Nancy Ann Sells, Minneapolis

B.A. summa cum laude '71, University of
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Science. Major Adviser: Prof. H. C. Mc-
Claskey.

Sister Maris Simon, Mankato

B.A. '62, Mount Mary College. Field of Concentration: Music. Major Adviser: Prof. Johannes Riedel.

Marilyn Elaine Thacker,
Arlington Heights, Ill.

B.S. '60, Eastern Illinois University. Field of Concentration: Mathematics Education. Major Adviser: Prof. J. E. Stochl.

Pamela Lee Tibbetts, Beloit, Wis.

B.A. '71, Lawrence University. Field of Concentration: Library Science. Major Adviser: Prof. W. C. Simonton.

Kenneth William Tolo, Austin, Tex.

B.A. *summa cum laude* '62, Concordia College; M.A. '64, Ph.D. '68, University of Nebraska. Field of Concentration: Public Affairs. Major Adviser: Prof. J. E. Brandl.

Terry Thomas Trooien, St. Paul

B.S. '70, University of Minnesota. Major: Speech Science, Pathology, and Audiology. Minor: Psychology. Thesis: Intelligibility of Alternated Speech. Major Adviser: Prof. C. E. Speaks.

Robert Wayne Vockrodt, Osseo

B.A. '68, University of Minnesota. Major: Geography. Minor: Internal. Thesis: The Impact of the Freeway System on Selected Communities: Case Studies in the State of Minnesota. Major Adviser: Prof. R. B. Adams.

Andreas Vollan, Kristiansand, Norway

Siviløkonom '68, Norwegian School of Economics and Business Administration. Field of Concentration: Educational Administration. Major Adviser: Prof. D. A. Morgan.

Robert Dwaine Von Haden,
Wrightstown, Wis.

B.S. '51, Wisconsin State University, River Falls. Field of Concentration: Agricultural Education. Major Adviser: Prof. G. I. Swanson.

Mary Leona Weisensel, New
Brighton

B.E. '67, Wisconsin State University, White-
water. Field of Concentration: Business Edu-
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Linda Louise Weisser, St. Paul

B.A. '70, University of Minnesota. Field of
Concentration: Library Science. Major Adviser:
Prof. H. C. McClaskey.

Virginia Mattern Wigginton,
Minneapolis

B.S. '66, University of Tennessee. Major:
Speech Science, Pathology, and Audiology.
Minor: Child Psychology. Thesis: Masking
Speech by Speech. Major Co-Advisers: Profs.
E. H. Henrikson and C. E. Speaks.

Eugene Russell Williams, Jr.,
West St. Paul

B.A. '60, Macalester College; M.S. '65, George
Williams College. Field of Concentration: Ed-
ucational Administration. Major Adviser: Prof.
W. R. Cross.

Rita Mangeruga Wray, Minneapolis

B.S. '54, University of Pennsylvania. Field of
Concentration: Psychology. Major Adviser:
Prof. J. G. Darley.

Mona Yazdi, Tehran, Iran

B.A. '68, Mills College. Major: Speech-Com-
munication. Minor: Business Administration.
Thesis: The Production of a Series of 10 T.V.
Programs on the Problems of Foreign Students
in the United States for Broadcast on Educa-
tional Television. Major Adviser: Prof. L. D.
Bart.

Master of Business Administration

Gregory Jon Brodin, Olympia, Wash.

B.A. *magna cum laude* '69, Seattle Pacific Col-
lege. Field of Concentration: Business Admin-
istration. Major Adviser: Prof. D. V. Harper.

Harold Henry Burrows, Minneapolis

B.S. '64, Iowa State University. Field of Con-
centration: Business Administration. Major Ad-
viser: Prof. D. V. Harper.

John Anderson Francis, St. Paul

B.S. '67, University of Colorado. Field of Con-
centration: Business Administration. Major Ad-
viser: Prof. D. V. Harper.

Morrison Monroe Gillet, New
Brighton

B.S.M.E. '48, M.S.M.E. '53, University of
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Harper.

Chin Tong Goh, Penang, Malaysia
B.A. *cum laude* '70, Luther College. Field of Concentration: Business Administration. Major Adviser: Prof. John Neter.

Dennis Francis Hanley, Robbinsdale
B.A. '65, St. John's University. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Wang-Chun Lai, Hong Kong
B.Com. with second class honours '70, Chinese University of Hong Kong. Field of Concentration: Business Administration. Major Adviser: Prof. E. H. Lewis.

Thomas Scott Larson, St. Paul
B.M.E. with distinction '70, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. F. J. Beier.

James Melvin Reineke, Faribault
B.S. '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

James William Rustad, Minneapolis
B.Ch.E. '64, J.D. '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Master of Fine Arts

Barbara Jean Adamski, Westchester, Ill.
B.A. '67, University of Illinois. Field of Concentration: Theatre Arts. Major Adviser: Prof. K. L. Graham.

Paul Coccoanto, Keewatin
B.S. '60, University of Minnesota, Duluth. Field of Concentration: Music. Major Adviser: Prof. R. E. Sieber.

Leonard Phillip Danek, St. Paul
B.F.A. *magna cum laude* '70, University of Minnesota. Field of Concentration: Music. Major Adviser: Prof. H. R. Fleischer.

Joanne Christine Jackson Johnson, Winnipeg, Manitoba, Canada
B.S. '65, University of Manitoba. Field of Concentration: Studio Arts. Major Adviser: Prof. Allen Downs.

Nitza Kats, Haifa, Israel
Dipl. '62, Rubin Academy of Music. Field of Concentration: Music. Major Adviser: Prof. B. D. Weiser.

Bernice Helen Morris, Minneapolis
B.S.Ed. '68, University of Nevada. Field of Concentration: Theatre Arts. Major Adviser: Prof. R. D. Moulton.

Master of Social Work

Hans G. Eriksson, Sauk Centre
B.A. '68, Wilmington College. Field of Concentration: Social Work. Major Adviser: Prof. Clyde Hudson.

Michael Jon Fischer, Willmar
B.A. '69, Hamline University. Field of Concentration: Social Work. Major Adviser: Prof. A. W. Oren.

Master of Science

Karl John Aufderheide, Minneapolis
B.S. *summa cum laude* '70, University of Minnesota. Field of Concentration: Biology. Major Adviser: Prof. R. G. Johnson.

Arve Borger Berntzen, Oslo, Norway
Exam. Oecon '70, University of Oslo. Field of Concentration: Business Administration. Major Adviser: Prof. R. B. Upson.

James Lyle Brown, St. Paul
B.S. '67, University of Minnesota. Major: Soil Science. Minor: Ecology. Thesis: Some Physical Properties of Organic Soil Materials. Major Adviser: Prof. R. S. Farnham.

Mei-Suey Fung Chen, Taipei, Taiwan
B.M. '68, National Taiwan University. Major: Biochemistry. Minor: Pharmacology. Thesis: Calcium Binding Studies of Rabbit Liver Mitochondria. Major Adviser: Prof. C. W. Carr.

Aloysius Chu, St. Paul
B.S. '58, University of Santo Tomas. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. W. D. Munro.

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B.S. *cum laude* '66, St. Olaf College. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

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B.S. *cum laude* '65, Gustavus Adolphus College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

James Norman Gilbertson, Fergus Falls

B.S.B. '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. G. Berryman.

Donald Paul Henczel, Southfield, Mich.

B.S. '70, University of Michigan. Field of Concentration: Physics. Major Adviser: Prof. W. H. Johnson.

Earl Leslie Hoffman, Baltimore, Md.

B.A. '69, Johns Hopkins University. Field of Concentration: Mathematics. Major Adviser: Prof. Willard Miller, Jr.

Julie Anne Houg, Richfield

B.S. '70, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Antagonist Induced Folic Acid Deficiency in the Pregnant Rat. Major Adviser: Prof. L. M. Morse.

Dana Bruce Kamerud, St. Paul

B.A. with highest honor '69, Hamline University. Field of Concentration: Mathematics. Major Adviser: Prof. W. E. Pruitt.

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B.S.E. '61, Panjab University. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. W. D. Munro.

Ya-Hsiung Lin, Tainan, Taiwan

B.S. '66, National Taiwan Normal University. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. W. D. Munro.

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B.S.E. '70, Panjab University. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. R. Y. Kain.

David Joseph Miller, Golden Valley

B.Math. with high distinction '68, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. Walter Littman.

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B.A. '71, St. Mary's College. Field of Concentration: Environmental Health. Major Adviser: Prof. V. W. Greene.

Ashish Kumar Mukerji, New Delhi, India

B.S. '61, Agra University; M.S. '67, University of Minnesota. Major: Computer and Information Sciences. Minor: Industrial Engineering. Thesis: Generating Recurrence Relations Sums with Parameters by Computers. Major Adviser: Prof. K. S. Frankowski.

Leo Everett Myers, Minneapolis

B.E.E. '68, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

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B.S. '51, University of California at Los Angeles. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Ock Jin Park, Seoul, Korea

B.S. '70, Seoul National University. Major: Nutrition. Minor: Biochemistry. Thesis: Effects of Amino Acids on Ribosomal Aggregation in Rat Liver. Major Adviser: Prof. P. I. Swan.

Richard Allen Peik, Minneapolis

B.A. *cum laude* '68, St. Olaf College. Field of Concentration: Mathematics. Major Adviser: Prof. Jay Goldman.

Francis Joseph Reardon, Rochester

B.S. '63, Canisius College. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. W. D. Munro.

Barbara Ann Goff Rexilius, Woodruff, Wis.

B.S. '63, Chico State College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Juhani Rouhiainen, Helsinki, Finland

Agron. '68, University of Helsinki. Major: Agricultural Economics. Minor: Economics. Thesis: Aggregate Crop Production Functions in Finnish Agriculture in 1956/57-1968/69. Major Adviser: Prof. W. L. Peterson.

Ronald Leslie Schaefer, Westbury, N.Y.

B.S. '69, Delaware Valley College. Major: Horticulture. Minor: Biometry. Thesis: A Study of the Effects of Mist Irrigation on the Potato (*Solanum Tuberosum* L.) and the Snap Bean (*Phaseolus Vulgaris* L.). Major Adviser: Prof. R. E. Nylund.

Wayne John Schmidt, Minneapolis

B.S. '69, Stephen F. Austin State University. Field of Concentration: Mathematics. Major Adviser: Prof. L. R. Harper.

Maureen Judith Schoon, Redwood Falls

B.S.N. with high distinction '67, University of Minnesota. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Patricia Caroline Swain, Darien, Conn.

B.S. '70, Tufts University. Major: Ecology. Minor: Botany. Thesis: An Analysis of Selected Stands of *Quercus borealis* and *Q. ellipsoidalis* in Minnesota. Major Adviser: Prof. E. J. Cushing.

James Joseph Wavrunek, New Holstein, Wis.

B.S. '59, Wisconsin State University, Stevens Point. Field of Concentration: Zoology. Major Adviser: Prof. D. E. Gilbertson.

Carol Elizabeth Windels, Long Prairie

B.A. '70, St. Cloud State College. Major: Plant Pathology. Minor: Microbiology. Thesis: Populations of *Fusarium* Species in Natural and Agricultural Soils. Major Adviser: Prof. Thor Kommedahl.

Kyu Whan Woo, Poonggi, Korea

B.S. '64, M.S. '68, Seoul National University. Major: Organic Chemistry. Minor: Physical Chemistry. Thesis: A Study on Azetidine-2-Carboxylic Acid: Synthesis and Biosynthesis. Major Adviser: Prof. Edward Leete.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

James August Kilburg, Pittsburgh, Pa.

B.S. '70, University of Pittsburgh. Major: Geology. Minor: Chemistry. Thesis: Petrology, Structure, and Correlation of the Upper Precambrian Ely's Peak Basalts. Major Adviser: Prof. J. C. Green.

Allen Francis Mattis, Stone Lake, Wis.

B.S. '69, Wisconsin State University, Superior. Major: Geology. Minor: Geography. Thesis: The Petrology and Sedimentation of the Basal Keweenaw Sandstones of the North and South Shores of Lake Superior. Major Adviser: Prof. R. W. Marsden.

Master of Science in Aerospace Engineering

Kwonshik Kim, Kumsan, Korea

B.S. '65, Seoul National University. Field of Concentration: Aerospace Engineering. Major Adviser: Prof. G. S. Beavers.

Master of Science in Chemical Engineering

Alfredo Luis Gordon, Chile

C.E. '69, University of Concepción. Major: Chemical Engineering. Minor: Mathematics. Thesis: A Simulation Study of Flashing Light Effect in Algae Synthesis. Major Adviser: Prof. A. G. Frederickson.

Peter Bly Schmalz, Edina

B.S. with high distinction '69, Valparaiso University. Major: Chemical Engineering. Minor: Control Sciences. Thesis: Characteristics of Creeping Temperature Profiles in a Catalytic Fixed Bed Reactor. Major Adviser: Prof. N. R. Amundson.

Master of Science in Civil Engineering

Robert Odell Anderson, Montevideo
B.S. '69, University of Minnesota. Major: Civil Engineering. Minor: Business Administration. Thesis: Asphalt Properties Related to Flexible Pavement Performance. Major Adviser: Prof. E. L. Skok, Jr.

Philip Oren Martinson, Alexandria
B.C.E. '72, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. P. P. Christiano.

Wing Ho, China

B.C.E. with high distinction '71, University of Minnesota. Field of Concentration: Civil Engineering. Major Adviser: Prof. P. P. Christiano.

Master of Science in Dentistry

William Henry Kuhlmann,
Minneapolis

B.A. '66, D.D.S. '70, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: The Effect of Crown Design upon Fracture Resistance of Porcelain Bonded to Metal Restorations. Major Adviser: Prof. R. J. Goodkind.

Master of Science in Electrical Engineering

Robert Allen Hanner, St. Paul

B.E.E. with distinction '70, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. B. A. Sheno.

Duane Roy Oelschlaeger, Edina

B.S.E.E. '55, Valparaiso University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. E. B. Lee.

Paul James Henrikson, Westhope,
N.D.

B.A. '65, B.S. *cum laude* '67, Harvard University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Practical Planar Estimation with Applications to Geodesy. Major Adviser: Prof. K. S. Kumar.

Jay Allyn Zwagerman, Zeeland, Mich.

B.S. '65, Calvin College; B.S.E. '67, University of Michigan. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. M. Waltz.

Darrell James Horn, Brainerd

B.E.E. '69, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. H. Park, Jr.

Master of Science in Geo-Engineering

Michael Dennis Voegele, Faribault

B.Geo.E. '71, University of Minnesota. Field of Concentration: Geo-Engineering. Major Adviser: Prof. S. L. Crouch.

Master of Science in Industrial Engineering

Pieter Lawrence van der Mersch,
Greer, Mexico

B.S.M.E. and E.E. '69, Monterrey Institute of Technology. Field of Concentration: Industrial Engineering. Major Adviser: Prof. J. S. White.

Master of Science in Mechanical Engineering

Harbhajan Singh Purhar, Delhi, India

B.E. '66, Birla Institute of Technology and Science. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. T. E. Murphy.

Carl Andrew Sannes, Jr., Little Marais

B.M.E. '70, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. Katsuhiko Ogata.

Master of Science in Mineral Resources Engineering

Kunsoo Kim, Seoul, Korea

B.S. '67, Seoul National University. Major: Mineral Resources Engineering. Minor: Mathematics. Thesis: The Mechanics of Bit Penetration into the Brittle Material. Major Adviser: Prof. C. M. Nelson.

Master of Science in Psychiatry

John Thomas Kelly, Minneapolis

M.D. '56, University of Minnesota. Major: Psychiatry. Minor: Pharmacology. Thesis: A Double-Blind Comparison of Amantadine Hydrochloride and Benztropine Mesylate in the Treatment of Drug-Induced Extrapyramidal Symptoms. Major Adviser: Prof. B. C. Schiele.

Certificate of Specialist in Education

Edward Charles Bolstad, Minneapolis

B.S. '59, M.A. '69, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. V. D. Mueller.

Richard Lee Kormanik, Minneapolis

B.S. '64, Macalester College; M.A. '69, University of Minnesota. Field: Business Education. Major Adviser: Prof. C. R. Hopkins.

Walter Emmett Bromenschenkel,
St. Cloud

B.S. '64, St. Cloud State College; M.A. '67, College of St. Thomas. Field: Secondary School Administration. Major Adviser: Prof. N. C. Nickerson.

COLLEGE OF AGRICULTURE

Bachelor of Science

Opong-Bediako, Kumasi, Ghana
Stuart Nado Bernard, Spring Valley
James Gothard Berquam, Roseville
Fred Eugene Carlson, Crystal

James Lechmere Price, Minneapolis,
with high distinction
Jeffrey Lynn Wiles, B.B.A., St.
Charles, Mo.

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

George Martin Boody, Cambridge,
cum laude, Biology

Robert Anthony Cuthbertson, Mt.
Clemens, Mich., *summa cum laude,*
Biology

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Larry Walter Arneberg, New Brighton
Robert John Birk, St. Paul
Mary Louise Bochnak, Minneapolis,
with high distinction
Malcolm Bruce Borgendale,
Minneapolis
Thomas Allen Bunker, Richfield
Daniel Robert Cartier, A.A., White
Bear Lake
Gary John Dzubak, Minneapolis
William Joseph Finley, Richfield
Thomas Z. Green, Minneapolis
Din Dayal Gupta, India
Floyd Michael Hale, St. Paul
Fred Ralph Hesley, Jr., St. Paul
Andrew Jaszczak, St. Paul
Steven Douglas Johnson, Minneapolis
Alan Luther Jones, St. Paul
Randall Craig Kaminsky, St. Paul

Jimmy Luitlen Kong, St. Paul
Ronald Lee Low, Minneapolis
David Stephen Marrinson, St. Paul,
with distinction
Julia Marie McGoldrick, Minneapolis,
with distinction
James D. Morrow, Hopkins
Robert Lewis Reimer, Minneapolis
Douglas Allen Severson, Braham
Ronald Jerome Shepherd, Minneapolis
Dean L. Sundberg, International Falls
Kenneth LeRoy Swanson,
Minneapolis
Gerald James Urban, A.A., White
Bear Lake
Richard Allen Whiting, A.A.,
Minnertonka
Mark Alfred Willette, Minneapolis
Warren Teele Witt, Jr., Minneapolis

SCHOOL OF DENTISTRY

Doctor of Dental Surgery

Francis John Paron, B.S., Shakopee

COLLEGE OF EDUCATION

Bachelor of Science

- Lynn Marshall Barnes, St. Louis Park,
with distinction
Nancy Harding Betterman,
Minneapolis
Randall Joe Boyle, Inver Grove
Heights
Barbara Pauline Boysen, St. Paul,
with distinction
Susan Kay Bunker, Minneapolis
Marea Kangas Bushnell, Maple Plain
Deborah Ann Ingham Charpentier,
St. Paul, with distinction
Kaye Arlies Christianson, Blomkest
Albert R. Davey, A.A., St. Paul
Gregory Paul Dawson, Morton
Vincent George Eckstein, Richfield
Steven Matthew Egyhazi, St. Paul,
with distinction
Joseph Eugene Elliott, Minneapolis,
with distinction
Ellen Tendick Engquist, A.A.,
Wayzata, with high distinction
James Richard Faragher, B.A., St.
Paul, with high distinction
Michael Richard Gall, A.A., St. Paul,
with distinction
Barbara Jo Gilleland, St. Paul
Brian Theodore Gilson, Cloquet
Ellen Patricia Jordano Guy,
Minneapolis
Nancy Elizabeth Hallin, Minneapolis
David Alan Hartley, B.A.,
Minneapolis
Betty Lynne Benson Hedstrand,
Minneapolis
Gerald Lee Hegna, Minneapolis,
with high distinction
Walter James Hobot, Minneapolis,
with high distinction
Jane Frances Kalal, A.L.A.,
Minneapolis, with distinction
Susan Lucinda Kallman, Minneapolis,
with distinction
Debra Rae Katz, Minneapolis, with
high distinction
Ralph Eric Knapp, Waterbury, Conn.,
with distinction
Vicki Lynn Kottke, Minneapolis
Rosemary B. Larson, A.A.,
Minneapolis
Mary Ann Leukuma, B.A., Excelsior
Barbara Mae Liszt, St. Louis Park,
with high distinction
Rhonda LaRae Martin, Blue Earth
John Joseph McDermott, St. Paul,
with distinction
Mary Isabel Minell, Minneapolis
Rodney Bryce Morris, Burnsville,
with distinction
Marianne Mueller, Mankato
Steven Bruce Nyquist, Milaca,
with distinction
Patricia Ann O'Connell, Minneapolis,
with distinction
Jamey Lynn Olson, Osseo
Patricia Mary Olson, Stillwater, with
distinction
Debra Ann Patrick, South St. Paul
Judith Ann Reese, Bloomington,
with distinction
John Albin Rehnberg, Minneapolis,
with distinction
George Retounotes, Fridley
Bonnie Jean Anderson Rosenfield,
Marble, with distinction
Jeanne Marie Roth, A.A., Mound,
with distinction
Carol Susan Schmidt, Robbinsdale,
with distinction
Terrilyn Faye Pollish Schultz, Mound,
with high distinction
Stanley David Shelton, Bloomington
Gladys Anne Steffenson, St. Paul,
with high distinction
James Ray Swanson, Minneapolis,
with high distinction
John Guy Thompson, Minneapolis
Terry George Tofte, B.A., Tofte
Gerald Otto Utz, Springfield
Sandra Nancy Weinstein,
Minneapolis
Shari Elizabeth White, Richfield,
with distinction
Pamela Marie Zimba, Minneapolis,
with distinction

Master of Education

Larry James Day, Mendota Heights
David Wayne Gehrke, B.A., St. Paul

Marvin Alonza Todd, B.A.,
Birmingham, Ala.

GENERAL COLLEGE

Associate in Arts

Stanley Norman Abrahamson,
Browerville
Mark Atkins Anderson, St. Paul
Roger Lawrence Johnson, Minneapolis
Eugene Harry Kalscheuer, Osseo
Samuel Lee King, Oakland, Calif.
Evangeline Kirschenmann Lang,
Napoleon, N.D.

Elaine Marie Perra, Waverly
Lonnie Perry, Jr., Minneapolis
Carol-Anne Skolte, Minneapolis
Richard Eugene Stolarik, Edina
Betty Kristine Wilcox, Albert Lea
Larry Garwood Zimpfer, Bloomington

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Rose Mary Allen, *Excelsior, with
distinction*
Debra Jean Anderson, A.A.,
Minneapolis
Sandra Donna Anderson, *Excelsior,
with distinction*
Barbara Jane Dixon, Minneapolis
Elaine Marie Kunnari, Minneapolis

Susan Jeanne Lang, Minneapolis
Deborah Jean Myers, Minneapolis
Anne Elizabeth O'Brien, St. Paul
Ruth Anne Olson, St. Paul
Mary Joanne Pratt, Fridley
Patricia Ann Schott, *Minneapolis,
with distinction*
Lynn Marie Wallin, Minneapolis

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Bachelor of Science

Marietta Lynne Dragseth, Edina
Audrey Nelson M. Harper, Coon
Rapids
Carolyn Grace Kreuzer, St. Paul

Ellen Ruth Lohmann, Zumbrota
Donna Reed MacKenzie, White
Bear Lake
Frances Ann Person, Lakeville

LAW SCHOOL

Juris Doctor

Thomas Andrew Micheletti, B.A.,
Hibbing

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Robert Woodrow Adams, Maplewood
Michael Terence Ahrens, Minneapolis
William Steven Goldman,
Minneapolis
N. Diane Larson, Mound

Kay Elizabeth Malm, Benson
Marcia Ann Moen, Owatonna
Thomas Patrick Ryan, Harris
Margaret Barbara Weinhandl, St. Paul

Bachelor of Arts

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

Carol Edith Anderson, Crookston
James Hall Anderson, Minneapolis
Nancy Gladys Anderson, Rochester
Steven William Anderson,
Minneapolis

Craig Robert Bannon, Hopkins
Harvey John Beckermann, Melrose
Nancy Faye Berman, Duluth
Barbara Jane Bernstein, Minneapolis
Rosanne Betley, Columbia Heights
Barbara Jean Boyer, St. Paul
John Michael Bradley, Minneapolis
David George Braun, Inver Grove
Heights

Christopher Guy Bremicker, St. Paul
Marilyn Diane Bugonian, Rochester
Casey John Christian, Northfield
Elizabeth Ann Coleman, Edina
Thomas Clement Connoy,
Minneapolis

Marc Cooper, New York, N.Y.
Don Michael Coulter, Minneapolis
Eric Lee Crawford, Minneapolis
Colleen Anne Curran, St. Paul
Joan Kathleen Daly, Fairmont
Thomas Louis Dancik, A.A.,
Minneapolis

Diana Lea Daniels, A.A., St. Paul
Richard Nicholas DeLiberty, Gary,
Ind.

Suzanne Lee Dennison, Cadott, Wis.
Lynne Marie deWahl, Minneapolis,
magna cum laude, English
Keith Alan Dixon, Minneapolis
Betsy Ann Dolmar, B.S., Richfield,
magna cum laude, Spanish

James Patrick Donch, St. Paul
Betty Jean Draeger, St. Paul
Mary Ann Duncan, Portland, Ore.,
summa cum laude, Anthropology

David Allen Duryee, Minnetonka
John Andrew Een, Mankato
Judith Ann Erickson, Duluth
Marcy Lu Erickson, St. Paul
Sara R. Etzkin, Wausau, Wis.
Barbara Ann Fischer, A.A.,
Minneapolis

Cynthia Gail Fischer, St. Paul,
magna cum laude, Italian
Margarita Gangotena G., Quito,
Ecuador

John Martin Garrity, Jr., St. Paul
Richard Alan Genadek, St. Louis Park
Deborah Mae Gensmer, Bloomington
Jeffrey D. Gordon, Minneapolis
Jane Marie Graf, Minneapolis
Scott Marshall Greenplat, St. Paul
Edward George Hames III, St. Paul
Donna Sue Hanson, St. Paul
Linda Grotte Harris, Minneapolis
Ervin A. Hegge, East Grand Forks
Ronald John Hodge, Rochester
Sharman Lou Holbert, Onamia
Ann Kathleen Hughes, Minneapolis
Peter Cameron Hunt, Westport,
Conn.

