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UNIVERSITY OF MINNESOTA
June Commencement, 1974

SATURDAY EVENING, JUNE 15, 7:30 P.M.
GRANDSTAND AREA
MINNESOTA STATE FAIRGROUNDS

Board of Regents

The Honorable Elmer L. Andersen, St. Paul
The Honorable Fred A. Cina, Aurora
The Honorable Lauris D. Krenik, Madison Lake
The Honorable L. J. Lee, Bagley
The Honorable Lester A. Malkerson, Minneapolis
The Honorable Wenda Moore (Mrs. Cornell), Minneapolis
The Honorable George W. Rauenhorst, Olivia
The Honorable Neil C. Sherburne, Lakeland Township
The Honorable Loanne R. Thrane (Mrs. Ralph), Chanhassen
The Honorable David C. Utz, M.D., Rochester
The Honorable Kathryn Vander Kooi (Mrs. Benjamin), Luverne
The Honorable John A. Yngve, Plymouth

Central Executive Officers

Malcolm Moos, President
Duane A. Wilson, Secretary to the Board of Regents
James F. Brinkerhoff, Vice President for Finance, Planning, and Operations
Paul H. Cashman, Vice President for Student Affairs
Harold W. Chase, Acting Vice President for Academic Administration
Lyle A. French, Vice President for Health Sciences
Stanley B. Kegler, Vice President for Administration
Stanley J. Wenberg, Vice President for State and Federal Relations

ATTENTION EDUCATION MAJORS: See page 136 for supplemental list of education students graduating with distinction or high distinction.

Your University

CHARTERED in 1851 by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and twenty-third birthday. One of the great land-grant universities in the nation, the University of Minnesota is dedicated to training young men and women to be our future leaders. Each year, graduates leave our campuses to add new skills and knowledge to the existing resources of the state. They have been trained as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, scientists, farmers, businessmen—to name but a few of the careers for which preparation is offered. Since its founding, the University has awarded more than 265,000 degrees, each one in recognition of the successful completion of a challenging academic program.

In addition to giving collegiate instruction to nearly 50,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Waseca campuses and at the Mayo Medical and Graduate Schools in Rochester, the University offers, through Continuing Education and Extension programs, special training for those who wish to study on a part-time basis. The University also offers educational opportunities through its Agricultural Extension Service, with county agents, home agents, 4-H club agents, and recreation and health consultants available throughout the state to provide help to Minnesotans in their own homes.

In the many research laboratories on the University's five campuses, at the agricultural experiment stations located throughout the state, at the Rosemount Research Center, the Cloquet Forestry Center, the Cedar Creek Natural History Area near Bethel, the Horticultural Research Center and Landscape Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Horticulture Center at Duluth, the Sand Plain Experimental Field at Elk River, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are at work on countless experiments of great potential importance to the quality of our lives. Research projects are leading to new knowledge in such areas as learning disabilities, drug abuse, urban and environmental problems, rural/urban migration, health care delivery systems, and computer technology, to name only a few. The progress being made in these and other areas will have a profound impact on the lives of Minnesotans and people throughout the world.

THE UNIVERSITY continues to be the great cultural center of the Upper Midwest. It is the home of the University Artists Course, the University of Minnesota Television Hour, Radio Station KUOM, the University Theatre, the Bell Museum of Natural History, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings important artists and lecturers to more than a million persons annually.

Minnesotans have good reason to be proud of their University, not only because it is one of the leading state universities in the country, but also because of the extent and quality of its services to the people of the state, their families, communities, and organizations. The interest of Minnesotans in their University is a dynamic thing, and it expresses itself in many ways. Their contributions have made it possible to build the Variety Club Heart Hospital and the Mayo Memorial Building. Through the American Legion

and its auxiliary posts all over the state, thousands of friends have made generous donations to endow a research professorship in heart disease. Other contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall, which houses the biomedical library and other medical research facilities.

Just as generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose efforts have made hundreds of grants and fellowships available to deserving students. As the University moves toward emphasis on upper division, graduate, and professional programs, educational costs will increase. Friends and supporters of the University, who are aware of the financial impact of increased specialization, work continuously to increase the funds available for student assistance.

THE 1973 LEGISLATURE appropriated \$240,306,221 for the University's operating expenses during the 1973-75 biennium. Of that amount, \$185,852,478 was designated for general operations and maintenance, \$13,072,538 for the University Hospitals, \$1,747,532 for the Waseca Technical College, \$2,320,548 for the Crookston Technical College, and \$32,493,034 for new buildings, land, and the rehabilitation of existing buildings. In addition, \$37,313,125 was received in special appropriations, for funding of projects such as special research and extension activities.

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

COMMENCEMENT marks the conclusion only of the student's academic life at the University. As a graduate, he or she is part of its history and part of its future as well. Alumni are urged to continue their relationship with the University through the Minnesota Alumni Association and its college groups.

Alumni and their families and friends will always be welcome here. The University's doors will be open to those who come back to visit and to keep in touch with an important part of their lives.

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their families and friends reach the Grandstand area of the Fairgrounds this evening, they will hear the University Concert Band and Symphony Band Ensembles in a prelude concert from 7:00 to 7:30 p.m.

The Bands are conducted by Dr. Frank Bencriscutto, A.Mus.D., College of Liberal Arts.

<i>March of the Steel Men</i>	Belsterling
<i>Porgy and Bess</i> Selections	Gershwin
<i>The King and I</i>	Rodgers
<i>Minnesota March</i>	Sousa

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

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

During the procession the Bands will play:

<i>Sinfonians</i>	Williams
<i>March from the Original Suite</i>	Jacobs
<i>Academic Procession</i>	Grandman

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

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

INVOCATION: (the audience still standing): The Reverend Gordon J. Dahl, Ph.D., Senior Pastor, Lutheran Campus Ministry, and member of the Council of Religious Advisors at the University.

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

President's Trio Bencriscutto
Written for and dedicated to President Malcolm Moos

PRESENTATION OF THE AMOCO FOUNDATION-HORACE T. MORSE AWARDS: President Moos and Vice President Paul H. Cashman, Ph.D., Student Affairs.

Assistant Professor ~~Donald F.~~ ^{Ronald L.} Chastain, M.A., College of Liberal Arts
Professor Roger D. Clemence, M.L.A., Institute of Technology
Professor Forrest J. Harris, M.A., General College
Professor Donald B. Lawrence, Ph.D., College of Biological Sciences
Professor Arnett C. Mace, Ph.D., College of Forestry
Professor Gerhard Neubeck, Ed.D., College of Home Economics

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

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

CONFERRING OF THE DEGREE OF DOCTOR OF PHILOSOPHY: After each new Doctor of Philosophy has been hooded, Dean May Brodbeck, Ph.D., Graduate School, will present him or her to President Moos. Assisting them will be Faculty Marshals Professor Albert W. Frenkel, Ph.D., College of Biological Sciences; Professor Robert J. Isaacson, Ph.D., School of Dentistry; Assistant Professor Ida M. Martinson, Ph.D., School of Nursing; and Mr. Charles Liesenfelt, M.A., Admissions and Records.

Yankee Doodle Gould

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

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

Acting Dean John A. Goodding, Ph.D., College of Agriculture
Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences
Dean C. Arthur Williams, Ph.D., College of Business Administration
Associate Dean Donald Z. Woods, Ph.D., Continuing Education and Extension
Professor Robert J. Isaacson, Ph.D., School of Dentistry
Dean Jack C. Merwin, Ph.D., College of Education
Dean Frank H. Kaufert, Ph.D., College of Forestry
Associate Dean Frank T. Benson, Ph.D., General College
Dean Keith N. McFarland, Ph.D., College of Home Economics
Dean Carl A. Auerbach, J.D., Law School
Dean Frank J. Sorauf, Ph.D., College of Liberal Arts
Dean N. L. Gault, M.D., Medical School

Dean M. Isabel Harris, Ph.D., School of Nursing
Dean Lawrence C. Weaver, Ph.D., College of Pharmacy
Assistant Dean Robert Veninga, Ph.D., School of Public Health
Assistant Dean Paul A. Cartwright, M.S., Institute of Technology
Dean Barbara Knudson, Ph.D., University College
Dean Sidney A. Ewing, D.V.M., College of Veterinary Medicine

There will be no Recessional. As Mr. Jorgenson steps to the microphone, the audience is invited to rise and join him in singing the University of Minnesota Rouser and the University's Alma Mater, *Hail! Minnesota.*

MINNESOTA ROUSER:

Minnesota, hats off to thee!
To thy colors true we shall ever be;
Firm and strong, united are we,
Rah! Rah! Rah! for Ski-U-Mah,
Rah! Rah! Rah! Rah!
Rah! for the U. of M.

HAIL! MINNESOTA:

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.

PRESIDENT'S RECEPTION

The President's Reception on the *Ramp Level* of the Grandstand immediately follows the ceremony. (The reception will not be in the East Room as previously announced.) The Ramp Level may be reached via the stairwells in the Grandstand seating area or the ramp over Commonwealth Avenue.

Flags

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

Richard Roemer Barnwell,
Cheektowaga, N.Y.

B.S. '60, M.S. '64, State University College at Buffalo. Major: Vocational Education. Minor: Supporting Program. Thesis: Derivation and Initial Assessment of a Model Vocational Education Program for New York State Correctional Facilities. Major Adviser: Prof. Jerome Moss, Jr.

Marven Martin Rosen,
South St. Paul

B.S. '53, Winona State College; M.A. '54, Colorado State College. Major: Educational Administration. Minor: Education. Thesis: Community Opinion Polling and the Schools: A Case Study of the South Saint Paul Community-School Opinion Survey. Major Adviser: Prof. V. D. Mueller.

Doctor of Philosophy

Linda Potter Acredolo,
Tonawanda, N.Y.

B.A. cum laude '69, Bucknell University. Major: Child Psychology. Minor: Supporting Program. Thesis: Frames of Reference Used by Children for Orientation in Unfamiliar Spaces. Major Adviser: Prof. H. L. Pick.

Ashok Kumar Agarwal, Nakur, India
B.E. '64, Birla Institute of Technology and Science, Pilani; M.S. '66, University of Minnesota. Major: Operations Research. Minor: Mathematics. Thesis: Synthesis of Multiterminal Communication Nets. Major Adviser: Prof. S. R. Arora.

Jean-Loup Andre Ardoin,
Paris, France

H.E.C. '69, Hautes Etudes Commerciales. Major: Business Administration. Minor: Sociology. Thesis: A Study of Some Implications of the Translation of Financial Statements for the Financial Management of a Foreign Subsidiary. Major Adviser: Prof. J. C. Gray.

Patricia Mary Barnett,
Manchester, England

B.A. '64, St. Anne's College. Major: English. Minor: Supporting Program. Thesis: English Boys' Weeklies, 1866-1899. Major Adviser: Prof. C. G. Anderson.

Gerald Lee Begy, Rochester, N.Y.

B.A. '66, St. Bernard's College. Major: Education. Minor: Educational Psychology. Thesis: Comparisons of Word Recognition Speed and Word Recognition Strategies for Good and Poor Readers. Major Adviser: Prof. J. C. Manning.

Nila Nelson Bender, Madison, Wis.

B.S. '57, University of Wisconsin. Major: Educational Psychology. Minor: Child Psychology. Thesis: The Effects of Verbal Self-Instruction and Strategy Training on Normal Impulsive and Mildly Retarded Children. Major Adviser: Prof. J. E. Turnure.

Gail Rhian Benjamin, Minneapolis

B.A. '64, Michigan State University; M.A. '69, University of Minnesota. Major: Anthropology. Minor: Linguistics. Thesis: The Non-Linguistic Content of Speech in Japanese. Major Adviser: Prof. H. B. Sarles.

Gary Wayne Bickel,
Longmont, Colo.

B.S. '61, Massachusetts Institute of Technology. Major: Physics. Minor: Supporting Program. Thesis: A Study of the Nonlinear Optical Properties of Proustite. Major Adviser: Prof. R. J. Collins.

Keith Orel Boyum, Fullerton, Calif.
B.A. '67, University of North Dakota;
M.A. '71, University of Minnesota. Major:
Political Science. Minor: Supporting Pro-
gram. Thesis: Delay in Trial Court Civil
Calendars: The Influence of Judicial
Roles. Major Adviser: Prof. Samuel Krislov.

Sister Michaea Byron, Waseca
B.S. '54, College of St. Teresa; M.S. '56,
Iowa State University. Major: Education.
Minor: Supporting Program. Thesis: Au-
thoritarianism as Related to Cognitive
Complexity-Simplicity and Descriptive-
Judgmental Dimensions of Differentiation
in Interpersonal Perception. Major Ad-
viser: Prof. M. M. Brown.

Winston Wen-Jong Chen,
Taipei, Republic of China
B.M. '66, National Taiwan University.
Major: Physiology. Minor: Dentistry. The-
sis: Fusimotor Effect on the Sensitivity of
Mammalian Muscle Spindles. Major Ad-
viser: Prof. R. E. Poppele.

Jones Wan-shen Chien,
Republic of China
B.S. '65, National Taiwan University;
M.S. '67, University of Waterloo. Major:
Physics. Minor: Supporting Program. The-
sis: Elastic Scattering from 18 to 30 MEV
(LAB). Major Adviser: Prof. R. E. Brown.

Harold Sung Chu
B.S. '54, Seoul National University; M.A.
'68, University of Minnesota. Major: Jap-
anese. Minor: Chinese. Thesis: Structural
Analysis of Eleven Long Poems in the
Man'yōshū. Major Adviser: Prof. E. M.
Copeland.

Ailene Hileve Cole, Minneapolis
B.A. summa cum laude '36, Gustavus
Adolphus College; M.A. '49, University of
Minnesota. Major: Theatre Arts. Minor:
English. Thesis: The Grotesque in Selected
Representative Playwrights of Twentieth
Century Continental Western Europe.
Major Adviser: Prof. K. L. Graham.

Arthur Frank Colombo, Bloomington
B.Min.E. '54, M.S. '58, University of
Minnesota. Major: Metallurgical Engineer-
ing. Minor: Industrial Engineering. Thesis:
An Evaluation of the Factors Affecting
the Dispersion-Selective Flocculation Flo-
tation of Iron Ores. Major Adviser: Prof.
S. R. Cooke.

Bruce Robert Cords, LeSueur
B.S. with distinction '70, M.S. '72, Uni-
versity of Minnesota. Major: Food Science
and Industries. Minor: Biochemistry. The-
sis: Loss of Lactose Metabolism in Group
N Streptococci. Major Adviser: Prof. L. L.
McKay.

Harold Edward Crawford,
Boonton, N.J.
B.A. '61, St. Thomas College; M.A. '63,
University of Minnesota. Major: Speech-
Communication. Minor: Supporting Pro-
gram. Thesis: A Descriptive Analysis of
the Employee Appraisal Interview in an
Industrial Organization. Major Adviser:
Prof. W. S. Howell.

Gary Gaston De Grande,
East Moline, Ill.
B.S. '70, University of Illinois. Major:
Chemistry. Minor: Supporting Program.
Thesis: An Approach to the Synthesis of
the Macrolide Antibiotics. Major Adviser:
Prof. R. F. Borch.

Aaron Dehter, Buenos Aires,
Argentina
Lic. '66, University of Buenos Aires; M.A.
'70, University of Minnesota. Major: Agri-
cultural Economics. Minor: Economics.
Thesis: Economic Analysis of an Urban
Center as a Potential Growth Pole: An
Argentine Case. Major Co-Advisers: Profs.
W. R. Maki and D. F. Fienup.

Mario Federico del Carril,
Buenos Aires, Argentina
Cert. '66, Macalester College. Major:
Philosophy. Minor: Supporting Program.
Thesis: Tokens, Types and Subjects (A
Puzzle in Identity and Subjectivity). Major
Adviser: Prof. Keith Gunderson.

James Lee De Young, Monmouth, Ill.
B.A. '59, Beloit College; M.A. '60, Bow-
ling Green State University. Major: Theatre
Arts. Minor: Comparative Literature. The-
sis: A Study of the Theatrical Criticism
of Kenneth Tynan from 1951-1963. Major
Adviser: Prof. J. D. Hurrell.

Daniel Joseph Duffy, Tama, Iowa
B.S. '67, University of Iowa. Major:
Chemistry. Minor: Supporting Program.
Thesis: Nuclear Magnetic Resonance Stud-
ies of Stereochemically Nonrigid Tris
(Dithiocarbamate) Complexes of Iron and
Ruthenium. Major Adviser: Prof. L. H.
Pignolet.

Barton Bayard Dunning, St. Paul
B.A. '66, Grinnell College; M.S. '70,
Tulane University. Major: Physiology.
Minor: Supporting Program. Thesis: A
Quantitative and Comparative Analysis of
the Tonic Electroreceptors of *Gnathonemus*,
Gymnotus, and *Kryptopterus*. Major Ad-
viser: Prof. R. E. Poppele.

Barbara Lynn Edgar, Tower
B.A. magna cum laude '65, University of Minnesota, Duluth. Major: Chemistry. Minor: Internal. Thesis: Nuclear Magnetic Resonance Studies of Stereochemically Nonrigid Dithiocarbamate Complexes of Iron (II) and Ruthenium (II). Major Adviser: Prof. L. H. Pignolet.

Chloe Ione Elmgren, Minneapolis
B.A. '44, Concordia College; M.B.A. '52, University of Denver. Major: Education. Minor: Supporting Program. Thesis: A Comparison of the Relative Effectiveness of Two Types of Economics Courses in Selected Junior Colleges. Major Adviser: Prof. C. R. Hopkins.