Craig Donald Innes, Minneapolis
Ronald James Jelinek, St. Paul
Darryl Maynard Johnson, Hopkins
James Arnold Johnson, Mora
Mark Elden Johnson, Minneapolis
Sandra Jean Johnson, Scandia

Michael Nile Joseph, A.A., Edina
 Paul Edward Joyce, St. Paul
 Kathleen Renee Judkins, Duluth
 Gregory John Kaslow, Minneapolis
 Elizabeth Marie King, Minneapolis
 Holly Gray Schuck Knezevich,
 Minneapolis
 Mary Kaye Krasselt, A.A., Minneapolis
 Gary Steven Krepis, A.A., Hamel
 Phyllis Eileen Kurzweg, West St. Paul
 Caroline Fei-Yeng Kwok, Hong Kong,
summa cum laude, English
 Stephanie Claire Langhans, St. Paul
 Frances Edell Hiffernan Larson, St.
 Paul
 Irene Ruth Larson, Wheaton
 Robert John Larson, A.A., St. Paul
 Linda Lou Leiter, Delano
 Michelle Louise Levin, Highland
 Park, Ill.
 Steven G. Levin, St. Paul
 David Levy, Minneapolis
 Sandra Lee Lifson, Minneapolis
 Carol Anne Lindahl, Minneapolis
 James Frank Lord, Excelsior*
 Anne Penelope Louricas, White
 Bear Lake
 Michael Clifford Lundberg, Lakeland
 Wendy Joyce Lyon* Edina
 Teresa Ann Maiola, Prescott, Wis.
 Dee Ann Mann, Minneapolis
 Michael Don Markman, Faribault,
magna cum laude, Economics
 Melissa Ann Marks, Minneapolis
 Gary Leon Martini, St. Louis Park
 Donald Eugene McAlpine, Jr.,
 Princeton, magna cum laude,
 Psychology
 Justin Huntley McCarthy, Richfield
 Robert Michael McDonald, A.A., St.
 Paul
 James William McGinn, Minneapolis
 Robert John McGinty, St. Louis Park
 Kathleen Margaret McNaughton,
 St. Paul
 Mary Louise Mealey, Minneapolis
 Paul William Melius, St. Paul
 Scott David Meyer, New Hope
 Susan Marie Mickelson, Minneapolis
 Joseph George Miller, South St. Paul

Barbara Jean Moore, Marshall
 Daniel Joseph Moore III, Rochester
 Horace Munoz, Jr., St. Paul
 Bryan L. Natch, Winnipeg,
 Manitoba, Canada
 Stephanie Lynn Nelson, St. Paul
 Wenda Louise Nelson, Atwater
 John Karl Newstrand, St. Paul
 Larry Allan Nitz, Hopkins
 Robert Alan Novak, Jr., A.A.,
 Minneapolis
 Warren A. Oskey, B.S.B., Red Wing
 Nancy Jane Palmer, Minneapolis
 Mark Frederick Parsons, Delano
 Peter Ray Paulsen, Minneapolis
 Lynn Lucille Peter, Minneapolis
 Michael K. Peterson, Minneapolis
 Christopher John Polster, St. Paul
 Janice Ruth Quick, St. Paul
 Carol Jean Quist, St. Paul
 Stephen Paul Rinnac, Bloomington
 James Willard Roepke, St. Paul
 Marjorie A. Rokala, Dassel
 Charles Paul Rose, Minneapolis
 Timothy James Roth, Minneapolis
 Barbara Jean Rydeen, St. Paul
 Patricia Sue Rysdam, Stanchfield
 Thomas Kenneth Saari, Edina
 Pamela Rae Santerre, Minneapolis
 Patricia Ann Sausser, Minneapolis
 Hugh Patrick Schmidt, Minneapolis
 Michael Thomas Schreiber, Albert.
 Lea
 Gregory George Schweda, St. Paul,
magna cum laude, Psychology
 Barbara Ann Schwinn, Minneapolis
 Stephen Kristopher Seidl,
 Minneapolis
 James Kenneth Severud, Minneapolis
 Marsha Renee Simon, St. Cloud
 Melinda Frances Smith, Minneapolis
 Henry Langum Spiller, Jr.,
 Minneapolis
 Joyce Gail Stanaway, Eveleth
 Maris Stolcers, A.A., Minneapolis
 Timothy Joseph Sullivan, Minneapolis
 David Supornick, St. Paul
 JoAnn Borer Svensson, Golden Valley
 Donna Louise Swanson, Edina

* Degree conferred as of June 15, 1972

Mary Joan Thompson, Minneapolis,
magna cum laude, American Studies
Steve Yuanchung Tsai, Minnetonka,
summa cum laude, Arts and
Medicine
Linda Marie Utech, St. Paul
James Gerrit Vander Linden,
Minneapolis
John Franklin Wagner, St. Anthony
Village
Kenneth Orville Wagner, Owatonna
Raymond Oral Walz, Sebeka
Donald Peter Watzl, A.A.,
Minneapolis
Halbert Franz Wenngatz,
Minneapolis, magna cum laude,
Arts and Medicine

Cynthia Linnea Werner, A.A.,
Minneapolis
Virginia Ann Wiles, St. Paul
Sybil Louise Williams, Kershaw, S.C.
Rockney Virgil Wittkop, White Bear
Lake
Carla Jean Wood, Cottage Grove
Whitney Woodruff, Jr., Eveleth
Michael Raymond Worts,
Minneapolis
Carol Ilene Youngner, St. Paul
Richard Stanley Zender, Minneapolis
Michael Reed Zimmerman,
Minneapolis, summa cum laude,
Humanities

Bachelor of Elected Studies

David Alan Balto, St. Louis Park
Frank Jerome Mazurkiewicz, St. Paul

Robert Keith Nelson, Minneapolis

Bachelor of Fine Arts

Michael Skerik Damron, Minneapolis
Duane Lee Everett, A.A., Minneapolis
Robyn Elyse Goldstein, Skokie, Ill.
Marian Joyce McColgin, B.S.,
Barnesville, summa cum laude,
Studio Arts

Jerome Allen Ohnstad, A.A.,
Minneapolis, summa cum laude,
Studio Arts
Barbara Rae Schaefer, Duluth, magna
cum laude, Studio Arts

MEDICAL SCHOOL

MORTUARY SCIENCE

Bachelor of Science

Bennie L. Smith, A.A., Bainbridge,
Ga.

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Charles Joseph Kniebel, Bloomington

Bachelor of Chemical Engineering

Emil Joseph Lorenz, Minneapolis

Peter Skujins, Minneapolis

Bachelor of Civil Engineering

Craig Steven Brandt, Roseau

Bachelor of Electrical Engineering

Willis Lee Amitage, Mound

James Chin-Wah Fung, Hong Kong,
with high distinction

Kwok-Leung Paul Fung, Hong Kong,
with distinction

Ronald Kenneth Larson, Minneapolis,
with high distinction

Keith Gerald Setterstrom, Little Falls

Terrence Charles Silverberg,
Minneapolis

William Karl Tuynman, Minneapolis

Bachelor of Environmental Design

Kenneth Bing Mah, Calgary, Alberta,
Canada

Bachelor of Geo-Engineering

Manousos Paul Katsoulis, Athens,
Greece, *with distinction*

Michael Gregory Pojar, St. Paul,
with distinction

Bachelor of Mathematics

Larry James Day, Mendota Heights
George Richard King, Minneapolis

Bahram Nabavian, Tehran, Iran

Bachelor of Mechanical Engineering

Michael George Cassady, Paynesville,
with high distinction

David Henry Dalquist, Edina

Wayne John Meyer, Brainerd

Richard Edward Soenen, Marshall

Gary Lynn Tosel, Richfield

Walter Raymond Wagner, Brandon,
with distinction

Bachelor of Physics

Daniel M. Thompson, Maple Plain

Bachelor of Science in Geology

Daniel John Ferron, White Bear Lake

UNIVERSITY COLLEGE

Bachelor of Arts

Joanne Arlene Murphy, Excelsior

Prudence Sheppard Neal, Minneapolis,
with distinction

Bachelor of Science

Patrick Dennis Connolly, A.A.,
Minneapolis

Lillie Evangeline Englin, A.A.,
Butterfield

Gary Allen Erickson, St. Paul

Dana Gordon Gardner, Lanesboro

William Andrew Micklus,
Minneapolis

Mark Joseph Saba, A.A., Fridley

Thomas Henry Silberg, Minneapolis

Berlene W. Turner, A.A.,

Minneapolis

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 AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

John W. Moore, Jr., Minneapolis

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Adjutant General Corps

Gary L. Martini, Minneapolis

Second Lieutenant, Air Defense Artillery

Randall J. Boyle, Inver Grove Heights

Second Lieutenant, Infantry

John N. Helin, Minneapolis

Second Lieutenant, Ordnance Corps

James D. Morrow, Roseville

Second Lieutenant, Transportation Corps

Craig S. Brandt, Roseau

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Thomas A. Bunker, Richfield
Terrence C. Silverberg, Minneapolis

Dale O. Snodgrass, Lake
Ronkonkoma, N.Y.

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

Thomas Joseph Maney, Rhinelander, Wis.

B.S. '62, M.S. '65, Stout State University. Major: Vocational Education. Minor: Supporting Program. Thesis: The Feasibility of Implementing a Basic Planning, Programming and Budgeting System Within the Technologies and Pre-engineering and Business Instructional Areas for Nicolet College and Technical Institute, Wisconsin's Pilot "Dual Track Institution." Major Adviser: Prof. W. A. Kavanaugh.

Robert Stafford Reed, Silver Lake

B.S. '58, University of Minnesota; M.A. '63, State College of Iowa. Major: Educational Administration. Minor: Supporting Program. Thesis: Relationships between Staff Satisfaction and Selected Personal and School District Characteristics. Major Adviser: Prof. V. D. Mueller.

Thomas Ronald Sunnarborg, Bemidji

B.S. '62, University of Minnesota, Duluth; M.S. '68, Stout State University. Major: Vocational Education. Minor: Supporting Program. Thesis: The Feasibility of Implementing a Career Education Program Within the Division of Business and Industry at Bemidji State College. Major Adviser: Prof. W. A. Kavanaugh.

Doctor of Philosophy

Carolyn Johnson Allen, Spokane, Wash.

B.S. '65, University of Washington; M.A. '66, Claremont Graduate School. Major: English. Minor: Supporting Program. Thesis: The Poetic Personae of Robert Lowell. Major Adviser: Prof. G. T. Wright.

David Christian Anderson, Mankato

B.A. '61, M.A. '67, University of Minnesota. Major: Art History. Minor: Supporting Program. Thesis: Architecture as a Means for Social Change in Germany, 1918-1933. Major Adviser: Prof. D. T. Tselos.

Verlyn Dean Anderson, Moorhead

B.A. '56, Concordia College, Moorhead; M.A. '62, M.A. '65, University of Minnesota. Major: American Studies. Thesis: The History and Acculturation of the English Language Hymnals of the Norwegian-American Lutheran Churches, 1879-1958. Major Co-Advisers: Profs. M. C. Turpie and Johannes Riedel.

George Claude Baxter, Saskatoon, Saskatchewan, Canada

B.Com. '59, University of Saskatchewan; M.B.A. '66, University of California, Berkeley. Major: Business Administration. Minor: Supporting Program. Thesis: Accounting Income: An Ex Ante or an Ex Post Factor in the Managerial Decision Process. Major Adviser: Prof. Jack Gray.

Robert Alexander Bays, Jr., Binghamton, N.Y.

B.A. '66, Pennsylvania State University; M.A. '68, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: Modern German Drama: The Aesthetics of Guilt. Major Adviser: Prof. F. M. Whiting.

Robert William Beery, Rochester

B.S. with high distinction '60, M.A. '64, University of Minnesota. Major: Education. Minor: History. Thesis: The Effects of Two Inquiry Teaching Strategies on the Learning of Sociological Concepts and Generalizations and the Development of Inquiry-Related Skills. Major Adviser: Prof. Edith West.

**Robert Eugene Bieder, Rochester,
N.Y.**

B.A. '65, University of New Mexico; M.A. '65, Indiana University. Major: History. Minor: Anthropology. Thesis: The American Indian and the Development of Anthropological Thought in the United States. Major Co-Advisers: Profs. D. W. Noble and E. A. Hoebel.

**Aldo Luis Biondolillo, Mendoza,
Argentina**

Ing.Ag. '67, National University of Cuyo. Major: Agricultural Economics. Minor: Economics. Thesis: Social Cost of Production Instability in the Grape-Wine Industry: Argentina. Major Adviser: Prof. W. L. Peterson.

Thomas Charles Braun, Minneapolis

B.A. '66, Lawrence University; M.A. '67, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: The Theory of "Aesthetic Distance" and the Practice of "Audience Participation." Major Adviser: Prof. A. H. Ballet.

Richard John Buretta, Minneota

B.S. '63, M.S. '66, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: Thermal Convection in a Fluid Filled Porous Layer with Uniform Internal Heat Sources. Major Adviser: Prof. A. S. Berman.

Richard Smith Caldwell, Austin, Tex.

B.A. '62, St. Mary's College; M.A. '63, University of Wisconsin. Major: Classics. Thesis: The Criticism of Aeschylean Tragedy. Theory and Practice. Major Co-Advisers: Profs. R. J. Schork and R. P. Sonkowsky.

Bruce Larsen Campbell, Provo, Utah

B.S. '66, M.S. '68, Brigham Young University. Major: Sociology. Minor: Supporting Program. Thesis: Some Factors Affecting the Correlation Between Marital Satisfaction and Satisfaction with the Children at the Launching Stage of the Family Life Cycle. Major Adviser: Prof. D. G. McTavish.

James Edward Carter, Minneapolis

B.S. *cum laude* '65, University of Santa Clara; M.S. '68, University of Minnesota. Major: Medical Physics and Cryobiology. Minor: Supporting Program. Thesis: The Effect of Pressure and Cooling Rate on Enzymes, Sperm Cells, Kidney Tissue and the Whole Kidney. Major Co-Advisers: Profs. E. P. Ney and R. C. Lillehei.

**Donald Armand Charpentier, Brook-
lyn, N.Y.**

A.B. '56, Hope College; M.A. '58, Ohio University; Ed.S. '64, George Peabody College. Major: Educational Psychology. Minor: Psychology. Thesis: Social Influence and Intellectual Orientation. Major Adviser: Prof. R. E. Wilk.

**Gerald William Christenson, New
Brighton**

B.A. '53, St. John's University; M.A. '54, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of the Relationship Between Selected Educational Cost Factors and Differences in Adjusted Maintenance Costs in Six Twin Cities Metropolitan Area School Districts. Major Adviser: Prof. V. D. Mueller.

William Edgar Clark, Rochester

B.M.E. '64, M.S. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Physical Chemistry. Thesis: Measurements of Aerosols Produced by the Photochemical Oxidation of SO₂ in Air. Major Adviser: Prof. K. T. Whitby.

Alan Eden Comer, Excelsior

B.A. '66, M.S. '69, University of Minnesota. Major: Botany. Minor: Supporting Program. Thesis: The Role of Cell Division in the Development of Xylem Elements in Cultured Coleus Internodes. Major Adviser: Prof. E. C. Abbe.

Nancy Louise Cook, Minneapolis

B.S. '52, M.A. '61, University of Minnesota. Major: Child Psychology. Minor: Supporting Program. Thesis: Attachment and Object Permanence in Infancy: A Short Term Longitudinal Study. Major Adviser: Prof. J. C. Masters.

John David Crockett, Minneapolis

B.A. '55, Bob Jones University; B.D. '61, Bethel Seminary. Major: Educational Psychology. Minor: Psychology. Thesis: A Factor Analytic Study of the Religious Beliefs Inventory. Major Adviser: Prof. Theda Hagenah.

John Myles Elzey, Ogden, Utah

B.F.A. '56, M.F.A. '63, University of Utah. Major: Theatre Arts. Minor: Supporting Program. Thesis: Professional Legitimate Theatre in Saint Paul, Minnesota, from 1890-1918. Major Adviser: Prof. F. M. Whiting.

Robert Arthur Fakler, Mankato

B.A. '65, Mankato State College; M.S. '67, University of Minnesota. Major: Mathematics. Minor: Statistics. Thesis: On Induced Representations of Locally Compact Groups. Major Adviser: Prof. S. A. Gaal.

Charles William Ficker, Carlinville, Ill.

A.B. '62, MacMurray College; A.M. '64, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: German Liberalism and the Labor Question, 1844-1858. Major Adviser: Prof. O. P. Pflanze.

Sheila Mary Fitzgerald, St. Paul

B.A. '53, Rosary College; M.A. '55, M.A. '70, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Career Development Study of Elementary School Teachers. Major Adviser: Prof. R. T. Lambert.

Karen Jeannine Garvin, Janesville, Wis.

B.A. '61, St. Olaf College; M.A. '64, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: Billy Graham in 1967: A Further Study of Adaptation to Audiences. Major Adviser: Prof. R. L. Scott.

Skjalg Erling Haaland, Oslo, Norway

B.S. with high distinction '65, M.S. '67, University of Minnesota. Major: Fluid Mechanics. Minor: Mathematics. Thesis: Contributions to Linear Stability Theory of Nearly Parallel Flows. Major Adviser: Prof. E. M. Sparrow.

Margaret Anne Hagen, Seattle, Wash.

B.S. '68, University of Washington. Major: Child Psychology. Minor: Supporting Program. Thesis: The Development of the Perception of Size-in-Depth Relations in Pictures. Major Adviser: Prof. H. L. Pick, Jr.

Kernit Lance Hall, Akron, Ohio

B.A. *magna cum laude* '66, University of Akron; M.A. '67, Syracuse University. Major: History. Minor: Supporting Program. Thesis: The Taney Court in the Second Party System: The Nature of Judicial Reform. Major Adviser: Prof. P. L. Murphy.

Banning L. Hanscom, Plymouth

B.A. '52, Macalester College; M.A. '55, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: Selected Characteristics and Attitudes Toward the College Establishment of Freshman Student Senators and of Freshmen in General in Minnesota State Junior Colleges. Major Adviser: Prof. V. D. Mueller.

Claude Duane Hensley, Jefferson City, Mo.

B.S. '61, Southeast Missouri State College; M.A. '64, Northeast Missouri State Teachers College. Major: Educational Psychology. Minor: Educational Administration. Thesis: A Delphi Procedural Analysis of Role Function for the Special Education Supervisor in Diagnostic Clinics Serving Sparsely Populated Regions of Missouri. Major Adviser: Prof. M. C. Reynolds.

John Rowland Higgins, Cambridge, England

B.S. '51, University of London; M.A. '68, University of Minnesota. Major: Mathematics. Minor: Aerospace Engineering. Thesis: On an Interpolation Series Associated with the Bessel-Hankel Transform. Major Adviser: Prof. J. I. Richards.

Marthana Colleen Hjortland, Minneapolis

B.S. '51, North Dakota State University; M.S. '52, Ohio State University; M.S. '69, University of Minnesota. Major: Biometry. Minor: Supporting Program. Thesis: The Effects of Heredity and Environment on Nutrient Intake of Adult Monozygotic and Dizygotic Twins. Major Adviser: Prof. G. E. Bartsch.

Rex Dean Honey, National City, Calif.

B.A. with honors '67, University of California; M.A. '69, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: Conflicting Problems in the Political Organization of Space: The London Experience. Major Adviser: Prof. J. W. Webb.

David Michael Hopstock, Emmaus, Pa.

B.S. with distinction '66, Stanford University; M.S. '68, University of Minnesota. Major: Metallurgical Engineering. Minor: Physics. Thesis: An Analysis of a Rotating-drum-type Electrostatic Separator. Major Adviser: Prof. J. E. Lawver.

Donald Roy Houge, St. Paul

B.S. '63, University of Minnesota; M.A. '65, College of St. Thomas. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Computer Assisted Prediction Technique for the Prediction of Academic Success in College. Major Adviser: Prof. D. G. MacEachern.

Hamilton Clyde Hudson, New Westminster, British Columbia, Canada

B.A. '64, University of British Columbia; M.S.W. '67, University of Minnesota. Major: Social Work. Minor: Sociology. Thesis: An Experimental Study of the Effects of Differential Exposure to Parole Supervision of a Group of Male and Female Juvenile Parolees. Major Adviser: Prof. P. W. Chommie.

Bor-ming Jahn, Miao Li, Taiwan

B.S. '63, National Taiwan University; M.S. '67, Brown University. Major: Geology. Minor: Supporting Program. Thesis: SR Isotope and Some Trace Element Studies in the Lower Precambrian Rocks from the Vermilion District, N.E. Minnesota. Major Adviser: Prof. V. R. Murthy.

James Harding Johnson, Green Bay, Wis.

B.A. '63, University of Washington. Major: Psychology. Minor: Supporting Program. Thesis: Very Long Term Memory and Personality. Major Adviser: Prof. Auke Tellegen.

Lois Powell Johnson, Fort Wayne, Ind.

B.S. '56, M.S. '62, Indiana University. Major: Psychology. Minor: Education. Thesis: The Correlates of the Black Identity Complex. Major Adviser: Prof. J. G. Darley.

Walter Lynn Johnson, St. Paul

B.S. '63, Macalester College; M.S. '69, University of Minnesota. Major: Animal Physiology. Minor: Biochemistry. Thesis: Immunochemical Determination of Antigens and Enzymes in the Male Rabbit Reproductive Tract and Evaluation of Their Role in Epididymal Sperm Maturation. Major Adviser: Prof. A. C. Hunter.

Thomas Walter Jones, Midland, Tex.

B.S. with highest honors '67, University of Texas; M.S. '69, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: A Theoretical Study of the Nature of Our Galactic Nucleus. Major Adviser: Prof. P. J. Kellogg.

Ming-Luh Kao, Taipei, Taiwan

B.S. '66, National Taiwan University; M.S. '69, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Synthesis of Nyquist Type Waveforms and Computer Modem Applications. Major Adviser: Prof. R. P. Halverson.

Charles Candlin Kiefer, Flossmoor, Ill.

B.S. *magna cum laude* '68, M.A. '69, Western Michigan University. Major: Education. Minor: Supporting Program. Thesis: The Perceptions of Selected Male Public High School Seniors Concerning Specialized and Comprehensive Post-secondary Schools in Minnesota. Major Adviser: Prof. Jerome Moss, Jr.

Emil Frank Knapp, Alexandria

B.A. *magna cum laude* '64, Concordia College; M.A. '66, University of Missouri. Major: Mathematics. Minor: Statistics. Thesis: A Derivative-Free Treatment of Distributions. Major Adviser: Prof. J. I. Richards.

Kenneth Anthony Kozar, Ely

B.S.B. '67, M.S. '69, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Decision Making in a Simulated Environment: A Comparative Analysis of Computer Data Display Media. Major Adviser: Prof. G. W. Dickson.

Peter Jacob Kuch, St. Paul

B.A. '62, Cornell University; M.A. '64, Syracuse University. Major: Economics. Minor: Supporting Program. Thesis: A Planning Model for Post-Secondary Education in West Central Minnesota. Major Adviser: Prof. A. O. Krueger.

Gary Perrin Landis, Piedmont, Calif.

B.A. '67, Occidental College. Major: Geology. Minor: Supporting Program. Thesis: Geologic, Fluid Inclusion, and Stable Isotope Studies of a Tungsten-Base Metal Ore Deposit: Pasto Bueno, Northern Peru. Major Adviser: Prof. F. J. Sawkins.

Dennis Devonne Leavitt, San Francisco, Calif.

B.S. '67, Oregon State University. Major: Physics. Minor: Supporting Program. Thesis: Analysis of ³He Elastic Scattering Using a Reformulated Optical Model. Major Adviser: Prof. J. S. Lilley.

Mark Ferguson Leppert, Ridgewood, N.J.

B.A. '63, Wesleyan University. Major: Genetics. Minor: Zoology. Thesis: Heterochromatin and DNA Content in the Microtinae. Major Adviser: Prof. S. C. Reed.

John Ludwig Louks, Los Angeles, Calif.

B.A. '66, University of California; M.A. '68, San Fernando Valley State College. Major: Psychology. Minor: Supporting Program. Thesis: Group Systematic Desensitization Versus Test-Wiseness Training in Reducing Test Anxiety. Major Adviser: Prof. V. M. Schletzer.

Orcena Elizabeth Lyle, Minneapolis

B.A. '58, M.A. '61, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Premorbid Psychometric Indicators of the Gene for Huntington's Disease. Major Adviser: Prof. I. I. Gottesman.

Richard Martin Martin, Minneapolis

B.A. '64, St. John's University. Major: Child Psychology. Minor: Psychology. Thesis: A Developmental Study of the Effects of Familiar and Complex Stimuli on Infant Attention. Major Adviser: Prof. H. L. Pick, Jr.

Daniel John Marx, Eau Claire, Wis.

A.B. '62, University of South Dakota; M.A. '65, University of Minnesota. Major: Zoology. Minor: Supporting Program. Thesis: Comparative Immunobiology of Histomoniasis in Turkeys and Chickens. Major Adviser: Prof. F. G. Wallace.

Andreu Mas-Colell, Barcelona, Spain

Lic. '67, University of Valladolid. Major: Economics. Minor: Mathematics. Thesis: Preferences and Smooth Demand Functions. Major Adviser: Prof. M. K. Richter.

Robert Arthur McKeag, Winona

B.S. '53, M.S. '56, Winona State College. Major: Education. Minor: Educational Psychology. Thesis: Word Associations Among Selected Groups of Junior High School Students. Major Co-Advisers: Profs. G. L. Piché and P. E. Johnson.

Twng Wah Mew, Johore Bahru, Malaysia

B.S. '65, Taiwan Provincial University; M.S. '68, University of Rhode Island. Major: Plant Pathology. Minor: Soil Science. Thesis: Studies on Natural Occurrence of Plant Pathogenic Fluorescent Pseudomonads in the Phyllosphere of Soybean. Major Adviser: Prof. B. W. Kennedy.

Robert Eric Meyerson, Atwater

A.B. '66, Columbia College; M.A. '68, University of Minnesota. Major: History. Minor: Sociology. Thesis: Hannah Arendt, Romanticist in a Totalitarian Age, 1928-1963. Major Adviser: Prof. J. A. Thayer.

Ananta Mishra, Bhubaneswar, Orissa, India

B.V.S. and A.H. '53, Bihar University; M.S. '60, University of Missouri. Major: Veterinary Medicine. Minor: Animal Science. Thesis: Experimental Studies on the Role of Immunglobulins in the Bovine Respiratory Disease Complex. Major Adviser: Prof. D. K. Sorenson.

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B.S. '65, University of California, Los Angeles; M.S. '67, San Diego State College. Major: Industrial Relations. Minor: Supporting Program. Thesis: The Importance of Selected Professional Association Activities as Perceived by Engineers and Scientists. Major Adviser: Prof. H. G. Heneman, Jr.

Robert Ramon Nelson, Rake, Iowa

B.S. '66, Mankato State College; M.S. '67, University of Minnesota. Major: Environmental Health. Minor: Entomology. Thesis: Responses of Lake Superior Periphyton to Enriching Substances. Major Adviser: Prof. T. A. Olson.

Troy E. Nuckols, Foster City, Calif.

A.B. magna cum laude '58, M.A. '63, M.A. '65, San Francisco State College. Major: Educational Psychology. Minor: Supporting Program. Thesis: Perceptions of Male High School Seniors of Selected High Level and Low Level Occupations in Relation to Background and Personal Characteristics. Major Adviser: Prof. W. W. Tennyson.

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B.A. '67, St. Mary's College. Major: Pharmacology. Minor: Biochemistry. Thesis: The Role of Phosphodiesterase in the Regulation of Cyclic Nucleotide Metabolism. Major Adviser: Prof. N. D. Goldberg.

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B.A. magna cum laude '68, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: The Severely Disturbed Adolescent: Prognostic Implications and Long-Term Adjustment. Major Adviser: Prof. A. J. Hafner.

John Higbee O'Neill, Menomonie, Wis.

B.S. '63, Wisconsin State University, LaCrosse; M.A. '68, University of Minnesota. Major: English. Minor: Internal. Thesis: An Art Beyond the Reach of Grace: English Pornographic Verse, 1660-1685. Major Adviser: Prof. R. E. Moore.

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B.S. '67, M.S. '68, Brigham Young University. Major: Psychology. Minor: Supporting Program. Thesis: Interactions Between Appetitive Pavlovian CSs and Instrumental Avoidance Behavior. Major Adviser: Prof. J. B. Overmier.

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B.A. '65, St. John's University; M.A. '67, University of Wisconsin. Major: Mathematics. Minor: Supporting Program. Thesis: W-Linear Vector Field Flows on Manifolds. Major Adviser: Prof. Robert Ellis.

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B.S. '66, Utah State University. Major: History. Minor: Political Science. Thesis: Friedrich Julius Stahl: A Study in the Development of German Conservative Thought, 1802-1861. Major Adviser: Prof. O. P. Pflanze.

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B.S. '66, Roosevelt University. Major: Statistics. Minor: Mathematics. Thesis: Coherent Odds and Bayesian Odds. Major Adviser: Prof. R. J. Buehler.

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B.A. '58, St. John's University. Major: Sociology. Minor: Supporting Program. Thesis: Religiosity and Sexual Permissiveness. Major Adviser: Prof. I. L. Reiss.

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B.A. '54, Hebrew University of Jerusalem; M.A. '59, University of Minnesota. Major: Comparative Literature. Minor: Supporting Program. Thesis: The Stetl in the Works of Karl Emil Franzos, Sholom Aleichem and Shmuel Yosef Agnon. Major Adviser: Prof. G. H. Weiss.

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Calif.

A.B. '67, Occidental College. Major: Geology. Minor: Supporting Program. Thesis: The Stable and Lead Isotopes of Parts of the Northern Black Hills: Age and Origin of the Homestake and Surrounding Ore Bodies. Major Adviser: Prof. F. J. Sawkins.

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B.S. '66, M.S. '68, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: An Analysis of Knot-Associated Collapse-Susceptible Tissue in Redwood. Major Adviser: Prof. J. G. Haygreen.

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B.S. '65, University of Wisconsin. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Synthetic Indole Alkaloids. Major Adviser: Prof. W. E. Noland.

Douglas Lee Smith, Christopher, Ill.

B.S. '65, University of Illinois. Major: Geophysics. Minor: Geology. Thesis: The Vertical Distribution of Heat Production and Heat Flow in Northwestern Mexico. Major Adviser: Prof. V. R. Murphy.

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B.S. '47, M.F. '48, Colorado State University. Major: Forestry. Minor: Ecology. Thesis: The Influence of Environmental Factors on Red Pine Regeneration. Major Adviser: Prof. F. H. Kaufert.

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B.A. '63, St. Bonaventure University; B.A. '67, Catholic University; M.A. '68, St. Bonaventure University. Major: English. Minor: Supporting Program. Thesis: Linear Pattern Within the Cyclical Patterns of Sir Gawain and the Green Knight. Major Adviser: Prof. J. J. McNally.

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B.S. '62, University of Wisconsin; M.A. '67, University of Michigan. Major: Sociology. Minor: Supporting Program. Thesis: Social Control in Institutions of Higher Education: Administration Responses to Student Protest at the University of Minnesota and Macalester College (1967-1972). Major Adviser: Prof. D. A. Martindale.

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B.A. '64, Carleton College; M.S. '67, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: An Information Processing Model of Industrial Buyer Behavior. Major Adviser: Prof. R. J. Holloway.

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B.A. '64, State College of Iowa; M.A. '66, University of Pittsburgh. Major: History. Minor: Supporting Field. Thesis: The American Country Life Movement, 1900-1940. Major Adviser: Prof. C. A. Chambers.

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B.A. '62, Carleton College; M.S. '66, University of Minnesota. Major: Ecology. Minor: Zoology. Thesis: Design and Testing of a Heat Transfer Model of a Raccoon (*Procyon lotor*) in a Closed Tree Den. Major Adviser: Prof. J. R. Tester.

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B.S.Met.E. '66, M.S. '67, Michigan Technological University. Major: Business Administration. Minor: Supporting Program. Thesis: A Simulation Analysis of the Economic Consequences of Establishing Multi-Modal Transportation Companies. Major Adviser: Prof. N. L. Chervany.

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B.S. '64, Hebrew University; M.S. '67, Rutgers University. Major: Soil Science. Minor: Microbiology. Thesis: The Influence of Nodule Weight and Free Water on Acetylene Reduction by Detached Soybean (*Glycine max*) Nodules. Major Adviser: Prof. E. L. Schmidt.

Francis Cheng-Ping Wang, Taipei, Taiwan

B.S.E. '64, National Taiwan University; M.S.A.E. '67, University of Minnesota. Major: Aeronautical Engineering. Minor: Mathematics. Thesis: Structure of Turbulent Jets and Wakes Using Eddy Viscosity Models. Major Adviser: Prof. T. S. Lundgren.

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B.S. '60, Cheng Kung University; B.S. '65, M.S. '67, Washington State University. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Sub-Optimization of Decentralized Control Systems. Major Adviser: Prof. F. N. Bailey.

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B.A. '68, Rice University. Major: Chemistry. Minor: Supporting Program. Thesis: An Approach to Synthesis of the E Ring of Camptothecin. Major Adviser: Prof. R. F. Borch.

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B.A. '67, Occidental College. Major: Psychology. Minor: Supporting Program. Thesis: Psychometric Assessment of Schizotypic Spectrum Disorders: I. The Development of a Self-Report Item Pool. Major Adviser: Prof. P. E. Meehl.

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B.A. '40, Carleton College; M.A. '68, University of Minnesota. Major: American Studies. Thesis: Populism in a New Perspective: An Analysis of Political Radicalism in the Upper Midwest. Major Adviser: Prof. D. W. Noble.

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B.A. *summa cum laude* '70, University of Minnesota. Field of Concentration: French. Major Adviser: Prof. J. L. Waldauer.

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B.S. '63, Geneva College. Major: Industrial Relations. Minor: Sociology. Thesis: The Usefulness of Applicant Self-Ratings as a Substitute for Reference in Selection Programs. Major Adviser: Prof. G. W. England.

Richard William Hilger, Brookfield, Wis.

B.A. '70, Ripon College. Field of Concentration: Theatre Arts. Major Adviser: Prof. F. M. Whiting.

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B.A. '70, University of Minnesota. Major: Speech-Communication. Minor: History. Thesis: The Rhetoric of Draft Counseling: The Minnesota Draft and Military Help as the Source of a Message. Major Adviser: Prof. R. L. Scott.

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B.A. '69, Valparaiso University. Major: History. Minor: Mass Communication. Thesis: Socialism in One City: A Political Study of Minneapolis in the Progressive Era. Major Adviser: Prof. Hyman Berman.

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Colo.

A.B. cum laude '61, Regis College. Field of
Concentration: Educational Psychology. Major
Adviser: Prof. L. D. Schmidt.

Sylvia Jane Solberg, Minneapolis

B.A. cum laude '70, St. Olaf College. Field of
Concentration: Psychology. Major Adviser:
Prof. J. G. Darley.

Nancy Kay Spannaus, Excelsior

B.S. '69, University of Minnesota. Field of
Concentration: Secondary Education. Major
Adviser: Prof. N. P. Pearson.

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B.S. '60, Mankato State College. Field of
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Adviser: Prof. D. H. Anderson.

Richard Allan Steege, Minneapolis

B.A. '59, Wartburg College. Field of Concen-
tration: Education. Major Adviser: Prof. D. A.
Johnson.

James Joseph Stepnick, St. Paul

B.S. '63, University of Minnesota. Field of
Concentration: Elementary Education. Major
Adviser: Prof. R. N. Odland.

Joan Marie Stevenson, Canada

B.P.H.E. '69, University of Toronto. Field of
Concentration: Physical Education. Major Ad-
viser: Prof. M. U. Wilson.

Sylvia Wisness Storvick, Minneapolis

B.A. cum laude '52, Luther College. Field of
Concentration: Music. Major Adviser: Prof.
Johannes Riedel.

Dennis Michael Sullivan, Blaine

B.S. magna cum laude '67, Mankato State Col-
lege. Field of Concentration: Education. Major
Adviser: Prof. D. L. Lange.

Lois Jane Swartz, St. Paul

B.S. '68, University of Minnesota. Field of
Concentration: Elementary Education. Major
Adviser: Prof. R. N. Odland.

Gail Scheir Thoen, Brooklyn, N.Y.

B.A. cum laude '71, University of Minnesota.
Field of Concentration: Home Economics. Ma-
jor Adviser: Prof. R. N. Hey.

Anna Thompson, St. Paul

B.S. '63, University of California, Berkeley;
B.S. '67, University of Minnesota. Field of
Concentration: Educational Psychology. Major
Adviser: Prof. F. H. Wood.

- Lee Emery Topp, Randolph
B.S. '65, Mankato State College. Field of Concentration: Education. Major Adviser: Prof. Edith West.
- Erma Jean Trammel, Kansas City, Kan.
B.S. '57, University of Kansas. Field of Concentration: Elementary Education. Major Adviser: Prof. R. N. Odland.
- Beverly Hinders Trost, Waterloo, Iowa
B.A. '62, University of Northern Iowa. Field of Concentration: Library Science. Major Adviser: Prof. E. W. McDiarmid.
- Bruce Allen Trouten, White Bear Lake
B.A. '65, Hamline University. Field of Concentration: Curriculum and Instruction. Major Adviser: Prof. N. P. Pearson.
- Elaine Alice Tuttle, Mendon, Mass.
A.B. with great distinction and with honor '69, Mount Holyoke College. Field of Concentration: English. Major Adviser: Prof. G. W. O'Brien.
- Mark Harold Vacura, Minneapolis
B.A. '65, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. R. V. Dawis.
- Judith Ann Vermeland, Minneapolis
B.S. '58, North Dakota State University. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.
- Clifford Doyle Vrieze, Spring Valley
B.S. '67, University of Minnesota. Field of Concentration: Agricultural Education. Major Adviser: Prof. E. A. Persons.
- Katherine Ann Wasson, Alexandria
B.S. '68, University of Minnesota. Field of Concentration: Library Science. Major Adviser: Prof. L. E. Olson.
- Kenneth Eugene Wedell, Fond du Lac, Wis.
B.S. '51, Stout State University. Field of Concentration: Industrial Education. Major Adviser: Prof. D. J. Pucel.
- Linda Elizabeth Western, St. Paul
B.S. with high distinction '63, University of Minnesota. Field of Concentration: Elementary Education. Major Adviser: Prof. R. N. Odland.
- Collette Mary White, Elmhurst, Ill.
B.A. '63, Edgewood College. Field of Concentration: Art Education. Major Adviser: Prof. T. C. Slettehaugh.
- Jean Marie Beck Wik, Bloomington
B.A. '63, Northern State College. Field of Concentration: Secondary Education. Major Adviser: Prof. N. P. Pearson.
- Pamela Sue Williams, Chicago, Ill.
B.A. '71, Northwestern University. Field of Concentration: English. Major Adviser: Prof. G. W. O'Brien.
- John Stephen Wirth, Minneapolis
B.A. *summa cum laude* '67, University of Minnesota. Major: Linguistics. Minor: Philosophy. Thesis: Explanation in Linguistics. Major Adviser: Prof. Walter Lehn.
- Sister Anita Mary Wolfe, Hankinson, N.D.
B.Mus. '58, Alverno College. Field of Concentration: Music Education. Major Adviser: Prof. E. M. Turrentine.
- Sharon Ann Woolson, Hastings
B.A. *magna cum laude* '64, Augsburg College. Field of Concentration: Secondary Education. Major Adviser: Prof. E. M. Birkmaier.
- Alexandra Tkach Wright, Minneapolis
B.S. with distinction '61, University of Minnesota. Field of Concentration: Art Education. Major Adviser: Prof. W. R. Hastie.
- Janet Ann Yoder, Amery, Wis.
B.S. '66, Wisconsin State University, Stevens Point. Field of Concentration: Library Science. Major Adviser: Prof. J. H. Leigh.
- Alan Richard Zimmerman, Eau Claire, Wis.
B.A. *magna cum laude* '70, Wisconsin State University, Eau Claire. Field of Concentration: Speech-Communication. Major Adviser: Prof. W. S. Howell.
- John Howard Zupfer, St. Paul
B.A. '61, Macalester College. Field of Concentration: Education. Major Adviser: Prof. E. D. Gennaro.

Master of Arts

UNIVERSITY OF MINNESOTA, DULUTH

James Eugene Abate, Hibbing

B.S. '66, University of Minnesota, Duluth.
Field of Concentration: Education. Major Adviser: Prof. D. A. Crawford.

Diane Elaine Anderson, Duluth

B.S. '56, Macalester College. Field of Concentration: Education. Major Adviser: Prof. V. L. Simula.

Leonore Burger Baeumler, Nuernberg, Germany

B.S. '67, University of Minnesota, Duluth.
Field of Concentration: Educational Psychology. Major Adviser: M. F. Gum.

David Kemp Bateman, Virginia

B.A. '60, St. John's University. Field of Concentration: English. Major Adviser: Prof. J. E. Duncan.

Philip Edward Boekhoff, Duluth

B.S. '64, University of Minnesota, Duluth.
Field of Concentration: Education. Major Adviser: Prof. R. O. Sielaff.

Gregory Tracey Cosgrove, Thunder Bay, Ontario, Canada

B.A. '69, University of Waterloo. Field of Concentration: Secondary Education. Major Adviser: Prof. V. L. Simula.

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B.S.E. '66, Kansas State Teachers College. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. F. Gum.

John Benjamin Downs, Duluth

B.S. '59, University of Minnesota, Duluth.
Field of Concentration: Educational Psychology. Major Adviser: Prof. M. F. Gum.

Frank George Draper, Thunder Bay, Ontario, Canada

B.S. '71, University of Minnesota, Duluth.
Field of Concentration: Educational Administration. Major Adviser: Prof. K. J. Vander Horck.

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B.A. '67, College of St. Scholastica. Field of Concentration: Education. Major Adviser: Prof. D. A. Crawford.

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B.A. '54, B.S. '55, University of Minnesota.
Field of Concentration: Educational Psychology. Major Adviser: Prof. M. F. Gum.

Marlys Joan Gobell, Grand Rapids

B.A. '53, College of St. Scholastica. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. F. Gum.

Fred Fraser Goodfellow, Thunder Bay, Ontario, Canada

B.A. '59, University of Western Ontario. Field of Concentration: Education. Major Adviser: Prof. D. A. Crawford.

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B.S. with honors '66, Wisconsin State University. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. F. Gum.

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B.S. '70, University of Minnesota, Duluth.
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B.S. *cum laudè* '51, Northwestern University. Field of Concentration: Education. Major Adviser: Prof. V. L. Brown.

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B.A. *summa cum laude* '70, University of Minnesota, Duluth. Field of Concentration: English. Major Adviser: Prof. J. E. Duncan.

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B.S. '59, Moorhead State College. Field of Concentration: Education. Major Adviser: Prof. H. C. Johnson.

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B.S. '69, University of Minnesota, Duluth.
Field of Concentration: Education. Major Adviser: Prof. V. R. Plumb.

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B.S. '68, University of Minnesota, Duluth.
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Wayne Harvard Slater, Duluth

B.S. *cum laude* '67, University of Minnesota, Duluth. Field of Concentration: English. Major Adviser: Prof. R. R. Owens.

Mary Jo Swanson, Silver Bay

B.S. cum laude '63, University of Minnesota, Duluth. Field of Concentration: Educational Psychology. Major Adviser: Prof. A. W. Tamminen.

Glenn Elvin Treftlin, Devlin, Ontario, Canada

B.A. '66, Queen's University. Field of Concentration: Education. Major Adviser: Prof. D. A. Crawford.

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B.S. '63, Memphis State University. Field of Concentration: Educational Psychology. Major Adviser: Prof. M. F. Gum.

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B.A. cum laude '71, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. K. J. Vander Horck.

Master of Arts in Public Administration

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B.A. '50, M.S.W. '52, University of California, Berkeley. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Master of Business Administration

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B.S. '58, Kansas State University. Field of Concentration: Business Administration. Major Adviser: Prof. N. A. Glaskowsky.

John Keith Courtis, Melbourne, Australia

B.Com. with honors '70, University of Melbourne. Field of Concentration: Business Administration. Major Adviser: Prof. R. G. Berryman.

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B.S. '63, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

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B.S. '57, University of Wisconsin. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Gary Donald Radel, St. Paul Park

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

Sidney Freidin Sapakie, St. Louis Park

B.S.E. '67, University of Michigan. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Leonard M. Steiner, Jr., St. Paul

B.M.E. with distinction '70, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. J. C. Shreiner.

Richard Edward Tieder, St. Paul

B.S. '63, Michigan Technological University. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Kenneth Alan Wilcox, Minneapolis

B.A. '67, Williams College. Field of Concentration: Business Administration. Major Adviser: Prof. C. W. Rudelius.

Master of Fine Arts

Gayle Margaret Anderson, St. Cloud
B.S. '69, University of Minnesota. Field of Concentration: Music. Major Adviser: Prof. R. A. Schuessler.

Carl Eugene Brodie, Wichita, Kan.
B.F.A. '70, Wichita State University. Field of Concentration: Studio Arts. Major Adviser: Prof. A. E. Kraming.

William Michael Decker, Minneapolis
B.S. '68, M.Ed. '70, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. Peter Busa.

Thomas Francis Jasorka, St. Louis, Mo.
B.A. '70, Catholic University of America. Field of Concentration: Theatre Arts. Major Adviser: Prof. R. D. Moulton.

David Abel Johnson, Northport, Mich.
B.F.A. *cum laude* '70, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. M. H. Myers.

MaryAnn Lippay, Munhall, Pa.
B.A. with distinction '70, Pennsylvania State University. Field of Concentration: Theatre Arts. Major Adviser: Prof. R. D. Moulton.

Roger H. Martin, New York, N.Y.
B.A. '60, Williams College; B.Arch. '65, University of Minnesota. Field of Concentration: Studio Arts. Major Adviser: Prof. Allen Downs.

Master of Science

John Albert Arends, Blue Earth
B.A. '68, Mankato State College. Field of Concentration: Agricultural Economics. Major Adviser: Prof. R. P. Dahl.

Fekade-Selassie Bezuneh, Addis Ababa, Ethiopia
B.S. '69, Bethune-Cookman College. Field of Concentration: Business Administration. Major Adviser: Prof. C. R. Purdy.

Cora Jane Boswell, Chase City, Va.
B.S. '70, College of William and Mary. Field of Concentration: Chemistry. Major Adviser: Prof. R. E. Barnett.

Elizabeth Allison Branford, Edinburgh, Scotland
B.S. with second class honours '70, University of Edinburgh. Major: Animal Science. Minor: Genetics. Thesis: The Inheritance of Tail Length in Crossbred Finnish Landrace Sheep. Major Adviser: Prof. W. J. Boylan.

Elizabeth Ann Braunlin, Minneapolis
B.S. '67, University of Iowa. Major: Inorganic Chemistry. Minor: Physical Chemistry. Thesis: Some Substituted Nickel Dithiobenzoates. Major Adviser: Prof. H. F. Henneike.

Bret Lee Burquest, Minneapolis
B.S.B. '71, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. L. Chervany.

David Byman, Chicago, Ill.
B.A. '68, Grinnell College. Major: Ecology. Minor: Related Fields. Thesis: Food Habits of the Timber Wolf in Northeastern Minnesota. Major Adviser: Prof. A. W. Erickson.

Howard Lawrence Engstrom, Harlingen, Tex.
B.S. '65, Oklahoma State University. Field of Concentration: Agricultural Economics. Major Adviser: Prof. W. W. Cochran.

Leah Shirley Frankel, New York, N.Y.
B.A. '69, Hunter College. Major: Geology. Minor: Chemistry. Thesis: A Crystallographic Study of Natural Dimorphite I and Dimorphite II. Major Adviser: Prof. T. Z. Zoltai.

Arthur Larry Geldon, Yonkers, N.Y.
B.S. '70, City College of New York. Major: Geology. Minor: Related Fields. Thesis: Petrology and Origin of a Lamprophyre Pluton near the Dead River, St. Louis County, Minnesota. Major Adviser: Prof. P. W. Weiblen.

Jay Roy Hamann, Clarks Hill, Ind.
B.S. with distinction '58, B.E.E. '59, University of Minnesota. Major: Business Administration. Minor: Mathematics. Thesis: Truck Routing: A Branch and Bound Solution. Major Adviser: Prof. G. M. Andrew.

Sandra Hatch, Needham, Mass.

B.A. '68, Gustavus Adolphus College. Field of Concentration: Ecology. Major Adviser: Prof. H. C. Chiang.

Richard Jay Henny, Brooks, Ore.

B.S. '69, Oregon State University. Field of Concentration: Horticulture. Major Adviser: Prof. P. E. Read.

Douglas Gilbert Henry, China Lake, Calif.

B.S. '68, University of California, Berkeley. Major: Forestry. Minor: Soils. Thesis: Foliar Nutrient Patterns in the Subordinate Vegetation of Six Minnesota Forest Stands. Major Adviser: Prof. E. V. Bakuzis.

Carmencita Rocha Hernandez, Philip-pines

B.S.C. '64, Far Eastern University. Field of Concentration: Business Administration. Major Adviser: Prof. J. M. Smith, Jr.

Daniel Edson Huntwork, Minneapolis

B.S. '69, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. D. W. Kahn.

Jacques Remy Jambon, Paris, France

B.E. '69, Ecole Centrale des Arts et Manufactures, Paris. Major: Computer and Information Sciences. Minor: Business Administration. Thesis: Interactive Medical Report System. Major Adviser: Prof. W. K. Giloi.

Richard Lawrence Kelsey, St. Paul

B.S.B. with distinction '69, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. G. Berryman.

Richard Patrick Kuehn, Yakima, Wash.

B.B.A. '70, University of Washington. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

Mark Stuart McBride, St. Paul

B.A. '67, Carleton College. Major: Geology. Minor: Civil Engineering. Thesis: Hydrology of Lake Sallie, Northwestern Minnesota, with Special Attention to Ground Water-Surface Water Interactions. Major Adviser: Prof. H. O. Pfannkuch.

Victoria Lynn Miller, St. Paul

B.S.N. *cum laude* '66, St. Olaf College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Clayton Wallace Ogg, Ames, Iowa

B.A. '67, University of Michigan. Field of Concentration: Agricultural Economics. Major Adviser: Prof. V. W. Ruttan.

Douglas Edward Pagel, Atwater

B.A. '71, University of Minnesota. Field of Concentration: Agricultural Economics. Major Adviser: Prof. T. R. Nodland.

Alfredo Pelaez, Bogotá, Colombia

Ing.Agr. '68, National University of Colombia. Major: Plant Pathology. Minor: Related Fields. Thesis: The Role of Copper Fungicides in Altering Population of the Bacterial Blight Pathogen on Leaf Surfaces of Soybean. Major Adviser: Prof. B. W. Kennedy.

Clare Louise Schuld Ritter, Harvard, Ill.

B.S. '67, University of Illinois. Major: Biochemistry. Minor: Chemistry. Thesis: Studies of Intermediates Formed in the Degradation of Protocatechuic Acid by Bacterial Enzymes. Major Adviser: Prof. Stanley Dagley.

Kenneth Joseph Roufs, Winsted

B.A. '68, St. Cloud State College. Field of Concentration: Business Administration. Major Adviser: Prof. J. K. Simmons.

David Eero Saarela, Virginia

B.S. '64, Massachusetts Institute of Technology. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffman.

Diego Henao Salazar, Medellin, Colombia

B.A. '70, Macalester College. Field of Concentration: Statistics. Major Adviser: Prof. R. J. Buehler.

Jo Ellen Sheets, Dayton, Ohio

B.S. with honor '71, Michigan State University. Field of Concentration: Genetics. Major Adviser: Prof. F. D. Enfield.

Sudarshan Singh, Kharagpur, India

B.S. '68, M.S. '70, Indian Institute of Technology, Kharagpur. Major: Geophysics. Minor: Geology. Thesis: A Seismic Model Study of Methods to Minimize Surface Wave Interference in Reflection Seismology. Major Adviser: Prof. H. M. Mooney.

Curtis Lynn Sippel, Windom

B.S.B. '68, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: The Relationship of Pre-Purchase Expectations and Post-Use Satisfaction to Consumer Behavior. Major Adviser: Prof. C. W. Rudelius.

Jorge Amable Soto, Maracaibo, Venezuela
Med.Vet. '65, University of Central Venezuela.
Field of Concentration: Veterinary Pathology.
Major Adviser: Prof. H. J. Kurtz.

Ronald Philip Teemley, Enid, Okla.
B.S. '60, University of Colorado; M.A. '69,
Wichita State University. Field of Concentration:
Mathematics. Major Adviser: Prof. Yasutaka
Sibuya.

Lynn Marie Theurer, Winona
B.S. '68, Winona State College. Field of Concentration:
Psychiatric Nursing. Major Adviser:
Prof. J. R. Hubbard.

James Alie Tichich, Minneapolis
B.A. '67, St. John's University. Field of Concentration:
Animal Science. Major Adviser:
Prof. R. M. Jordan.

Charlotte Helen Jetson Tripp,
Winona
B.S. with special honor '70, Winona State College.
Field of Concentration: Medical-Surgical
Nursing. Major Adviser: Prof. M. I. Harris.

Paul Randall Vogt, Collinsville, Ill.
B.A. '67, Southern Illinois University. Field of
Concentration: Genetics. Major Adviser: Prof.
R. N. Shoffner.

Master of Science

MAYO GRADUATE SCHOOL OF MEDICINE

Diane Marie Huse, Circle Pines
B.S. '66, University of Minnesota. Major:
Home Economics. Minor: Biochemistry. Thesis:
Energy Metabolism, Nutritional Intake and
Body Composition of Infants with Congenital
Heart Disease. Major Adviser: Prof. R. A.
Nelson.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

John Kevin Ahlquist, Robbinsdale
B.S. '70, Wheaton College. Field of Concentration:
Chemistry. Major Adviser: Prof. J. C.
Nichol.

Rodney Stuart Dahlquist, Duluth
B.A. cum laude '68, Gustavus Adolphus College.
Field of Concentration: Biology. Major
Adviser: Prof. T. O. Odlaug.

David Glen Greer, Cloquet
B.A. '65, Colorado State College. Major:
Chemistry. Minor: Internal. Thesis: Response
Characterization of the Melpar Flame Photo-
metric Detector for Hydrogen Sulfide and
Sulfur Dioxide. Major Adviser: Prof. T. J.
Bydalek.

Donald Douglass Humer, York, Pa.
B.S. '69, California State College at Los
Angeles. Major: Physics. Minor: Mathematics.
Thesis: Doppler Profile of Atomic Fluorescence
of Photodissociated Sodium Iodide. Major
Adviser: Prof. H. G. Hanson.

Rosemary Martin Jellish, Duluth
B.A. cum laude '65, University of Minnesota,
Duluth. Major: Chemistry. Minor: Mathe-
matics. Thesis: Stability Constants of Some
Complexes of Uramildiacetic Acid. Major
Adviser: Prof. L. C. Thompson.

Master of Science in Agricultural Engineering

Mohinder Singh Badyal, Punjab, India
B.S.Ag.Eng. '70, Punjab Agricultural Univer-
sity. Field of Concentration: Agricultural Engi-
neering. Major Adviser: Prof. John Strait.

Master of Science in Civil Engineering

Asok Kumar Maitra, Calcutta, India
B.E. '67, Calcutta University. Field of Concentration: Civil Engineering. Major Adviser: Prof. J. T. Hanley.

Master of Science in Dentistry

Allen Horowitz, Forest Hills, N.Y.
D.D.S. '68, University of Michigan. Major: Dentistry. Minor: Anatomy. Thesis: Hydrogen Sulfide Production and Induced Pathology in the Oral Environment. Major Adviser: Prof. L. E. Folke.

John Stephen Kanyusik, St. Cloud
B.S. with high distinction '68, D.D.S. '70, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Laminographic Cephalometric Investigation of Dento-Maxillary Response to Continuous Extra-Oral Distal Force at Variable Magnitudes. Major Adviser: Prof. R. J. Isaacson.

George Glynn Mary, Oconto, Neb.
D.D.S. '58, Creighton University. Major: Dentistry. Minor: Anatomy. Thesis: Chemotactic Properties of Dental Plaque. Major Adviser: Prof. L. E. Folke.

Edward Joseph Monahan, Alexandria
D.D.S. '67, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: Facial Profile Changes Related to Orthodontic Tooth Movement in Non-Growing Patients. Major Adviser: Prof. R. J. Isaacson.

James Homer Plets, Meadowlands
D.D.S. '70, University of Minnesota. Major: Dentistry. Minor: Related Fields. Thesis: A Radiographic Evaluation of the Maxillary Central Incisor Root Lengths in Orthodontically Treated Patients. Major Adviser: Prof. R. J. Isaacson.

Master of Science in Electrical Engineering

Robert Lewis Fawcett, York, Pa.
B.S. '70, Monmouth College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Y. Kain.

John Jaroslav Janda, Chicago, Ill.
B.S. with highest honors '70, University of Illinois. Field of Concentration: Electrical Engineering. Major Adviser: Prof. T. S. Lee.

Mark Thomas Manfred, Edina
B.E.E. with distinction '67, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Study of the Balanced Cross-Coupled Digital Filter. Major Adviser: Prof. L. L. Kinney.

John Anthony Woltjen, St. Louis, Mo.
B.S.E.E. '70, University of Missouri. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. M. Waltz.

Master of Science in Geo-Engineering

Michel Andre Walter, St. Gervais-les-Bains, France
Eng. '71, Ecole des Mines de Paris. Field of Concentration: Geo-Engineering. Major Adviser: Prof. S. L. Crouch.

Master of Science in Industrial Engineering

Mahesh Chander Pondicherry,
Secunderabad, India

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

Jean-Pierre Pouplard, Paris, France

Dipl.Eng. '70, Ecole Nationale d'Ingenieur de Metz. Major: Industrial Engineering. Minor: Related Fields. Thesis: The Moments of the Non-Normal 1— Distribution. Major Adviser: Prof. J. S. White.

Master of Science in Mechanical Engineering

James Clarence Hogan, Prairie du
Chien, Wis.

B.M.E. with distinction '54, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. E. M. Sparrow.

Dipakkumar Ramniklal Kothari,
Baroda, India

B.E. '70, University of Baroda. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Some Mechanical Design Considerations in the Development of a Bio-Implantable Fluid Pressurization System. Major Adviser: Prof. D. A. Frohrib.

Charles Sing-Keung Lo, Hong Kong

B.M.E. '70, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Powder Dispersion by Means of a Fluidized Bed. Major Adviser: Prof. Klaus Willeke.

Jose Rene Moran-Bolaños, San Salvador, El Salvador

B.S.M.E. '69, University of El Salvador. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. W. A. Kleinhenz.

Donn Neal Peterson, Brooklyn Park

B.S.M.E. '63, University of North Dakota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. Katsuhiko Ogata.