Leon Flemembaum, Cali, Colombia
B.S.C.E. '63, National University of Colombia; M.S.C.E. '67, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Kinetics of Substrate and BOD Removal in Activated Sludge. Major Adviser: Prof. W. J. Maier.

James Charles Fox, St. Paul
B.A. '69, M.A. '72, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Police Problem Solving: A Social Psychological Approach to Police Behavior. Major Adviser: Prof. J. P. Clark.

Mark L. Fuehrer, Fargo, N.D.
B.A. '65, College of St. Thomas; M.A. '68, University of Minnesota. Major: Philosophy. Minor: History. Thesis: The Development of Kant's Moral Theology (In the *Religion Within the Limits of Reason Alone*). Major Adviser: Prof. N. O. Dahl.

Michael Wilson Gillespie,
Edmonton, Alberta, Canada
B.A. '63, M.A. '66, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Dating for Status: A Study of the Dating Values and Behavior of Fraternity and Sorority Members. Major Adviser: Prof. I. L. Reiss.

Arthur Wayne Hafner, Fort Wayne,
Ind.
B.S. '65, Purdue University; M.S. '69, M.A. '70, University of Minnesota. Major: Library Science. Minor: Supporting Program. Thesis: Characteristics of the Research Literature of Physiology During the Period 1970-1972. Major Adviser: Prof. W. C. Simonton.

Henry Arthur Hanson, St. Paul
B.M.E. with distinction '66, M.S. '68, University of Minnesota. Major: Mechanical Engineering. Minor: Mathematics. Thesis: The Deliquescent Properties of Aerosols. Major Adviser: Prof. K. T. Whitby.

Bo Erik Hedlund, Malmo, Sweden
Fil.Kand. '68, University of Uppsala. Major: Biochemistry. Minor: Chemistry. Thesis: A Study of the Interactions Between 2,3-Diphosphoglycerate, Adenosine Triphosphate and Hemoglobin. Major Adviser: Prof. R. E. Lovrien.

Richard Olaf Hegg, Bruce, S.D.
B.S. '67, South Dakota State University; M.S. '68, University of Missouri. Major: Agricultural Engineering. Minor: Animal Physiology. Thesis: Nitrification of Aerated Beef Wastes at Reduced Temperatures. Major Adviser: Prof. E. R. Allred.

Norlin Albert Hein
B.S. '58, University of Minnesota; M.S. '68, North Dakota State University. Major: Agricultural Economics. Minor: Operations Research. Thesis: A Management Planning, Control and Analysis System for Midwest Beef Feedlots. Major Adviser: Prof. W. B. Sundquist.

Paul Styring Higgins, Minneapolis
B.A. '63, Yale College; M.A.Ed. '68, Clark University. Major: Psychology. Minor: Supporting Program. Thesis: Evaluation of the Minnesota Youth-Advocate Delinquency-Rehabilitation Program. Major Adviser: Prof. D. T. Lykken.

Ping-Hwa Hsu
B.S.Ag. '63, National Taiwan University; M.S. '70, University of Alberta. Major: Biometry. Minor: Supporting Program. Thesis: Population Regulation in Ecosystems. Major Adviser: Prof. A. G. Fredrickson.

Wallace Harlan Hustad,
Eden Prairie
B.A. '55, St. Olaf College; M.A. '69, University of Minnesota. Major: Sociology. Minor: Anthropology. Thesis: The Paradox of Suburbanization. Major Adviser: Prof. D. A. Martindale.

Mildred Myrtle Huttenmaier,
Minneapolis
B.Mus. '46, University of Nebraska; M.A. '55, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Study of Personality as an Influence in Childrens' Friendship Choices. Major Adviser: Prof. M. D. Hall.

Hussein Goma Ibrahim,
Alexandria, Egypt
B.Pharm. with honor '64, Dip.Pharm. with honor '66, University of Alexandria. Major: Pharmaceutics. Minor: Chemistry. Thesis: Liquid Crystals as Solvent Media for Orientation Dependent Reactions. Major Adviser: Prof. E. G. Rippie.

Dharapuram Sanjeevi Jagannathan,
Tiruppur, India
B.E. '63, M.S. '67, University of Madras.
Major: Civil Engineering. Minor: Support-
ing Program. Thesis: Nonlinear Analysis
of Reticulated Space Trusses. Major Ad-
viser: Prof. H. E. Epstein.

John William Johnson,
Saratoga Springs, N.Y.
B.A. magna cum laude '68, St. Olaf Col-
lege; M.A. '70, University of Minnesota.
Major: American Studies. Thesis: The Di-
mensions of Non-Legal Evidence in the
American Judicial Process. Major Adviser:
Prof. P. L. Murphy.

Richard Ray Johnson, Odebolt, Iowa
B.S. '69, M.S. '70, Iowa State University.
Major: Plant Physiology. Minor: Plant
Breeding. Thesis: Barley and Wheat
Spikes as Photosynthetic Organs. Major
Adviser: Prof. D. N. Moss.

Paul William Kamienski, Warren,
Mass.
B.S. cum laude '69, University of Mass-
achusetts; M.S. '72, University of Minne-
sota. Major: Chemical Engineering.
Minor: Supporting Program. Thesis: Tri-
boeification of Aerosol Particles by
Impactation. Major Adviser: Prof. W. E.
Ranz.

Paul Marvin Kintner, Jr.,
Minneapolis
B.S. '68, University of Rochester. Major:
Physics. Minor: Supporting Program. The-
sis: A Study of the Auroral Substorm by
Sounding Rocket. Major Adviser: Prof.
L. J. Cahill, Jr.

Willard Martin Kniep, St. Paul
B.S. '64, Concordia Teachers College;
M.A. '72, University of Minnesota. Major:
Education. Minor: Supporting Program.
Thesis: A Study of the Effect on Social
Studies Achievement of High Level
Questions with Conditions of Prior Train-
ing and Positive Reinforcement. Major
Adviser: Prof. J. E. Stochl.

David James Krus, Minneapolis
Prom.Psych. '65, Charles University. Major:
Psychology. Minor: Supporting Program.
Thesis: Order Analysis: Theory and
Method. Major Adviser: Prof. D. J. Weiss.

Patricia Helen Krus, Bloomington
B.A. '69, M.A. '70, University of Minne-
sota. Major: Educational Psychology. Mi-
nor: Supporting Program. Thesis: Use of
Family History Data to Predict Intellectual
and Educational Functioning at Ages
Four Through Seven. Major Adviser: Prof.
F. H. Wood.

Jean Francois Ledent, Soignes,
Belgium
Ing.Ag. '67, Catholic University of Lou-
vain; M.S. '69, Texas A & M University.
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Canopy Architecture, and Leaf Angle in
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B.A. '64, M.B.A. '65, University of Minne-
sota. Major: Business Administration. Mi-
nor: Supporting Program. Thesis: A Study
of Errors, Error-Proneness and Error
Diagnosis of Programming Languages
with Special Reference to Cobol. Major
Adviser: Prof. G. B. Davis.

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B.S. '69, Wisconsin State University.
Major: Chemistry. Minor: Supporting
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B.Comm. '62, M.Comm. '71, University
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stration. Minor: Supporting Program. The-
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Major: Soil Science. Minor: Geology.
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Economy of Scale for a Mass Transit Sys-
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Major: Organic Chemistry. Minor: Supporting Program. Thesis: I: Studies in the Reactions of Metacyclophanes. II: The Synthesis of Indenes. Major Adviser: Prof. W. E. Parham.

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B.S. '70, University of Wisconsin; M.S. '72, University of Minnesota. Major: Plant Breeding. Minor: Plant Pathology. Thesis: Optimum Culm Number in Barley (*Hordeum Vulgare* L. Emend. Lam.). Major Adviser: Prof. D. C. Rasmusson.

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sis: The Effect of Duration of Stimulus
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B.A. with honors '71, University of Notre
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M.S. '71, University of Minnesota. Field
of Concentration: Business Administration.
Major Adviser: Prof. D. C. Hastings.

Gerald Burdette Hanson,
Elk Point, S.D.

B.S. '68, University of South Dakota. Field
of Concentration: Business Administration.
Major Adviser: Prof. A. R. Solem.

Kerry John Juntti, Minneapolis
B.S.B. '70, University of Minnesota. Field
of Concentration: Business Administration.
Major Adviser: Prof. D. V. Harper.

Thomas Walter Kenyon, Excelsior
B.A. '68, Carleton College. Field of Con-
centration: Business Administration. Major
Adviser: Prof. D. V. Harper.

Royce Dean King, New Brighton
B.S. '61, Iowa State University. Field of
Concentration: Business Administration.
Major Adviser: Prof. D. V. Harper.

Bergthor Konradsson,
Reykjavik, Iceland
Cand.Oecon. '71, University of Iceland.
Field of Concentration: Business Admin-
istration. Major Adviser: Prof. O. C.
Walker.

Barry Kent Levins, Cass Lake
B.S.I.E. '70, University of North Dakota.
Field of Concentration: Business Admin-
istration. Major Adviser: Prof. P. V.
Grambsch.

Gerald Charles Mimick, Minneapolis
B.S.E.E. '64, University of Nebraska.
Field of Concentration: Business Admin-
istration. Major Adviser: Prof. D. V. Harp-
er.

Tomruk Özden, Istanbul, Turkey
B.A. with honors '71, Robert College.
Field of Concentration: Business Admin-
istration. Major Adviser: Prof. M. A. Zaidi.

William Joseph Rennické, Jr.,
North Haven, Conn.
B.S.B.A. '68, Georgetown University. Field
of Concentration: Business Administration.
Major Adviser: Prof. D. V. Harper.

K. Sairamachandran, Delhi, India
B.S. '65, M.S. '67, University of Madras.
Field of Concentration: Business Admin-
istration. Major Adviser: Prof. R. N. Car-
dozo.

Fidel Salgado-Garcia,
Bogotá, Colombia
B.S.E.E. '72, Massachusetts Institute of
Technology. Field of Concentration: Busi-
ness Administration. Major Adviser: Prof.
N. L. Chervany.

Jirasak Samathivathanachai,
Bangkok, Thailand
LL.B. with honors '69, University of Chu-
lalongkorn. Field of Concentration: Busi-
ness Administration. Major Adviser: Prof.
Ivan Ross.

Calvin Rong-Jing Shieh,
Chang-Hwa, Taiwan
B.C. '70, National Chengchi University.
Field of Concentration: Business Admin-
istration. Major Adviser: Prof. D. C. Hast-
ings.

Robert Eugene Sirany, Minneapolis
B.M.E. '68, University of Minnesota. Field
of Concentration: Business Administration.
Major Adviser: Prof. D. V. Harper.

Steven Craig Williams, Richfield
B.A. '70, University of Minnesota. Field
of Concentration: Business Administration.
Major Adviser: Prof. R. K. Gaumnitz.

Master of Fine Arts

Barbara Anne Cooke, Joliet, Ill.
B.A. '70, College of St. Francis. Field of Concentration: Theatre Arts. Major Adviser: Prof. R. D. Moulton.

Master of Science

Thomas Glen Barker, Golden Valley
B.S. '71, University of Minnesota. Major: Food Science and Industries. Minor: Nutrition. Thesis: Development and Application of a Texture Measurement Procedure for Textured Vegetable Protein. Major Adviser: Prof. W. M. Breene.

Jaime N. Bascunan
Ing. Ag. '71, Catholic University of Chile. Field of Concentration: Animal Science. Major Adviser: Prof. R. J. Meade.

Joseph Herbert Bolduan, Maple Lake
B.A. '57, St. Paul Seminary. Field of Concentration: Business Administration. Major Adviser: Prof. A. K. Wickesberg.

Miguel Rafael Bracho, Minneapolis
D.V.M. '70, Universidad Nacional Autonoma de Mexico. Field of Concentration: Veterinary Surgery and Radiology. Major Adviser: Prof. T. H. Brasmer.

Jon Stuart Claus, Sedro Woolley,
Wash.

B.S. with distinction '72, Washington State University. Major: Agronomy. Minor: Plant Physiology. Thesis: *Agropyron repens* Control with Glyphosate and Cyanazine. Major Adviser: Prof. Richard Behrens.

Susan Jan Coiner, Alpha, Iowa
B.A. '68, University of Northern Iowa. Major: Zoology. Minor: Statistics. Thesis: Some Aspects of the Behavior and Physiology of the Chipmunk, *Tamias Striatus*. Major Adviser: Prof. W. D. Schmid.

David Lee Doran, Mendota, Ill.
B.S. '72, Western Illinois University. Major: Agronomy. Minor: Plant Physiology. Thesis: Activity of Bentazon on Soybeans and Broadleaf Weed as Affected by Some Environmental Conditions. Major Adviser: Prof. R. N. Andersen.

Dean Stanley Fairchild, Milan
B.S. '67, University of Minnesota. Major: Soil Science. Minor: Agronomy. Thesis: Effect of Sulfur Fertilization on Various Crops Grown on Southern and Western Minnesota Soils. Major Adviser: Prof. Janis Grava.

Elroy Arthur Flom, Minneapolis
B.A. cum laude '71, St. Olaf College. Major: Chemistry. Minor: Internal. Thesis: The Interaction of Metal Carbonyl Anions with Carbon Disulfide. Major Adviser: Prof. J. E. Ellis.

Jeffrey Scott Fuhs, St. Paul
B.S. with high distinction '71, University of Minnesota. Field of Concentration: Forestry. Major Adviser: Prof. R. A. Skok.

Olie Ray Garrison, Arlington, Tex.
B.S. '71, University of Texas. Major: Biochemistry. Minor: Microbiology. Thesis: Purification of α_1 AT from Human Serum and Its Partial Characterization. Major Adviser: Prof. I. E. Liener.

Steven Marvin Goldfarb, St. Paul
B.A. cum laude '71, University of Minnesota. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. J. A. Leavitt.

James Stephen Gross, Minneapolis
B.A. cum laude '69, St. Mary's College. Field of Concentration: Physics. Major Adviser: Prof. B. F. Bayman.

Khaled M. Hangari
B.S. '70, University of Libya. Major: Mineralogy and Petrology. Minor: Related Fields. Thesis: Mineralogy of the Wadi Shatti Iron Ore of Southern Libya. Major Adviser: Prof. H. T. Hall.

James Clarence Hanson,
Silver Spring, Md.
B.S. with high honors '72, University of Maryland. Major: Plant Breeding. Minor: Plant Physiology. Thesis: Leaf Vein Frequency in Barley. Major Adviser: Prof. D. C. Rasmusson.

Naomi Margaret Quast Hanson,
Fridley
B.S. with high distinction '67, University of Minnesota. Major: Medical Technology. Minor: Biochemistry. Thesis: Studies of a Kinetic Assay for Total and Cardiac Lactate Dehydrogenase. Major Adviser: Prof. E. F. Freier.

Willard Arnold Hareland,
Hannaford, N.D.

B.S. '67, North Dakota State University;
M.S. '70, University of Idaho. Major: Biochemistry. Minor: Chemistry. Thesis: Studies on the Enzymatic Hydroxylation of Benzenoid Compounds by Bacteria. Major Adviser: Prof. Stanley Dagley.

Emerson Hevia, Caracas, Venezuela
Lic. '70, Central University of Venezuela. Field of Concentration: Business Administration. Major Adviser: Prof. G. W. Dickson.

James Robert Hofmann, Minneapolis
B.S. cum laude '69, St. John's University. Field of Concentration: Physics. Major Co-Advisers: Profs. Morton Hamermesh and R. H. Stuewer.

Ergün İltter, Ankara, Turkey
Dip. '64, University of Istanbul. Field of Concentration: Forestry. Major Adviser: Prof. R. D. Thompson.

Cyril Chukwumma Iroegbu,
Old Umuahia, Nigeria
B.S. '65, M.S. '71, University of Ibadan. Field of Concentration: Agricultural Economics. Major Adviser: Prof. M. J. Purvis.

Arvid W. Johnson, Siren, Wis.
B.S. '72, University of Minnesota. Major: Forestry. Minor: Statistics. Thesis: Impact Strength of Particleboard. Major Adviser: Prof. J. G. Haygreen.

Kenneth Lee Johnson, Hopkins
B.S.E.E. '65, University of Wisconsin. Field of Concentration: Computer and Information Sciences. Major Adviser: Prof. A. R. Hanson.

Robert William Jolly, Minneapolis
B.S. with distinction '68, University of Minnesota. Field of Concentration: Agricultural Economics. Major Adviser: Prof. M. E. Abel.

Thomas Paul Krick, St. Paul
B.S. '69, University of Notre Dame. Major: Physics. Minor: Internal. Thesis: Elastic and Inelastic Alpha Scattering Off ¹⁹F. Major Adviser: Prof. N. M. Hintz.

Bruce Allan Labno, Lake Zurich, Ill.
B.S. '71, University of Dayton. Major: Hydrogeology. Minor: Civil Engineering. Thesis: Hydrogeological Implications of Chemical Waste Disposal in a Glaciated Terrain, Rosemount, Minnesota. Major Adviser: Prof. H. O. Pfannkuch.

Gertrude Ann Mazanec, St. Paul
B.S. '71, College of St. Catherine. Field of Concentration: Nursing. Major Adviser: Prof. M. I. Harris.