Master of Science in Obstetrics and Gynecology

MAYO GRADUATE SCHOOL OF MEDICINE

Viglundur Thor Thorsteinsson, Iceland

M.D. '64, University of Iceland. Major: Obstetrics and Gynecology. Minor: Pathology. Thesis: Aenomatous Hyperplasia of the Endocervix. Major Adviser: Prof. D. G. Decker.

Master of Science in Surgery

MAYO GRADUATE SCHOOL OF MEDICINE

Sigurdur Egill Thorvaldsson, Reykjavik, Iceland

M.D. '64, University of Iceland. Major: Surgery. Minor: Pathology. Thesis: Mucoepidermoid Tumors of Major Salivary Glands: A Clinicopathologic Study. Major Adviser: Prof. O. H. Beahrs.

Certificate of Specialist in Education

Katherine Ruth Bayer, Homewood,
Ill.

A.B. with high honors '70, University of Illinois; M.A. '72, University of Minnesota. Field: School Psychological Services. Major Adviser: Prof. G. J. Rockwell, Jr.

Gordon Flattum, Bloomington

B.S. '50, M.A. '57, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. W. R. Cross.

Alden Marvin Olson, Cottage Grove

B.A. '52, Luther College; M.A. '60, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. V. D. Mueller.

Ellen Evelyn Adele Olson, Minneapolis

B.S. with honor '56, Winona State Teachers College; M.A. '61, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. G. F. Alkire.

Morris Bernard Vogel, Minneapolis

B.S. '52, Mankato State College; M.A. '67, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. W. R. Cross.

Lily-Beth Wahlberg, St. Paul

B.S. '59, M.A. '63, University of Minnesota. Field: Special Education. Major Adviser: Prof. D. G. Force, Jr.

COLLEGE OF AGRICULTURE

Bachelor of Science

Catherine Ann Dorris, Minneapolis

Lance Edward Gegner, Redwood Falls

COLLEGE OF AGRICULTURE AND COLLEGE OF EDUCATION

Master of Education

Arnold John Heikkila, B.S., Duluth

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Donald Robert Bruce, Pine City

Marjorie Helen Fisher, St. Paul

Paul Albert Hoppe, Minneapolis

Sharon Dee Kakish, Minneapolis

Carol Rae McKie, Chisholm

Daniel Garfield Mills, Anoka

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Allan Eugene Austinson, Minneapolis

Bernard John Bay, Minneapolis

John Merlin Bouska, Montevideo,

with distinction

Richard John Burrock, International
Falls

Howard Joel Chanen, Minneapolis

Curtis Allen Conrad, Eden Prairie

Diane L. Cox, Minneapolis

Ronald Alfred Dahl, Blaine

Roland Dennis Enno, Minneapolis

Ralph Andrew Favorite, Minneapolis

Gene Clarence Gehrking, White Bear
Lake
Timothy Jerome Hanratty,
Minneapolis
William Paul Hartleben, Minneapolis
Donald Stanley Hebeisen, St. Paul
Michael Lynn Hoke, Minneapolis
Gary Lee Jacobson, Minneapolis
Richard James Johansen, Minneapolis
Thomas Wyman Kilgore, Hastings
*Fred Donald Knott, Silver Lake, with
high distinction*
Michael Gregory Kroll, St. Paul
Bruce Keith Lanske, Clearbrook
Eugene Roy Lapham, Minneapolis
Mark Arnold Madsen, Minneapolis,
with high distinction
Timothy Patrick McKeever, St. Paul
Warren Donald McLaughlin, A.A.,
Minneapolis
Richard David Mickelson, Milaca
Gregory Maurice Mikkelsen,
Bloomington

Billy Thomas Mitchell, St. Louis Park
William James Murphy, South St.
Paul
Leon Noel Nelson, Minneapolis
*Rita Anne Nelson, Minneapolis, with
distinction*
Howard Allan Neren, B.A., Minne-
apolis
Paul Howard Norman, A.A., Minne-
apolis
Richard Joseph Pauly, Jordan
Douglas Alan Peters, Denver, Colo.
Lawrence Orlie Peterson, St. Paul
Curtis Loel Ratcliff, St. Paul
Richard James Slominski, B.A.E.,
Minneapolis
Donald Louis Toavs, Crystal
Lon Robert Tullar, Aberdeen, S.D.
Clarence Viitala, Hopkins
James Dale Von DeLinde, St. Paul
Gerald Roy Warling, Minneapolis
Donald Reed Wiener, Minneapolis
George Alan Zarns, New Brighton

CONTINUING EDUCATION AND EXTENSION

Accounting Certificate

Leslie Leiviska, Minneapolis

Business Administration Certificate

Paul M. McDougall, St. Paul

Civil Engineering Technician Certificate

Michael Christiansen, St. Paul

Engineering Science Certificate

Rodney Martenson, St. Louis Park

Social Work Certificate

Lyle Christianson, Roseville
Gordon R. Dean, St. Paul

Thomas Leyden, Richfield
Sandra L. Stoeckel, Minneapolis

Undergraduate Development Certificate in Electrical Engineering—90 Credits

Arvin George Gehrking, New Brighton*

Undergraduate Development Certificate in Electrical Engineering—135 Credits

David Proctor Poate, Minneapolis

Undergraduate Development Certificate in Engineering and Science—90 Credits

William L. Burmaster, Minneapolis

SCHOOL OF DENTISTRY

Graduate Dental Hygienist

Marcia Jean Baker, Cleveland, Ohio

COLLEGE OF EDUCATION

Bachelor of Science

Anita Fay Bale, Minneapolis, with
high distinction

Ingeborg H. Bash, Minneapolis, with
high distinction

Jeanne Anne Bear, St. Paul, with
distinction

Susan Jane Beaubaire, Minneapolis,
with distinction

Robert Williams Behrends, B.A., Min-
neapolis

Holly Anita Berg, Wilmington, Del.,
with distinction

Esther Beth Besner, St. Paul, with
distinction

Vivian Diane Blomquist, Cleveland,
N.D.

Helen Ruth Boddy, Minneapolis, with
distinction

Dennis Richard Brown, St. Paul, with
high distinction

Irving Lynne Carper, B.S.B., Minne-
apolis

Mary Ellen Carroll, Edina, with dis-
tinction

Peggy Brooks Chirhart, New Brighton

Eileen Jean Clifford, Brooklyn Center

Peggy Elaine Doyle, Forest Lake

Katherine Elizabeth Eddy, Minne-
apolis, with distinction

Roberta Ellis, Minneapolis

Patricia Kay Engler, Mound

Roberta Lynn Fefferman, St. Paul

Steven D. Forsberg, Minneapolis

Dave Rieker Garwick, Roseville, with
distinction

Martha Jane Gorsky, Minneapolis,
with high distinction

Sharilyn Lee Jones Graham, Bloom-
ington, with distinction

* Certificate conferred as of June 15, 1972

Constance Beth Halpern, Minneapolis,
with distinction
Steven Wayne Hanson, B.S., Crosby-
Ironton, with high distinction
Virjean Claire Hanson, Minneapolis
Bradley Francis Harper, A.A., St. Paul,
with distinction
Frank Wesley Hetman, Jr.,
Minneapolis
Lynn Louise Iverson, Minneapolis
Lesley Louise Johnson, Minneapolis
Margaret Lee Kaufhold, Chaska, with
high distinction
Henry George Kolb, Fairfax
Virginia Lorch, West St. Paul, with
distinction
James Grant Miller, Hopkins

Ilga Mara Mouchka, Hopkins
David John Myren, A.A., Spring Lake
Park, with distinction
James Arthur Newman, Richfield
Brian Vincent O'Rourke, St. Paul
Gretchen Ann Overdahl,
Worthington, with distinction
Kay Annette Overskei, St. Paul
Linda Susan Roos, New Brighton,
with distinction
Jeanne Ellen St. Mary, Caledonia
Harold Joseph Slavik, Jr., Minneapolis
Ernesto Suarez, Miami, Fla.
Patricia Mary Toth, Minneapolis, with
distinction
Joan Christine Wallin, B.A., Minne-
apolis

Master of Education

Gene Louis Ewald, B.A., Cuyahoga
Falls, Ohio
Kerry Stern Fetter, B.A., Smethport,
Pa.
John Gondorchin, B.S., Akron, Ohio
Janet Marie Heyer, B.S., Osseo
Michael John Holinga, B.S., Dawson,
Ill.
Gerald R. Keating, Minneapolis
Robert Bruce MacNaughton, B.A.,
Geneva, N.Y.
Paul Erik Madsen, B.A., Woodridge,
Ill.
Vernon Murton Pennie, B.S., Marine-
on-St. Croix

Ronald Alan Schwartz, B.S., North-
port, N.Y.
Merton Lee Sheetz, B.S., Wrenshall
Cary Kenneth Smith, B.A., Waterloo,
Iowa
Mary Katherine Steckman, B.A.,
Minneapolis
Bruce Arthur Suneson, B.S., Burnsville
John Avery Waterhouse, B.S., Minne-
apolis
Patricia Madigan Webster, B.A.,
Golden Valley
Michael Douglas Wolter, B.S., Mun-
cie, Ind.

GENERAL COLLEGE

Associate in Arts

Adrian George Barkosky, Brooklyn
Center
Russell C. Bottelson, Jr., Minneapolis
John Russell Doerrer, St. Paul
Carl William Grewe, Jr., St. Cloud
Timothy James Keane, Minneapolis
Daniel Paul Krotz, Minneapolis
Cheryl Ann Lindstrom, Minneapolis
James Clarence Melby, St. Paul
Emma J. Metsala, Minneapolis

Cheryl Ann Norman, Minneapolis
James Russell Olson, Minneapolis
Jeffrey Chris Rasmussen, Edina
Eleanore Marie Skogerboe,
Minneapolis
Allan Bernard Stahlberg, Columbia
Heights
Joseph David Stanton, Mounds View
Sharon Lee Taylor, St. Paul
William Karl Wefring, Minneapolis

Bachelor of Applied Studies

Leonard Charles Franklin, A.A., Minneapolis	John Raymond Van Drasek, Jr., A.A., Minneapolis
Janice Irene Iten, Browerville	Betty Kristine Wilcox, A.A., Albert Lea
George Otieno Ongiri, A.A., Minneapolis	Harvey Gerald Winston, A.A., Minneapolis
Melvin Dale Root, A.A., Minneapolis	

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Ellen Adele Becker, White Bear Lake	Nancy Lynn Hernke, Cannon Falls, <i>with distinction</i>
Lillian I. Femrite, Lowry	Kaye Carol Kline, Minneapolis
Hollis Claire Hedlund, Minneapolis	Deborah Jane Ringsred, Duluth
Carole Marlene Hermanson, Fergus Falls	Mary Rosalind Roster, St. Louis Park

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Bachelor of Science

Joan Kathleen O'Connor, Minneapolis	Linda Erickson Smisek, Minneapolis
-------------------------------------	------------------------------------

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Jerry Eugene Bartlett, Shoreview	Gaynell Schandel Nelson, Minneapolis
Dennis Lee Mashuga, Minneapolis	
Richard A. Merickel, Ottertail	

Bachelor of Arts

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

Thomas Vincent Adams, A.A., St. Paul	Robert Thomas Anderson, Minneapolis
Albert Bejie Ajit, Saratok, Malaysia	Garon Glen Applegate, Stanton, N.D.
Jean French Albertal, B.A., Minneapolis	Paul Douglas Armour, West St. Paul
BetteAnn M. Anderson, G.Nurs., Minneapolis	Janet Marie Arth, Lindstrom
Kristin Lie Anderson, Minneapolis	Roman Augustoviz, Minneapolis
	Merryl Ann Backer, Monsey, N.Y.
	Allan Michael Badiner, Miami Beach, Fla.

James Doss Banister, St. Louis, Mo.
 Steven Lee Barnett, Minneapolis
 Marion Ruth Baumann, Wabasso,
 summa cum laude, Music
 Jean Anderson Berglund, St. Paul
 Paula Jean Beugen, New Hope
 Betty Ann Biernat, Columbia Heights
 Donna Kaye Bob, Minneapolis
 Steven Marshall Bob, Minneapolis
 Janice Marie Bobrowske, Annandale
 Bonnie Jean Boldt, Red Wing
 Jerold Erle Bowen, Minneapolis
 Stephen William Bowers,
 Minneapolis
 Michael C. Brady, Minneapolis
 Susan Jean Brenn, Minneapolis
 Steven Edward Brenner, Minneapolis
 Susan Louise Bridge, A.A.,
 Minneapolis
 Diane Mary Brisse, Richmond
 Jayne Ann Buck, Goodhue
 James Frederick Burkholder,
 Minneapolis
 Ramon L. Burton, St. Paul
 Janel Marie Bush, Owatonna
 Brion Paul Buttweiler, Minneapolis
 Kay Marie Byrd, Richfield
 Connie Marie Clausen, A.A.,
 Albert Lea
 Daniel Lee Coleman, Minneapolis
 Lynnette Ann Conner, A.A.,
 Northwood, Iowa
 Cynthia Ann Coulter, Chanhassen
 Robert Charles Craft, St. Paul Park
 Arland Blaine Crump, St. Paul
 Kimball Curtis Cummings, Jr., Edina
 Jackie Lynn Davis, Rockville, Md.
 Daniel Patrick DeWan, Minneapolis
 Keith Wilton Doble, St. Paul
 Cheryl Lynn Douglas, Wayzata
 Robert Alan Douglas, Wayzata
 Donald George Eckhoff,
 Minneapolis
 James Terrance Ekbohm, North St.
 Paul
 Thomas George Eliseuson, St. Louis,
 Mo.
 Manford Neal Erdahl, Jr.,
 Minneapolis
 Dean Oliver Erickson, Willmar
 Dennis Wade Erickson, Bloomington
 Barbara Ellen Langan Ericson, Orono
 William Ormand Ezell, Wrenshall
 Nancy Ferris, Duluth
 Michael Douglas Fischer,
 Minnetonka
 Oliv Albin Fluck, Nevendorf,
 Switzerland
 Lennart Charles Fors, Minneapolis
 Peter Flint Fox, Wayzata
 Elizabeth Ann Gehlen, St. Paul
 Lois Anne Glewwe, South St. Paul
 Rollin LeRoy Goldsberry,
 Minneapolis
 Thomas Stephen Griffin, St. Paul
 Barbara Jo Grossman, St. Paul
 Alyce Lynn Guilfoile, Kensington
 Barbara Gulbrandsen, White Bear
 Lake
 Gary Ralph Gunderson, Minneapolis
 CathyJo Elizabeth Gustafson, Cottage
 Grove
 Susan Lee Hagen, A.L.A.,
 Minneapolis
 Connie Lou Hager, New Brighton
 Mark Arthur Hall, Crystal
 Colleen Mary Halley, West St. Paul
 Gail Suzanne Hansen, Minneapolis
 Henry Leon Harris, Minneapolis
 Karen A. Hartman, St. Paul
 Michael Charles Hayes, A.A.,
 Rochester
 Cindy Lee Henneberg, A.A., B.B.A.,
 Rock Rapids, Iowa
 Carolyn Jo Hill, Minneapolis
 Wm. Vadim Hillebrand, A.A.,
 Minneapolis
 Stephen James Hirsch, Minneapolis
 Calvin Lee Holly, A.A., Pine Bluff,
 Ark.
 Kevin Joe Horcky, Minneapolis
 Frances Arlene Hormel, Ocheyedan,
 Iowa
 Warren F. Hudelson, Hibbing
 Willamina Katharyn Huebner,
 Minneapolis
 Thomas Jack Hulting, Bloomington
 Lynn Louise Iverson, Minneapolis
 Joel Raymond Jacobson, St. Paul
 Barry Lee Janssen, Bloomington
 Judith Ann Jensen, A.A., Blaine
 Darlene Marie Johnson, Minneapolis

Dianna Lynne Johnson, Albert Lea
 Karen Agnes Johnson, Minneapolis
 Lesley Evadne Johnson, Dellwood,
summa cum laude, Speech
 Marsha Ann Johnston, Houston
 Moya Maureen Jones, Edina
 Stephen Eric Jones, St. Paul
 Michael Wayne Jorgenson, Austin
 James Peter Kahl, Minnetonka
 David Earl Karnstedt, St. Paul
 Richard Allen Kasson, Flushing,
 Mich.
 James Davison Kaul, Owatonna
 Thomas Alan Keith, Glen Ellyn, Ill.
 Harley L. Kidman, St. Paul
 Martha King, Excelsior
 Mary Dorothy Klinnert, New York
 Mills
 Thomas Andrew Knowles,
 Bloomington
 DeNay Kobernat, St. Paul
 Betty Kohn, St. Louis Park, *magna*
cum laude, Social Welfare
 Thomas Harold Kotila, Minneapolis
 Sharon Pinney Krech, St. Paul
 John Joseph Kronawitter,
 Minneapolis
 Susan Kay Kumagai, West St. Paul
 Juliane Kvalbein, Minneapolis
 Larry Allen LaRoue, Owatonna
 Kathy Diane Larson, St. Louis Park,
cum laude, Art History
 Virginia Lynn Larson, Alexandria
 Sandra Joy Lebowitz, Minneapolis
 Richard Stephen Leyh, Edina
 Martha Smith Lindall, Glencoe,
magna cum laude, Child Psychology
 Steven Scott Loren, Minneapolis
 Sally Rae MacGowan, Eau Claire,
 Wis.
 Shirley Ann Langert Mahaney,
 Mondovi, Wis.
 Francis Joseph Mahoney, St. Paul,
cum laude, English
 Dale Harold Malzahn, Richfield
 Barbara Leone Mansfield, St. Paul
 Raimond Muiznieks, St. Paul
 Cynthia Molenda McNattin,
 Minneapolis
 Charles Joseph Meade, Minneapolis
 Daniel David Meier, Edina

Martha Jane Merriman, Minneapolis
 Walter Midson Mills, Golden Valley
 Gregory James Milne, Minneapolis
 John Michael Mistelske, St. Paul
 Thomas Michael Moccia, Wayzata
 Brian John Murphy, Murdock
 David Leo Murphy, St. Paul
 David Niles Nelson, Minneapolis,
summa cum laude, Sanskrit
 Larry Craig Nelson, Minneapolis
 Sandra Lee Ness, St. Louis Park
 Dorothy Elizabeth Olson, New
 London
 Eugene R. Oltmans, Worthington
 Susan Ossanna, Minneapolis
 Paula Ann Ostergren, Minneapolis
 Keith Ernest Ottoson, Minneapolis
 Nancy Anne Palumbo, St. Paul
 Elizabeth Anne Pawlak, Detroit Lakes
 Barbara Jean Pearson, Edina
 Andrea Jaye Perlman, A.A.,
 Minneapolis
 Helen M. Peterson, Minneapolis
 Timothy Duane Peterson, Albert Lea
 Margaret Mary Philben, St. Paul
 Allan Llewelyn Phillips, Minneapolis
 James Stanley Rasmussen, St. Paul
 Patricia Ann Ressler, Minneapolis
 Wendyn Richards, Wayzata
 Kim Leslie Robinson, Minneapolis
 Gary Joseph Rude, St. Paul
 Jeffrey William Ernest Rundgren,
 Bloomington
 William Miles Rupp, St. Paul
 Patricia Ann Ryan, Minneapolis
 Donald Scott Sargent, Golden Valley
 Holly Marie Saulon, Minnetonka
 Joseph Daniel Savageau, St. Paul
 Lynne Roberta Schuman, Marseilles,
 Ill., *summa cum laude, Political*
Science
 Diane Mary Selinski, Minneapolis,
magna cum laude, Sociology and
Social Welfare
 Celeste Marie Blum Shahidi,
 Minneapolis
 Karen Joan Singer, St. Paul
 David Owen Smith, Minneapolis
 Jeffrey Earl Smith, New Brighton
 Susan Hoffer Sorochak, Minneapolis
 Wendy Jean Sra, Minneapolis

- Wayne David Steffen, St. Paul
 Gary Edward Stifter, A.A., St. Paul
 Lynn Eugene Strehlow, St. Paul
 Kathryn L. Streufert, Minneapolis
 Jean Thomson Strickler, Minneapolis
 Darlene Ann Strom, A.A.,
 Minneapolis
 Marjorie Sullivan, Minneapolis,
summa cum laude, Psychology
 Elaine Dianne Systelien, A.A.,
 Cambridge
 Leah Lenore Taylor, St. Paul
 Richard Leo Thomas, St. Paul, *cum*
laude, American Studies
 Madge Suzanne Thorsen,
 Washington, D.C., *summa cum*
laude, English
 Jacqueline Ann Thureson,
 Brooklyn Center
 Oren Charles Tikkanen,
 Calumet, Mich.
 Judith Ann Trager, San Francisco,
 Calif., *magna cum laude,*
American Studies
 Steven Moore Tredal, St. Paul
 Tomas Trejo, A.L.A., Bolivar,
 Venezuela
 Priscilla Kay Tripp, Redwood Falls
 Raoul Noel Tsakok, B.S.B., Hong
 Kong
 Judith Ann Tschann, Minneapolis,
summa cum laude, Humanities, and
magna cum laude, English
- Michele Marie Turgeon, Robbinsdale
 Suzan Amy Turner, Richfield
 James D. Turnwall, Bloomington
 Cynthia Jean Turrentine,
 Minneapolis
 Barbara Ann Tuynman, Richfield
 Richard Lee Tvedten, A.A.,
 Minneapolis
 Linda Carol Vannelli, St. Paul
 Raymond Lee Vickery, Brooklyn
 Center
 Bette Donella Videen, Forest Lake
 Marlys Diane Vollegraaf, St. Paul
 Lynda Lee Waite, Mound
 Linda Jeanne Wasnick, Minneapolis,
cum laude, Anthropology
 Donald Keith Weber, Benson
 Margaret Elizabeth Weber, Oak Park,
 Ill.
 Vivienne Wee, B.F.A. *summa cum*
laude, Singapore
 Kenneth H. Weide, St. Paul
 Kathleen Dorothea Wessel, St. Paul
 Beth Williams, A.A., Rochester
 Mary Kay Young, St. Paul
 Reta Grace Youngman, G.D.H.,
 Minneapolis
 Charlene Janice Zabawski, St. Paul
 Jerry Frank Zelesnikar, A.A., Ely
 Kathleen Louise Zirnhelt, Red Wing

Bachelor of Elected Studies

Rollyn Dean Holger, Cambridge

Bruce Edward Mitchell, St. Paul

Bachelor of Fine Arts

Paul Alan Berget, Fort Meade, S.D.
 Ted Jeffrey Kangas, Hibbing
 Karl Francis Matson, Minneapolis

William Allen Schoppert,
 Minneapolis
 Richard Frederick Sonnen, St. Paul
 Mark Steven Wilken, Fairmont

MEDICAL SCHOOL
MEDICAL TECHNOLOGY

Bachelor of Science

Kristen Lou Anderson, Ranier
Nancy Adele Cox, Wadesboro, N.C.,
with distinction
Patricia Ann Johnson, Minneota
Janice Elizabeth Koepke,
Bloomington
Mary Elizabeth Krogh, Cromwell

Kathleen Ruth Lewandowski, St. Paul
Ray Harrison Oates, Mountain Iron
RuthAnn Marie Olsen, Minneapolis
Jane Elizabeth Richardson, Hendricks
Liga Dzintra Semelis, Minneapolis
Camille Elaine Wang, Duluth

MEDICINE

Bachelor of Science

Rex Thomas Averill, Mankato
Dale Cahill Betterton, Blaine

Robert James Strukel, Eveleth

MORTUARY SCIENCE

Bachelor of Science

Gene Duane Michaelson, Owatonna

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Wanda Faye Cuthbertson, B.S.,
Weatherford, Tex.
Justina Chibogu Emembolu, B.S.,
Minneapolis
Johanna Marie Frerichs, B.A.,
Minneapolis
Marva Stephens Graham, B.S.N.,
Winston-Salem, N.C.
Shirley Ann Heichel, B.S., Fountain
City, Wis.
Linda Ballard Hofstad, B.A., St. Paul
Terry Elwyn Hull, B.S., Antwerp,
N.Y.
Mildred Hottmann Jackson, G.D.H.,
B.S., St. Paul

DenaAnn Jordan, B.B.A., Phoenix,
Ariz.
Maria Ibanez Kelnhofer, B.A.,
Corozal, Puerto Rico
Shelly Jeanne Kranz, B.A.,
Burnsville
Patricia Mary Lentsch, B.S., St. Paul
David Albert Medin, B.S.,
Menomonee Falls, Wis.
Delana Cavitt Ruud, B.A., Auburn,
Calif.
John Thomas Solook, B.C.E.,
M.S.C.E., Jamesburg, N.J.
Francis Joseph Tsai, B.A.,
Minneapolis

INSTITUTE OF TECHNOLOGY

Bachelor of Architecture

Mark Yamada Shimamoto, B.A.,
St. Paul

Bachelor of Chemical Engineering

Philip Ting-Chun Ho, Hong Kong
Robert Roger Johnson, Red Wing

*Kwing Chiu Lee, Hong Kong, with
distinction*

Bachelor of Civil Engineering

Kenneth Robert Austin, Albert Lea
James Roger Bakken, Hudson, Wis.,
with distinction
Loren Maunu Bergstedt, Minneapolis

*Lawrence Peter Kloet, Minneapolis,
with high distinction*
Russel Melvin Schultz, St. Paul
Kim Wedin Waldof, Minnetonka

Bachelor of Electrical Engineering

Anthony Joseph Becker,
Minneapolis
Dimitrios Dokos, Amfissa, Greece,
*with distinction**

Gary Lee Gerber, Odessa
David Allen Hill, Richfield
Andrew James Holewa, Minneapolis
John Edward Peterson, Richfield

Bachelor of Environmental Design

*Jean Andre LaTondresse, Austin, with
distinction*

Bachelor of Mathematics

Charles Edward Kingsbury, Whalen

*Francis John Pinski, St. Paul, with
distinction*

Bachelor of Mechanical Engineering

Mark David Anderson, Brainerd
James Frederick Beaty, Winton
Keith Allen Bell, Austin, with
distinction

*John Allen Dahlseng, Starbuck, with
distinction*
Peter LaMarr de Cathelineau, Spicer,
with distinction

* Degree conferred as of June 15, 1972

Randal Lee Fingarson, Austin
Craig James Fischbach, Minneapolis
Alan Dale Gustafson, Maynard
Robert Leonard Harrington,
Minneapolis
Bernard Edward Nieters, Anoka, with
distinction
Scott Douglas Palmer, Blackduck,
with high distinction
Roger Gordon Pickering, Brooklyn
Center

Mark Steven Ritter, Morris, with
distinction
Russell August Roiko, Wayzata, with
distinction
Francis Gerald Stemper, Hokah, with
distinction
Hernan Subelman, Santiago, Chile
Kurt Dellas Thomforde, Goodhue
Ronn Edward Williamson,
Minneapolis

Bachelor of Mineral Engineering

Emmanuel Ademola Esho, Ilesha, Nigeria

Bachelor of Physics

Richard John Fox, Jr., Billings, Mont.

Bachelor of Science in Geology

John Edward Puffer, Mound

Mechanical Engineer

Donald Maynard Davidson, Emmons
B.M.E. '57, University of Minnesota; M.S.M.E.
M.S.E.E. Thesis: The Thermal Design of the
Gemini B. Interface Heat Exchange.*

Certificate in Science

Mary Lucille Capaul, Mahtomedi

UNIVERSITY COLLEGE

Bachelor of Arts

Roberta Sue Chamish, Minneapolis

Lawrence Joseph Hutera, Minneapolis,
with distinction

Bachelor of Science

Mattie Dell Baker, A.A., Minneapolis,
with distinction

Rita B. DeLisi, South St. Paul

Linda Rae Eggerud, Minneapolis
William Douglas Ehmke,
Minneapolis

* Degree conferred as of June 15, 1972

Stephen Lee Hartkopf, Rogers
Patricia Ann Hauser, A.A.,
Minneapolis
Sister Patrice Kiefer, Little Falls
Kenneth John Krautbauer,
Bloomington
Arthur Gary Lemke, A.A., West St.
Paul

Rodney Joseph Lipp, Linton, N.D.
Terrence Patrick Morrow, St. Paul
Colodia Owens, Memphis, Tenn.
Lynn Diane Ree, G.D.H., St. Paul
Howard Paul Silvers, St. Paul
Craig Stowell, Cokato

August Candidates for Commissions

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

Gary R. Medin, Minneapolis

President's Reception

SUMMER, 1972

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

Winter Commencement, 1972

WEDNESDAY EVENING, DECEMBER 13, 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 Daniel C. Gainey, Owatonna

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

The Honorable Fred J. Hughes, St. Cloud

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

The Honorable L. J. Lee, Bagley

The Honorable Lester A. Malkerson, Minneapolis

The Honorable George W. Rauenhorst, Olivia

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

The Honorable John A. Yngve, Plymouth

Central Executive Officers

Malcolm Moos, President

Rodney A. Briggs, Executive Assistant to the President

Stanley B. Kegler, Special Assistant to the President

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

Duane A. Wilson, Secretary to the Board of Regents

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

This Is Your University

CHARTERED in February, 1851, by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and twenty-first 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 247,000 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 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 p.m. 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 Mary L. Wyvell, Ph.D., General College, 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 | Law School |
| College of Biological Sciences | College of Liberal Arts |
| College of Business Administration | Medical School |
| Continuing Education and Extension | School of Nursing |
| School of Dentistry | College of Pharmacy |
| College of Education | School of Public Health |
| College of Forestry | Institute of Technology |
| General College | University College |
| College of Home Economics | College of Veterinary Medicine |
| | Graduate School |

During the procession Professor Fleischer will play:

IntradaGluck

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

O, say! can you see, by the dawn's early light,
What so proudly we hail'd at the twilight's last gleaming,
Whose broad stripes and bright stars, thro' the perilous fight,
O'er the ramparts we watch'd were so gallantly streaming?
And the rockets' red glare, the bombs 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): Father Patrick F. Kelly, M.Div., Chaplain, Newman Center, and member of the Council of Religious Advisers at the University of Minnesota.