Ross Farquharson McCurdy, Halifax,
Nova Scotia, Canada

B.S. '71, St. Mary's University. Major: Environmental Health. Minor: Biometry. Thesis: Settleable Particulatis, Sydney, Nova Scotia. Major Adviser: Prof. H. J. Paulus.

Joseph Kevin McLaughlin, Springfield, Pa.

B.A. summa cum laude '71, West Chester State College. Field of Concentration: Environmental Health. Major Adviser: Prof. H. J. Paulus.

Ellen Marie Neese, St. Paul
B.S. magna cum laude '68, University of North Dakota. Field of Concentration: Nutrition. Major Adviser: Prof. L. M. Morse.

Chanho Park, Seoul, Korea
B.S. '69, Seoul National University. Major: Food Science and Industries. Minor: Biometry. Thesis: An Ecological Study of Lactic Streptococci: Attempts to Isolate New Starter Cultures. Major Adviser: Prof. L. L. McKay.

Judith Ann Peterson
B.S. '65, Mankato State College. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Cecil Theodric Ponders, Jr.,
Red Bay, Ala.

B.S. '72, Auburn University. Major: Horticulture. Minor: Plant Breeding. Thesis: Studies of the Second-Brood European Corn Borer Resistance of B52 and Its Transmission to Four Sweet Corn Inbreds. Major Adviser: Prof. D. W. Davis.

Maria Victoria Rivera
D.V.M. '67, Universidad Nacional Autónoma de Mexico. Field of Concentration: Veterinary Microbiology. Major Adviser: Prof. B. S. Pomeroy.

Roger Allen Rollings, Clay City, Ind.
B.S. '71, Purdue University. Major: Agricultural Economics. Minor: Statistics. Thesis: The Effects of Alternative Taxing Systems on Minnesota Farms. Major Adviser: Prof. F. J. Smith, Jr.

Robert David Ronay, Richfield
B.S. '69, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. E. H. Lewis.

David Robert Roslansky, Lakeland
B.S. with honors '72, California State Polytechnic College. Major: Agronomy. Minor: Plant Physiology. Thesis: Control of *Phalaris arundinacea* L. Seedlings in Cult-Propagules of *P. arundinacea*. Major Adviser: Prof. G. C. Marten.

Robert Bruce Sawicki, New Brighton
B.S. '72, University of Minnesota. Field
of Concentration: Forestry. Major Adviser:
Prof. J. G. Haygreen.

Gary Walfred Sjolander, Minneapolis
B.Phys. with distinction '70, University of
Minnesota. Major: Physics. Minor: Mathe-
matics. Thesis: Specific Heat Measure-
ments at the Spin-Reorientation in YbFe-
O₃. Major Adviser: Prof. W. V. Weyh-
mann.

Susan Sara Spalding
B.S. '68, University of Illinois. Field of
Concentration: Home Economics. Major
Adviser: Prof. P. C. Rosenblatt.

Michael George Stout,
Schenectady, N.Y.
B.S. '72, Carnegie Mellon University. Ma-
jor: Mechanics. Minor: Metallurgy and
Materials Science. Thesis: The Methods
for Measuring Damping in Composite Ma-
terials. Major Adviser: Prof. Robert Plunk-
ett.

Susan Workman, Fargo, N.D.
B.S. '69, North Dakota State University.
Field of Concentration: Environmental
Health. Major Adviser: Prof. R. G. Bond.

Michael Chester Zicus,
Tolland, Conn.
B.S. '70, University of Maine. Major:
Wildlife. Minor: Biometry. Thesis: A Study
of the Giant Canada Geese (*Branta Can-
adensis Maxima*) Nesting at Crex Mea-
dows, Wisconsin. Major Adviser: Prof. W.
H. Marshall.

Master of Science in Aerospace Engineering

Frank Yoshio Tsuchiya, Jr.,
St. Louis Park
B.A.E.M. with distinction '72, University
of Minnesota. Major: Aerospace Enginee-
ring. Minor: Mathematics. Thesis: The Ef-
fect of Boundary Layer on Hole Tone Be-
havior. Major Adviser: Prof. T. A. Wilson.

Master of Science in Chemical Engineering

Guillermo Dominguez, Palafox,
Mexico
B.S. '71, University of Mexico. Major:
Chemical Engineering. Minor: Industrial
Engineering. Thesis: Study of a Catalytic
Reaction, Ethane Hydrogenolysis. Major
Adviser: Prof. R. W. Carr.

Jeffrey Howard Schott, Minneapolis
B.Ch.E. with distinction '70, University
of Minnesota. Major: Chemical Engineer-
ing. Minor: Mechanical Engineering. The-
sis: Jet-Cone Impactors as Aerosol Particle
Separators. Major Adviser: Prof. W. E.
Ranz.

Master of Science in Civil Engineering

Carlos Ramon Bellassai-Sisa,
Asunción, Paraguay
Universidad Nacional de Asunción. Field
of Concentration: Civil Engineering. Ma-
jor Adviser: Prof. L. P. Pederson.

James Bernard Cysewski,
New Town, N.D.
B.S.C.E. '71, University of North Dakota.
Field of Concentration: Civil Engineering.
Major Adviser: Prof. W. J. Maier.

Manousos Paul Katsoulis,
Athens, Greece
B.Geo.E. with distinction '72, University
of Minnesota. Field of Concentration: Civil
Engineering. Major Adviser: Prof. H. G.
Stefan.

Yojiro Miyaoka, Tokyo, Japan
B.S. '66, Waseda University. Major: Civil
Engineering. Minor: Industrial Engineer-
ing. Thesis: The Use of Calculated Pavement
Strains in the Design of Low Traffic
Stabilized Sand Pavements. Major Adviser:
Prof. E. L. Skok.

William Ward Nelson, Oaklawn, Ill.
B.S. '67, Michigan State University. Field
of Concentration: Civil Engineering. Major
Adviser: Prof. W. J. Maier.

Master of Science in Electrical Engineering

Eugene Charles Adrian, St. Paul
B.S.E.E. with distinction '71, University
of Minnesota. Field of Concentration:
Electrical Engineering. Major Adviser:
Prof. V. D. Albertson.

Brian Eugene Pulk, Richfield
B.E.E. '72, University of Minnesota. Field
of Concentration: Electrical Engineering.
Major Adviser: Prof. F. N. Bailey.

Lawrence Louis Palkert, Minneapolis
B.M.E. '54, B.E.E. '62, University of Min-
nesota. Field of Concentration: Electrical
Engineering. Major Adviser: Prof. L. T.
Anderson.

Master of Science in Experimental Surgery

Roman Nowygrod, New York
A.B. cum laude '66, Harvard University.
Major: Experimental Surgery. Minor: Mi-
crobiology. Thesis: Skin Allograft Toler-
ance and Tumor Growth in Agammaglo-
bulinemic Chickens. Major Adviser: Prof.
J. S. Najarian.

Master of Science in Industrial Engineering

Melchor C. Balazs, Santiago, Chile
Cert. '70, University of Chile. Field of
Concentration: Industrial Engineering.
Major Adviser: Prof. J. S. White.

Janq Shyong Chiou, Taiwan
B.S. '67, National Taiwan University; M.S.
'70, University of Minnesota. Field of
Concentration: Industrial Engineering.
Major Adviser: Prof. S. R. Arora.

Master of Science in Mechanical Engineering

Curtis Allen Swenson, Oklee
B.S.M.E. with distinction '70, University
of Minnesota. Field of Concentration: Me-
chanical Engineering. Major Adviser: Prof.
W. A. Kleinhenz.

Tike-Ching Wong, Hong Kong
B.S. cum laude '71, San Fernando Valley
State College. Major: Mechanical Engi-
neering. Minor: Supporting Program. The-
sis: Mass Transfer in an Impinging Jet.
Major Adviser: Prof. E. M. Sparrow.

Teddy William Wood, Kowloon,
Hong Kong
B.M.E. with distinction '72, University of
Minnesota. Major: Mechanical Engineer-
ing. Minor: Biomedical Engineering. The-
sis: Deposition of Red Blood Cell onto
Filtering Surfaces. Major Adviser: Prof.
F. J. Forstrom.

Master of Science in Metallurgy and Materials Science

Ching-Ho Wang, Taiwan
B.S. '70, Cheng-Kung University. Major:
Metallurgy and Materials Science. Minor:
Chemistry. Thesis: Chemical Vapor Depo-
sition of Niobium Nitride Thin Films and
Superconductive Transition Temperatures.
Major Adviser: Prof. L. E. Toth.

Master of Social Work

Harvey Arthur Bartz, St. Paul
B.A. cum laude '60, Morningside College;
B.D. '63, Drew Theological Seminary;
M.Th. '64, Princeton Theological Seminary.
Field of Concentration: Social Work.
Major Adviser: Prof. P. W. Chommie.

Judith Anne Worley Engstrom,
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B.A. '62, St. Olaf College. Field of Concentration: Social Work. Major Adviser: Prof. B. E. Compton.

Margaret Jean Johnson, Minneapolis
B.A. cum laude '64, Macalester College.
Field of Concentration: Social Work. Major Adviser: Prof. Richard Sterne.

Valerie Sharp Lies, Minneapolis
B.A. '70, Vassar College. Field of Concentration: Social Work. Major Adviser: Prof. S. M. Buttrick.

Barbara J. Scoll, Minneapolis
A.B. '67, Cornell University. Field of Concentration: Social Work. Major Adviser: Prof. H. J. Yesner.

Mary Lucille Stringer, St. Paul
B.A. '57, Mount Holyoke College. Field of Concentration: Social Work. Major Adviser: Prof. J. L. Brusseau.

Certificate of Specialist in Education

David D. Greenwaldt, Cloquet
B.S. with distinction '61, M.A. '65, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. W. R. Cross.

Mary Hayes, Minneapolis
B.A. '59, College of St. Catherine; M.A. '71, University of Minnesota. Field: Counseling. Major Adviser: Prof. W. F. Shaffer.

Frank Robert Rhome, St. Paul
B.S. '51, M.S. '67, Tennessee A & I State College. Field: Secondary School Administration. Major Adviser: Prof. V. D. Mueller.

Richard James Rigg, Minneapolis
B.S. '57, Wisconsin State University; M.A. '70, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. N. C. Nickerson.

John Talbert Sheeks, Minneapolis
B.A. '60, B.S. '67, M.A. '68, University of Minnesota. Field: Distributive Education. Major Adviser: Prof. R. D. Ashmun.

Mary Jane Silon, Wolfhurst, Ohio
B.A. magna cum laude '66, Nazareth College. Field: Counseling. Major Adviser: Prof. D. A. Biggs.

Clifford Arnold Straka, St. Louis Park
B.S. cum laude '55, Gustavus Adolphus College; M.A. '69, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. N. C. Nickerson.

Cynthia Louise Zarlring, Minneapolis
B.A. magna cum laude '71, University of Minnesota. Field: School Psychological Services. Major Adviser: Prof. Morris Shrago.

Charles Francis Zielin
B.S. '61, Bemidji State College; M.A. '69, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. N. C. Nickerson.

COLLEGE OF AGRICULTURE

Bachelor of Science

Donald Ira Blazejewski, Strandquist
Earl William Bracewell, Ogilvie
Michael Dennis Capstick,
New Canaan, Conn.
Brian Winfield Carlson, Grove City
Gary Donald Drotts, Deer River
*Joseph Michael Folsom, Cosmos,
with distinction*
*Bruce Scott Garley, St. Paul,
with distinction*
George Francis Gieselman, Morris
Weldon W. Gilbertson, Willmar
*Paul Daniel Hagewood, St. Paul,
with high distinction*
William L. Hammel, Eyota
Clifford Milo Hanson, Dawson
*Brian Paul Hazel, Lanesboro,
with high distinction*
Gary Dale Hoppe, Truman
Bryan Timothy Johnson, Maple Plain
Steven Arnold Kirch, Fridley

Alan Dean Kluis, Chandler
Kenneth Lloyd Kramer, Gibbon
Steven Duane Lorenz, Kiester
Bruce Edwin Malmberg, Lafayette
*Daryl D. Melquist, Cokato,
with distinction*
Robert Jay Myers, Minneapolis
Bruce Wayne Ness, Albert Lea
Ross Toby Olson, Willmar
*Keith Roland Peterson, Cannon
Falls, with distinction*
Christopher R. Petro, New Brighton
Daniel Howard Pletscher,
New Brighton
Richard Roy Ross, Roseville
Rik Charles Rudeen, Bird Island
Robert Paul Schoper, Jeffers
Lee Michael Todnem, St. James
*James Curtis Warner, Boyd,
with distinction*
David Bruce Zappetillo, St. Paul

Master of Agriculture

Steven Edward Anderson, B.A.,
St. Paul

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Alton Arthur Cordes, Byron
Rodney Lloyd Friton, Sleepy Eye

*Charles B. Sturm, St. James,
with distinction*

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Verne Edwin Betlach, Jr.,
Little Falls
Kristine Margreta Bettin,
Brooklyn Park
Kai Shing Chan, Hong Kong
Edmund Hung Kei Cheong,
Hong Kong
Pamela Kay Dumke, North Mankato
Timothy Moran Dyhr, Ely
Dennis Patrick Garin, Minneapolis

Scott King Gillam, Austin
Lateef A. Giwa, Lagos, Nigeria
Jeffrey Morris Haglin, A.A., Brainerd
Karen Louise Hanks, Bagley
Julie Ann Haugen, Faribault
Alan Barry Herman, Minneapolis
*John William Hiemenz, Reston, Va.,
magna cum laude, Biology*
Norman LeRoy Hillestad, B.A.,
St. Paul

Tari Lee Johnson, Richfield
Vincent A. Lavieri, Northbrook, Ill.
Richard Thomas Leier, Roseville
Thomas Clinton Lloyd, New Brighton
Kathleen Anne McMonigal, St. Paul
Maria Mishchenko, Minneapolis
Glenn Myron Nelson, St. Paul
Marilyn Joyce Nowicki, St. Paul
Patrick John Parden, Virginia

James Joseph Pearson, Minneapolis
Stuart David Pechek, Bovey
Mark William Pope, St. Paul
Stephen John Resman, New Brighton
Paul William Rice, B.S., Richfield
Susan Marie Sauro, West St. Paul
Richard Joel Shapiro, St. Louis Park
Jeffrey James Swart, Minneapolis
Larry Leon Thorson, Chatfield

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

William Frederick Alworth, Duluth
Forrest Melroy Anderson,
Cannon Falls
Arthur Morgan Andrews,
St. Anthony Village
Matthew M. Arnoldy, New Ulm
Nancy Marie Austin, Excelsior
Gary Lee Bailey, Redby
Bryce A. Baker, A.A., Austin
Charles William Bissel, A.A.,
Minneapolis
Jonathan Paul Bock, Minneapolis
Jay Warren Bosiger, Richfield
Steven Francis Burke, Edina
Richard Stanley Buss, Shakopee
Howard Eugene Cammack, St. Paul
Richard Roger Carlson, Minneapolis
*Nelson YuiHing Cheng, Hong Kong,
with distinction*
Raymond Arthur Conover,
Minneapolis
Thomas Robert Corson, Richfield
Charles Michael Crimmins,
Minneapolis
Gerald D. Douglas, Roseville
David Joseph Dreher, B.S., St. Paul
Thomas Robert Edgerton, Wabasha
James Timothy Flescher, A.L.A.,
Minneapolis
*Robert Scott Gillman, St. Paul,
with distinction*
Karen Marie Haider, St. Paul
Alvin A. Happke, Pierz
Ross Erwin Harrison, Austin
Bruce Daniel Haslerud,
South St. Paul
Michael Hugh Havlik, B.E.E.,
New Hope

William Howard Hite, Jr., St. Paul
Thomas Arthur Hoblit, Burnsville
Dennis Alva Hosford, South St. Paul
Charles Bebe Iweriebor, Agbor,
Nigeria
Gerald Donald Jacobsen,
Brooklyn Park
Donavon Edmund Johnson, St. Paul
Mark Alan Johnson, Belle Plaine
Philip Reynolds Johnson, Litchfield
Joseph Gerald Kenney, Minneapolis
*Kurt John Krey, St. Paul,
with high distinction*
Alan Lee Ladd, Sleepy Eye
Richard Alan LaMothe, Richfield
Patricia Ann Larson, Minneapolis
Richard Lloyd Lewis, Crystal
Bruce Christian Lien, St. Paul
Stephan Turner Mann, St. Paul
Richard Cullen Martin, Minneapolis
Timothy Shea Martin, Eveleth
Peder Eugene McHattie, B.Ch.E.,
Roseville
Thomas John Meaden, Edina
Larry Walden Melander, St. Paul
Joel Norbert Meyer, Crystal
Leonard Francis Miller, B.S.,
Lakeland
Michael Eric Mills, Omaha, Neb.
Derald James Mittelstadt, Eagan
Thomas Otto Monn, West St. Paul
*Douglas Lee Morey, Minneapolis,
with distinction*
Jeffrey John Nelson, Minneapolis
Erik Charles Newhouse, Rosemount
Philip Robert Niemi, A.A.,
International Falls
Steven Lee Nordseth, Minnetonka

Michael Clarence Ortman, B.A.,
Chaska
Charles Cater Parrish, A.A., St. Paul
Michael Joseph Phillips, Edina
*Gerald Alan Ronning, Edina,
with distinction*
Michael William Saefke, A.A.,
Fridley
Robert Carroll Sathre, Golden Valley
Ronald Gregory Scherman,
Finlayson
Steven Lee Schievelbein, Burnsville
Dale Warren Sigford, Minneapolis
Gilbert A. Strelow, Minneapolis