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

COMMENCEMENT ADDRESS.

CONFERRING OF DEGREES: President Moos will confer certificates and degrees, including the University of Minnesota degree of Doctor of Laws, *honoris causa*.

CONFERRING OF HONORARY DEGREE: Vice President William G. Shepherd, Ph.D., Academic Administration, will present Harold E. Stassen, attorney, statesman, and former Governor of Minnesota, to President Moos for the University's honorary degree, Doctor of Laws.

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 Professor Robert G. McKinnell, Ph.D., College of Biological Sciences; Professor Robert C. Rathburn, Ph.D., General College; 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 BACHELORS' 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
- Dean Richard S. Caldecott, Ph.D., College of Biological Sciences
- Dean C. Arthur Williams, Jr., 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
- Dean Alfred L. Vaughan, Ph.D., General College
- Professor Gertrude Esteros, Ph.D., College of Home Economics
- Assistant Professor Loftus E. Becker, Jr., 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
- Assistant Dean Frank E. DiGangi, Ph.D., College of Pharmacy
- Professor Theodore A. Olson, Ph.D., School of Public Health
- Associate Dean Walter H. Johnson, Ph.D., Institute of Technology
- Dean Barbara Knudson, Ph.D., University College

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

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

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

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

Fugue in D MinorBach

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.)

December Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Donald Howard Anderson, Bayfield, Wis.

B.Ph. '55, Northland College; M.A. '60, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Communication Linkages Between Indian Communities and School Districts in Wisconsin. Major Adviser: Prof. C. P. Hooker.

Waldo Walter Hoffman, St. James

B.A. '55, St. Olaf College; M.A. '68, University of Minnesota. Major: Educational Administration. Minor: Educational Psychology. Thesis: Evaluating the Affective Impact of Minnesota Project Social Studies on Secondary School Students. Major Adviser: Prof. V. D. Mueller.

Robert Miller, Flagstaff, Ariz.

B.S. '57, M.S. '65, Utah State University. Major: Vocational Education. Minor: Educational Administration. Thesis: Engineering Pacing in Individualized Instruction. Major Adviser: Prof. Jerome Moss, Jr.

John Gerald Nee, Beloit, Wis.

B.S. with high honors '66, M.S. '67, Stout State University. Major: Industrial Education. Minor: Supporting Program. Thesis: The Development and Experimental Analysis of a Self-Instructional Program in Graphical Kinematics. Major Adviser: Prof. H. F. Nelson.

James David Parsley, St. Louis Park

B.S. '65, Kansas State University; M.S. '69, Central Missouri State College. Major: Physical Education. Minor: Educational Administration. Thesis: A Study of Selected Aspects of the Intramural Programs at Two Liberal Arts Colleges. Major Adviser: Prof. E. M. Jaeger.

Doctor of Philosophy

Merle Eugene Ace, British Columbia, Canada

B.S. '57, St. Lawrence University; M.A. '65, Columbia University Teachers' College. Major: Industrial Relations. Minor: Supporting Program. Thesis: Application of a Population-Free Scaling Technique to Attitude Data. Major Adviser: Prof. R. V. Dawis.

Krishna Rao Akkina, Munipalli, India

B.A. '63, C.R.R. College; M.A. '65, Delhi School of Economics. Major: Economics. Minor: Supporting Program. Thesis: Application of Random Coefficient Regression Models to the Aggregation Problem. Major Adviser: Prof. J. S. Chipman.

Jasim Mohammad Alsaigh, Kuwait, Kuwait

B.S. '68, University of Wisconsin; M.S. '70, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Optimization of Tapered Beams Including Geometry Dependent Loadings. Major Adviser: Prof. H. I. Epstein.

David D'Alembert Ardayfio, Accra, Ghana

B.S. with honors '68, University of Science and Technology, Ghana; M.S. '70, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Study of the Dynamics of Rotors with Three-Dimensional Rotary Inertia When Mounted on Flexible Shaft with Elastic Supports. Major Adviser: Prof. D. A. Frohrib.

Nancy Ellen Auran, Minneapolis

B.A. '64, DePauw University; M.S. '68, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Morphological and Antigenic Characteristics of *Leptospira*. Major Adviser: Prof. R. C. Johnson.

Thomas Blake Auran, Minneapolis

B.A. '65, M.S. '68, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Lipids of *Nitrobacter*. Major Adviser: Prof. E. L. Schmidt.

Jerold Oscar Bahls, Juneau, Wis.

B.S. '65, University of Wisconsin. Major: Organic Chemistry. Minor: Inorganic Chemistry. Thesis: Substituent Effects in Ring Expansion Reactions of Isatogens with Acetylenes. Major Adviser: Prof. W. E. Noland.

Theodore Barhydt Bailey, II, Washington, Iowa

B.S. '64, Iowa State University; M.S. '69, University of Minnesota. Major: Genetics. Minor: Statistics. Thesis: Utilization of Source Populations in Producing Superior Varieties in Self Fertilizing Species. Major Adviser: Prof. R. E. Comstock.

William Emmett Barkley, Bethesda, Md.

B.C.E. '61, University of Virginia; M.S. '66, University of Minnesota. Major: Environmental Health. Minor: Microbiology. Thesis: Evaluation and Development of Controlled Air Flow Systems for Environmental Safety in Biomedical Research. Major Adviser: Prof. R. G. Bond.

Donald Torrence Belgum, Glenwood

B.S.L. '54, University of Minnesota. Major: History. Minor: Political Science. Thesis: The Anatomy of State Police Power. Major Adviser: Prof. C. A. Chambers.

Russell William Belk, Bloomington

B.S.B. '67, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: An Exploratory Investigation of Situational Effects in Buyer Behavior. Major Adviser: Prof. Ivan Ross.

Rolf Sverre Bergman, Two Harbors

B.S. '66, M.A. '68, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Mass Spectrometer Investigations of Active Cesium Discharges and Afterglows in Helium-Cesium Mixtures. Major Adviser: Prof. L. M. Chanin.

Susan Mary Bergo, Wellington, New Zealand

B.S. '67, M.S. '68, Victoria University of Wellington. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Part 1: An Investigation of the Conformational Equilibria of 3- and 4-Phenylcyclopentene by Nuclear Magnetic Resonance Spectroscopy and Part 2: Non-conformational Contributions towards Magnetic Non-equivalence. Major Adviser: Prof. E. W. Garbisch.

George Bisztray, Chicago, Ill.

M.A. '62, Eötvös University. Major: Comparative Literature. Minor: Scandinavian. Thesis: The Concept of Realism in Marxist Literary Criticism. Major Adviser: Prof. P. E. Fircchow.

Allen Blitstein, Tucson, Ariz.

B.A. '62, San Fernando Valley State College. Major: Economics. Minor: Supporting Program. Thesis: Wage Differentials: Defense and Nondefense Industries. Major Adviser: Prof. N. J. Simler.

Richard Duane Bold, Aberdeen, Wash.

B.A. *cum laude* '62, Seattle Pacific College; M.Div. *summa cum laude* '68, Bethel Theological Seminary; M.A. '71, University of Minnesota. Major: Linguistics. Minor: Supporting Program. Thesis: A Mathematical Description of Tagmemics. Major Adviser: Prof. H. W. Law.

Sidney Bourne, Madison, Wis.

B.S. '67, University of Wisconsin. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Rearrangements of 5-Nitronorbornenes and 2-Nitronorbornanes. Major Adviser: Prof. W. E. Noland.

Douglas Arrington Boyd, Panhandle, Tex.

B.F.A. '62, University of Texas; M.A. '70, University of Maryland. Major: Speech-Communication. Minor: Supporting Program. Thesis: An Historical and Descriptive Analysis of the Evolution and Development of Saudi Arabian Television. Major Adviser: Prof. D. R. Browne.

Joseph David Braunstein, Minneapolis

B.A. '64, Cornell University. Major: Organic Chemistry. Minor: Supporting Program. Thesis: The Tropic Acid Rearrangement in Biosynthesis of Scopolamine and Atropine. Major Adviser: Prof. Edward Leete.

John Richard Breitlow, Winona

B.A. '53, St. Olaf College; M.A. '70, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: Rhetorical Fantasy at the Virginia Convention of 1788. Major Adviser: Prof. E. G. Bormann.

Peter Brunn, Vienna, Austria

Dip. '68, University of Erlangen-Nürnberg. Major: Fluid Mechanics. Minor: Supporting Program. Thesis: A Study of Finite Mean Free Path Effects for the Diffusion around a Convex Obstacle. Major Adviser: Prof. A. S. Berman.

John Clayton Buchanan, Oakes, N.D.

B.S. '59, U.S. Naval Academy. Major: Psychology. Minor: Educational Psychology. Thesis: The Relationship between Vocational Need and Ability Types. Major Adviser: Prof. R. G. Warnken.

Clark Robinson Burbee, Shoreview

B.S. '54, M.S. '60, University of New Hampshire. Major: Agricultural Economics. Minor: Economics. Thesis: Adjustments to Improve the Competitive Position of the Upper Midwest Turkey Industry. Major Adviser: Prof. E. F. Koller.

George Arthur Carson, Hamilton, Kan.

B.S. '61, M.S. '62, Kansas State University; M.P.H. '70, University of Minnesota. Major: Environmental Health. Minor: Biometry. Thesis: A Method of Collecting Respirable Size Fractions of Atmospheric Particles for Subsequent BaP Analysis. Major Adviser: Prof. H. J. Paulus.

Gerald Daniel Cavanaugh, Plainview

B.S. '58, Loras College; D.D.S. '67, University of Minnesota. Major: Anatomy. Minor: Dentistry. Thesis: Use of the ⁸⁶Rubidium Fractionation Technique to Study Effects of Orthodontic and Surgical Procedures on Circulation in Oral Tissues. Major Adviser: Prof. R. J. Isaacson.

Michael Chandler, Montreal, Quebec, Canada

B.S. '65, McGill University; M.S. '67, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Collective Model Analyses of Two-Particle Transfer Reactions. Major Adviser: Prof. B. F. Bayman.

Lowell Dale Chesborough, Battle Lake

B.S.B. with distinction '68, University of Minnesota. Major: Business Administration. Minor: Sociology. Thesis: Risk, Return and Inflation Hedge Characteristics of Mortgages Having Contingent Interest on Equity Participations. Major Adviser: Prof. R. B. Upson.

James William Chesebro, Minneapolis

B.A. '66, University of Minnesota; M.S. '67, Illinois State University. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Radical Revolutionary in America: Analysis of a Rhetorical Movement, 1960-1972. Major Adviser: Prof. B. L. Brock.

Niels Edward Christiansen, Cuyahoga Falls, Ohio

B.S. '66, Ohio State University; M.A. '70, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Family Socialization as Related to Adoption of Culturally Radical Values by Youth. Major Adviser: Prof. Harold Finestone.

Juet Ping Chung, Hong Kong

B.A. '62, Chung Chi College; M.A. '67, Kent State University. Major: Geography. Minor: Supporting Program. Thesis: Residential Changes of Households in Kowloon, Hong Kong. Major Adviser: Prof. J. S. Adams.

Douglas Cooper, London, England

B.Ed. '68, University of Alberta; M.A. '71, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Analysis of an Objective Measure of Moral Judgment. Major Adviser: Prof. J. S. Terwilliger.

William George Cornelius, Elk River

B.S.B. with distinction '68, M.B.A. '70, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: The Identification of Critical Decision Variables by Groups and Individuals in a Problem Solving Situation. Major Adviser: Prof. G. W. Dickson.

Thomas Clifton Correll, New Brighton

B.A. '65, M.A. '67, University of Minnesota. Major: Anthropology. Minor: Linguistics. Thesis: Ungalaklingmiut: A Study in Language and Society. Major Adviser: Prof. R. F. Spencer.

Paul Christopher Cozby, Phoenix,
Ariz.

B.A. with highest honors '68, University of California, Riverside. Major: Psychology. Minor: Supporting Program. Thesis: Social Psychology of Environmental Preferences. Major Adviser: Prof. P. C. Rosenblatt.

John Francis Cragan, Rockford, Ill.

B.S. '65, Northern Illinois University; M.A. '67, University of Missouri. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Cold War Rhetorical Vision, 1946-1972. Major Adviser: Prof. E. G. Borrmann.

Ronald Eugene Cromwell, Dodge
City, Kan.

B.S. '68, M.S. '69, Kansas State University. Major: Sociology. Minor: Supporting Program. Thesis: Multivariate Explorations in Marital and Family Power Structure: Toward a Theoretical and Methodological Clarification of Power as a Dependent Variable. Major Adviser: Prof. Reuben Hill.

Douglas James Daniels, Fridley

B.A. '66, M.A. '69, University of Minnesota. Major: French. Minor: Classics. Thesis: A Structural Analysis of Three Narrative Works of Gustave Flaubert. Major Adviser: Prof. P. W. Lock.

Judith Mary Davis, St. Paul

B.S. magna cum laude '58, St. Louis University; M.A. '66, University of Minnesota. Major: French. Minor: Classics. Thesis: Le Roman du Châtelain de Coucy: A Critical Study. Major Co-Advisers: Profs. R. F. Akehurst and P. W. Lock.

Gilles Louis Delisle, Prince Albert,
Saskatchewan, Canada

B.A. '64, University of Alberta; M.A. '67, University of California. Major: Linguistics. Minor: Anthropology. Thesis: Universals and Person Pronouns in Southwestern Chippewa. Major Adviser: Prof. Walter Lehn.

Susan Jane Desnick, Minneapolis

B.S. '66, University of Minnesota. Major: Genetics. Minor: Supporting Program. Thesis: Biochemical and Morphological Studies of the Glycosphingolipidoses: Gaucher's Disease, Fabry's Disease and Sandhoff's Disease. Major Adviser: Prof. S. C. Reed.

Larry Cloyd Dodd, Iowa Park, Tex.

B.A. summa cum laude '68, Midwestern University. Major: Political Science. Minor: Supporting Program. Thesis: Party Coalitions and Cabinet Government: A Game-Theoretic Analysis of Cabinet Formation and Maintenance in Seventeen Western Parliaments, 1918-1972. Major Adviser: Prof. W. H. Flanagan.

Margaret Peterson Doren, St. Paul

B.S. with distinction '35, M.A. '53, University of Minnesota. Major: Educational Psychology. Minor: Child Psychology. Thesis: Evaluation of Studies on Birth Order and Sibling Position. Major Adviser: Prof. J. D. Duker.

David Walter Drott, Cincinnati, Ohio

B.S.Ch.E. magna cum laude '65, University of Cincinnati. Major: Chemical Engineering. Minor: Mathematics. Thesis: An Analysis of Catalytic Chemical Reactors. Major Adviser: Prof. Rutherford Aris.

Thomas Lew Eddy, Howard Lake

B.S.M.E. '59, M.S.M.E. '66, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Non-LTE and Multithermal Equilibrium in Subatmospheric Arc Plasmas. Major Co-Advisers: Profs. Emil Pfender and E. R. Eckert.

Abdelfattah Mohamed Elserafy, Cairo,
Egypt

B.S. '58, M.S. '68, Cairo University; M.S. '71, University of Minnesota. Major: Animal Science. Minor: Supporting Program. Thesis: Nutrient Losses and Utilization of Alfalfa-Brome Forage Stored at Three Moisture Contents. Major Adviser: Prof. R. D. Goodrich.

Michael Gary Epstein, Philadelphia,
Pa.

B.A. '65, University of Pennsylvania; M.A. '68, Temple University. Major: Psychology. Minor: Child Psychology. Thesis: A Peer Relations Questionnaire for Primary Grade Children. Major Adviser: Prof. P. F. Briggs.

Glenn Roger Erickson, Minneapolis

B.S. with distinction '65, M.A. '66, University of Minnesota. Major: Educational Psychology. Minor: Sociology. Thesis: A Study of the Self-Esteem and Academic Self-Concepts of Ability and Randomly Grouped Ninth Graders. Major Adviser: Prof. F. H. Wood.

Robert Leon Erickson, Hibbing

B.E.E. '63, M.S. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Study of Electron Scattering from Germanium (100). Major Adviser: Prof. W. T. Peria.

Robert John Falk, Duluth

B.A. *cum laude* '50, M.A. '58, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Environmental Influence on the Attitude and Achievements of Freshmen Students Having Low Predicted College Achievement. Major Co-Advisers: Profs. W. H. Edson and A. W. Tamminen.

Chuen-mei Fan, Fort Collins, Colo.

B.A. '61, National Taiwan University. Major: Economics. Minor: Agricultural Economics. Thesis: Financing Local Government Expenditures: A Cost-Minimization Approach. Major Adviser: Prof. O. H. Brownlee.

DaHsuan Feng, Singapore

B.A. '68, Drew University; M.S. '71, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: Theory of Two Neutron Transfer Reactions. Major Adviser: Prof. B. F. Bayman.

John Joseph Fenton, New York, N.Y.

B.A. *cum laude* '62, Catholic University of America. Major: Biochemistry. Minor: Microbiology. Thesis: The Bacterial Metabolism of Streptomycin. Major Co-Advisers: Profs. Dolph Klein and L. M. Henderson.

Fred Harold Freese, Bloomington

B.S. '57, Northern State College; M.A. '60, University of Minnesota. Major: Education. Minor: Curriculum and Instruction. Thesis: A Comparison of the Effectiveness of a Six-Week Summer School Readiness Program with an Extended Program of Readiness Activities. Major Adviser: Prof. W. R. Cross.

James R. Frelich, Maribel, Wis.

B.S. '66, University of Wisconsin, Stevens Point; M.S. '69, University of Nevada. Major: Agronomy. Minor: Plant Physiology. Thesis: Effect of Environmental Factors on Indole Alkaloids in Reed Canarygrass, *Phalaris arundinacea* L. Major Adviser: Prof. G. C. Marten.

Kenton Ronald Frohrip, St. Cloud

B.S. '60, M.Ed. '61, South Dakota State University. Major: Education. Minor: Music. Thesis: A Videofluorographic Analysis of Certain Physiological Factors Involved in Performance of Selected Exercises for Trombone. Major Adviser: Prof. E. M. Turrentine.

Paul Kent Froman, Salina, Kan.

B.A. '66, Wheaton College. Major: Child Psychology. Minor: Psychology. Thesis: The Development of a Mental Retardation Scale Using the Personality Inventory for Children. Major Adviser: Prof. R. D. Wirt.

Elliott Stuart Goldstein, Waterbury, Conn.

B.S. '67, University of Hartford; M.S. '70, University of Minnesota. Major: Genetics. Minor: Biochemistry. Thesis: Protein Synthesis during Early Development in *Drosophila melanogaster*. Major Adviser: Prof. L. A. Snyder.

G. Gopalakrishna, Bangalore, India

B.E. '63, Indian Institute of Science; M.S.E.E. '70, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Noise in Mosfets in the Hot Electron Regime. Major Adviser: Prof. Aldert van der Ziel.

Robert James Gregory, Bellevue, Wash.

B.S. *cum laude* '66, University of Washington. Major: Psychology. Minor: Internal. Thesis: The Actuarial Description of Delinquency. Five MMPI Code Types. Major Adviser: Prof. R. D. Wirt.

Roland Redmond Griffiths, El Cerrito, Calif.

B.A. *cum laude* '68, Occidental College. Major: Psychology. Minor: Pharmacology. Thesis: The Effects of Pentobarbital on Extinction Responding in Rats. Major Adviser: Prof. T. I. Thompson.

Robert Alexander Grinchuk, Bethlehem, Pa.

B.A. '62, Lehigh University; M.A. '63, New York University. Major: American Studies. Thesis: The Plays of William Dunlap: A Study of Dramatic Failure and the Shift in Popular Taste, 1795-1805. Major Adviser: Prof. J. J. Kwiat.

D. Shelton A. Gunaratne, Weligama, Ceylon

B.A. '62, University of Ceylon; M.A. '68, University of Oregon. Major: Mass Communication. Minor: Supporting Program. Thesis: Mass Media Information, Social Differentiation and Modernization: A Longitudinal Survey of Four Ceylonese Villages. Major Adviser: Prof. R. E. Carter, Jr.

Vijay Gupta, Delhi, India

B.Tech. '68, Indian Institute of Technology, Delhi; M.S. '69, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Thesis: A Model for the Fluid Mechanical Excitation of the Vocal Cords. Major Co-Advisers: Profs. T. A. Wilson and G. S. Beavers.

James Edward Haefner, Urbana, Ill.

B.S.C. '66, DePaul University; M.B.A. '68, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: The Perception of Deception in Television Advertising and Exploratory Investigation. Major Adviser: Prof. Ivan Ross.

Taeyoul Hahn, Taegu City, Korea

B.A. '62, Seoul National University; M.A. '69, University of Minnesota. Major: Mass Communication. Minor: Supporting Program. Thesis: Structural Control of the Press: An Exploration in Organizational Analysis. Major Adviser: Prof. D. M. Gillmor.

Robert Randolph Hall, Bloomington

B.A. cum laude '50, M.S. '51, University of Miami. Major: Psychology. Minor: Educational Psychology. Thesis: The Relationship of Selected Moderator Variables to Rehabilitation Outcome. Major Adviser: Prof. R. G. Warnken.

Jim R. Hancock, Dallas, Tex.

B.S. '54, M.Ed. '58, North Texas State University. Major: Theatre Arts. Minor: Education. Thesis: The Use of Time by Absurdist Playwrights: Beckett, Ionesco, Genet, and Pinter. Major Co-Advisers: Profs. R. D. Moulton and V. M. Fredricks.

Russell Lee Hankins, Minneapolis

B.A. '59, M.A. '62, University of New Mexico. Major: Educational Administration. Minor: History. Thesis: A Dynamic Simulation Model for Student Flow Analysis in a Professional College. Major Adviser: Prof. W. M. Ammentorp.

Roger James Harned, Terre Haute, Ind.

A.B. '64, M.A. '65, Indiana University. Major: Political Science. Minor: Supporting Program. Thesis: White Attitudes toward Racial Integration in the United States, 1964-1968. Major Adviser: Prof. W. H. Flanigan.

Helga Harries

Dip. '65, University of Hamburg; M.A. '68, University of California. Major: Linguistics. Minor: Supporting Program. Thesis: Cleft Sentences, Questions, and Presupposition Sharing. Major Co-Advisers: Profs. Walter Lehn and L. G. Hutchinson.

David Wells Harvey, New Orleans, La.

B.B.A. '66, University of Wisconsin; M.S. '69, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: A Test of the Usefulness of Financial Statements Prepared Unification-Theory-Derived Aggregation Criterion. Major Adviser: Prof. C. R. Purdy.

Theodore Roy Hatcher, Berrien Springs, Mich.

B.A. '57, Andrews University; M.A. '60, Boston College. Major: Mathematics. Minor: Statistics. Thesis: Aposteriori Error Bounds for Matrix Iterative Methods of a Certain Type. Major Adviser: Prof. H. F. Weinberger.

Mark Irving Helbling, Altadena, Calif.

B.A. '61, University of California; M.A. '64, San Francisco State College. Major: American Studies. Thesis: Primitivism and the Harlem Renaissance. Major Adviser: Prof. A. H. Spear.

Darwin Dale Hendel, Wilmont

B.A. '67, St. John's University. Major: Psychology. Minor: Educational Psychology. Thesis: Paired Comparisons: Intransitivity, Inconsistency and Compulsivity. Major Adviser: Prof. R. V. Dawis.

Richard Arthur Hendrickson, Minneapolis

B.Phys. '64, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: The Electron Echo Experiment: Observations of the Charge Neutralization of the Rocket and Analysis of the Echoes from Electrons Artificially Injected into the Magnetosphere. Major Adviser: Prof. J. R. Winckler.

Ronald Alton Henry, Jr., La Crosse, Wis.

B.S. '65, Wisconsin State University. Major: Microbiology. Minor: Biochemistry. Thesis: Ecological Studies on the Genus *Leptospira*. Major Adviser: Prof. R. C. Johnson.

William Keith Holcomb, Zanesville, Ohio

B.S. '68, Ohio State University. Major: Physics. Minor: Mathematics. Thesis: Optical Absorption in Simple Liquids. Major Adviser: Prof. J. W. Halley.

John Boyd Holland, Fargo, N.D.

B.F.A. '55, Texas Christian University; M.A. '59, Harvard University. Major: Education. Minor: Studio Arts. Thesis: Differences in Aesthetic Sensitivity through Teaching Selected Elements of Design through Painting in Contrasting Groups of Fifth Grade Students. Major Adviser: Prof. W. R. Hastie.

Cheng-chi Huang, Yangmei, Taiwan

B.S.E. '65, National Taiwan University; M.S. '69, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Output Sufficient Modules for Uniform Decomposition of Synchronous Sequential Machines. Major Adviser: Prof. R. Y. Kain.

Harvey Morton Hummel, Minneapolis

B.A. '53, St. Olaf College; M.A. '59, University of Michigan. Major: Education. Minor: Supporting Program. Thesis: The Relationships between Success in Teaching and Certain Personality Factors, Persistence in Teaching, and Educational Attainment of Experienced Secondary Teachers. Major Co-Advisers: Profs. G. M. Mork and C. H. Boeck.

Martin Adrian Huntley, Madison, Wis.

B.A. '66, University of Sussex; M.A. '68, Banaras Hindu University. Major: Philosophy. Minor: Supporting Program. Thesis: Implicature and Semantic Theory. Major Adviser: Prof. H. E. Mason.

Teh-ning Chu Hwang, Soochow, China

B.S. '64, National Taiwan University; M.S. '68, University of Minnesota. Major: Botany. Minor: Biochemistry. Thesis: Carbohydrate and Nitrogen Metabolism in Autotrophically and Heterotrophically Grown *Hydrogenomonas facilis*. Major Co-Advisers: Profs. D. C. Pratt and T. K. Soulen.

Thomas John Inglis, St. Catharines, Ontario, Canada

B.A. '60, B.Ed. '64, University of Saskatchewan; M.A. '68, University of Minnesota. Major: Education. Minor: Music. Thesis: The Effects of Unfamiliar Music on the Electroencephalograms of Secondary School Music Students and Non-Music Students. Major Adviser: Prof. E. M. Turrentine.

Harvey Stuart Irlen, Evanston, Ill.

B.S. '62, Northwestern University; M.A. '66, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: Henry James and the Victorian Novel. Major Co-Advisers: Profs. Martin Roth and B. R. Bowron.

Jiya Lal Jain, Delhi, India

B.S. '65, Punjab Engineering College; M.S.I.E. '70, University of Minnesota. Major: Operations Research. Minor: Mathematics. Thesis: Optimal Design of Hospital Solid Waste Handling Systems. Major Adviser: Prof. S. R. Arora.

Pavel Jelen, Prague, Czechoslovakia

B.S.M.E. '65, Czech Technical University. Major: Food Science and Industries. Minor: Industrial Engineering. Thesis: An Investigation of Certain Factors Determining the Applicability of High Temperatures in Industrial Crystallization of Lactose from Whey. Major Adviser: Prof. S. T. Coulter.

Linda Beir Johnson, Mahwah, N.J.