Bruce Emery Taber, Hopkins
Gerald Clarence Tellers, Minneapolis
Jenny Chin Ling Lui Teng, Van-
couver, British Columbia, Canada
Jeffrey Lee Tews, Hutchinson
Edward Allen Tickner, Glencoe
William Lawrence Truex, A.A.,
White Bear Lake
Stevan Joseph Wagner, Mound
Timothy Bruce Wandzel, A.A.,
Minneapolis
Marcia Lynn Ward, Mabel
Thomas Harold Wick, St. Paul
Eugene Robert Young, Blaine

CONTINUING EDUCATION AND EXTENSION

Accounting Certificate

Leo A. Albertson, White Bear Lake

Business Administration Certificate

John Adolph Hanson, Fridley
Roy Richard Hewitt, Minneapolis
Ralph Thomas Kontos, Jr., Richfield

Myron Dwayne Reemtsma, Fridley
Vincent David Schoon, White Bear
Lake

Fellow in Management of Administrative Services Certificate

Donald LeRoy Brown, Crystal

Social Work Certificate

Karen Dorothe Christensen, St. Paul

Undergraduate Development Certificate in Electrical Engineering—135 credits

Merlin Wilmer Harjes, Minneapolis

Undergraduate Development Certificate in Electrical Engineering—90 credits

Thomas F. Malone, Cottage Grove

James Francis Zalazar, Blaine

SCHOOL OF DENTISTRY

Bachelor of Science

Edward Nicholas Grayden, B.A.,
Excelsior
Stephen Phelps Johnson, D.D.S.,
Fergus Falls

Donald Arthur Quinn, Minneapolis
Lee Conrad Scotland, Two Harbors

Doctor of Dental Surgery

Raymond Warner Aus, Duluth
Richard B. Brown, B.S., Altoona,
Wis.
Loren Clifford Christensen, B.A.,
Freeborn
Keith Thomas Collins, B.S.,
Coon Rapids
James David Colt, B.A., Fridley
Thomas Henry Como, Minneapolis
Steven Reidar Daehlin, B.S.,
Great Falls, Mont.
Bruce Michael Davenport, B.S.,
Fergus Falls
John Jay Eisinger, B.A., Minneapolis
Paul Allen Fredrikson, B.S.,
Davenport, N.D.
Michael A. Fuchs, B.A., Hastings
Edward Nicholas Grayden, B.A.,
Excelsior
Greg Edward Harvey, B.A.,
Coon Rapids
Michael Allen Hursh, B.S.,
Minneapolis

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B.A., St. Paul
Duane Robert Lennartson, B.S.,
Duluth
Edward Littlejohn, Jr., Houston
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Moorhead
John Steven Prueter, Minneapolis
Donald Arthur Quinn, Minneapolis
Lee Conrad Scotland, Two Harbors
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South St. Paul
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Stillwater

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Timothy Wayne White,
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Michael Ray Castle, Minneapolis
Deborah Ann Collins, St. Paul
Martin Julius Fidelman, St. Paul
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Mary Catherine Hanvik, St. Paul
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Ruth L. Katz, Minneapolis
Gloria Carole Keller, Minneapolis
Rudy August Labbe, Minneapolis
Leon Jerome Larson, Minneapolis
Valerie Lynn Lewis, Minneapolis

Harold Alvin Lindahl, Minneapolis
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Minneapolis
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Minneapolis

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Frank George Paone, A.A.,
Minneapolis
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St. Louis Park
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Bachelor of General Studies

Mary Catherine Knauer, Minnetonka

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with distinction*
*Linda Christine Betzold, Golden
Valley, with distinction*
Sheila Jean Bezdeka, White Bear
Lake
Kathleen Anne McJames Christen-
son, Forest Lake
Lee Ann Duerner, Wayzata
Salli Mae Fefercorn, Golden Valley
Arlys Adele Hanson, St. Paul
Wendy Maureen Hartje, Minneapolis
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Priscilla Kay Kamrath, Minneapolis

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Rebecca Lynn Rossing Owens,
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Helen Lacika Scobie, Minneapolis
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New Prague
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Lake Park

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Juris Doctor

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St. Paul
Victor Carl Krumm, B.A., West
St. Paul

Rex William Laaksonen, B.A.,
Cloquet
Garfield E. Smith, B.A., Minneapolis
Thomas Campion Vasaly, B.A.,
Minneapolis

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Curtis Dean Bloomquist, Minneapolis
Doris Parker Ellis, Minneapolis
Harvey Clair Griffith, Brooklyn
Center
Peter John Kelly, Newport
Dolores Anne Lesinski, Minneapolis
Christine Marie Low, Columbia
Heights
Sandra Lynne Milne, Minneapolis

Kristin Louise Onstad, Stillwater
Beth Anne Pletscher, New Brighton
Gregory Mason Potthoff, St. Paul
Jennifer Ann Schlee, Minneapolis
Mark Myron Schweizer, North
St. Paul
Mary Josephine Shaw, Minneapolis
Sybil Lucille Skog, St. Paul
Robert Theodore Syverson, Wayzata

Bachelor of Arts

*Honors citations are provisional and will not become final until
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St. Paul
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David Charles Andersen, Wayzata
Christine Helen Anderson,
Minneapolis
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Diane Anderson, Chevy Chase, Md.
Edward Lee Anderson, Fergus Falls
Elizabeth Ann Anderson,
Minneapolis
*Elizabeth Collins Anderson,
Minneapolis, magna cum laude*
Robin Larry Anderson, A.A.,
Mounds View
Steven Edward Anderson,
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Ilene Fay Appelbaum, Minneapolis

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 Heights
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 Earth
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 summa cum laude*
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 summa cum laude*
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 Ronald John Werner, Austin
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 Charles Francis Wetherall,
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 Mary Margaret Anderson Wiemer,
 Minneapolis
 Todd William Wiessner, St. Paul
 David Lowell Willard, Brooklyn
 Center
 Frances Marie Williams, Minneapolis
 Matthew Paul Winkel, Minneapolis
 Susan Marie Wiseman, Wayzata
 Victoria Jane Wojcik, Wayzata
 Arnold Kwock Wong, Minneapolis
 Rita M. K. Wong, Minneapolis
 Roger Alphonse Zabinski, Hibbing
 James Zachman, Minneapolis

Bachelor of Elected Studies

Gregg John Bailey, Bloomington
Michael Howard Bramel, Austin
Marsha Ann Courtnage, Hopkins
*Kirk Victor Dahl, Minneapolis,
summa cum laude*

David Mark DeRusha, St. Paul
David Bruce Ericson, Minnetonka
Steven Harlan Graybow, Minneapolis
Margrette Kay Gronseth,
Minneapolis

Curtis Michael Hendrickson, A.A.,
Hopkins

Jeanne A. Kelly, Minneapolis
*Mark Edward LeMay, St. Paul,
summa cum laude*

Ellen Mary Lewin, Minneapolis
Delores M. Lindahl, Wayzata
Judith Ann MacGibbon, Minnetonka
Kateri Janet Merchant, Minneapolis
Lilian Mikiver, Minneapolis
Corrine Claire Olson, Hibbing
Gary Lyle Oxman, Minneapolis
James Walter Stordahl, A.A., Madelia
Donald Craig Sudduth, Minneapolis
Keith Stuart Swenson, Barnesville
Amy Hodgson Ward, Rochester
Harvey Howard Zuckman, St. Louis
Park

Bachelor of Fine Arts

Julia Graham Barkley, Amundale
Robert Ray Biddle, Omaha, Neb.

Dianne M. Gregory, Kimball
Patricia Margaret Hansen,
Minneapolis

David Winfield Johnson, A.A.,
Minneapolis

Bruce Michael Munter, A.A., Buhl

*Richard John Theodore Olson, Min-
neapolis, cum laude*

*Steven A. Osborn, Edina,
summa cum laude*

Michael Jerome Schreiber,
Minneapolis

Peter Neville Wykes, St. Paul

Bachelor of Science

Albert Eugene Best, A.A., St. Paul

Nancy Jean Holmes, Minnetonka

Barry John Jenson, Minneapolis

Jonathan Albert Larson, Red Wing

Donald William Sjoblom, New

Brighton

MEDICAL SCHOOL

MEDICAL TECHNOLOGY

Bachelor of Science

*These degrees are conferred subject to the completion of
practical work prior to June 15, 1974*

*Jill Diane DeGeest, Miller, S.D.,
with distinction*

*Barbara Sue Hurwitz, Golden
Valley, with distinction*

Lynn Marie Litchy, Holdingford
Ferdinanda Louise Otness, B.A.,
Minneapolis

Mary Ellen Peterson, Bloomington
Sandra Rae Peterson, Bloomington,
with high distinction

Claire James Stolee, Kenyon
Katherine Ann Znameroski, Virginia
*Rita Marie Zubrzycki, West St. Paul,
with distinction*

MEDICINE

Bachelor of Science

Carl Norman Blegen, Jr., Minneapolis

Doctor of Medicine

James Neil Beggs, B.A., Minneapolis
Richard Seeger Cole, St. Paul
Kenneth Albert LaBresh, B.S.,
Minneapolis
Linda J. Londborg, B.A., Minne-
apolis
Lloyd Akira Minaai, B.A., Hilo,
Hawaii
Paul Philip Monahan, Edina
Jon Craig Paulson, B.A., Richfield

Leslie Eugene Riess, B.A., Oronoco
Steven John Welton, B.S., Fargo,
N.D.
Richard Stanton Werner, B.S.,
Minneapolis
William Leslie Wilson, B.A., St.
Louis Park
Theresa Marie Worner, B.A.,
Fargo, N.D.

SCHOOL OF NURSING

Bachelor of Science

Susan Lee Ahlquist, Rochester,
with distinction
Judith Ann Anderson, Minneapolis
Grant Matthew Berg, Minneapolis
Gayle Therese Brandenburg, Mound
Sandra Kay Brandt, Tower,
with high distinction
Cynthia Doris Carlson, Minneapolis,
with distinction
Margaret Maureen Casey,
Minneapolis
Joyce Ellen Drawert, Minneapolis
Carol Jean Dressler, Minneapolis
Rebecca Ann Enzmann, International
Falls, with distinction
Sau-Lan Margaret Goh, Hong Kong
Colleen Sue Hagberg, B.S., River
Falls, Wis., with distinction
Mary Beth Halter, St. Louis Park
Carole Jean Hammergren,
Alexandria, with distinction
Carole Ann Hanks, B.A., St. Paul,
with high distinction
Susan Jean Hendrickson, Grove City,
with distinction
Evelyn Marie Hoffa, Minneapolis,
with distinction
Gary Lee Horton, B.A., St. Paul
Christine Ann Humleker, St. Paul,
with distinction

Diane Marie Jamieson, Roseville,
with high distinction
Marilyn Marie Jones, West St. Paul
Linda Gay Klammer, Hutchinson,
with distinction
Barbara Ann Koenig, St. Paul,
with distinction
Mary Jane Krebs, Jackson, with
distinction
Linda Louise Kruse, Stillwater,
with distinction
Elizabeth Ann Elchek Lavelle,
Richfield, with high distinction
Jeanne Marie Loomis, Minneapolis
Kristine Gayle Lundberg, St. Paul
Park
Elizabeth Rachel Knudson Lund-
quist, Minneapolis, with high
distinction
Joyce Ann Merry, B.A., St. Paul,
with distinction
Debbra Ann Moline, Minneapolis
Sue Ann Neuhart, Edina, with
distinction
Linda M. Norlander, Minneapolis
Ruth Oldroyd, Minneapolis,
with distinction
Mary Ann Olsen, Lauderdale,
with high distinction
Paulette Marie Olson, Welch,
with high distinction

Barbara Pauline Pierce, Pine River
Deborah Jean Polman, Wadena
*Kathleen Anne Ryan, St. Paul,
with distinction*
Patricia Ann Skaja, Minneapolis
*Elizabeth Charlotte Swenson,
Minneapolis, with distinction*

Sybil Jean Wheeler, Bloomington
*Deborah Frances Wilson, Rochester,
with high distinction*
*Mary Laurene Zink, Owatonna,
with high distinction*

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Linda Peery Fobes, B.S.,
Minneapolis
Linda Jean Hoffer, B.S., Minneapolis
Gerald Pipoly, B.S., Milwaukee, Wis.
Robert Walter Powitz, A.A.S.,
B.S., Wanaque, N.J.
Helaine Bjorndahl Vecchio, B.S.,
St. Paul

Prakrom Vuthipongse, M.D.,
Phatthalung, Thailand
Robert Jason Wiley, B.A.,
Minneapolis
Loren August Will, B.A., B.S.,
D.V.M., New Brighton

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Paul Robert Myers, Deerwood

Bachelor of Architecture

*James H. Fredeen, Minneapolis,
with distinction*
Syed Ali Akbar Husain, Lahore,
Pakistan
Jerome Allen Maier, Bird Island
Charles John Moss, B.E.D., Nassau,
Bahamas

David Arnold Nietz, B.A., Rochester
*Edward Kenneth Pratt, B.A., Min-
neapolis, with distinction*
Mark Christian Reinertson, B.A.,
Minneapolis

Bachelor of Chemistry

Samuel George Netherly, Afton

*Alan Charles Wilson, Minnetonka,
with distinction*

Bachelor of Civil Engineering

Richard L. Arnebeck, Hibbing
Frank Dan Carver, Redditt,
Ontario, Canada
Ghazar Davidian, Isfahan, Iran
Joel Stephen Edstrom, White Bear
Lake
Ronald Scott Harri, A.A., Ely
*Louis Kwok-Wai Ho, Hong Kong,
with distinction*

Ronald Myron Jacobson, Hendrum
David Allen Johnson, Two Harbors
George David Kluempke, Melrose
*Paul Ward Lostetter, Richfield,
with distinction*
*Richard Alan Lundstrom, Richfield,
with high distinction*
Harold J. Masem, Minneapolis

John M. Menter, Mahtomedi
Jon H. Miller, New Brighton
*Steven Michael Miller, Deerwood,
with high distinction*
John Arthur Niemela, Ely
*Donald Charles Orgeman, Jr.,
Minneapolis, with distinction*

Michael Gregory Pinsonneault,
St. Paul
Gerald Allen Pitzrick, Bloomington
James Michael Ronning, Braham
Thomas Alan Syfko, St. Paul
Douglas James Vierzba, A.A.,
Brainerd

Bachelor of Computer Science

Paul Dwight Christopherson,
New Brighton

Craig Everett Olson, Minneapolis

Bachelor of Electrical Engineering

Wayne Benjamin Easton, B.M.E.,
LL.B., Wauwatosa, Wis.
Dale Herbert Erickson, A.A.,
Minneapolis
*Leslie Clifford Foss, Brooklyn
Center, with distinction*

Steven Wilbur McDonald, Claremont
Michael John Michaud, St. Paul
John Carl Sorensen, Fairmont
*Eugene Arnold Torrey, Columbia
Heights, with distinction*

Bachelor of Environmental Design

*Stephen Woodruff Brodie, Hopkins,
with distinction*
Edmond Jay Lee, Minneapolis

*Richard Lee Rasmussen, A.A.S.,
Minneapolis, with distinction*

Bachelor of Landscape Architecture

Robert Dennis Broughton, Springfield, Ill.

Bachelor of Mathematics

Kenneth Ovid Belanger, Jr.,
Minneapolis
*Michael James Cullen, New Rich-
mond, Wis., with distinction*

Chris Orin Eastlund, Minneapolis
Douglas Alan Nagle, Minneapolis
*Robert Rolland Swenson, Minne-
apolis, with high distinction*

Bachelor of Mechanical Engineering

*Robert Edgerton Beer, Minneapolis,
with distinction*
Richard A. Bruchmann, St. Paul
John Raymond Cheney, Crystal
William Carl Gausman, St. Paul
Sherman John Handberg, Duluth
*Wayne Charles Hanson, Gary,
with distinction*
Alfred Abner Iversen, Richfield
Loren Ronald Johansen, Bloomington

Jeffrey Brian Kallevig, Willmar
Barry Jon Lovell, Monticello
Paul Myron Lucking, St. Paul
Patrick John Moynihan, Rosemount
Russell Charles Pangerl, Hastings
*William Charles Scherer, Hamel,
with distinction*
John Michael Sever, Ely
Kim Bennett Watson, Moorhead

Bachelor of Mineral Engineering

Wayne Jerome Nordstrom, Minneapolis

Bachelor of Physics

Graydon Delmar Aulich, Minneapolis *Linda Faye Madsen, Morgan,
with distinction*

Bachelor of Science in Geology

Gary Richard Gaynor, Minneapolis *Thomas James O'Neill, B.A., St.
Paul, with high distinction*
William Thomas Gill, Brooklyn
Center
Richard Michael Johnston,
Minneapolis *Carlton Wesley Peters, Rosignol,
Guyana*

UNIVERSITY COLLEGE

Bachelor of Arts

Barbara Jean Huelster, Edina *Comie Smith Vosika, A.A.,
Minneapolis*
Joy Marie, Minneapolis

Bachelor of Science

Mary Patricia Blowers, St. Paul *Lawrence Joseph Pogemiller,
Minneapolis, with distinction*
Merry Lynn Dyer, Minneapolis
Patricia Lois Schjoll Eaton, A.L.A.,
Minneapolis *Patrick Michael Redmond, Eagle
Bend*
Rodney I. Eaton, A.L.A., Brooklyn
Park *Timothy Thomas Reiner,
Minneapolis*
Lois Elizabeth Bishop Johnson,
Minneapolis *Mary Eileen Tott, Minneapolis*
Trisha Elizabeth O'Hehir, G.D.H.,
Brooklyn Center *Kathleen Margaret Voigt, G.D.H.,
St. Paul*
Roger Allen Okdenburg, A.A.,
Apple Valley *Paul Anthony Wilkus, A.A.,
Rochester*
Judith Ann Peterson, A.A., Paxton,
Ill. *Mary Beaudette Wornwood,
Burnsville*

March Candidates for Commissions

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

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, Transportation Corps

Anthony J. Leach, St. Paul

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Charles M. Amdahl, St. Paul

Second Lieutenant, USMC

Steven F. Burke, Edina



June Candidates for Graduation

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

GRADUATE SCHOOL Doctor of Education

Lowery Maurice Johnson,
Minneapolis

B.S. '57, Lincoln University; M.A. '68, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Evaluation of the Title I Reading Program Instructions With That of the Reading Instructions in a Contingency Managed Classroom at Hay Elementary School. Major Adviser: Prof. V. L. Hendrix.