B.S. cum laude '64, St. Lawrence University; M.A. '67, Columbia University. Major: Psychology. Minor: Supporting Program. Thesis: Psychiatric Diagnosis, the MMPI, Psychiatric Symptom Clusters, and Severity of Disturbance in Adolescence as Predictors of Adult Adjustment. Major Adviser: Prof. A. J. Hafner.

Ronald Clifford Johnson, Harrow, Ontario, Canada

B.A. '66, M.A. '69, University of Windsor. Major: Geography. Minor: Supporting Program. Thesis: The Effect of Contemporary Thought upon Park Policy and Landscape Change in Canada's National Parks, 1885-1911. Major Adviser: Prof. Yi-Fu Tuan.

Gary Lee Jones, Sioux City, Iowa

B.S. '68, Iowa State University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: A Filtration Theory of Atherogenesis. Major Adviser: Prof. K. H. Keller.

Kenneth Wing Cheung Kan, Hong Kong

B.A. '66, University of Minnesota. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Steroidogenesis in Mammalian Adrenal. Major Adviser: Prof. Frank Ungar.

Jack Albert Kavanagh, Sheldon, Wis.

B.S. '66, Wisconsin State University, Eau Claire; M.A. '69, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Monte Carlo Study of the Polynomial Discriminant Method for Pattern Recognition. Major Adviser: Prof. R. O. Collier.

Brian Dudley Kayser, Springfield, Ill.

A.B. '69, University of Illinois; M.A. '71, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Educational Aspirations of Rural High School Students: A Markovian Approach Using Independent Variables and Panel Data. Major Adviser: Prof. G. W. Bohmstedt.

Bruce Arnold Koenig, Chicago, Ill.

B.F.A. '64, Goodman Theatre; M.A. '66, University of South Dakota. Major: Theatre Arts. Minor: Supporting Program. Thesis: Theatre Royal, Drury Lane: An Architectural Study. Major Adviser: Prof. Wendell Josal.

Mary Lyndon Koss, St. Paul

A.B. with high distinction '70, University of Michigan. Major: Psychology. Minor: Supporting Program. Thesis: MMPI Item Content and Identification of Crisis Situations. Major Adviser: Prof. J. N. Butcher.

Paul Kraatz, Skokie, Ill.

B.S. '62, M.S. '64, University of Illinois. Major: Geology. Minor: Supporting Program. Thesis: Cleavage and Deformation of Strontium Fluoride. Major Adviser: Prof. T. Z. Zol-tai.

Nicholas Charles Kraus, Bayport, N.Y.

B.S. '67, State University of New York at Stony Brook. Major: Physics. Minor: Mathematics. Thesis: The Boson and Particle Vibration Coupling Approximations Applied to the Exactly Soluble Pairing Plus Monopole Models. Major Adviser: Prof. Morton Hamermesh.

Wendell B. Kringen, Bemidji

B.A. '62, Bemidji State College; M.S. '67, University of Minnesota. Major: Entomology. Minor: Supporting Program. Thesis: Mobilization of Proteins in Vitellogenesis of *Galleria Mellonella*. Major Adviser: Prof. M. A. Brooks.

**Keith Vernon Kuhlemeier, Rockford,
Iowa**

B.S. '64, M.S. '66, Iowa State University. Major: Physiology. Minor: Supporting Program. Thesis: Cardiovascular Responses and Regulation during Static Work and Dynamic Work, Singly and in Combination. Major Adviser: Prof. H. L. Taylor.

Peter William Kuipers, Minneapolis

B.S. '67, D.D.S. '69, University of Minnesota. Major: Anatomy. Minor: Dentistry. Thesis: Light and Electron Microscopic Observations on Odontoclasts in Rabbits. Major Adviser: Prof. Anna-Mary Carpenter.

Eddie Chen-Yu Kuo, Taipei, Taiwan

B.A. '62, National Chengchi University; M.A. '66, University of Hawaii. Major: Sociology. Minor: Mass Communication. Thesis: Bilingual Socialization of Preschool Chinese Children in the Twin Cities. Major Adviser: Prof. A. L. Johnson.

Bernard Arthur Larson, Bloomington

B.E. '46, Moorhead State College; M.A. '47, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Equal Protection of the Law and Equality of Educational Opportunity. Major Adviser: Prof. C. P. Hooker.

Wing-Yan Lau, Kowloon, Hong Kong

B.S. with distinction '64, Chung Chi College; M.S. '68, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: Formulation of Bethe-Salpeter Equation in Electron-Proton Deep Inelastic Scattering. Major Adviser: Prof. Hiroshi Suura.

Helen Goff LeBlanc, Charleston, S.C.

B.A. '56, Talladega College; M.A. '60, University of Illinois. Major: Education. Minor: French. Thesis: The Response to Students' Needs in Foreign Language Instruction in Colleges and Universities Predominantly Attended by Afro-American Students. Major Adviser: Prof. E. M. Birkmaier.

**Jacques Le Lorier, Mexico City,
Mexico**

Bach. '58, University of Poitiers; M.D. '66, National University of Mexico. Major: Pharmacology. Minor: Biostatistics. Thesis: Pharmacological Studies on Autonomic Neuro-Effector Mechanisms in the Heart. Major Adviser: Prof. F. E. Shideman.

Paul Lermack, Philadelphia, Pa.

A.B. '64, M.A. '67, Temple University. Major: Political Science. Minor: Supporting Program. Thesis: Summary and Special Courts-Martial. Major Adviser: Prof. H. W. Chase.

Gary William Litman, Minneapolis

B.A. '67, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Evolution of Immunoglobulin. Major Adviser: Prof. R. A. Good.

**Stephen Frederick Litton,
Minneapolis**

B.A., B.S. '65, D.D.S. '67, University of Minnesota. Major: Anatomy. Minor: Dentistry. Thesis: Effects of Ascorbic Acid Deficiency on Various Structures of the Periodontium during Orthodontic Tooth Movement. Major Adviser: Prof. P. K. Dixit.

Yu-Ying Liu, Taipei, Taiwan

B.S. '67, Taiwan Normal University. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Biosynthesis and Metabolism of Nicotine in Tobacco Plant. Major Adviser: Prof. Edward Lecte.

Rong-Rong Lo, Taipei, Taiwan

B.A. '67, Tunghai University; M.A. '69, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Marriage Patterns and Modernization in Taiwan. Major Adviser: Prof. D. A. Martindale.

Charles Edward Long, St. Paul

B.S. '65, University of Wisconsin; M.S. '68, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: A Photometric Determination of the Charge Spectrum of Low Energy Primary Cosmic Rays in the Region $12 \leq Z$. Major Adviser: Prof. C. J. Waddington.

**Ruth Evelyn Groves Ludeman,
Richfield**

A.B. '59, Colorado State College; M.A. '61, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: Personality Characteristics of Elementary School Teachers as Related to their Willingness to Supervise Student Teachers. Major Adviser: Prof. G. M. Mork.

David Herbert Lund, Roseau

B.S. *summa cum laude* '62, Bemidji State College; M.S. '65, University of North Dakota. Major: Philosophy. Minor: Educational Psychology. Thesis: Private Language, the Ego-centric Outlook, and the Nature of Mind. Major Adviser: Prof. May Brodbeck.

Richard Jack Lundman, Chicago, Ill.

B.A. '66, Beloit College; M.A. '68, University of Illinois. Major: Sociology. Minor: Anthropology. Thesis: Police-Citizen Encounters: A Symbolic Interactionist Analysis. Major Adviser: Prof. J. P. Clark.

Lee Melvyn Marcus, Philadelphia, Pa.

A.B. '67, University of Pennsylvania. Major: Psychology. Minor: Child Psychology. Thesis: Attention, Set, and Risk-taking in Disturbed, Vulnerable and Normal Children. Major Adviser: Prof. Norman Garnezy.

**William Ewart Martin, Prince Rupert,
British Columbia, Canada**

M.D. '60, University of British Columbia; M.S. '66, University of Illinois. Major: Neurology. Minor: Pharmacology. Thesis: The Metabolism of ^3H -Tyrosine and ^3H -Dihydroxyphenylalanine in Parkinson's Disease. Major Adviser: Prof. A. B. Baker.

**Raj Bahadur Mathur, New Delhi,
India**

B.A. '57, M.A. '60, Panjab University. Major: Geography. Minor: Supporting Program. Thesis: Spatial Planning for Development: A Study of the Delhi Region. Major Adviser: Prof. J. R. Borchert.

Barbara Diane Mattson, Iron

B.A. *summa cum laude* '65, M.A. '67, University of Minnesota. Major: English. Minor: American Studies. Thesis: A Study of Robert Herrick's *Hesperides*. Major Adviser: Prof. L. H. Unger.

Patrick Dennis McDonough, Eveleth

A.B. *cum laude* '64, Moorhead State College; M.A. '66, University of Kansas. Major: Theatre Arts. Minor: Supporting Program. Thesis: A Comparative, Descriptive Study of Management Planning Practices in the Tyrone Guthrie Theater and the Milwaukee Theater. Major Adviser: Prof. Wendell Josal.

**William Dean McKown, Topeka,
Kan.**

B.A. '66, Sterling College; M.A. '68, Sam Houston State University. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Some Reactions of Dihalocyclopropyl Sulfones. Major Adviser: Prof. W. E. Parham.

Maia Pank Mertz, Minneapolis

B.S. '64, M.A. '68, University of Minnesota. Major: Education. Minor: English. Thesis: Responses to Literature among Adolescents, English Teachers, and College Students: A Comparative Study. Major Adviser: Prof. R. N. Odland.

Gerald Marvin Metz, Minneapolis

B.A. '65, M.A. '67, University of Rhode Island. Major: English. Minor: Philosophy. Thesis: The Moment of Timelessness in the Poetry of William Butler Yeats. Major Adviser: Prof. L. H. Unger.

Preston Joel Miller, St. Louis Park

B.A. *summa cum laude* '62, University of Minnesota. Major: Economics. Minor: Mathematics. Thesis: The Transactions Demand for Money in a Three-Asset Economy. Major Adviser: Prof. Leonid Hurwicz.

Corinna Rita Moncada, Minneapolis

B.S. '58, College of St. Teresa; M.A. '63, Cert. of Spec. in Ed. '67, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Longitudinal Observational Study of the Behavior of Low-Income Preschool Children at Home and in School Compared with the Behavior of Similar but Non-Schooled Children at Home. Major Adviser: Prof. J. E. Turnure.

**Thomas Lee Murdock, Silver Spring,
Md.**

B.S. with honors '68, North Carolina State University; M.S. '70, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: Measurements of Infrared Radiation from Mercury and the Moon. Major Adviser: Prof. E. P. Ney.

Howard Bryant Murray, Moorhead

B.S. '66, University of Minnesota; M.S. '67, Moorhead State College. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Locus of Control and Pattern of Performance on Teachers' Evaluation of a Student. Major Adviser: Prof. R. A. Weinberg.

Marilyn Jo Naylor, River Falls, Wis.

B.S. '60, Baldwin-Wallace College; M.S. '67, University of Wisconsin, River Falls. Major: Education. Minor: Supporting Program. Thesis: Reading Skill Variability within and among Fourth, Fifth and Sixth Grade Students Attaining the Same Reading Achievement Score. Major Adviser: Prof. Robert Dykstra.

Thomas John Noer, St. Paul

B.A. '66, Gustavus Adolphus College; M.A. '68, Washington State University. Major: History. Minor: Supporting Program. Thesis: The United States and South Africa, 1870-1914. Major Adviser: Prof. K. J. Brauer.

Byron John Nordstrom, Minneapolis

B.A. '65, Lawrence University; M.A. '68, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Swedish Labor and Foreign Policy, 1933-1939. Major Adviser: Prof. J. K. Munholland.

Bun-ichiro Ono, Kyoto, Japan

B.A. '66, M.A. '68, Kyoto University. Major: Genetics. Minor: Biochemistry. Thesis: Plasma Membrane Protein from the SL Mutant of *Neurospora Crassa*. Major Adviser: Prof. V. W. Woodward.

Michael Allen Oothoudt, Minneapolis

B.Phys. '68, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: A Study of the (p,t) Reactions on Nuclei in the Rare Earth Region. Major Adviser: Prof. N. M. Hintz.

Risa Ileen Palm, Minneapolis

B.A., B.S. with high distinction '64, M.A. '70, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: The Concept of Community: A Geographical Perspective. Major Adviser: Prof. F. E. Lukermann.

Daniel Frank Paskewitz, Lemoyne, Pa.

B.A. '65, M.A. '68, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Development of Likert-type Scales to Assess Reaction of Pre-education Students to a Competitive Selection Process in a College of Education. Major Adviser: Prof. M. L. Snoke.

Theodore Bernard Pedeliski, Grand Forks, N.D.

B.S. '57, Dickinson State College; M.A. '66, University of North Dakota. Major: Political Science. Minor: Supporting Program. Thesis: The Status and Criminal Justice Policies, 1960-1970: Orientations toward Due Process and Crime Control. Major Adviser: Prof. Samuel Krislov.

Ronald Carl Petersen, Anoka

B.A. with high honor '68, Hamline University. Major: Psychology. Minor: Educational Psychology. Thesis: A Cognitive Approach to Imagery. Major Adviser: Prof. P. W. Fox.

Paul Kermit Peterson, Flint, Mich.

B.A. '64, University of Minnesota. Major: Philosophy. Minor: Psychology. Thesis: Meaning and Wish Fulfillment: An Analysis of Freud's Explanation of Dreaming. Major Adviser: Prof. H. E. Mason.

Donald Robert Prescott, Princeton

B.S. with distinction '65, M.A. '70, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: A Comparison of the Attitudinal Changes of In-Service Teachers Participating in an Experimental Psychology of Drug Abuse Course. Major Adviser: Prof. R. T. Lambert.

Paul Thomas Purinton, Manhattan, Kan.

B.S. '63, D.V.M. '65, Kansas State University. Major: Veterinary Anatomy. Minor: Neurology. Thesis: A Morphologic and Electrophysiologic Investigation of the Pelvic Ganglion of the Rat. Major Adviser: Prof. T. F. Fletcher.

Judith Robinson Pyclik, Logan, Utah

B.S. '64, Utah State University; M.A. '66, University of Washington. Major: Speech-Communication. Minor: History. Thesis: Business Rhetoric in the Gilded Age: A Study of Rhetorical Function: 1870-1900. Major Adviser: Prof. B. L. Brock.

Maddukuri Srvek Rao, Malakapalli, India

B.A. '62, M.A. '63, Andhra University. Major: Economics. Minor: Supporting Program. Thesis: A Short Run Analysis of the Impact of Devaluation in Less Developed Countries. Major Adviser: Prof. Edward Coen.

Ratnammal L. Reddy

B.S. '63, M.S. '65, University of Kerala. Major: Organic Chemistry. Minor: Supporting Program. Thesis: The Chemistry of 1,3-Methylene Bridged Quinolophanes. Major Adviser: Prof. W. E. Parham.

Stephen Rester, Clifton, Tex.

B.S.Ch.E. '67, University of Texas. Major: Chemical Engineering. Minor: Mathematics. Thesis: Topics in Diffusion and Reaction. Major Adviser: Prof. Rutherford Aris.

**Robert Hunt Keeler Riegel,
Minneapolis**

B.A. '66, M.Ed. '68, University of Virginia. Major: Educational Psychology. Minor: Speech-Communication. Thesis: The Effects of Organizational Versus Content Centered Training on the Learning and Retention Abilities of Young Handicapped Children. Major Adviser: Prof. F. H. Wood.

**Robert Ashley Robinson, New
Zealand**

B.V.S. '55, University of Sydney; M.P.H. '71, University of Minnesota. Major: Veterinary Microbiology. Minor: Epidemiology. Thesis: Tonsillar Infection and Secretory Antibodies in Salmonella Infected Rabbits. Major Adviser: Prof. K. I. Loken.

Robert Winston Ross, Minneapolis

B.A. '48, Westmont College; M.A. '55, Claremont Graduate School. Major: American Studies. Thesis: A Content Analysis of Student Issues as Reported in *The New York Times*, *The New York Review of Books*, and *The Chronicle of Higher Education*, September, 1967-June 1969. Major Adviser: Prof. G. S. Hage.

Sharon Goldman Rubin, Chicago, Ill.

B.A. '65, M.A. '66, University of Chicago. Major: American Studies. Thesis: Alfonso Lanelli: The Career of an Artist in the American Social Context, 1906-1965. Major Adviser: Prof. D. R. Torbert.

Judith Ann Runkle, Dallas, Wis.

B.S. '63, Wisconsin State University, River Falls; M.S. '64, Illinois State University. Major: Speech-Communication. Minor: Supporting Program. Thesis: A Survey of the Small Group Techniques Used in College Beginning Speech Classes. Major Adviser: Prof. E. C. Bormann.

**Yousry Abd El-Rehim Sayed, Cairo,
Egypt**

B.S. '64, Ein Shams University; M.S. '67, Cairo University. Major: Organic Chemistry. Minor: Supporting Program. Thesis: Conformations of Substituted 2,5-Dihydrothiophenes and Their Oxides from NMR Spectroscopy. Major Adviser: Prof. R. M. Dodson.

Carlyle Perry Schenk, Sauk Rapids

B.S. with distinction '49, M.A. '61, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: A Study of Vocational Interest, Training, and Pursuits of Inmates, as Related to their Institutional Experiences, Paroled from the Minnesota State Reformatory at St. Cloud, Minnesota between January 1, 1969 and December 31, 1969. Major Adviser: Prof. R. P. Marvin.

Peter Henry Schneeman, St. Paul

B.A. cum laude '59, M.A. '67, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: Ezra Pound and the Act of Translation. Major Adviser: Prof. G. T. Wright.

**Gregory Wayne Schwing, Cleves,
Ohio**

B.S. '69, Purdue University. Major: Organic Chemistry. Minor: Supporting Program. Thesis: A Biogenetic Approach to the Synthesis of the Lycopodium Alkaloids. Major Adviser: Prof. R. F. Borch.

Steven Thomas Seitz, Litchfield

A.B. '69, University of Chicago. Major: Political Science. Minor: Supporting Program. Thesis: Ideology and Public Policy: A Reconsideration of Mass Belief Systems and the Formation of Public Policy. Major Adviser: Prof. B. E. Lippincott.

Surjit Singh Sidhu, Ludhiana, India

B.S. '52, Punjab University; M.S. '66, Utah State University. Major: Agricultural Economics. Minor: Economics. Thesis: Economics of Technical Change in Wheat Production in Punjab (India). Major Adviser: Prof. L. R. Martin.

Dayle Ann Sly, West Dundee, Ill.

B.S. '62, M.S. '67, Bradley University. Major: Biochemistry. Minor: Supporting Program. Thesis: Structural Studies on Concanavalin A. Major Adviser: Prof. I. E. Liener.

Roscoe Conklin Smith, Dallas, Tex.

B.S. '58, Bishop College; M.A. '65, North Texas State University. Major: Educational Administration. Minor: Supporting Program. Thesis: An Evaluation of Four Reading Instructional Programs to Determine the Most Effective Approach to Use with Selected Inner-City Students. Major Adviser: Prof. V. D. Mueller.

John Raymond Snyder, Idaho Falls,
Idaho

B.S. '65, Iowa State University; M.S. '67, University of Minnesota. Major: Genetics. Minor: Biochemistry. Thesis: Replication of Yeast Mitochondrial DNA in Zygotes of Cytoplasmic Petite by Grande. Major Adviser: Prof. V. W. Woodward.

Alexia Henderson Sontag, Cyrus

B.A. magna cum laude '64, Pacific Lutheran University; M.A. '67, University of Minnesota. Major: Mathematics. Minor: Philosophy. Thesis: Variation of the Green's Function Due to Quasi-Conformal Distortion of the Region. Major Adviser: Prof. Edgar Reich.

Allan Murray Sourkes, Montreal,
Winnipeg, Canada

B.S. '65, McGill University. Major: Physics. Minor: Mathematics. Thesis: A Study of ^{80}V Using the Direct Reactions ^{40}Ti ($^3\text{He}, \text{D}$) and ^{40}V (D, T). Major Adviser: Prof. N. M. Hintz.

Ira Spar, New Rochelle, N.Y.

B.A. '63, American University; M.A. '66, Michigan State University. Major: History. Minor: Supporting Program. Thesis: Studies in Neo-Babylonian Economic and Legal Texts. Major Adviser: Prof. T. B. Jones.

Richard Henry Stasiak, Chicago, Ill.

B.A. cum laude '66, St. Mary's College. Major: Zoology. Minor: Supporting Program. Thesis: The Morphology and Life History of the Finescale Dace, *Perille Neogaea*, in Itasca State Park, Minnesota. Major Adviser: Prof. J. C. Underhill.

Joseph Michael Steger, Minneapolis

B.A. '66, St. Mary's College. Major: Psychology. Minor: Educational Psychology. Thesis: Prediction of the Stability of Vocational Needs in Adult Males: A Methodological Study. Major Adviser: Prof. R. G. Warnken.

Wayne Leslie Stevenson, Oshkosh,
Wis.

B.A. '67, Ripon College. Major: Economics. Minor: Supporting Program. Thesis: Earning, Ability, and Background as Related to Post High School Career Plans. Major Adviser: Prof. A. O. Krueger.

Gerald Lloyd Storm, Merrill, Wis.

B.S. '59, Wisconsin State University, Stevens Point; M.S. '63, Montana State University. Major: Ecology. Minor: Supporting Program. Thesis: Population Dynamics of Red Foxes in North-Central United States. Major Adviser: Prof. D. B. Siniff.

Heinrich Uwe Stuecher, St. Paul

Staat. summa cum laude '68, M.A. '71, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Treatment Study on Psychotic Children with Autistic Traits. Major Adviser: Prof. F. H. Wood.

Lonnie Merlin Sutton, Beaver Dam,
Wis.

B.S. '68, Wisconsin State University, Platteville; M.S. '71, University of Minnesota. Major: Plant Breeding. Minor: Supporting Program. Thesis: An Evaluation of Growing Degree Days and Black Layer as a Method of Rating Maturity in Corn. Major Adviser: Prof. D. C. Rasmusson.

M. Frances Taylor, Bloomington, Ind.

B.A. '56, Indiana University; M.A. '61, Middlebury College. Major: Education. Minor: Spanish. Thesis: An Analysis of the Assumptions Underlying the Testing of Reading Comprehension in the MLA Cooperative Foreign Language Test, Form LA, Spanish. Major Adviser: Prof. E. M. Birkmaier.

Ruth Bridges Teeter, St. Paul

B.A. cum laude '49, M.S.W. '51, University of Minnesota. Major: Social Work. Minor: Sociology. Thesis: A Study of Community Tenure, Social Participation and Patterns of Alienation as Related to Continuity of Service for Formerly Hospitalized Mental Patients. Major Adviser: Prof. J. C. Kidneigh.

Stuart John Thorson, Minneapolis

B.A. '68, Macalester College. Major: Political Science. Minor: Supporting Program. Thesis: The Role of Mathematics in Political Theory Construction. Major Adviser: Prof. R. T. Holt.

Robert Eliot Trager, San Francisco,
Calif.

B.A. cum laude '66, San Francisco State College; M.A. '71, University of Minnesota. Major: Mass Communication. Minor: Supporting Program. Thesis: Adolescent Audience System Reactions to Mass Media Messages Regarding Drug Education. Major Adviser: Prof. D. M. Gillmor.

Tseng-nan Tsai, Taipei, Taiwan

B.S.E. '65, Taiwan Cheng-Kung University; M.S. '67, National Chiao-Tung University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Impedance and Noise Measurement of Double Injection Space Charge Limited Diode. Major Adviser: Prof. Aldert van der Ziel.

George Walter Ulseth, Loudonville,
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B.A. '69, University of California, Los Angeles. Major: Microbiology. Minor: Ecology. Thesis: Non-Specific Staining in the Use of Fluorescent Antibody for Microbial Ecology. Major Adviser: Prof. E. L. Schmidt.

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B.S. '66, University of Kentucky. Major: Medical Technology. Minor: Microbiology. Thesis: Assay of Antibiotics in Biological Fluids Using Thin-Layer Chromatography. Major Adviser: Prof. D. J. Blazevic.

Larry Chester Gundlach, Rosemount

B.S. '65, University of Wisconsin. Major: Animal Science. Minor: Biometry. Thesis: Influence of Body Type on Porcine Development and Composition. Major Adviser: Prof. C. E. Allen.

Ney Guzman, Cali, Colombia

M.D. '66, M.P.H. '69, University of Valle. Field of Concentration: Epidemiology. Major Adviser: Prof. L. M. Schuman.

Elaine Jean Handelman, St. Paul

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

Clair Lewis Henke, Muscatine, Iowa

D.V.M. '64, Iowa State University. Field of Concentration: Veterinary Microbiology. Major Adviser: Prof. B. S. Pomeroy.

Michael Warren Hinz, Worthington

B.Phys. with high distinction '71, University of Minnesota. Field of Concentration: Environmental Health. Major Adviser: Prof. D. E. Barber.

Edward Shi Ping Hsi, St. Paul

B.S. '63, California Institute of Technology. Major: Chemistry. Minor: Physics. Thesis: A Study of the Primary Photochemical Processes of Photosynthesis in Purple Bacteria by Electron Spin Resonance and Flash Photolysis. Major Adviser: Prof. J. E. Wertz.

**Armagan F. Kasaroglu, Ankara,
Turkey**

B.S. '70, Middle East Technical University. Field of Concentration: Business Administration. Major Adviser: Prof. T. R. Hoffmann.

Marvin Joseph Katzer, Harlan, Iowa

B.S.B.A. '65, Creighton University. Field of Concentration: Business Administration. Major Adviser: Prof. P. F. Jessup.

Pamela Raye Killian, Bloomington

B.S. with distinction '67, University of Minnesota. Field of Concentration: Public Health. Major Adviser: Prof. E. M. Anderson.

Patricia Joan Knowles, Franklin

B.S.N. magna cum laude '61, St. Olaf College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Edward Robert Landa, Bronx, N.Y.

B.S. *cum laude* '70, City College of New York. Major: Soil Science. Minor: Geology. Thesis: Characterization and Selected Adsorptive Properties of Ferric Oxides and Hydrated Oxides. Major Adviser: Prof. R. C. Gast.

Alan John Laub, Vancouver, British Columbia, Canada

B.S. '69, University of British Columbia. Major: Mathematics. Minor: Control Science. Thesis: Canonical Forms for σ -Symplectic Matrices. Major Adviser: Prof. W. S. Loud.

Tran Ngoc Lang, Saigon, Vietnam

B.S. '65, National College of Agriculture. Field of Concentration: Animal Science. Major Adviser: Prof. G. M. Speers.

Allen Stuart Levine, Irvington, N.J.

A.B. '70, Rutgers University. Field of Concentration: Botany. Major Adviser: Prof. D. J. McLaughlin.

Christine Gillen Lewis, Minneapolis

B.S. '66, College of St. Catherine. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. J. R. Hubbard.

David Raymond Lindgren, St. Louis Park

B.S.B. '69, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: The Nature and Prevalence of the Ecologically Motivated Consumer. Major Adviser: Prof. C. W. Rudelius.

Robert Joseph McCunney, Glenolden, Pa.

B.S. '71, Drexel University. Field of Concentration: Environmental Health. Major Adviser: Prof. H. J. Paulus.

Thomas Lyle McSherry, St. Paul

B.S. with distinction '70, University of Minnesota. Major: Mathematics. Minor: Internal. Thesis: The Problem of Apollonius Revisited. Major Adviser: Prof. Daniel Pedoe.

Douglas Wayne Mock, Minneapolis

B.S. '69, Cornell University. Major: Ecology. Minor: Zoology. Thesis: Social Behavior of the Great Blue Heron during Pair-Formation. Major Adviser: Prof. D. F. McKinney.

James Earle Nelson, Minneapolis

B.S.B. '67, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. C. W. Rudelius.

Barbara Jean Nygard, Cloquet

B.A. '70, University of Minnesota, Duluth. Field of Concentration: Plant Physiology. Major Adviser: Prof. C. J. Weiser.

Carole Russell Olson, Athens, Ohio

B.A. *cum laude* '64, Ohio University. Field of Concentration: Business Administration. Major Adviser: Prof. R. E. Willis.

Sang-Woo Park, Seoul, Korea

B.A. '64, M.A. '70, Seoul National University. Field of Concentration: Agricultural Economics. Major Adviser: Prof. T. R. Nodland.

David Martin Perry, Mounds View

B.A. with highest honors '67, Bethel College. Major: Mathematics. Minor: Physics. Thesis: Applications of the Contraction Mapping Fixed Point Theorem. Major Adviser: Prof. R. V. Chacon.