Paul Frederick Thomas, Lakeville
B.S. with high distinction '65, M.A. '70, University of Minnesota. Major: Vocational Education. Minor: Supporting Program. Thesis: Determining the Vocational Education Needs of Adults in South Saint Paul, Minnesota. Major Adviser: Prof. E. A. Persons.

Doctor of Philosophy

Robert Richard Anderson,
Golden Valley

B.A. cum laude '62, B.S. '64, M.A. '65, University of Minnesota. Major: Education. Minor: Art History. Thesis: A Comparison of Three Methodologies as Affectors of Aesthetic Sensitivity and Judgment: Discovery of Concept and Principle, Art History and Studio Activity. Major Adviser: Prof. C. H. Boeck.

William Henry Anderson, Escanaba,
Mich.

B.S. '57, M.S. '58, Michigan State University. Major: Plant Pathology. Minor: Plant Physiology. Thesis: Studies on the Nature of Resistance in Barley to Headblight Incited by *Helminthosporium Sativum*. Major Adviser: Prof. E. E. Banttari.

William Loyd Anderson, Minneapolis
B.A. '69, University of Minnesota. Major: Biochemistry. Minor: Chemistry. Thesis: Nucleation of Hen Egg Lysozyme Under Physiological Conditions. Major Adviser: Prof. D. B. Wetlaufer.

Marjorie Rawl Arnold, Clinton, S.C.
A.B. '67, College of William and Mary. Major: Child Psychology. Minor: Supporting Program. Thesis: Achievement Orientation and Intellectual-Academic Goal Approach Behavior in First-Grade Boys. Major Adviser: Prof. J. P. Hill.

Kent Sherman Barta, Minneapolis
B.A. '67, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: The Role of Recombination in Bacteriophage Lambda Replication. Major Adviser: Prof. J. F. Zissler.

William George Batz,
Rochester, N.Y.

B.A. '69, St. John Fisher College; M.A. '71, University of Minnesota. Major: American Studies. Thesis: Revolution and Peace: The Christian Pacifism of A. J. Muste (1885-1967). Major Adviser: Prof. M. Q. Sibley.

Irving Royster Benoist, Minneapolis
B.A. '68, New College. Major: Psychology. Minor: Psychiatry. Thesis: Nonverbal Expression of Masculinity-Femininity. Major Adviser: Prof. J. N. Butcher.

Karin Josefina Blomberg,
Minneapolis

B.S. '55, Macalester College; M.A. '65, University of Minnesota. Major: Education. Minor: Educational Psychology. Thesis: A Study of the Effectiveness of Three Methods for Teaching Science in the Sixth Grade. Major Advisers: Profs. N. P. Pearson and C. J. Hoyt.

John Thomas Booker, Dowington,
Pa.

B.A. '64, Dartmouth College; M.A. '67, University of Minnesota. Major: French. Minor: Spanish. Thesis: Narrative Tempo and Rhythm in the Novels of Stendhal. Major Adviser: Prof. P. W. Lock.

Nettye Ree Brazil, Bearden, Ark.

B.A. '64, Philander Smith College; M.A. '71, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparison of the Acting-Out Behaviors of Referral and Non-Referral Students in Regular Classrooms. Major Adviser: Prof. F. H. Wood.

William Gordon Brown, Kingsville,
Ontario, Canada

B.S. '68, M.S. '70, University of Guelph. Major: Horticulture. Minor: Supporting Program. Thesis: The Influence of Several Growth Retardant Chemicals on the Growth, Winter Survival, and Mineral Levels of Baron Kentucky Bluegrass (*Poa Pratensis* L.). Major Adviser: Prof. D. B. White.

Charles Layton Byrne, Minneapolis

B.S. with distinction '51, M.Ed. '63, University of Minnesota. Major: Education. Minor: Music. Thesis: An Investigation of Pupil Response to Live Musical Performances in the Elementary School. Major Adviser: Prof. A. F. Caswell.

Thelma Diaz Calimbias, Manila,
Philippines

B.S. summa cum laude '67, University of Santo Tomas. Major: Biochemistry. Minor: Organic Chemistry. Thesis: Sterol Metabolism in a Protozoan. Major Adviser: Prof. M. E. Dempsey.

James Leonard Carroll, Minneapolis

B.A. '65, Bethel College. Major: Educational Psychology. Minor: Supporting Program. Thesis: Children's Judgments of Statements Exemplifying Different Moral Stages. Major Adviser: Prof. J. R. Rest.

Christian Cornelius Cavender,
Granite Falls

B.S. '64, St. Cloud State College; M.A. '71, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of Intellectual and Non-Intellectual Factors Related to Achievement of Freshman Native American Students at the University of Minnesota. Major Adviser: Prof. C. H. Sederberg.

John Charles Chalberg, Minneapolis
A.B. '64, Regis College; M.A. '69, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Samuel Harper and Russia Under the Tsars and Soviets, 1905-1943. Major Adviser: Prof. K. J. Brauer.

Henry C. Chang, Taipei, Taiwan

B.L.L. '62, National Chengchi University; M.A. '66, University of Missouri; M.A. '68, University of Minnesota. Major: Sociology. Minor: Library Science. Thesis: Library Goals as Responses to Structural and Milieu Requirements: A Comparative Case Study. Major Adviser: Prof. D. A. Martindale.

Laura Lee Chase, San Diego, Calif.

B.A. '48, Wellesley College. Major: Psychology. Minor: Supporting Program. Thesis: A Comparison of Interpretations by Three Computer Services on Three MMP Profiles. Major Adviser: Prof. P. F. Briggs.

Boris Chevone, Wellesley, Mass.

B.A. '65, M.S. '68, University of Massachusetts. Major: Entomology. Minor: Supporting Program. Thesis: An Ultrastructural Study of Terminalia Rotation in the Mosquito *Aedes Aegypti* (Linnaeus): Intersegmental Membranes and Atypical Muscles Associated with Rotation. Major Adviser: Prof. A. G. Richards.

Taisan Chiu, Newark, Del.

B.S.Ag. '58, National Taiwan University; M.S. '69, University of Minnesota. Major: Veterinary Pathology. Minor: Microbiology. Thesis: Studies on Estrogen-Induced Proliferative Disorders of Hematopoietic Tissue in Dogs. Major Adviser: Prof. Victor Perman.

David Tam-Hei Chou, Taiwan

B.Ed. '66, National Taiwan Normal University; M.S. '68, University of Wisconsin. Major: Education. Minor: Supporting Program. Thesis: Personality Traits and Characteristics of Vocational-Industrial Teachers of Selected Instructional Areas in the Area Vocational-Technical Institutes of Minnesota. Major Adviser: Prof. D. C. Bjorkquist.

Glen Arthur Christianson, Bloomfield
Hills, Mich.

A.B. with distinction '67, Wayne State University; A.M. '68, University of Michigan. Major: English. Minor: Internal Supporting Program. Thesis: Theodore Roethke: Modes of Selfhood. Major Adviser: Prof. C. G. Anderson.

Monica D. Christy, Rantoul, Ill.
B.S. '68, University of Illinois; M.A. '71, University of Minnesota. Major: Child Psychology. Minor: Supporting Program. Thesis: Methods of Teaching Preschool Children to Discriminate Letter Forms. Major Adviser: Prof. A. D. Pick.

Mary Cloyd, Minneapolis
B.A. '70, M.A. '71, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Organizational Structure and Conflict in Role Expectations. Major Adviser: Prof. C. E. Ramsey.

Ramon Garrido Corrales, Manila, Philippines
A.B. '65, De La Salle College, Philippines; M.A. '68, Xavier University, Philippines. Major: Sociology. Minor: Supporting Program. Thesis: The Influence of Family Life Cycle Categories, Marital Power, Spousal Agreement, and Communication Styles Upon Marital Satisfaction in the First Six Years of Marriage. Major Adviser: Prof. Reuben Hill.

Gordon Jerome Dahl, Clear Lake, S.D.
B.A. cum laude '54, Augustana College; M.A. '66, University of Minnesota. Major: American Studies. Thesis: Protestant Responses to a Leisure Revolution, 1945-1970. Major Adviser: Prof. A. L. Johnson.

Mark Jeffrey Daniel, Ottawa, Canada
B.A. '71, University of Maryland. Major: Economics. Minor: Internal. Thesis: Problems in the Theory of Labor Supply. Major Adviser: Prof. N. J. Simler.

Jonathan Willard DeVries, Bejou
B.A. cum laude '68, Augsburg College. Major: Organic Chemistry. Minor: Supporting Program. Thesis: An Approach to the Total Synthesis of Steviol. Major Adviser: Prof. R. F. Borch.

Azukaego A. Enwesi, Obamkpa, Nigeria
B.A. '66, Dip. in Education '67, National University of Ireland; M.A. '69, University of Northern Iowa. Major: Education. Minor: Supporting Program. Thesis: Analysis of the East African School Certificate Examination in Nigeria. Major Adviser: Prof. N. C. Nickerson.

Warren Theodore Francke, Omaha, Neb.
B.S. '60, M.A. '66, University of Nebraska. Major: Mass Communication. Minor: History. Thesis: Investigative Exposure in the Nineteenth Century: The Journalistic Heritage of the Muckrakers. Major Adviser: Prof. W. E. Emery.

Nicholas Martin Frey, Winterset, Iowa
B.S. '70, Iowa State University. Major: Plant Physiology. Minor: Biochemistry. Thesis: Ribulose-1, 5-Diphosphate Carboxylase Activity in *Hordeum Vulgare* L. Major Adviser: Prof. D. N. Moss.

Mary Ann Fruen, Minneapolis
B.A. '66, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Career Choice in Medicine. Major Adviser: Prof. J. C. Merwin.

Loren Victor Geistfeld, St. James
B.A. with honors '67, Macalester College. Major: Agricultural Economics. Minor: Economics. Thesis: A Technical Efficiency Approach to Consumer Decision Making. Major Adviser: Prof. L. R. Martin.

Lawrence Charles Golden
B.A. cum laude '65, University of New Hampshire; M.A. '69, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Political Theory, Ideology, and Rhetoric in Afro-American Autobiographies. Major Adviser: Prof. M. Q. Sibley.

Bonnie Lee Gray, Piqua, Ohio
A.B. with high honor '68, Ohio University. Major: Psychology. Minor: Educational Psychology. Thesis: A Longitudinal Study of Extracurricular Activities, Vocational Needs, and Individual Vocational Need Stability During Adolescence. Major Adviser: Prof. D. J. Weiss.

Robert John Grigg
B.F.A. '61, Bradley University; M.A. '68, University of Illinois. Major: Art History. Minor: Supporting Program. Thesis: The Images on the Palestinian Flasks as Possible Evidence of the Mural Decoration of Palestinian Martyria. Major Adviser: Prof. D. T. Tselos.

Samuel Larry Grossman, Albion, Mich.
B.A. '65, Grinnell College; M.A. '67, University of Connecticut. Major: Theatre Arts. Minor: Supporting Program. Thesis: Trends in the Avant-Garde Theatre of the United States During the 1960's. Major Adviser: Prof. J. D. Hurrell.

Vernon Roger Grund, Baudette
B.S.Pharm. '69, University of Minnesota. Major: Pharmacology. Minor: Biochemistry. Thesis: Histamine Receptors in Adipose Tissue. Major Adviser: Prof. N. D. Goldberg.

Raya Gur, Tel-Aviv, Israel

B.A. '69, Tel-Aviv University. Major: Psychology. Minor: Supporting Program. Thesis: A Hebrew Version of the Minnesota Personality Inventory (MMPI): Translation Validation, Preliminary Standardization, and Cross Cultural Personality Comparison. Major Adviser: Prof. J. N. Butcher.

George Hartmann Haas, Camden, S.C.

B.S. '66, Utah State University; M.S. '71, University of Minnesota. Major: Wildlife. Minor: Botany. Thesis: Habitat Selection, Reproduction and Movements in Female Spruce Grouse. Major Adviser: Prof. W. H. Marshall.

Jo-Ida Charlotte Hansen, Jamestown, N.D.

B.A. summa cum laude, M.A. '71, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Coding Strong Vocational Interest Blank Items According to Holland's Theory of Personality Types. Major Adviser: Prof. D. P. Campbell.

Daniel Ralph Hanson, Afton

B.A. '69, University of Minnesota. Major: Psychology. Minor: Genetics. Thesis: Children of Schizophrenic Mothers or Fathers Compared to Children of Other Psychiatric Controls: Their First Eight Years. Major Adviser: Prof. I. I. Gottesman.

Michael Joseph Hay, St. Paul

B.A. '67, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Analysis of Rural-Urban Migration in Tunisia. Major Adviser: Prof. M. E. Abel.

Michael Dean Hays, Minneapolis

B.A. '60, Northwestern University; M.A. '65, University of Chicago. Major: Comparative Literature. Thesis: Theater and Society. Major Adviser: Prof. J. D. Hurrell.

Charles Michael Heldebrant, Sacramento, Calif.

A.B. '69, University of California, Berkeley. Major: Biochemistry. Minor: Organic Chemistry. Thesis: The Activation of Prothrombin. Major Adviser: Prof. K. G. Mann.

Vernon Earle Indehar, Minneapolis

B.S. with distinction '50, M.A. '52, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: An Investigation Into the Need for Communication Linkages Between Home and School Organization: The Effect of Home Environmental Variables on Preschool Children and on Later Reading Achievement. Major Adviser: Prof. S. H. Popper.

Eric Richard Johnson, Elkhart, Ind.
B.S. with honors '69, Rose Polytechnic Institute. Major: Biochemistry. Minor: Chemistry. Thesis: Regeneration Studies on Hen Egg Lysozyme Fragments: Localization of Nucleation Regions. Major Adviser: Prof. D. B. Wetlaufer.

Gordon Roger Johnson, Minneapolis
B.S. '64, M.S.C.E. '66, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Analysis of Dynamic Soil-Structure Interaction Problems. Major Adviser: Prof. H. I. Epstein.

Jack Kenneth Johnson, St. Paul
B.A. cum laude '65, Gustavus Adolphus College; M.A. '72, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Freshmen Response to Autonomous Learning: A Study of Intrinsic vs. Extrinsic Disposition to Learn. Major Adviser: Prof. R. E. Eckert.

Michael Leslie Jospe, Johannesburg, South Africa

B.A. '65, University of Leeds; M.A. '70, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Placebo Effect: An Integrated Analytical, Theoretical and Research Perspective. Major Adviser: Prof. J. G. Darley.

Indir Singh Kahlon, Ludhiana, India

B.S. '66, M.S. '68, Punjab Agricultural University. Major: Nutrition. Minor: Supporting Program. Thesis: Sulfur Metabolism in Plants and the *In Vivo* and *In Vitro* Availability of Various Chemical Forms of Sulfur. Major Adviser: Prof. J. C. Meiske.

Joseph Hugh Keenan, Minneapolis

B.S. '58, St. Cloud State College; M.A. '62, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Religious Experience and Political Thought in Sweden: Basic Beliefs and the Political Culture. Major Adviser: Prof. M. Q. Sibley.

Virginia Venable Kidd, Baytown, Tex.

B.A. '62, University of Texas; M.A. '70, Sacramento State College. Major: Speech-Communication. Minor: Supporting Program. Thesis: Happily Ever After and Other Relationship Styles: Rhetorical Variations of Interpersonal Relations in Popular Journals, 1951-1972. Major Adviser: Prof. R. L. Scott.

Jung Yun Kim, Seoul, Korea

B.S. Ph.D. '63, M.S. Ph.D. '65, Seoul National University. Major: Pharmacognosy. Minor: Biochemistry. Thesis: Saponin and Sapogenin Distribution in American Ginseng Plants. Major Adviser: Prof. E. J. Staba.

Suk Moon Ko, Pusan, Korea
B.S. '66, Seoul National University. Major: Chemical Engineering. Minor: Mathematics. Thesis: Adsorption and Solution of H_2 and N_2 by Ta and Nb. Major Adviser: Prof. L. D. Schmidt.

Thomas V. Koszarek, Antigo, Wis.
B.S. with honors '68, M.S. '69, University of Wisconsin. Major: Agricultural Economics. Minor: Economics. Thesis: Performance of Minnesota Farm Supply Cooperatives. Major Adviser: Prof. E. F. Koller.

Eugene George Krenzer, Jr., Leroy, N.Y.

B.S. '68, Cornell University; M.S. '73, University of Minnesota. Major: Plant Physiology. Minor: Supporting Program. Thesis: Source-Sink Relationships in Wheat as Affected by Photoperiod and Carbon Dioxide Concentration. Major Adviser: Prof. D. N. Moss.

V. Krishnamurthy, Madras, India
B.E. '62, M.E. '63, Indian Institute of Science, Bangalore. Major: Electrical Engineering. Minor: Mathematics. Thesis: Adjacent Channel Interference in PSK Systems. Major Adviser: Prof. J. H. Park, Jr.

Ilbok Lee, Seoul, Korea
B.S.E.E. '68, Seoul National University; M.S. '70, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Third Harmonic Generation of Millimeter Microwave Using Non-linear Properties of an Indium Antimonide Magnetoplasma. Major Adviser: Prof. K. S. Champlin.

Brian Paul Livermore, Eagan
A.A. '67, Austin State Junior College; B.A. '69, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: The Comparative Lipid Compositions of Several Spirochetes. Major Adviser: Prof. R. C. Johnson.

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B.S. '68, University of Massachusetts; M.S. '72, University of Minnesota. Major: Animal Science. Minor: Supporting Program. Thesis: Feed Gain Ratios for Swine of Diverse Body Composition. Major Adviser: Prof. W. E. Rempel.

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A.B. '63, Hamilton College; B.D. '66, Harvard Divinity School. Major: English. Minor: Internal Supporting Program. Thesis: Labyrinthos: The Animal as Generative Center in the Life and Work of James Joyce. Major Adviser: Prof. C. G. Anderson.

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B.S. Ag. '67, University of Sydney; M.S. '69, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Impact of Mobile Processing Plants on the Production and Distribution of Frozen Peas. Major Adviser: Prof. F. J. Smith.

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B.A. '63, B.S. '64, M.A. '69, University of Minnesota. Major: American Studies. Thesis: Culture as Cataclysm: Disaster and Mass Values in Selected Contemporary American Fiction. Major Adviser: Prof. C. G. Anderson.

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B.A. '53, M.A. '55, University of Calcutta. Major: Economics. Minor: Supporting Program. Thesis: Disparity and Variation in Economic Growth: A Cross-Section-Time-Series Study of Indian Agriculture. Major Adviser: Prof. T. P. Schultz.

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B.S.B. '67, M.S. '72, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: An Empirical Investigation of the Nature and Incidence of Ecologically Responsible Consumption of Housewives. Major Adviser: Prof. Ivan Ross.

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B.S. '67, University of Wisconsin; M.S. '69, University of Minnesota. Major: Animal Physiology. Minor: Veterinary Anatomy. Thesis: Characterization, Isolation and Purification of Protein Antigens from Porcine Epididymal Luminal Fluids. Major Adviser: Prof. A. G. Hunter.

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B.S. '66, M.S. '69, Oklahoma State University. Major: Plant Pathology. Minor: Plant Breeding. Thesis: Evaluation of Selected Moderately Resistant Oat Lines for Their Ability to Reduce Disease Development and Yield Losses Caused by Puccinia Coronata Var. Avenae. Major Adviser: Prof. M. F. Kernkamp.

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B.S.Ch.E. '62, University of Colorado. Major: Organic Chemistry. Minor: Internal. Thesis: Structure of the Rearrangement Products of 5-Nitro-6-Substituted-2-Norbornen-7-Ones and 6-Methyl-5-Nitro-2-Norbornene. Major Adviser: Prof. W. E. Noland.

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Nationalstaat*. Major Adviser: Prof. O. P.
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B.A. '65, American University; M.A. '68,
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The Bronze Doors of Barisanus of Trani.
Major Adviser: Prof. C. D. Sheppard.

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B.S. '66, National Taiwan University. Ma-
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Adaption to Cycloheximide of Macromo-
lecular Synthesis and Cell Division in *Tet-
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Prof. A. B. Hooper.

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B.A. '64, M.A. '68, University of Southern
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Communication Workshop: Analysis of In-
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B.A. '70, San Diego State College; M.A.
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Utilization of Computer Simulation and
Multivariate Techniques to Analyze Goal
Orientation and Strategy Behavior of Sub-
jects Playing a Simulation Game. Major
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Major: History. Minor: Supporting Pro-
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Foreign Policy Decision-Making Structure:
Japanese Attitudes Pertaining to the Ex-
pansion of the United States into the Paci-
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B.S.N. '70, University of Iowa. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Robert Scott Pinkerton, Beaver, Pa.
B.S. '68, Adrian College. Field of Concentration: Medical Microbiology. Major Adviser: Prof. J. M. Matsen.

Ronald August Raelson, Valparaiso, Ind.
A.B. '72, Indiana University. Field of Concentration: Medical Microbiology. Major Adviser: Prof. J. M. Matsen.

Jeffrey Kimball Reneau, St. Paul
B.S. '65, University of New Hampshire. Major: Nutrition. Minor: Biochemistry. Thesis: Absorption of Colostral Immune Globulins in Calves. Major Adviser: Prof. D. E. Otterby.

Sandra Rae Rutzick, St. Paul
B.S. with distinction '65, University of Minnesota. Major: Medical Technology. Minor: Genetics. Thesis: The Isolation and Partial Characterization of a Complex of an Erythrocyte Membrane Receptor and the Third Component of Complement. Major Adviser: Prof. A. P. Dalmasso.

Steven Kenneth St. Martin, Bloomington
B.A. cum laude '72, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. Alfred Aepli.

Craig Donald Sandgren, Minneapolis
B.S. '73, University of Minnesota. Field of Concentration: Botany. Major Adviser: Prof. E. J. Cushing.

Janet Cynthia Schauer, Minneapolis
B.S.N. '68, University of North Dakota. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Claire R. Schmid, Minneapolis
B.A. '70, University of Minnesota. Field of Concentration: Home Economics. Major Adviser: Prof. Gerhard Neubeck.

Barbara Lynn Schommer, Minneapolis
B.S. '69, Augustana College. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Ann Charlotte Shepard, Minneapolis
B.A. cum laude '58, University of Minnesota; B.S. '65, Cornell University. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Warren Daniel Springer, Albert Lea
B.S. '71, University of Minnesota. Major: Genetics. Minor: Biochemistry. Thesis: A Cytogenetic Method for Utilizing Nuclear Malex Sterility in Hybrid Corn Production. Major Adviser: Prof. R. L. Phillips.

Carolyn Sue Stady, St. Paul
B.S.N. '70, St. Olaf College. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

Philip Scott Stalheim, Waterville
B.A. cum laude '70, St. Olaf College. Major: Ecology. Minor: Statistics. Thesis: Behavior and Ecology of the Yellow Rail (*Coturnicops noveboracensis*). Major Adviser: Prof. H. B. Tordoff.

Delila Carol Story, Enon, Ohio
B.S.N. '63, Union College. Field of Concentration: Public Health. Major Adviser: Prof. A. G. Sparrow.

John Stanley Strom, Minneapolis
B.A. '55, St. Olaf College. Major: Business Administration. Minor: Economics. Thesis: The Development and Implementation of a Multi-Bank Planning Process. Major Adviser: Prof. N. L. Chervany.

Mary Louise Thorndal, Minot, N.D.
B.S.N. '69, University of North Dakota. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Dorothea Alice Hake Torstenson, Madison, Wis.
B.A. '64, Augsburg College. Field of Concentration: Home Economics. Major Adviser: Prof. P. C. Rosenblatt.

Fred Theodore Tureson, Jr., Hallock
B.S. '71, University of Minnesota. Field of
Concentration: Fisheries. Major Adviser:
Prof. T. F. Waters.

Aungsana Uttarpatriyakul,
Lampang, Thailand
B.S. '72, University of California. Field of
Concentration: Animal Science. Major Ad-
viser: Prof. L. E. Hanson.

Sheridan Eugene Vincent, West St.
Paul
B.S. summa cum laude '71, Moorhead
State College. Major: Chemistry. Minor:
Internal. Thesis: Infrared Spectroscopy of
Surface Species. Major Adviser: Prof. John
Overend.

Jacqueline Fiori Wagner, Richfield
B.S. '65, College of St. Catherine. Field of
Concentration: Nursing. Major Adviser:
Prof. Barbara Redman.

Jeanne Marie Wehner, Merrillville,
Ind.
B.S. '70, Madonna College. Major: Bio-
chemistry. Minor: Microbiology. Thesis:
Degradation of *Escherichia coli* DNA Dur-
ing Early Stages of Infection by Bacteri-
ophage T4. Major Adviser: Prof. J. F.
Koerner.

Sister Margaret Nola Wells, Portland,
Me.

B.A. '58, St. Joseph's College. Field of
Concentration: Environmental Health. Ma-
jor Adviser: Prof. D. E. Barber.

Richard John White, Oshkosh, Wis.
B.S. '71, University of Wisconsin. Major:
Biochemistry. Minor: Genetics. Thesis:
The Interaction of Mn⁺⁺ With Enzymes
and Other Proteins. Major Adviser: Prof.
C. W. Carr.

Wei-O Vio Wong, Taipei, Taiwan
B.S. '70, National Chengchi University.
Field of Concentration: Statistics. Major
Adviser: Prof. R. J. Buehler.

Don Alan Yager, Watertown
B.A. cum laude '69, Gustavus Adolphus
College. Field of Concentration: Mathe-
matics. Major Adviser: Prof. L. N. Arga-
bright.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

William Harold Listerud, Duluth
B.A. '71, University of Minnesota, Duluth.
Major: Geology. Minor: Internal. Thesis:
Geology of a Sulfide Deposit in Lower
Precambrian Metavolcanic-Tetasediment-
ary Rocks Near Birchdale, Koochiching
County, Minnesota. Major Adviser: Prof.
R. W. Marsden.

Klaus Jurgen Schulz, Minneapolis
B.S. cum laude '71, Wisconsin State Uni-
versity. Major: Geology. Minor: Internal.
Thesis: Differentiated Mafic-Ultramafic
Sills in the Archean Vermilion District,
Northeastern Minnesota. Major Adviser:
Prof. J. C. Green.

Robert Louis Spehar, Duluth
B.S. '71, University of Minnesota. Major:
Zoology. Minor: Chemistry. Thesis: Cad-
mium and Zinc Toxicity to *Jordanella Flor-
idae* (Goode and Bean): Effects on
Growth, Reproduction, Survival, and Be-
havior. Major Adviser: Prof. H. L. Collins.

Robert James Stevenson, Minneapolis
B.S. '69, Wisconsin State University. Ma-
jor: Geology. Minor: Chemistry. Thesis: A
Mafic Layered Intrusion of Keweenawan
Age Near Finland, Lake County, Minne-
sota. Major Adviser: Prof. R. W. Marsden.

Master of Science in Agricultural Engineering

Ronald Frank Gronwald, Linden,
N.J.

B.S. '71, Rutgers University. Major: Agri-
cultural Engineering. Minor: Civil En-
gineering. Thesis: Prediction of Channel
Parameters Based on Measurements of
Depth and Width. Major Adviser: Prof.
E. R. Allred.

Master of Science in Anesthesiology

Douglas George Berry, St. Paul
B.A. '61, B.S. '62, M.D. '64, Ph.D. '73,
University of Minnesota. Major: Anesthe-
siology. Minor: Pharmacology. Thesis: Ef-
fects of Ketamine and Diazepam on the
Isolated Chick Embryo Heart. Major Ad-
viser: Prof. R. H. Van Bergen.

Luis Emilio Giron, Guatemala City,
Guatemala
M.D. '66, Universidad de San Carlos. Ma-
jor: Anesthesiology. Minor: Pharmacology.
Thesis: Study of Effects of Some Anesthet-
ics on Pulmonary Circulation of Dogs. Ma-
jor Adviser: Prof. F. H. Van Bergen.

Master of Science in Civil Engineering

Paochen Chow, Kaohsiung,
Republic of China
B.E. '70, Taiwan Provincial College of
Marine and Oceanic Technology. Field of
Concentration: Civil Engineering. Major
Adviser: Prof. M. J. Huber.

Joseph H. Edwards, Reading, Pa.
B.C.E. '67, University of Minnesota. Field
of Concentration: Civil Engineering. Ma-
jor Adviser: Prof. W. K. Johnson.

John Robert Hotvet, Minneapolis
B.S.C.E. with high distinction '70, Univer-
sity of Minnesota. Field of Concentration:
Civil Engineering. Major Adviser: Prof.
D. L. Gerlough.

Frank Howard Lloyd, New Brighton
B.S. '48, Westminster College; M.A. '51,
University of Missouri. Field of Concen-
tration: Civil Engineering. Major Adviser:
Prof. M. J. Huber.

John Henry Stodola
B.C.E. '71, University of Minnesota. Field
of Concentration: Civil Engineering. Ma-
jor Adviser: Prof. W. K. Johnson.

James George Wawra
B.C.E. '70, University of Minnesota. Field
of Concentration: Civil Engineering. Major
Adviser: Prof. W. K. Johnson.

Master of Science in Dentistry

Gary Ernest Erickson, New Brighton
B.S. '65, Gustavus Adolphus College;
D.D.S. '70, University of Minnesota. Ma-
jor: Dentistry. Minor: Anatomy. Thesis:
A Cephalometric Evaluation of the Sur-
gical Correction of Mandibular Prognath-
ism. Major Adviser: Prof. D. E. Waite.

Karsten Kurt Helmuth Gundlach,
Hamburg, Germany
M.D. '70, University of Heidelberg;
D.D.S. '71, University of Hamburg. Ma-
jor: Dentistry. Minor: Pathology. Thesis:
The Relationship of Craniofacial Measure-
ments and Growth Patterns to Upper Res-
piratory Tract Disorders. Major Adviser:
Prof. R. J. Gorlin.

William Mack Hang, Urbana, Ill.
B.S., D.D.S. with honors '70, University
of Illinois. Major: Dentistry. Minor: Re-
lated Fields. Thesis: A Description of Oc-
clusion as Related to Facial Skeletal Pat-
tern in a Normal Population. Major Ad-
viser: Prof. R. J. Isaacson.

Robert Lyle Jensen, Minneapolis
D.D.S. '71, University of Minnesota. Ma-
jor: Dentistry. Minor: Anatomy. Thesis:
The Relationship of Complement to the
Effects of Lipopolysaccharide Endotoxin on
Microvascular Function. Major Adviser:
Prof. L. E. Folke.

Abbas Tabibi, Tehran, Iran
D.D.S. '69, University of Tehran. Major:
Dentistry. Minor: Microbiology. Thesis:
The Feasibility of the Use of Polycarboxy-
late Cements as a Root Canal Sealer and
Measuring the Working and Setting Time.
Major Adviser: Prof. J. R. Jensen.

Master of Science in Dentistry

MAYO GRADUATE SCHOOL OF MEDICINE

Martin Ross Pittman, Pine Bluff, Ark.
D.D.S. '69, University of Tennessee. Major: Dentistry. Minor: Pathology. Thesis: A Study of the Reimplanted Mandible in Combination with Autogenous Cancellous Bone and Marrow. Major Adviser: Prof. J. A. Gibilisco.

Master of Science in Dermatology

MAYO GRADUATE SCHOOL OF MEDICINE

Roy Steele Rogers III, Rochester
A.B. '62, Denison University; M.D. '66, Ohio State University. Major: Dermatology. Minor: Anatomy. Thesis: Lymphocytotoxicity in Recurrent Aphthous Stomatitis. Major Adviser: Prof. R. R. Kierland.

Master of Science in Electrical Engineering

Bruce Michael Anderson, New Brighton

B.S.E.E. '67, Iowa State University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Transient Cross-Coupled Noise on Transmission Lines. Major Adviser: Prof. R. P. Halverson.

David Alan Johnson, St. Paul

B.E.E. with distinction '72, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. G. W. Timm.

Peter Wing Kuen Kung, Minneapolis
B.E.E. with distinction '72, University of Minnesota. Field of Concentration: Electrical Engineering. Major Adviser: Prof. A. A. Tuszynski.

Lonny Ray Lebahn, White Bear Lake

B.S.E.E. '66, North Dakota State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. Y. Kain.

Girard James O'Brien, New Brighton
B.S.E.E. cum laude '66, New Mexico State University. Field of Concentration: Electrical Engineering. Major Adviser: Prof. A. A. Tuszynski.

Mahendra Jayantilal Parekh, Bombay, India

B.E. with honors '63, University of Bombay. Field of Concentration: Electrical Engineering. Major Adviser: Prof. L. T. Anderson.

Robert Howe Price, Minnetonka

B.S.E.E. '66, University of Washington. Field of Concentration: Electrical Engineering. Major Adviser: Prof. R. P. Halverson.

Ramanuj Sharan, India

B.Tech. '72, Indian Institute of Technology. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Numerical Analysis of Gas Diode Characteristics with Ion Injection. Major Adviser: Prof. H. J. Oskam.

Murai Mohan Simlote

B.S.E.E. cum laude '62, Kansas State University. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Fabrication and Study of Tunable Distributed RC Lines. Major Adviser: Prof. Rolf Schaumann.

Master of Science in Experimental Surgery

Mohandas Devadas, Madras, India
M.B.B.S. '64, M.Surg. '68, Madras Medical College. Major: Experimental Surgery. Minor: Pathology. Thesis: Selective Experiments on Lymphatics of the Liver and Thoracic Duct. Major Adviser: Prof. A. S. Leonard.