John H. Rappole, Jamestown, N.Y.

B.S. '68, Colgate University. Field of Concentration: Ecology. Major Adviser: Prof. D. W. Warner.

Robert Alton Reid, Phoebus, Va.

B.S.M.E. '67, North Carolina State University. Field of Concentration: Environmental Health. Major Adviser: Prof. V. W. Greene.

Louise Ann Rollins, Weaver

B.A. '69, Hamline University. Field of Concentration: Zoology. Major Adviser: Prof. D. E. Gilbertson.

Theresa Marie Cavanaugh Rothweiler, Cottage Grove

B.S.N. '51, Loretto Heights College. Field of Concentration: Medical-Surgical Nursing. Major Adviser: Prof. M. I. Harris.

Constance Jefferson Sansome, Portland, Ore.

B.A. '69, Carleton College. Major: Geology. Minor: Botany. Thesis: Minnesota Geology: A Laboratory and Field Manual for a First Course in Geology with an Elaboration of the Ordovician Stratigraphy of Sogn Quadrangle, Goodhue County. Major Co-Advisers: Profs. H. E. Wright and R. E. Sloan.

Kenneth Cyril Schneider, Waite Park

B.A. *magna cum laude* '70, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. L. Chervany.

**Sister M. Carolyn Snegoski,
Minneapolis**

B.S. '59, College of St. Mary. Major: Medical Technology. Minor: Biochemistry. Thesis: An Evaluation of the o-toluidine Method for Glucose Analysis of Body Fluids. Major Adviser: Prof. E. F. Freier.

Robert Alan Spielman, Trimont

B.I.E. '69, General Motors Institute. Field of Concentration: Environmental Health. Major Adviser: Prof. K. J. Caplan.

Joseph Leo Spurrier, St. Paul

B.S.B. with high distinction '64, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. J. C. Gray.

Robert Parker Steidl, Paris, Ill.

B.S. '70, University of Illinois. Major: Plant Breeding. Minor: Biometry. Thesis: Observed Gain from Visual Selection for Yield in Diverse Oat Populations. Major Adviser: Prof. D. D. Stuthman.

**Thomas Matthew Sutton,
Minneapolis**

B.A. '70, University of Minnesota. Field of Concentration: Environmental Health. Major Adviser: Prof. T. A. Olson.

Sandra Kay Thomas, Houston, Tex.

B.S. '70, University of Texas. Field of Concentration: Home Economics. Major Adviser: Prof. L. M. Morse.

**Richard David Thompson,
Minneapolis**

B.A. '64, Mankato State College. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: The Separation and Quantitation of the Metabolites of Theophylline in Human Urine and Serum by High-Pressure Liquid Chromatography. Major Adviser: Prof. H. T. Nagasawa.

Le Quang Thong, Saigon, Vietnam

B.S. '67, National College of Agriculture. Field of Concentration: Animal Science. Major Adviser: Prof. L. E. Hanson.

**Guillermo Luis Viticcio, Buenos
Aires, Argentina**

Lic. '64, Catholic University of Buenos Aires. Field of Concentration: Agricultural Economics. Major Adviser: Prof. S. A. Engene.

**Robert Silverius Vonesh, Hinsdale,
Ill.**

B.A. '69, University of Minnesota. Major: Mathematics. Minor: Internal. Thesis: Several Problems from Galois Theory. Major Adviser: Prof. E. F. Cline, Jr.

Joseph Francis Vossen, Windom

B.S. '69, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. N. L. Chervany.

Isabel Weinstein, Santiago, Chile

B.S. '71, University of Minnesota. Field of Concentration: Food Science and Industries. Major Adviser: Prof. P. B. Manning.

Marie E. Whelehan, Minneapolis

B.A. cum laude '68, Rosary Hill College. Field of Concentration: Mathematics. Major Adviser: Prof. Daniel Pedoe.

**James Fletcher Woodruff, Jr.,
Rochester**

B.S.M.E. '68, Marquette University. Field of Concentration: Environmental Health. Major Adviser: Prof. G. S. Michaelsen.

Sally Wright, De Pere, Wis.

B.S. '71, University of Wisconsin. Major: Hydrogeology. Minor: Civil Engineering. Thesis: Contribution to Research in Surface Conductivity: Hydrogeological Petrophysical Applications. Major Adviser: Prof. H. O. Pfannkuch.

Paula Teruka Yano, Honolulu, Hawaii

B.A. '70, Brown University. Major: Genetics. Minor: Biochemistry. Thesis: Interaction between Colicin Production and Recombination Deficiency in *Escherichia Coli*. Major Adviser: Prof. R. K. Herman.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

**Karen Whan Kerr, Brandon,
Manitoba, Canada**

B.S. '68, Brandon University. Field of Concentration: Biology. Major Adviser: Prof. H. L. Collins.

Kingsley R. Labrosse, St. Paul

B.A. '70, Macalester College. Major: Chemistry. Minor: Internal. Thesis: Amino Acid Incorporation by a Cell-Free Extract of *Neurospora Crassa*: Characterization and Differentiation of Mitochondrial and Cytoplasmic Protein Synthesizing Systems. Major Adviser: Prof. S. C. Hedman.

Randall Wayne Lamb, Mankato

B.S. *magna cum laude* '70, Mankato State College. Major: Chemistry. Minor: Internal. Thesis: Kinetics of Metal Complexes. Major Adviser: Prof. T. J. Bydalek.

**Michael Conlon VanDerveer, Ithaca,
N.Y.**

B.S. '70, Bucknell University. Major: Chemistry. Minor: Internal. Thesis: Fluorescent Europium Complexes of Tetrahydro-2-pyrimidone. Major Adviser: Prof. L. C. Thompson.

Master of Science in Agricultural Engineering

Jean Marie Le Barbier, Paris, France

Ing. '69, Institut Technique de Pratiques Agricoles. Field of Concentration: Agricultural Engineering. Major Adviser: Prof. E. R. Allred.

Master of Science in Chemical Engineering

**Carlos Benito Antonio Ciliberti,
Sante Fe, Argentina**

Ing. Quim. '65, National University of Litoral. Major: Chemical Engineering. Minor: Computer and Information Sciences. Thesis: Analysis of a Control System. Major Adviser: Prof. N. H. Ceaglske.

Tim Nelson Martin, Wayzata

B.Ch. with distinction '71, University of Minnesota. Major: Chemical Engineering. Minor: Microbiology. Thesis: Bacterial Cell Size Changes during Continuous Culture Transients. Major Adviser: Prof. H. M. Tsuchiya.

**Alvaro Pio RivasB.,
Medellin, Colombia**

B.S. '69, Universidad Pontificia Bolivariana. Major: Chemical Engineering. Minor: Mathematics. Thesis: Miniscus Computations: Shapes of Some Technologically Important Liquid Surfaces. Major Adviser: Prof. L. E. Scriven.

Master of Science in Civil Engineering

**Dale Clifford Bergstedt,
Falcon Heights**

B.S.Ch.E. '50, Northwestern University. Field of Concentration: Civil Engineering. Major Adviser: Prof. W. J. Maier.

Numa Maurice Gillet, Belgium

Ing.Agr. '71, Faculté des Sciences Agronomiques de l'État, Gembloux. Field of Concentration: Civil Engineering. Major Adviser: Prof. C. E. Bowers.

Patrick John Quinn, Milwaukee, Wis.

B.S.C.E. '71, University of Wisconsin. Field of Concentration: Civil Engineering. Major Adviser: Prof. P. P. Christiano.

Master of Science in Dentistry

Frank Clifton Grammer, Batesville, Ark.

B.S. '66, D.D.S. *summa cum laude* '68, Washington University. Major: Dentistry. Minor: Anatomy. Thesis: An ⁸⁶Rb Study of the Blood Supply to the Mandibular Proximal Fragment after Sagittal Split Osteotomy. Major Adviser: Prof. D. E. Waite.

Süleyman Gülmen, Turkey

D.D.S. '68, Hacettepe University. Major: Dentistry. Minor: Pathology. Thesis: An Investigation Concerning Tumor Cell Antigenicity of Hamster Malignant Melanoma Utilizing Heterologous Antiserum. Major Adviser: Prof. R. A. Vickers.

Albert Frederik Holthuis, Coevorden, Netherlands

Tand. '60, University of Groningen. Major: Dentistry. Minor: Anatomy. Thesis: Longitudinal Analysis of Chronic Inflammation. Major Adviser: Prof. R. E. Folke.

James Fredrick May, New Brighton

B.A. '64, Augustana College; D.D.S. '70, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Laminographic and Cephalometric Evaluation of Dental and Skeletal Changes Occurring During Activator Treatment. Major Adviser: Prof. R. J. Isaacson.

Sherwood Robert Pomeroy, St. Paul

D.D.S. '68, University of Minnesota. Major: Dentistry. Minor: Anatomy. Thesis: A Cephalometric Evaluation of Anterior Open Bite and Anterior Overbite in High Mandibular Plane Orthodontic Patients. Major Adviser: Prof. R. J. Isaacson.

Dinh Quan, Saigon, Vietnam

Dip. '60, University of Saigon. Major: Dentistry. Minor: Anatomy. Thesis: An In-Vitro Evaluation of the Giromatic Instrument in the Mechanical Preparation of Root Canals. Major Adviser: Prof. J. R. Jensen.

Master of Science in Dentistry

MAYO GRADUATE SCHOOL OF MEDICINE

Roger Paul Massella

D.D.S. '66, New York University. Major: Dentistry. Minor: Pathology. Thesis: The Prevention of the Growth of *Candida* on Silastic 390 Soft Liner for Dentures. Major Adviser: Prof. W. R. Laney.

Louis Lacy Young, Cincinnati, Ohio

D.D.S. '65, Ohio State University. Major: Dentistry. Minor: Pathology. Thesis: Scanning Electron Microscopy: Anatomic Description and Differences between Diseased and Normal Human Cementum. Major Adviser: Prof. J. A. Gibilisco.

Master of Science in Electrical Engineering

Steven John Anderson, Edina

B.E.E. with distinction '71, University of Minnesota. Major: Electrical Engineering. Minor: Statistics. Thesis: Noise in Optical Luminescence. Major Adviser: Prof. Aldert van der Ziel.

Glenn Keith Beck, Minneapolis

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

Carlos Alfredo Belfiore, Tucuman, Argentina

Ing. '68, Universidad Nacional de Tucuman. Field of Concentration: Electrical Engineering. Major Adviser: Prof. J. H. Park.

Michael James Burns, Minneapolis

B.S.E.E. '70, Marquette University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. L. Kinney.

Bernard Louis Grung, Minneapolis

B.S. '67, University of Wisconsin. Major: Electrical Engineering. Minor: Metallurgical Engineering. Thesis: Investigation by Scanning Electron Microscopy of the Growth of Metal Films Deposited on Tungsten Substrates. Major Adviser: Prof. G. K. Wehner.

Paul Margeris Lapsa

B.S. '68, Carnegie-Mellon University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. F. N. Bailey.

Yan Sang Lee, Hong Kong

B.E.E. with distinction '69, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. L. Kinney.

Anthony Robert Lefkow, St. Paul

B.S.E.E. '69, University of Illinois. Major: Electrical Engineering. Minor: Mathematics. Thesis: Inverse-Magnetic-Pinch-Induced Cylindrical Detonation Waves. Major Adviser: Prof. T. S. Lee.

Ronald Allan Peterson, St. Paul

B.S. *magna cum laude* '71, Seattle Pacific College. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Y. Kain.

Master of Science in Geo-Engineering

Jasbir Singh, Chandigarh, India

B.S. '70, Wisconsin State University. Field of Concentration: Geo-Engineering. Major Adviser: Prof. C. M. Nelson.

Master of Science in Industrial Engineering

James Lee Golden, New Orleans, La.

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

Varanasi Mallikharjuna Rao, India

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

Master of Science in Mechanical Engineering

Kyoo Won Lee, Seoul, Korea

B.S. '68, Seoul National University. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. Liu.

James P. Schafer

B.A.E. '70, University of Minnesota. Major: Mechanical Engineering. Minor: Aerospace Engineering. Thesis: The Influence of Radiation on Arc Constriction in the Anode Region. Major Adviser: Prof. Emil Pfender.

Ke-Kung Tien, Taipei, Taiwan

B.S. '68, National Taiwan University. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Effect of Thickness on the Monochromatic Specular Reflectance of Metallic Films. Major Adviser: Prof. E. M. Sparrow.

David Allen Wesley, Colorado Springs, Colo.

B.S.M.E. '68, University of Colorado. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Local Heat Transfer from a Sphere Situated in the Wake of Another Sphere. Major Co-Advisers: Profs. E. R. Eckert and E. M. Sparrow.

Master of Science in Medicine

MAYO GRADUATE SCHOOL OF MEDICINE

Gerhard Jacob Johnson, Minneapolis

M.D. '62, University of Minnesota. Major: Medicine. Minor: Hematology. Thesis: Studies of the Hemorrhagic Diathesis of Renal Failure. Major Adviser: Prof. C. A. Owen.

Master of Science in Metallurgical Engineering

Russell John Martindale, Minneapolis
B.S.Met.E. '68, Michigan Technological University. Field of Concentration: Metallurgical Engineering. Major Adviser: Prof. Gust Bit-sianes.

Master of Science in Physical Medicine and Rehabilitation

Naoichi Chino, Tokyo, Japan
M.D. '66, Keio University. Major: Physical Medicine and Rehabilitation. Minor: Anatomy. Thesis: Experimental Studies on the Effects of Propylene Glycol on the Peripheral Nerve of Rats. Major Adviser: Prof. F. J. Kottke.

Master of Science in Surgery

Mahmoud Abdel-Latif Ghanem,
Alexandria, Egypt
M.B., Ch.B., D.S., M.Ch. '66, University of Alexandria. Major: Surgery. Minor: Pathology. Thesis: Studies of Acute Superior Mesenteric Artery Occlusion. Major Adviser: Prof. R. L. Gooddale.

Certificate of Specialist in Education

Irene Phyllis Allen, St. Paul
B.S. '47, College of St. Catherine; M.A. '71, University of Minnesota. Field: Special Education. Major Adviser: Prof. E. R. Gallistel.

Curtis James Anderson, Minnetonka
B.A. '52, B.S. '54, M.A. '58, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. C. H. Sederberg.

Donna Marie Anderson, St. Paul
B.S. with high honors '63, Northern Illinois University. Field: Counseling. Major Adviser: Prof. A. R. Anderson.

Daniel Harold Beal, St. Paul
B.S. '56, M.A. '59, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. N. C. Nickerson.

Karl Edmund Brungardt, Forest Lake
B.S. '61, Winona State College. Field: General Curriculum Supervision. Major Adviser: Prof. R. D. Kimpston.

Barbara Sheila Cole, Rochester, N.Y.
B.S. '67, University of Rochester; M.A. '72, University of Minnesota. Field: Counseling. Major Adviser: Prof. D. H. Blocher.

Robert Graham Halvorson, Willmar
B.S. '61, M.A. '67, University of Minnesota. Field: Special Education. Major Adviser: Prof. Richard Weatherman.

Nora Lee Hanvik, Golden Valley
B.A. '69, M.A. '72, University of Minnesota. Field: School Psychological Services. Major Adviser: Prof. R. A. Weinberg.

Diane Arlene Johnson, Robbinsdale
B.A. '65, B.S. '68, M.A. '72, University of Minnesota. Field: Counseling. Major Adviser: Prof. W. W. Tennyson.

Marvin Theodore Jorde, Cottage Grove
B.A. '59, M.A. '70, University of Minnesota. Field: Special Education. Major Adviser: Prof. D. G. Force, Jr.

Miriam Erpestad Kragness, Excelsior
B.A. '63, Augustana College; M.A. '70, University of Minnesota. Field: Counseling. Major Adviser: Prof. C. A. Parker.

Robert Licari, St. Francis
B.S. '64, University of Minnesota, Duluth; M.S. '67, Wisconsin State University, Superior. Field: Special Education. Major Adviser: Prof. D. G. Force, Jr.

Robert Henry Lynch, Hopkins
B.A. magna cum laude '58, M.A. '59, Oblate College; S.T.B. '63, Catholic University; M.Ed. '67, Florida Atlantic State University. Field: Secondary School Administration. Major Adviser: Prof. N. C. Nickerson.

Joan Pearson Petersen, St. Paul
B.A. cum laude '69, Lewis and Clark College. Field: Counseling. Major Adviser: Prof. W. F. Shaffer.

Eddie Roger Ryshavy, Wayzata
B.S. '60, University of Minnesota; M.S. '64, St. Cloud State College. Field: Elementary School Administration. Major Adviser: Prof. W. R. Cross.

Deborah Weker Stern, Revere, Mass.
B.A. '69, Beloit College; M.A. '71, University of Minnesota. Field: School Psychology. Major Adviser: Prof. M. D. Hall.

Grace Hannah Young, St. Paul
B.S. '57, M.Ed. '59, Macalester College. Field: Special Education. Major Adviser: Prof. D. G. Force, Jr.

COLLEGE OF AGRICULTURE

Bachelor of Science

Paul Basballe, A.A., Morgan
Gordon Arthur Bovee, Champlin
Dague Byron Clark, Wayzata
Todd Louis Cutting, West Concord,
with distinction
Larry Dean Draheim, Waseca
Hoda Rashed El-Sherif, Cairo, Egypt
Darrell Wayne Forkrud, Clara City
Charles Leonard Groschen,
Maplewood
John Roman Hertel, Winsted
John Hirsch, Nathania, Israel
John David Keranen, Menahga
Robert Allen Koch, Glenville
Steven Andrew Ladlie, Albert Lea,
with distinction

Ronald David Leuthner, Crystal
Roger Elwood McFarlane, Anoka
Dale Paul Miller, Morristown
Raymond Arthur Norrgard, St. Paul
Ladd Timothy Ohlsson, Fridley
Peter William Ongstad, Minneapolis,
with distinction
Thomas Allen Piehl, Hector
Bruce Adolphe Porisch, Gibbon
Bruce David Spicer, Cottage Grove
Anton Allen Stegen, Lime Springs,
Iowa
Gary Allen Stromley, Hector
Steven Lee Wachter, St. Paul

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Theodore Lloyd Anderson, St. James
Stanley Marvin Carlson, Willmar,
with distinction

John Charles Poulter, Barron, Wis.,
with high distinction

COLLEGE OF AGRICULTURE AND COLLEGE OF EDUCATION

Bachelor of Science

Roy Arnold Ober, Barnum
David George Hillier, Austin

David Alan Starner, Hoffman, with
distinction

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Gary Richard Anderson, Golden
Valley
Louis Barzily Asher, St. Paul
Dale William Bargsten, Lake City
George Wesley Bolton, Minneapolis
Barbara Jean Hudak, A.A., Columbia
Heights
David Allen Klett, Buffalo
Thomas Daniel Kovar, Champlin
David Michael Larson, New Brighton,
magna cum laude, Biology

Virginia Susan Lofgren, Minneapolis
Timothy Robert Nelson, Minneapolis
Dennis Lee Persinger, Edina
Allison Elaine Purtell, St. Paul, cum
laude, Biology
James Elton Sogaard, Clements
Christine L. Sovia, Forest Lake,
summa cum laude, Zoology
Constance Jean Stieger, St. Paul
Clara Sau-Yee Tang, Hong Kong
Stephen Paul Theissen, St. James

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Thomas Gerald Anderson, A.A.,
Brainerd, with distinction
Kirby Charles Arnold, Richfield
Timothy Rolf Behrends, Hastings
Steven William Blaha, Owatonna
Richard Boehm, Minneapolis
Loren Raymond Bogen, Glenwood
Paul Edward Bonstrom, Jr.,
Bloomington
Allan Dale Boucher, Hopkins
David William Bowen, Minneapolis
Richard John Bowman, Minneapolis
Thomas Robert Braaten, Owatonna,
with distinction
Allen Newton Calvin, St. Paul
James Ralph Canine, South St. Paul,
with distinction
Kenneth Ernst Carlson, Richfield

Walter LeRoy Carpenter, St. Louis
Park
John Charles Carr, St. Paul
Gerald Thomas Casey, Minneapolis
Gerald Melvin Castner, Robbinsdale
Timothy George Celusta, Minneapolis
Kenneth Joseph Chadee, San
Fernando, Trinidad
Francis Anthony Chan, Hong Kong
Marvin Ralph Christenson, Anoka
Jason Stephen Cooper, A.L.A., St.
Paul
James Hall Davies, A.A., Stillwater
Kevin John Doyle, Edina
LeRoy Lydeen Erickson, Minneapolis
Robert George Fahrenbruch,
Bloomington
Arvid L. Faudskar, St. Paul

Lawrence Walter Faue, Hamel
 Wallace Frederick Freier, Jr., Duluth
 Timothy Owen Geraghty, A.A., St. Paul
 Benjamin Kelly Gudden, Jr., Inver Grove Heights
 Douglas Thad Hanes, St. Paul
 Kenneth Martin Hauth, St. Paul
 Randall Craig Hoelscher, St. Paul
 Thomas Houston Huff, Minneapolis
 Lawrence Charles Jacobs, Renville
 Alan Stanley Jacobson, New Brighton
 John Vernon Jensen, Minneapolis
 Gerald Brian Johnson, Fridley
 Michael Owen Johnson, St. Louis Park
 Lee Khalil Karayusuf, St. Paul
 David Brookes Kaysen, St. Paul
 Larry Edward Kerber, Chanhassen, *with distinction*
 Richard Joseph Krautkremer, Bloomington
 Marilyn Adeline Kunza, Isanti
 Thomas Edward Landsberger, St. Paul
 Richard Alan Lanigan, Garfield
 Jerry Raymond Larson, Minneapolis
 Martin Allen Lehman, St. Louis Park
 James Thomas Leschinsky, Minneapolis
 Ronald Delmar Lindberg, Minnetonka
 Phillip J. Lomness, Fosston
 Gregory Thomas Lydon, Minneapolis
 Paul John Maanum, A.A., Willmar
 Michael S. Marquardt, Brooklyn Park
 Steven Paul Martens, Robbinsdale
 Charles Lyle May, Bloomington
 Paul John McGervey, St. Paul
 Barbara O'Connor McNurlin, Fridley

Thomas Carl Michelson, South St. Paul, *with high distinction*
 Richard William Nelson, Edina
 Michael Ronald Pauling, Bloomington
 Reid Ripley Pederson, Coon Rapids
 Arthur John Peterson, Minneapolis
 John Charles Peterson, Mankato
 John Howard Peterson, Richfield
 Bernard David Remer, Mora
 James Eric Renneke, Richfield
 Benjamin Rischall, St. Paul
 Philip Wallace Rootes, Anoka
 Arthur Lane Ruder, St. Paul
 Mark Victor Schellschmidt, Prior Lake
 Rollin Towne Schlichting, Minneapolis
 Charles Raymond Scott III, B.A., St. Louis Park
 Thomas Edward Sempf, St. Paul
 Robert John Shellum, Minneapolis
 James Frederick Shoelen, A.A., Blaine
 Kenneth Charles Siefken, Minneapolis
 Stephen Douglas Sinclair, St. Paul
 Walter Hart Smith, Proctor
 Steven Donald Sprenger, Emmons
 Robert Gene Stevens, Cokato
 John Matthias Sticha, New Prague
 Paul Leslie Sugden, St. Paul
 Albert Richard Tedesco, St. Paul
 Randolph McNutt Tolmie, Homewood, Ill.
 William John Tutko, Minneapolis
 Clemens Andrew Urbanski, St. Paul
 Michael John Wallek, St. Paul
 David William Watrud, Worthington
 John Francis Whaley, Minneapolis
 Gerald Lee Zembal, Minneapolis, *with distinction*

CONTINUING EDUCATION AND EXTENSION

Accounting Certificate

Leslie Onni Leiviska, Minneapolis

Gerald Richard Ranke, Crystal

Business Administration Certificate

Lanny Raymond Berke, Minneapolis

Howard Alan Ostrem, St. Paul

Social Work Certificate

Patricia Ann Ruffing, St. Louis Park

Helen Louise Waxon, St. Paul

Undergraduate Development Certificate in Engineering and Science—90 Credits

William Lee Bentrin, Anoka

COLLEGE OF EDUCATION

Bachelor of Science

Nadia Alenov, St. Paul, with
distinction

Dennis Alan Anderson, Brooklyn
Center

Jim G. Anthony, Rosemount

Roger Wayne Arnold, Effingham, Ill.

Ilene Melissa Barenbaum,
Minneapolis

Joyce Ann Barrett, A.A., Minneapolis

Nancy Kaye Thom Baxter, Fergus
Falls, with distinction

Keith Richard Benson, Dassel

Lois Ardelle Benson, Grygla

Holly Anita Berg, Wilmington, Del.,
with distinction

Suzanne Annette Berg, Dassel

Michael Jon Bertrand, B.A.,
Minneapolis

Joni Marilyn Blumenfeld, St. Paul

Helen Ruth Boddy, Minneapolis, with
distinction

Allan Bert Bohannon, A.A., Edina

Maryan Frances Bohnenstingel,
Minneapolis, with distinction

Charles Edward Boyles, St. Paul, with
high distinction

Suzanne Boyt, Minneapolis, with
distinction

Fredrik Albert Brandt, Minneapolis,
with distinction

James Laurence Braud, South St. Paul

Judith Helen Brophy, Minneapolis,
with distinction

Kathleen Louise Buchanan, Minne-
apolis

Jean Bukovich, A.A., Fridley, with
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Paul, with distinction

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Golden Valley, with distinction

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Forks, N.D., with distinction

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 distinction
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 distinction
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 distinction
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 distinction
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 distinction
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 Brian Dean Roverud, Spring Grove
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 Valley, with high distinction
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 Charles Edmund Schuldt, Faribault
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 Janet S. Sonstegard, Paynesville,
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 Dale Allen State, St. Paul
 Keith Ardel Stokka, St. Paul, with
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 Alan Wayne Tucker, St. Louis Park,
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 with distinction
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 Park
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 Center, with distinction
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 Cheryl Faye Zook, Minneapolis
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Master of Education

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 St. Paul
 David Henry Elfman, B.S., Corona,
 Calif.
 R. C. Johnson, B.S., Drew, Miss.

Donald Greenleaf Palmateer,
 Hamilton, N.Y.
 James Walter Salmi, B.S.,
 Winnemucca, Nev.
 Kevin Hyel Wilson, B.S., Silver
 Lake, Ohio

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Bixby, with distinction

Richard Lee Erickson, St. Paul

Thomas William Houghtaling,

Duluth, with high distinction

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Robert Michael Kucera, A.A., Fergus
Falls

Philip James Mattson, St. Paul

John Robert Miller, Freeborn

Douglas Robert Page, Anoka

Timothy Paul Probst, Marcell

Robin Peter Ruona, Worthington

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Fla., *with high distinction*

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Mary Patricia Borre, St. Paul

Dennis Charles Brennan, St. Paul

Annabelle Catherine Brosnahan,
Minneapolis

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Edward Neil Bush, Minneapolis

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Harbor, Mich.