Master of Science in Geo-Engineering

Leo Bernard Carse, Melbourne, Australia
B.E. '69, University of Melbourne. Field of Concentration: Geo-Engineering. Major Adviser: Prof. S. L. Crouch.

Master of Science in Mechanical Engineering

Paul Robert Glamm, Pine Island
B.M.E. '71, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. B. Y. Liu.

Kishan Lal Goel, Raigarh, India
B.E. '69, Birla Institute of Technology. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Donald Dennis Heidt, Rochester
B.S.M.E. cum laude '67, University of North Dakota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. D. A. Frohrib.

Thomas James Sullivan, Minneapolis
B.M.E. '67, University of Minnesota. Field of Concentration: Mechanical Engineering. Major Adviser: Prof. W. A. Kleinhenz.

Master of Science in Medicine

MAYO GRADUATE SCHOOL OF MEDICINE

Aristarco G. Siqueira-Filho, Rio de Janeiro, Brazil
M.E. '68, University of Rio de Janeiro. Major: Medicine. Minor: Pathology. Thesis: Pathology of the Conduction System in Sudden Unexpected Death Due to Coronary Artery Disease. Major Adviser: Prof. D. C. Connolly.

Master of Science in Mineral Engineering

Tsuneo Ishikawa, Japan
B.E. '65, University of Kyoto. Field of Concentration: Mineral Engineering. Major Adviser: Prof. Iwao Iwasaki.

Jovo Pavlica, Beograd, Yugoslavia
Dip. '61, University of Beograd. Major: Mineral Engineering. Minor: Chemistry. Thesis: Electrochemistry of Sulfide Minerals in Flotation. Major Adviser: Prof. Iwao Iwasaki.

Master of Science in Ophthalmology

Willie Benton Boone, Bakersfield,
Calif.

B.A. '62, Pomona College; M.D. '66,
Meharry Medical School. Major: Ophthal-
mology. Minor: Microbiology. Thesis: A
Study of Corneal Allograft Reaction In-
volving Ocular Lenticular Antigens. Major
Adviser: Prof. J. E. Harris.

Master of Science in Orthopedic Surgery

MAYO GRADUATE SCHOOL OF MEDICINE

Gaston Robert Paradis, Quebec City,
Canada

B.A. '63, College de Jon Quiere; M.D. '67,
Laval University. Major: Orthopedic Sur-
gery. Minor: Pathology. Thesis: Blood
Flow and Mineral Transport in Intact and
Healing Cortical Bone. Major Adviser:
Prof. P. J. Kelly.

Richard Norman Stauffer, Rochester
A.B. '59, Hastings College; M.D. '63,
Northwestern University. Major: Ortho-
pedic Surgery. Minor: Pathology. Thesis: De-
termination of Knee Joint Forces as a
Function of Load and Its Angle of Appli-
cation. Major Adviser: Prof. M. B. Coven-
try.

Master of Science in Otolaryngology

Thomas Allan Christiansen, St. Paul
B.A. '64, Denison University; M.D. '68,
University of Illinois. Major: Otolaryn-
gology. Minor: Anatomy. Thesis: Ex-
perimental Incus Transplants. Major Advis-
ers: Profs. Albert Hohmann and M. M.
Paparella.

Manuel Carlos Preciado,
Panama City, Panama

B.S. '64, M.D. '68, Georgetown Uni-
versity. Major: Otolaryngology. Minor:
Anatomy. Thesis: Effects of Optokinetic
Stimulation and Visual Fixation on the
Acquisition of Vestibular Habituation.
Major Adviser: Prof. M. J. Capps.

Master of Science in Otolaryngology

MAYO GRADUATE SCHOOL OF MEDICINE

Thomas Joseph Peter McDonald,
Rochester

M.D. '63, Royal College of Surgeons,
Ireland. Major: Otolaryngology. Minor:
Pathology. Thesis: The Supraglottic Lar-
ynx and Its Pathology as Studied by
Whole Laryngeal Sections. Major Adviser:
Prof. K. D. Devine.

Master of Science in Physical Medicine and Rehabilitation

MAYO GRADUATE SCHOOL OF MEDICINE

Henry H. Stonnington, Rochester
B.M., B.S. '50, University of Melbourne.
Major: Physical Medicine and Rehabilita-
tion. Minor: Physiology. Thesis: Normal
and Denervated Muscle: A Morphometric
Study of Fine Structure. Major Adviser:
Prof. C. K. Stillwell.

Master of Science in Radiology

MAYO GRADUATE SCHOOL OF MEDICINE

Robert Lee MacCarty, Rochester
B.A. '66, Dartmouth College; M.D. '70,
University of Saskatchewan. Major: Radi-
ology. Minor: Pathology. Thesis: Retro-
grade Pancreatocholangiography: A Radio-
graphic Investigation of the Pancreas and
Lower Biliary Tract in Autopsy Specimens.
Major Adviser: Prof. H. C. Carlson.

Master of Science in Surgery

MAYO GRADUATE SCHOOL OF MEDICINE

Francis Marik, Budapest, Hungary
M.D. '60, Medical University of Budapest.
Major: Surgery. Minor: Physiology. Thesis:
Vagal and Gastrin Control of the Inter-
digestive Myoelectric Complex of Dogs.
Major Adviser: Prof. K. A. Kelly.

Master of Science in Urology

MAYO GRADUATE SCHOOL OF MEDICINE

Kamal Antoine Hanache, Beirut,
Lebanon

M.D. '66, American University of Beirut.
Major: Urology. Minor: Pathology. Thesis:
Estrogens and Atherosclerosis. Major Ad-
viser: Prof. L. F. Greene.

Master of Social Work

Joan Magdol Arnson, Minneapolis
B.S. '72, Cornell University. Field of Con-
centration: Social Work. Major Adviser:
Prof. M. R. Cohn.

Nellie Jo Babcock, Minneapolis
B.A. summa cum laude '72, University of
Minnesota. Field of Concentration: Social
Work. Major Adviser: Prof. S. S. Goldman.

Astrida Barobs, Minneapolis
B.A. '73, University of Minnesota. Field of
Concentration: Social Work. Major Ad-
viser: Prof. Annalee Stewart.

Willard Daniel Barrett, St. Paul
B.A. '72, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. P. W. Chommie.

Donald Ilem Broadwell, Fosston
B.A. '71, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. H. J. Yesner.

Victor Anthony Benetti, Minneapolis
B.A. '70, Gustavus Adolphus College.
Field of Concentration: Social Work. Ma-
jor Adviser: Prof. P. W. Chommie.

Mary Pat Carter Brygger
B.A. '71, Edgewood College. Field of Con-
centration: Social Work. Major Adviser:
Prof. M. R. Cohn.

Susan Camp Bunting, St. Paul
B.A. '69, DePauw University. Field of
Concentration: Social Work. Major Ad-
viser: Prof. B. E. Compton.

Stephen Charles Burke, Minneapolis
B.A. '72, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. B. E. Compton.

LaVaughn M. Bye, Minneapolis
B.A. '62, College of St. Catherine; M.A.
'64, University of Nebraska. Field of Con-
centration: Social Work. Major Adviser:
Prof. B. E. Compton.

Kathryn June Dean, Minneapolis
B.A. '72, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. H. J. Yesner.

Janice Margret Devens, Milaca
B.A. '66, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. M. R. Cohn.

Andrew Edmon Doom, Minneapolis
B.A. '70, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. P. W. Chommie.

Patrick Michael Doyle, Hopkins
B.A. '68, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. B. E. Compton.

Catherine Byron Eareckson, Long
Lake
B.A. cum laude '72, University of San
Francisco. Field of Concentration: Social
Work. Major Adviser: Prof. S. S. Goldman.

Barbara Luise Ebin, Minneapolis
B.A. '62, University of Minnesota. Field of
Concentration: Social Work. Major Ad-
viser: Prof. S. S. Goldman.

Daniel Cyril Edwardson, St. Paul
B.A. '71, College of St. Thomas. Field of
Concentration: Social Work. Major Ad-
viser: Prof. Richard Sterne.

Edward Sheldon Erickson, Minne-
apolis
B.A. '69, University of Akron. Field of
Concentration: Social Work. Major Ad-
viser: Prof. Richard Sterne.

Wendy Stoller Farrar, Tenafly, N.J.
B.A. '69, Case Western Reserve Univer-
sity. Field of Concentration: Social Work.
Major Adviser: Prof. S. S. Goldman.

Mary Osmanski Ferlic, Minneapolis
B.A. '70, University of Notre Dame. Field
of Concentration: Social Work. Major Ad-
viser: Prof. S. M. Buttrick.

Darlene Gail Flieder, Goldfield, Iowa
B.A. magna cum laude '73, University of
Minnesota. Field of Concentration: Social
Work. Major Adviser: Prof. M. R. Cohn.

Susan Harrell Gebelein, Butler, Pa.
B.A. with high honor '70, Michigan State
University. Field of Concentration: Social
Work. Major Adviser: Prof. M. R. Cohn.

Stephen Walter Grohmann, Minne-
apolis
B.A. '72, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. J. E. Paull.

Joseph William Heinz, Minneapolis
B.S. '72, Mount St. Mary's College. Field
of Concentration: Social Work. Major Ad-
viser: Prof. P. W. Chommie.

Susanne Tillotson Hilton,
Minneapolis
B.A. '71, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. B. E. Compton.

Mary Ann Huntington, Duluth
B.A. '66, Wichita State University. Field of
Concentration: Social Work. Major Adviser:
Prof. S. M. Buttrick.

Lucinda Ann Jenstad, Denver, Colo.
B.A. '68, Wichita State University. Field
of Concentration: Social Work. Major Ad-
viser: Prof. M. K. Newhouse.

Gary Paul Keifenheim, Minneapolis
B.A. '70, DePaul University. Field of
Concentration: Social Work. Major Ad-
viser: Prof. S. M. Buttrick.

Frances Edell Hiffernan Larson,
St. Paul
B.A. '72, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. Richard Sterne.

Yvette Le Quellec, Paris, France
Dip. '54, Ecole de Service Social. Field of
Concentration: Social Work. Major Ad-
viser: Prof. S. S. Goldman.

Marsha Kay Lindsay, Minneapolis
B.A. '72, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. B. E. Compton.

Bradley Jerel Lohrbach, Minneapolis
B.A. '72, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. H. J. Yesner.

Edythe London, Minneapolis
B.A. '53, Antioch College; M.A. '55, Uni-
versity of California, Berkeley. Field of
Concentration: Social Work. Major Ad-
viser: Prof. M. R. Cohn.

Jacklyn M. Mayberry, St. Paul
B.S. '71, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. P. W. Chommie.

Mary Kay McNamara, Hopkins
B.S. '61, Wisconsin State University. Field
of Concentration: Social Work. Major Ad-
viser: Prof. H. J. Yesner.

Linda Lee Meeks, Minneapolis
B.A. '71, University of Minnesota. Field
of Concentration: Social Work. Major Ad-
viser: Prof. Richard Sterne.

Allen Clayton Oberg, Waseca
B.A. with distinction '67, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. Richard Sterne.

John Walter Petraborg, Brainerd
B.A. cum laude '70, St. Olaf College. Field of Concentration: Social Work. Major Adviser: Prof. J. R. Wiebler.

Anne-Marie Pierard, Lives, Belgium
Dip. with dist. '59, Ecole Sociale de Namur; Cert. with great dist. '60, Ecole Sociale Coloniale; Cert. with great dist. '61, Centre de Formation pour la Cooperation Technique Internationale. Field of Concentration: Social Work. Major Adviser: Prof. S. S. Goldman.

Harold Stephen Pranschke, Minneapolis

B.A. summa cum laude '68, Concordia Senior College; M.Div. '72, Concordia Seminary. Field of Concentration: Social Work. Major Adviser: Prof. S. S. Goldman.

Lynne Marie Prossick, Juneau, Alaska

B.S.Ed. '69, State University College at Buffalo. Field of Concentration: Social Work. Major Adviser: Prof. S. S. Goldman.

William James Radke, Bloomington
B.S.E. '65, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. S. S. Goldman.

Audray Zack Rees, Minneapolis
B.A. '52, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. B. E. Compton.

Kathleen Louise Sampson, Minneapolis

B.A. with honors '61, Northeastern University. Field of Concentration: Social Work. Major Adviser: Prof. H. J. Yesner.

Matthew Ping Yiu San, Kowloon, Hong Kong

B.A. cum laude '72, College of St. Thomas. Field of Concentration: Social Work. Major Adviser: Prof. Richard Sterne.

Dorothy Holstrom Schneider, Minneapolis

B.A. '49, Macalester College. Field of Concentration: Social Work. Major Adviser: Prof. M. R. Cohn.

Susan Edna Smith, Shafer

B.A. magna cum laude '71, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. Richard Sterne.

Willen Viola Kalb Smith, Minneapolis

B.A. cum laude '56, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. S. S. Goldman.

Barbara Anne Taylor, St. Paul

B.A. '72, Aurora College. Field of Concentration: Social Work. Major Adviser: Prof. Annalee Stewart.

Anita Rae Thompson, St. Paul

B.A. '69, Stout State University. Field of Concentration: Social Work. Major Adviser: Prof. H. J. Yesner.

Elissa Lerner Treuer, Minneapolis

B.A. '69, Antioch College. Field of Concentration: Social Work. Major Adviser: Prof. M. R. Cohn.

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Sister Bruce Catherine Zimmerman, Rochester

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Master of Social Work

UNIVERSITY OF MINNESOTA, DULUTH

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viser: Prof. J. F. Jones.

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Canyon
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Marilyn Ann Gronseth Moen,
Rothsay
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viser: Prof. J. F. Jones.

Gloria Ellen Warble Singer, Duluth
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William Joseph Swanstrom, Duluth
B.A. '69, University of Minnesota. Field
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viser: Prof. J. F. Jones.

Chester Mark Tandberg, East Grand Forks

B.A. '71, University of North Dakota. Field of Concentration: Social Work. Major Adviser: Prof. J. F. Jones.

Patrick Clifford Thompson, Duluth
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Roger C. Twedt, Minneapolis
B.A. '66, Moorhead State College. Field of Concentration: Social Work. Major Adviser: Prof. J. F. Jones.

Guy C. Wood, Duluth
B.S. '73, Mankato State College. Field of Concentration: Social Work. Major Adviser: Prof. J. F. Jones.

Certificate of Specialist in Education

Michael James Andert, Wayzata
B.S. '69, Spec. '69, St. Cloud State College. Field: Special Education. Major Adviser: Prof. D. G. Force, Jr.

Patricia Ann Brock Barta, Minneapolis
B.S. '61, M.A. '69, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. G. F. Alkire.

Florimond Robert Corens, Hopkins
B.S. '63, University of Minnesota; M.S. '67, Bemidji State College. Field: Special Education. Major Adviser: Prof. D. G. Force, Jr.

Calvin Harlan Dreier, Minnetonka
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Mildred Eleanor Hume, Minneapolis
B.A. '48, B.S. '57, M.A. '62, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. G. F. Alkire.

Judd Mark Ludlow, Cook
B.S. '65, M.A. '69, University of Minnesota. Field: Distributive Education. Major Adviser: Prof. R. D. Ashmun.

Gerald Richard Maeckelbergh, Fridley
B.S. '60, M.A. '65, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. G. F. Alkire.

Robert Raymond Ness, Cokato
B.S. '57, Bemidji State College; M.A. '65, University of Minnesota. Field: General Educational Administration. Major Adviser: Prof. C. P. Hooker.

Joseph Michael Sherin, White Bear Lake
B.A. '61, St. Lawrence University; M.A. '65, University of Minnesota. Field: Counseling. Major Adviser: Prof. L. D. Hansen.

Selmer Norman Simonson, Minnetonka
B.A. '58, Concordia College; M.A. '64, University of Minnesota. Field: Counseling. Major Adviser: Prof. W. W. Tenyson.

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Richard A. Buro, Moose Lake
B.S. '56, M.A. '72, University of Minnesota. Field: Secondary School Administration. Major Adviser: Prof. K. J. Vander Horck.