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Kevin Douglas Carney, St. Paul

Daniel Robert Casserly, Minneapolis

Debra Lynn Christiansen,
Minneapolis

Daniel John Coonan, St. Paul

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Rose Elizabeth Daniel, Minneapolis

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Stephanie Durda, Minneapolis

Joan Carol Ehlenz, Minneapolis

Raynold Glenn Engstrand,
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Center

E. Francis Fitzgerald, St. Paul

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Michael John Ganley, Minneapolis

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Cressa Marie Graham, Minneapolis

Diane Elizabeth Grendahl,
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Gloria Kamin, Minneapolis

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Sheldon Craig Larson, Minneapolis

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David Ellis Minter, Minneapolis

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Douglas Richard Nelson, St. Paul

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Robert William Olson, St. Paul

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 Joel Marshall Polk, Minneapolis
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 Eugene Henry Rieger, Jr., St. Paul
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 Carole E. Rosen, St. Louis Park
 Mindy Jo Rosenfeld, St. Louis Park
 Roger Lee Rowlette, Minneapolis
 Dennis Richard Sanders, Minneapolis
 Catherine Rose Schmiesing, Minneapolis
 Daniel Jay Schneider, Northbrook, Ill.
 John Micheal Seiler, St. Paul
 Pamala Merriam Shedlov, St. Louis Park
 David Lee Sheppard, Edina

Bruce James Smith, Minneapolis
 Susan Marie Sperling, St. Paul
 Mark Edwin Strangis, Burnsville
 Paul Michael A. Subialka, Minneapolis
 Robert Glenn Swoverland, St. Paul
 Gary Allen Taillefer, Minneapolis
 Brad John Thompson, Minneapolis
 Larry Duane Trebelhorn, Bloomington
 Andrea Joy Upin, Faribault
 William Allan Van Arsdale, Hopkins
 Sari Lynn Waiss, Minneapolis
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 William Gary Zelin, Minneapolis

Bachelor of Applied Studies

Barbara Ellen Bouten, Minneapolis
 Patricia Ann Bradley, A.A., St. Paul
 Thomas Victor Carney, A.L.A., Minneapolis
 Karen Helene Dement, A.A., St. Paul
 Charles Gordon Hughes, A.A., Minneapolis
 Thomas Leigh JoliCoeur, A.A., Minneapolis

Weston John Lamb, A.A., Minneapolis
 Clifford Erland Lundberg, A.A., Minneapolis
 James Winslow Marshall, A.A., Minneapolis
 Patricia Ellen Ryan, A.A., St. Paul
 Ronald Edward Schatzlein, A.A., Minneapolis

Bachelor of General Studies

Paul Caldwell, A.A., Maplewood
 David Allen Dehn, A.A., St. Paul
 David Knowlton Moden, A.A., Minneapolis

David James Simondet, A.A., Albertville

COLLEGE OF HOME ECONOMICS

Bachelor of Science

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 Diana Lurene Berg, Duluth
 Terry Lynne Bossard, St. Paul
 Karen Sue Briesacher, Farmington
Lucille Ingalls Caldecott, St. Paul, with high distinction
 Cari Jane Christenson, Edina
Morrie Joan Dwyer, Minneapolis, with high distinction

Mary Lee Van Ness Ernst, St. Paul
 Suzanne Syverts Finley, Minneapolis
 Mary Kathryn Gavin, Rosemount
 Cheryl Ann Gerharter, Chicopee, Mass.
 Ruth Anderson Goddard, St. Paul
Ann Beller Grammer, Batesville, Ark., with high distinction
 Elizabeth Sue Haines, Minneapolis

Katherine Lee Heinig, St. Paul, with distinction
Victoria Churches Heitmiller, St. Paul
Nancy Lynn Hernke, Cannon Falls, with distinction
Janis Carolyn Hornseth, Minneapolis, with distinction
Pamela Peterson Iverson, Belview
Constance Ruth Knapp, Edina
Linda Joyce Knott, Raymond
Lila Marie Loomis, Hinckley
May Pui-Man Lui, Hong Kong
Verna Mae Mattson, Rush City
Kathleen Clara Meyer, Minneapolis, with high distinction

Sue Barbara Wallin Mohr, Stillwater
Janis Rae Morris, Burnsville
Nancy Kay Mulvihill, Stacy
Nancy Louise Olson, Thief River Falls
Steven Kingsley Sanford, St. Paul
Phyllis Jean Schierioth, Minneapolis, with distinction
Annalee Ruth Strandskov, Minneapolis, with distinction
Suzanne Marie Walters, Grand Rapids
Paula Marie Zenker, St. Paul
Maurine Raye Skog Zoss, Sturgeon Lake, with distinction

COLLEGE OF HOME ECONOMICS AND COLLEGE OF EDUCATION

Bachelor of Science

Margaret Ward Dodson, A.A., Fridley, with distinction
Dianne Elaine Erickson, Richfield, with distinction

Geri Pederson Lamparske, Bloomington
Joan Kathleen O'Connor, Minneapolis
Elizabeth Louise Skoogberg, St. Paul, with high distinction

LAW SCHOOL

Juris Doctor

Richard John Baker, B.I.E., M.B.A., Minneapolis
Thomas Randolph Galt, B.A., St. Paul
David John Gill, B.A., Minneapolis
Lawrence Burns Hunter, B.A., Richfield

Roger Norman Knutson, B.A., Minneapolis
Stephen John Lauer, B.A., Bismarck, N.D.
Robert Joseph Tieso, B.Chem., St. Paul
Shelden M. Vie, B.A., Minneapolis

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

James Stuart Kallestad, Wayzata
Mauricette Smith Keeley, Burnsville
Diane L. Lewis, St. Paul
Barbara Luchsinger Mata, Edina
Harlan Elmore Meyers, Minneapolis
Mary McNamara O'Rourke, Robbinsdale

Bonita Marie Rood, Minneapolis
Kerry Jill Suddard, Taylors Falls
Curtis Henry Van Deen, St. Paul
Kevin John Welsh, Minneapolis
Barbara Ann Zubrzycki, Minneapolis

Bachelor of Arts

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

- Lynn Marie Abrahamsen, Sandstone,
summa cum laude, Social Welfare
Joan Larson Abrahamsen,
Bloomington
Catherine Marie Aldrich, Minneapolis
John Oliver Althoff, Cannon Falls
Christine Benson Anderson,
Bloomington
Jeffrey Blair Anderson, Minneapolis
Marquis Charles Anderson, Robbins-
dale
Roger Wallace Anderson, Minneapolis
Stephanie Lee Arrell, Minneapolis*
Ulla Christine Backstrom, B.S., Log-
de, Sweden
Hermaine Judy Baillou, Minneapolis
Philip Archer Bangs, Rapid City, S.D.
Bruce Bernard Barkley, Minneapolis
Willard Daniel Barrett, A.A., Minne-
apolis, *cum laude, Social Welfare*
Thomas Alvin Bart, Minneapolis
Susan K. Bastyr, A.A., Austin
Carol Julia Baumgartner, St. Paul
Susanne Marie Bennett, Anoka
Albina Greiskalns Bester, St. Paul
Janet Marie Bezanson, Edina
William Michael Bidon, Grand Forks,
N.D.
Patricia Ann Biron, Northfield
Richard George Bjorklund, Jr., St.
Paul
George Spencer Blakeslee, A.L.A.,
Minneapolis, *summa cum laude,*
Interdepartmental
Richard Thomas Bleyhl, Minneapolis
Sharon Collett Boese, St. Cloud
Donna Elaine Bolte, Minneapolis
Terrence Donald Bongard, Alexandria
Lee Allen Borgen, Minneapolis
Douglas Peter Boschee, Golden Valley
Susan Elaine Boyer, Detroit Lakes
Roger Eugene Brake, A.A., Wilmont
Susan Lee Braley, Aurora, Ill.
Albert George Brecht, Jr., A.A.,
Minneapolis
- James Frederick Brooks, Wayzata
Kathleen Mary Brown, St. Louis Park
Lorene Julia Brown, Minneapolis
Juergen Ernst Buller, St. Paul
Michael John Burkhardt, Minneapolis
Larry Wood Campbell, Owatonna
Susan Jean Carls, Minneapolis
Craig G. Carlson, Minneapolis
Dennis Ewald Carlson, Hopkins
Arthur Tracy Carter, Rapid City, S.D.
Kam Wing Chan, Kowloon, Hong
Kong
Raymond James Chapman, St. Paul,
magna cum laude, Sociology
Judith Fouts Chase, Crystal
Rollin Dale Christopherson,
Minneapolis
Sandra Elaine Clapp, St. Paul
Mary Teresa Cleary, St. Paul
Maureen Bernadette Clements, A.A.,
Austin
Richard Shalett Cohen, Minneapolis,
magna cum laude, Arts and
Medicine
Michael John Colich, Minneapolis
Alexander Ronald Comb, Minneapolis
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Richard Kenneth John Covill,
Clacton-on-Sea, England
Larry Deane Coyle, Murdock
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apolis
Denny Raymond Crowe, Hastings
Patricia Katherine Cummings, St.
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Jane Carol Cupkie, Owatonna
Patrick Stanley Curtis, Stillwater
David Frederick Dahl, St. Cloud,
magna cum laude, English
Shari Marie Dalbec, A.A.,
Minneapolis
Deborah Ann Dapper, Faribault
Graydon Andrew Davis, St. Paul
Julie Ann Davis, Minneapolis

* Degree conferred as of August 25, 1972.

Douglas Raymond Debelak,
Minneapolis

Michael Joseph Deency, Minneapolis

Robert Raymond Dehart, St. Paul

Paderat Deomangal, Corantyne,
Guyana

Ann Louise Deshler, Bloomington

Angela Marie Devlaminch, Marshall

Deborah Flink Donaghue,
Minneapolis

Terri Felsenberg Donsker, Duluth

Susan Mary Doody, St. Paul

Patricia Anne Dorr, Minneapolis

Elizabeth Ann Dow, St. Paul, cum
laude, Psychology

William Robert Downs, Louisville,
Ky., *summa cum laude*, Psychology

Michele Marie Drouches, Minneapolis

Maureen Therese Endert,
Minneapolis

Carole Diane Erickson, Minneapolis

James Brian Erickson, Minneapolis,
magna cum laude, Psychology

Kathryn Marie Ericson, A.A., White
Bear Lake

James Timothy Farkas, St. Paul

Sally Ann Fashant, Minneapolis

Virginia Ruth Fiedler, Minneapolis

Stephen Charles Flagg, Minneapolis

Mary Margaret Fontana, Chisholm

Rose Ann Foreman, St. Paul

Steven Craig Forsberg, Minneapolis

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Timothy Fred Frush, Brooklyn Center

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Lake

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Anita Jennifer Gay, A.L.A., Wyoming

Lawrence John Geisen, St. Paul

Jeanne Marie Gilbert, White Bear
Lake

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Dwight David Grabitske, A.A., St.
Paul

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Myra Laura Green, Minneapolis

Stanley H. Griver, St. Paul

Bonnie Vegdahl Grussing, Spicer,
summa cum laude, Psychology

Ronald Edmund Gryniewski,
Minneapolis

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Peter Michael Gunderson, Edina

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Raymond Camiel Hahnfeldt, Jr.,
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Martha Marie Hughes, St. Paul

Julia Ann Hunt, Wayzata

Ellen Jean Hurley, St. Paul, cum
laude, Psychology

John Joseph Hurley, Minneapolis

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 Jody Louise Jensen, Grant Township
 John Bishop Jensen, Minneapolis
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 Wayzata
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 Roger Michael Johnson, St. Louis
 Park
 Craig Richard Johnston, St. Paul
 Ellen Kay Joseph, Minneapolis
 Virginia Ann Joseph, Minneapolis,
summa cum laude, French
 David Paul Kaiser, Minneapolis
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 Valley
 Katherine Leigh Kamman,
 Minneapolis
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 Donna Mae Katz, St. Paul
 Louisa Ann Keleher, St. Paul
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 Jeffrey William Kennedy,
 Minneapolis
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 Nancy Preston Kompelien, Hopkins
 Barry James Konigson, Minneapolis
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 Abigail Struck Kotilinek, St. Paul
 Ralph Marc Kramer, Minneapolis
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 Gary Delano Krull, Minneapolis
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 Bruce Anton Larson, River Falls, Wis.
 Ann Tracy Laughlin, A.A.,
 Minneapolis
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 Bruce Wayne Lee, Minneapolis
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 Judith H. Lent, Rochester
 Gretchen Ruth Lindstrom, Austin
 Christopher Geoffrey Linthurst, Pasa-
 dena, Calif.
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 Denver, Colo.
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 Roxanne Lohela, Painesdale, Mich.
 Barbara Loper, Minneapolis
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 John Arnold Lund, Mankato
 Carol Ann Mahlum, Bloomington
 Leland Karl Martin, Sherburn
 James T. Mazurkiewicz, St. Paul
 Dennis Michael McCauley, Edina
 Daniel Harris McClain, Minneapolis
 Gregory Charles McDonald,
 Minneapolis
 David Revere McFadden, Minne-
 apolis, *magna cum laude, Art
 History*
 Theresa Anne McGough, St. Paul
 Ann Clare McGuire, Stillwater
 Maureen Louise McLennan,
 Minneapolis
 Randall Kent McKinnis, Minneapolis
 Michael John Menth, Robbinsdale
 Catherine Elizabeth Karp Mich,
 Minneapolis
 Marilyn Jean Miller, Minneapolis
 Michael Robert Miller, Rochester
 Peter Michael Miller, St. Paul
 Marsha Lynn Mills, New Hope
 Pamela Joanne Mills, Lake City
 Randy Marvin Mills, Minneapolis
 Janice Lee Moriguchi, Minnetonka
 Kevin William Mosher, Minneapolis
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 Relf Neils, Excelsior
 Cynthia Marie Nelson, Minneapolis
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 Roger Dean Quint, Blue Earth
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 Jeanne Margaret Ramler, Elmhurst, Ill.
 Carol Janet Ratwik, St. Paul
 Richard Allen Ray, West Concord
 Donald Paul Razskazoff, St. Paul
 Debra Engquist Rex, Richfield,
 summa cum laude, Economics
 Mildred Paula Richter, Minneapolis
 Gregory Lawrence Rick, White Bear
 Lake
 Claude Arthur Riedel, St. Paul
 Linda Mary Ring, Richfield
 Gregory Ames Robinson, Sioux City,
 Iowa
 Richard Anthony Rohland, A.A., St.
 Paul
 Arnold Anthony Rosenthal, Perham
 Jill Patricia Rossi, Rochester
 Ann Marie Rostad, Moorhead
 Raymond Anselm Roybal, Rocky
 Ford, Colo.
 David Alan Ruch, Minneapolis
 Connie Lee Rupp, Minneapolis
 Denise Margaret Ryan, St. Paul
 David John Salsman, New Prague
 Linda Jeanne Sammis, Prior Lake
 Lynn Kathryn Sandberg, A.A.,
 Willmar
 Rita Jo Sandy, Foley
 Steven Allen Schaefer, Bloomington
 Joseph Francis Schmidt, A.A., Austin
 Carolyn Diana Schmitz, St. Paul
 Elizabeth M. Schwanebeck,
 Minneapolis
 Kathleen Ann Schweder, Minneapolis
 Ann Vetter Seidenkranz, Minneapolis
 Amy Kathryn Shaver, Minneapolis
 William Franklin Shepherd, White
 Bear Lake
 Annmarie Shevlin, White Bear Lake
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 Phillip Joseph Sibinski, Minneapolis
 Margaret Theresa Skoy, A.A., Crystal
 Heights
 Patricia Ann Smith, Minneapolis
 Vicki Lynn Smith, St. Paul
 Clifford Dale Snyder, Minneapolis
 Mary Courteway Sorensen,
 Minneapolis
 Colette Marie Spear, St. Paul
 Gerald Ray Stableski, Robbinsdale
 Michelle Mary Staloch, Lake Bronson
 Lance Robert Staricha, Minneapolis
 Alan Anderson Steiff, St. Paul
 Herb Michael Steinmetz, Jr.,
 Chippewa Falls, Wis.
 Hubert John Stempfley, Keewatin
 Frederic Marion Stepniak,
 Minneapolis
 Patricia Marie Steuart, Hastings
 Evon Dolores Jensen Stevens, Cloquet
 William Charles Stewart, Minneapolis
 Margaret Mary Stiene, Minneapolis
 Alexander Stolarow, Duluth
 Cheryl Lee Storm, Minneapolis,
 magna cum laude, Sociology
 Richard Allan Stover, Minneapolis
 Carol Elaine Stucker, Roseville
 Lynn Obert Svenpladsen, Minneapolis
 Donald Taragos, Richfield
 Stephanie Joan Tarara, St. Paul,
 magna cum laude, Psychology
 Margaret Velie Thatcher, Wayzata,
 cum laude, English
 William Olen Thompson, Minne-
 apolis
 Mark Douglas Thornsjo, St. Louis
 Park
 Vickie Lynn Tilseth, Minneapolis
 Gregory Duane Timmers, Edina, *cum*
 laude, Psychology
 Paula Joan Tonskemper, Minneapolis
 Barbara Jean Torrance, Richfield
 Eric William Trygstad, Minneapolis
 Gwen Lynn Tucker, San Francisco,
 Calif.

Kristin Elizabeth Tuenge, Stillwater
 Marty Kieth Vadis, Minneapolis
 Laura Lynn Valenty, Minneapolis
 Cheryl Ann VanGuilder, Minneapolis
 John Timothy VanLoo, Greenville,
 Mich.
 Roger Kirby Vann, Duluth
 Thomas Campion Vasaly,
 Minneapolis
 James Corning Vaughan, St. Paul
 Virginia Susan Viner, Minneapolis
 Mary Ellen Vitcenda, Duluth
 Barbara Lynn Vogt, Minnetonka
 Scott Charles Wallat, Minneapolis
 Louise Elaine Wallskog, New Rich-
 land
 Stephanie Ruth Walz, Minneapolis
 Richard Donald Warner, A.A., Anoka
 Paul Stanley Wasik, Minneapolis
 David William Raymond Weiman,
 Minneapolis

Janice Karen Weiner, New Hope
 Diane Elaine Welander, Waseca
 Mary Tegeder Wenker, Duluth
 Kristi Ruth Wermager, Minneapolis
 Wendy Pell Wettergren, St. Peter
 Mary Louise Wettstein, St. Paul
 William David Whittenberg,
 Hutchinson
 Susan Gail Wickersham, Fergus Falls
 David Wayne Wilkie, Minneapolis
 John Howard Williams, Plantation,
 Fla.
 Jack Esten Winters, New Brighton
 Doris Wong, Minneapolis
 Carol Ann Wuethrich, Glencoe
 Ronald Michael Yates, Minneapolis
 David Lewis Yellick, West Salem,
 Wis.
 Kathie Irene Zettervall, *Jaffrey, N.H.,
 cum laude, English*

Bachelor of Elected Studies

Dexter Lorin Andrews, Jr., A.A.,
 Wayzata
 Russell Dean Birch, Bloomington
 Maria Helena Matarazzo Britto, Sao
 Paulo, Brazil

Jerrold Elmer Falk, Minneapolis
 Jerold Lewis Robbins, St. Paul
 Richard Charles Stein, St. Louis Park
 Stephen Robert Yanda, Minneapolis

Bachelor of Fine Arts

Sheila F. Alpert, A.A., Duluth
 Ann Marie Anderson, Hopkins
 Wesley O. Bue, Lanesboro
 Sally Lynn Gordon, Minneapolis
 David Anthony Hering, Faribault

Glenna Mills Johnson, Weiser, Idaho
*Timothy Sean McLaughlin, Minne-
 apolis, summa cum laude, Studio
 Arts*
 Gary Michael Welton, Brainerd

MEDICAL SCHOOL

MEDICAL TECHNOLOGY

Bachelor of Science

Teryl Jean Rudolph, Golden Valley* Camille Elaine Wang, Duluth

* Degree conferred subject to completion of practical work prior to March 21, 1973.

MEDICINE

Bachelor of Science

Donald Clarence Campbell II,
Rochester

Robert Douglas Chalgren, Mankato
Diane Sione Tanabe, B.A., Burnsville

Nolan Louis Weinberg, Oak Park,
Mich.

Richard Stanton Werner, Minneapolis

Doctor of Medicine

Charles Bradley Anderson,
Minneapolis
Gerald Armond Brooksby, Ph.D.,
Portland, Ore.

Greg Robert Champion, B.S.,
Minneapolis

Larry Gene Duckert, B.S., Hopkins

Gregory Herring, B.A., Edina

Joan Eileen Madden, B.A.,
Minneapolis

Warren O. V. Opheim, B.A., Sioux
Falls, S.D.

Dorothy Ann Ritter, B.S., Joliet, Ill.

John Charles Sternquist, B.A., B.S.,
Centerville, S.D.

Diane Sione Tanabe, B.A., Burnsville

Robert Eugene Vigesaa, B.S.Pharm.,
Courtenay, N.D.

MORTUARY SCIENCE

Bachelor of Science

Robert Kirkham Jolley, Vernal, Utah
Brigitte Pascutoi, Minneapolis

Mark Joseph Walsh, Murdock

OCCUPATIONAL THERAPY

Bachelor of Science

Deborah Mary Krueger, Alexandria*

Renee E. Lemieux, St. Paul

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

John Edward Brenna, B.S., Mabel

Thomas Francis Madera, Minneapolis

* Degree conferred subject to completion of practical work prior to March 21, 1973.

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Ibrahim Naguib Ibrahim, M.A., Egypt
Jay Alan MacLellan, B.S., Seattle,
Wash.
John Gregory Morrill, B.Math., West
St. Paul

Marcia Lynne Robert, B.S.,
Minneapolis
Martin Allen Winston, B.S., Crystal

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Michael Lee Andre, New Brighton

Gary Byron Forsberg, Minneapolis,
with distinction

Bachelor of Agricultural Engineering

Dean Franklin Funk, Round Lake,
with distinction
John Albert Garry, Granada, with
distinction

Larry Dean Jacobson, Pelican Rapids,
with high distinction

Bachelor of Architecture

Lee Fredrick Anderson, LaCrosse,
Wis.
Christopher Wayne Colby, Coon
Rapids
Kent Wayne Davidson, Minneapolis
David Allen Frank, B.A., Minneapolis
Thomas William Goebel, Freeport
Dominic Cosmo Greco, B.A., Minne-
apolis
Collin Kent Holzwarth, Mobridge,
S.D.
Kenneth Dale Johnson, Excelsior
Philip Arthur Johnston, East Green-
wich, R.I., with high distinction

David Lloyd Jones, Minneapolis
Gary L. Kastner, Wisconsin Rapids,
Wis.
Arthur Leslie Keith, St. Louis Park
James Merrill Magnuson, Minnetonka
Glenn Charles Manni, Ely
Daniel John Miles, Minneapolis
David Edwin Milne, LaCrosse, Wis.
Laszlo F. Szomor, Minneapolis
Bruce Edward Toman, Mandan, N.D.
Gregg Arthur Werlein, White Bear
Lake

Bachelor of Chemistry

Robert Alan Grande, Roseville

Barrie Kenneth Meyer, Evanston, Ill.

Bachelor of Civil Engineering

Glenn Livingston Archer, B.A.,
Nassau, Bahamas
Richard Keith Baldner, Austin
Thomas LeRoy Behm, B.A., Still-
water, with *distinction*
Dale Allan Britzius, Deephaven
David Roy Ford, Roseville
Steven Dean Gatlin, Duluth
Arthur Ben Grater, St. Paul
Robert Jeffrey Holt, St. Louis Park
Douglas William Jensen, Richfield
Robert Allen Johnson, Edina
James Douglas Kern, St. Paul

Harold Calvin Larson, B.S., Blaine
William Grant MacKay, St. Paul
Daniel Anthony Netko, Minneapolis
Boyd Robert Paulu, St. Paul
Richard Nicholas Sobiech, B.Ag.E.,
Minneapolis
Steven Robert Swanson, New Orleans,
La.
Ngo Nhu Hung Viet, Saigon,
Vietnam, with *distinction*
Robert Ernest Westlund, Duluth
Brian Charles Wilson, North St. Paul
Larry LeRoy Winner, Anoka

Bachelor of Computer Science

Vincent John Graziano, Minneapolis,
with *distinction*
Kenneth Siuchor Ng, Hong Kong,
with *distinction*

Thomas Jerome Nolan, Minneapolis
Cheryl Louise Nygaard, Superior, Wis.
Yoram Shohamy, St. Paul, with
distinction

Bachelor of Electrical Engineering

Dale Robert Carlson, Minneapolis
Ronald Gene Crawford, A.A., South
St. Paul
John Reynold Dahl, A.A., Minne-
apolis, with *high distinction*
Andrew James Holewa, Minneapolis
Robert Milo Jovonovich, Mankato
John Michael Kessler, Bloomington
Bruce Frank Lindholm, Golden Valley

Richard Charles Rada, St. Paul, with
distinction
Michael C. Smayling, St. Anthony,
with *high distinction*
Richard Wright Thomas, Jr., Edina
Kenichi Tsuchiya, Kijimadaira, Japan
Fred Leon Vandergraft, Minneapolis
Jeffrey Hart Walton, Wayzata
George Weinhandl, St. Paul

Bachelor of Environmental Design

David Eric Erdman, B.A.,
Oconomowoc, Wis.
Jean Andre LaTondresse, Austin, with
distinction

Kenneth Bing Mah, Calgary, Alberta,
Canada
Charles John Moss, Nassau, Bahamas

Bachelor of Geo-Engineering

Manousos Paul Katsoulis, Athens,
Greece, with *distinction*

Bachelor of Mathematics

John Louis Muske, North St. Paul
David Paul Peterson, Minneapolis,
with distinction

Francis John Pinski, St. Paul, with
distinction

Bachelor of Mechanical Engineering

Homayoon F. Abtahi, Tehran, Iran,
with distinction

Ward Allen Blandin, Edina

Rodney John Borden, Minneapolis

Steven Allen Darmer, Fairmont

Thomas Lee Edgar, Warren

Gary Ray Gillingham, Little Falls

Demetrios V. Halatsis, St. Paul

John Scott Harris, La Crescent, with
distinction

Donald Lyle Haugland, A.A.,
Minneapolis

Gregory Allen Hawks, Minneapolis

Jim Victor Jankoski, B.E.E., Conrath,
Wis., with high distinction

Daniel James Krech, Inver Grove
Heights

Steven Allan Kruger, St. Paul

Gail Skurdahl Lanzatella, Minneapolis

Alan Paul Lonneman, Wilmont

Edward Ventura Loye, A.A.,
Minneapolis

Michael Clyde Manion, B.Ch.E.,
Hopkins, with distinction

Gene David Mattila, A.A., Ely

Joseph Alfred Menz, A.A., Brainerd

Karl Martin Nelson, Minneapolis

Thomas Anthony Peters, New
Brighton

Thomas William Peterson, Rochester,
with distinction

Roberto Giuseppe Ravetti,
Minneapolis

Gregory Steven Rehkamp, Melrose

Vincent Raymond Rohr, Hopkins

Richard Emery Skoog, Robbinsdale,
with high distinction

John Peter Stedman, St. Paul

Yiu Tak Tse, Hong Kong, with dis-
tinction

Jeffry Edward Wolf, Austin

Teddy William Wood, Hong Kong

David Alan Zenk, Fairmont

Bachelor of Physics

Daniel Paul Burbank, Sioux Falls,
S.D.

Michael A. Colson, Minneapolis

Daniel Peter Korolchuk, White Bear
Lake

Erling Joel Peterson, Duluth

Alden Chester Russell III,
Minneapolis

Bachelor of Science in Geology

Douglas Owen Phair, A.A., Rapid
City, S.D.

James Robert Poppe, St. Paul

Certificate in Science

Richard Russell Giese, Minneapolis

Duane Dunton Steuart, B.S.B.,
Owatonna

UNIVERSITY COLLEGE

Bachelor of Arts

Mary Lou Gilstad, South St. Paul
Marsha Rae Gronseth, Minneapolis,
with distinction

John Edwin Gustafson, Minneapolis
Barbara Ann Schwartz, Minneapolis

Bachelor of Science

Bruce William Doepke, Minneapolis
Robert Alvin Ducharme, Minneapolis
Thomas James Eagan, A.A.,
Minneapolis
Sherry Lynn Eckert, Dallas, Tex.,
with distinction
Mitchell Todd Fink, A.A., St. Paul
Leland Vernon Fletcher, Minneapolis
Geraldine Yvonne Holland, A.A.,
Minneapolis
Rosslyn Shore Kleeman, Washington,
D.C.
Lynn Powers Knieff, A.A., Deerwood
Donald Severin Knutson, A.A., Way-
zata
David Alan Levin, Bloomington

Susan Jean Lund, Roseville
Michael James McDonough, Virginia,
with distinction
Ralph Alan Mertesporf, Minneapolis
Sybil B. Nies, Brainerd
Harold Payne, Minneapolis
De Wayne Martin Pierce, Wadena
Lucille Charlotte Powers, Minneapolis
James E. Sackett, Dodge Center
Otis Lee Sanders, Miami, Fla.
Lisa Jane Sether, Albert Lea
Harvey Allan Stillman, Minneapolis
Barbara Dorothea Tenney, G.D.H.,
Wayzata

December Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

John R. Garry, Guckeen

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Corps of Engineers

Daniel P. Korolchuk, White Bear Lake

Second Lieutenant, Infantry

Bruce F. Lindholm, Golden Valley Steven R. Swanson, New Orleans, La.

Second Lieutenant, Medical Service Corps

Michael J. Kempffer, Edina

Second Lieutenant, Military Intelligence

Thomas C. Michelson, Minneapolis

Second Lieutenant, Quartermaster Corps

John S. Nelson, Montrose

Second Lieutenant, Signal Corps

Forrest J. Hassell, White Bear Lake

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Dale R. Carlson, St. Louis Park

Ensign, USNR

David P. Peterson, Minneapolis

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.

President's Reception

DECEMBER 13, 1972

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.

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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