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Bachelor of Landscape Architecture

James Howard Christensen,
Lamberton
Michael John Gair, Minneapolis,
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Stephen Russell Johnson,
Minneapolis
Roger Edward Wadnal, Roseville
Michael Wesley Wood, St. Paul

Bachelor of Science

Bruce Eugene Anderson, Winthrop,
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Baldwin, Wis.
Thomas Wayne Anderson, North
Branch
Susan Mary Annexstad, St. Peter
Dean Alexander Armstrong, A.A.
Craig Allen Beauduy, Fridley
Roger Allen Bergstedt, B.A., Duluth
Kaare Allan Birkeland, Buffalo
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Richard Michael Borys, Astoria,
N.Y., with distinction
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Loyola Margaret Caron, Faribault,
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Anita Felice Cholewa, Chicago,
Ill., with distinction
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Shirley Ann Cimperman, Parkville,
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Brant Mitchell Defibaugh, Minne-
apolis
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Marc Paul Diers, Minnetonka
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Falls, with distinction

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Timothy Lyle Foslien, Benson
Fredrick John Galley, Hibbing
Clark James Gantzer, Richfield,
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with distinction
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Margaret Lee Curtel, B.A., Palouse,
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Wyoming
Scott Philip Gustafson, Minneapolis,
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Arlo James Habben, A.A.S., New
Richland, with distinction
Linda Louise Hagan, Hampton, with
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Duane Henry Halla, Owatonna
Allan Laugen Halvorsen, Emmons,
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Donald LeRoy Hanson, Paynesville
Daniel Leon Heins, Rochester
Rodney Bruce Heschke, Ottertail
John H. Hanners, B.S., Spring Valley
David Louis Horvath, Princeton
Lisa Holly Hult, Edina, with
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Lowell Alan Jaeger, Cottonwood
Stanley John Jirasck, Anoka
Alan Wendel Johnson, Elmore,
with high distinction
Barbara Joanne Johnson, Lewiston

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Lee Dale Johnson, with distinction
Roger Steven Johnson, Marine-on-
St. Croix
Patrick Michael Joyce
James Frederick Kamman, B.A.,
St. Paul
Jan Frank Karlik, Edina, with
high distinction
Craig Terry Kvale, Owatonna,
with distinction
DelRay Dean Lecy, Cottonwood
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Paul, with distinction
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Gerald W. McCormick, Mora,
with distinction
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Plain
Norman Roy Moody, Scandia
Robert Joseph Mugaas, St. Louis
Park, with distinction
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with distinction
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James Alden Robertson, Minneapolis
Janet Lee Rollings, Lake Crystal

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New York Mills
Donald Lloyd Schmidt, B.S.,
Le Sueur, with distinction
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Ted William Schoenfelder, Bemidji
Timothy William Schulz, Fergus
Falls
Mark Charles Schwarze, St. Paul
Mark William Seetin, Huntley
Steven Lloyd Sellnow, A.A.S.,
Verndale
Kathleen Ann Sheffel
William Earl Siira, Brandon
David Lee Skallerud, Farmington
Michael Sylvester Slinkard, New
Prague
Steven Hans Soehren, A.A., Windom
Wane Odell Souhrada, Chester, Iowa,
with distinction
Kenneth Joseph Stager, Duluth
David Jerome Stish, Nashwauk
Stewart John Strand, Kensington
Wayne Lawrence Svitak, Brooklyn
Center
Roland Dennis Szilard, Neenah, Wis.
J. Douglas Taggart, Wadena
Lowell Edward Tangen, A.A.S.,
Hawley, with distinction
Steven Mark Teaser, Truman
Samuel David Tebukya, Kampala,
Uganda
Marvin Elmer Thompson, Jackson
Douglas Glen Tiffany, Redwood
Falls, with high distinction
Kay Susan Tirk, St. Paul,
with distinction
Elizabeth Ann Titus, Rochester
Barry James Turner, Silver Bay
Kenneth Allen Valley, St. Paul
Harold Richard Verdoorn, A.A.,
Austin
George William Warrant, Kasota,
with distinction
Charles Patrick West, Minneapolis,
with distinction
Deborah Jean Wetterlin, Jordan
Charles William Winkels, Fergus
Falls
John Duane Wirt, Lewiston

Master of Agriculture

Warren Edward Larson, B.S.

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION Bachelor of Agricultural Business Administration

Michael Duane Bjerke,
West Concord

Stephen L. Cashman, Owatonna

Roger Paul Chamberlain, Hastings

Larry Harold Johnson, Elbow Lake

Jonathan Craig Moulton, Rush City

Myron Neil Mueller, Ortonville

Robert Alan Nelson, Springfield

Kent Douglas Skoglund, Willmar

Terry L. VanMaasdam, Edina,

with distinction

Wayne William Vossen, St. Paul

COLLEGE OF BIOLOGICAL SCIENCES Bachelor of Science

Gordon Bernard Aaseng, McIntosh

Alexander Bernard Adams,
Minneapolis

Robert Myron Ahrens, Jr., St. Paul,
cum laude, Biology

Steven Jay Albrecht, Mound

James Rodney Allen, Eagan

James Dayton Anderson, Crystal

Paul Curtis Anderson, Minneapolis

Paul Badu

Charles E. Bille, Jr., Minneapolis

Dewey Wayne Bjork, Aurora

Halyna P. Breslawec, Minneapolis

Cindy Jean Brunner, Red Wing

Stephen Richard Burghardi,
Granville, N.D.

Brian LeRoy Bushay, Fridley

Humphrey Wing Foo Chiu,
Hong Kong

Robert Wendell Christensen,
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James David Cumming, Hudson, Wis.

Kathleen Mary Cummings, St. Paul

William Glen Dahl, Jr., Minnetonka

David Edward Davies, Willmar

Bruce Stuart Davis, Farmington

Peter Henry Dey, St. Paul

Jeffrey DeZellar, B.A., St. Paul

Timothy Scott Dunsworth, B.A.,
St. Louis Park, magna cum
laude, Biology

Mark Allen Einerson, Montevideo

John Joseph Esslinger, Mendota
Heights, summa cum laude,
Microbiology

David Ray Filpula, Middle River,
summa cum laude, Biology

Elizabeth Mary Frenzel, Minneapolis

Richard Lee Friedman, St. Louis

Park, cum laude, Microbiology

James Robert Gutfleisch, Waseca

Grant John Haffely, St. Paul

Terrance Patrick Hannon, Chaska

John Edwin Heil, A.A., St. Paul

Gayle Janis Hoffman, Brooklyn Park

Georgia Catherine Huard, Roseville

Daryl Chester Huggett, Rochester

James Patrick Hughes, Richfield

Paul Martin Ippel, Wausau, Wis.,
summa cum laude, Microbiology

John Edwin Iverson, Plymouth

Mary Ellen Jarvis

Craig Allen Johnson, St. Paul

Janice Jean Johnson, Eden Prairie,
summa cum laude, Biology

Keith Alan Johnson, A.A., Springfield

Myron Lloyd Johnson, Willmar

Rebecca Lou Johnson, Bloomington

Delbert Emmanuel Jones, St. Cloud

Donald Bruce Kackmann, A.A.,

Lake City

- Ephraim Yucheung Kam,
Hong Kong
- Michael Thomas Kaproth, Cottage
Grove
- Thomas Maurice Keane, Jr.,
White Bear Lake
- Robert Bach Kennedy, St. Paul
- Kristin Dru Kerr, *Stillwater,*
summa cum laude,
Microbiology and Zoology
- Ramoodit Kimal, Crabwood Creek,
Guyana
- Allen Earlyn Knutson, *Caledonia,*
magna cum laude, Biology
- Kathleen E. Kojis, Minnetonka
- Curtis Leigh LaDuke, St. Louis Park
- Thomas Everett Lang, St. Paul
- James Theodore Langland, *San*
Diego, Calif., summa cum
laude, Biochemistry
- Bryan Kent Lee, *Ada, summa cum*
laude, Microbiology
- George Wai Leung Lee, *Hong Kong,*
magna cum laude, Biochemistry
- Robert Alan Lepley, South St. Paul
- Rick James Lewis, Adrian
- Kai-Hung Li, *Macao, summa cum*
laude, Biochemistry
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- Leone R. Miller, *Little Falls,*
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- Todd R. Montgomery, West Concord
- Robert Cates Moravec, Mound
- Dan Douglas Morrison, Carmel, Ind.
- John Jay Mullen, Edina
- Jerold Steven Napier, Crystal
- Craig Thomas Nelson, Mahtomedi
- Ione Lei Viela Newland
- Marianne Elizabeth Newton, Crystal
- Wyham Joseph Ng, Kowloon, Hong
Kong
- Randi Louise Nordstrom,
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- Deborah Lee Olsen, Bloomington
- Douglas Jon Olson, Richfield
- Marilyn Elaine Opheim, Bloomington
- Jan Ellen Orterstrom, Minnetonka
- Michael Francis Otto
- Philip Edward Palkert, Minneapolis,*
magna cum laude, Zoology
- Jay Byron Petersen, Mound
- James David Petryk, White Bear
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- Gerald Arthur Pitzl, St. Paul, magna*
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- Catherine Ann Prody, Anoka,*
cum laude, Biochemistry
- Pauline Margaret Rakich, South
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- Marvin Jonathon Ross, St. Paul
- Monika Rosa Rude, Mounds View
- Steven Mark Schulman, Roseville,
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- Karen Louise Schulz, Minneapolis
- Dale N. Scobie
- Ky Robert Searcy, St. Charles
- Kevin Lee Seidler, Richfield,*
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- Jane Susan Simacek, Richfield
- James Vincent Soldin II, Minneapolis
- David Allan Solfelt, Edina
- Christine Joan Soutter, Roseville
- Mark Moren Stolpe, Lake Elmo,*
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- James Edward Tolaas, St. Paul
- Suzanne I. Tollerud, summa cum*
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- Michael Don VanNorstrand, A.A.,
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- Geeta S. Vora, Bombay, India
- Robin Les Wellems, B.S., Hibbing
- Michael Kendon Wiedell, B.S.,
St. Paul
- Bruce David Wigness, Minneota
- Ronald Evert Wiisanen, Moorhead
- David Allen Winegar, New Richland

Doris Sou Wai Wong, Hong Kong,
summa cum laude,
Microbiology

Victor Alexander Wowk, Minneapolis
David Boyd Zamjahn, Chaska
Lawrence R. Zettervall, Minneapolis

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Daniel Edward Adams, Fond du
Lac, Wis.
Edward J. Adams, B.M.E., St. Paul
James Richard Almsted, Fridley
Gregory Carl Anderson,
Worthington
James C. Anderson, St. Louis Park
Kimberly Tobin Anderson,
Bloomington
Stephan Currie Anderson,
North St. Paul
Terrance William Anderson, St.
James
Willie L. Anderson, A.A., Rochester
Thomas Lee Arbogast, Minneapolis
Robert Michael Arcand, St. Paul,
with distinction
Jonathan Lawrence Arent,
Minneapolis
Kathleen Anne Arnold, Pengilly
William Michael Arnold, St. Paul,
with distinction
Barbara Ann Aune, Fridley,
with high distinction
Mark Richard Baker, Minnetonka
Jerry Eugene Bartlett
Jacqueline Kay Beckman, Anoka,
with distinction
John August Behrens, Hastings
Jeffrey Warren Beissel, St. Paul
Christine Alice Bell, A.A.,
Bloomington
LeRoy James Bendickson, A.A.,
Minneapolis
Robert Lawrence Bergin
Michael Edward Besner, St. Paul
James Matthew Blackford,
Lindstrom, with distinction
Jerome Leo Bodmer, St. Paul
Gary Alan Bohline, Minneapolis,
with distinction
Clifton Brian Bolstad, Munich,
Germany

Daniel Scott Boss, Minneapolis
John Joseph Bossing
Thomas J. Boyer, St. Paul
Kenneth Paul Bronson, Hibbing
Donald Frederic Brown, St. Paul
Patricia Ann Brown, Muncie, Ind.
Daniel Lee Browning, A.A.,
Rochester
James Karon Bunin, St. Paul
James Victor Buresh, A.A.,
St. Louis Park
Robert Alan Butwin, West St. Paul
Jean Marie Byrne, DeGraff,
with distinction
Charles Thomas Canning, Hendrum
Mary Lucille Capaul, Mahtomedi,
with distinction
Bruce Alan Carlson, Edina
Christine Marie Case, Minneapolis
Don Ray Chamberlain,
Minneapolis, with distinction
Shirley Sai-Nei Chan, Hong Kong,
with distinction
Warren Blanchard Chapin IV, B.A.,
Excelsior
Daniel Calvin Cherry, A.A.,
Minneapolis
Roger Wallace Christenson,
White Bear Lake
Paul Richard Christiansen,
Roseville, with distinction
Mark Stephen Christianson,
Minneapolis
Robert Rogers Cline, St. Louis Park
Vincent Arthur Conley, Minneapolis
Dennis Charles Costello, St. Paul
Mark W. Cox, New Richmond, Wis.
Steven Richard Crouse, St. Paul
Clifford Clay Current, New Ulm
Claude Eric Cybulski, B.E.E.,
Milwaukee, Wis.
Charles Thomas Davich,
Bloomington, with high
distinction

Gregory Michael Davis
 Royce Day, Raymond
 Blanca Gloia Huerta de Guzman,
 Monterrey, Mexico
*Randolph Hall Denisty, Grand
 Rapids, Mich., with high
 distinction*
 Ernest James Denzer, Jr., Le Sueur
 James Patrick Deurr, St. Paul
 Jay Evan Dorfman, St. Louis Park
*William Joseph Dowdal, St. Paul,
 with distinction*
 Kirk Stephen Duholm, A.A., Austin
 Curtis Richard Durand, Minneapolis
 Allan John Eberhard, Lake Elmo
*David Edward Eichten, Stillwater,
 with distinction*
*Jeffrey Allan Ekbohm, Aitkin,
 with distinction*
 Barry Lynn Elfstrom, St. Paul
 Jerry D. Engholm, A.A.,
 Bloomington
*Julie Fay Erickson, Minneapolis,
 with distinction*
 Wendell H. Eriksson, Brooklyn
 Center
*Steven Charles Ernt, Minneapolis,
 with distinction*
 Ronald James Erpelding, Minneapolis
 John Joseph Fallon, Minneapolis
 Gil Lawrence Fash, Lockport, Ill.
*John Walter Feder, Madelia,
 with distinction*
 Mary Susan Fiedler, Edina
*Shirley Jean Flekke, New Brighton,
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*Larry Lee Forsman, Minneapolis,
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*James Robert Fox, St. Paul, with
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 Wayne Kenneth Frey, Rosemount
 Raymond Stanley Frostad
 Keith Maynard Fuhr, St. Paul
 Scott Matthew Galloway III, St. Paul
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 Gordon Bruce Gauss, New Brighton
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John Mark Givogre, with distinction
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*William Steven Goldman, St. Louis
 Park, with distinction*
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 St. Paul
 Dwight James Goslee, London
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 Bruce John Granos, Minneapolis
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 Diane Elizabeth Grendahl, A.A.,
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 Steven William Haugen, Mound
 George Vincent Head, Brooklyn
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 Minneapolis
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 Jane Wittman Kepple, Albert Lea
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 Debra Ann Mikelson, Wood Lake
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 Todd Allan Nelson, Minneapolis
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 North Branch
 Elizabeth Florence Nippert, St. Paul

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 Michael Glenn O'Reilly, Stillwater
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 White Bear Lake
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summa cum laude
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- Darlene Louise Riley, Prior Lake
David Rischall, St. Paul, cum laude
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magna cum laude
Philip Christian Roholt, Bemidji,
summa cum laude
Karen Lee Romson, Farmington,
magna cum laude
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magna cum laude
Richard Edward Rose, St. Louis Park
Michael Neil Ross, Skokie, Ill.,
summa cum laude
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St. Louis Park
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Craig Donald Roth, Minneapolis
John Paul Roth, Bloomington,
magna cum laude
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Jeff Roy, Minneapolis
Thomas Anton Roy, Cloquet
Richard Ruh, St. Paul, cum laude
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John Rutherford, West St. Paul
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Lakes
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St. Paul
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Steven Brian Schletty, Chisago City
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St. Paul
Loretta Elizabeth Schmitz, Cold
Spring
Ruth Joyce Schoenberg, Bloomington
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Parkers Prairie
Bradford Lee Schroeder, Roseville,
magna cum laude
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Robbinsdale
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Monica Louise Sell, A.A., Rochester
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Paul Andrew Severson, St. Paul,
summa cum laude
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 Rhodesia
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 summa cum laude
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 Pamela Lynn Townsend, Arlington
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 Elinor Lorraine Voth, Red Wing
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 Teresa Jayne Wagner, Minneapolis
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 John Becker Waldron, Edina
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 Minneapolis
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 Anna Marie Wowk, Minneapolis
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 Pamela Gaye Young, St. Paul
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 summa cum laude*
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 Center, summa cum laude*

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Park, summa cum laude*
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- Donald Curtis Bohn, St. Paul
- Melinda Patti Bonk, St. Paul
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- Laurie Jean Casagrande, Urbana, Ill.
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- Bradley Alan Cornell, Richfield
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St. Croix Beach
- William Edward Johnson,
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- Lorraine Anderson Kenfield,
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Hopkins
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- John Michael Lynch
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- Debra Kaye Marver, St. Paul
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Tower

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Russell Everett Erickson, Edina
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Eugene Andrew Gienger, Streeter,
N.D.
Fletcher William Green, Minneapolis
Patricia Mae Kerr, Minneapolis
Ilene Ann Krug, St. Paul,
summa cum laude
Donna Marie Kurimay, Minneapolis

Beth Ann Larson, Webster City, Iowa
Ann Louise Ledy, Roseville,
summa cum laude
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Boston, Mass., *summa cum laude*
Jeffery Brent Millikan, Minneapolis,
summa cum laude
James Gene Nyberg, Minneapolis
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James Donald Olson, Hopkins
Peter Edward Thoemke,
magna cum laude
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Minneapolis, *summa cum laude*
Terri Ann Erickson, Chanhassen
Steven E. Hemker, Osseo,
magna cum laude
Stephen M. Klein, A.A., Blaine
George Ross LaPlante, New
Brighton, *summa cum laude*
Philip Owen Lindberg, St. Paul
Audrey Louise Ollenburger, Duluth
Robert Allen Rastedt, Mankato

Terry Eugene Shima, Norwood
Brian Douglas Shorten, Minneapolis
Mary Ann Smaciarz, Minneapolis
Deborah Anne Thompson,
Minneapolis
Pamela Renee Tucker, Minneapolis,
cum laude
Victoria Louise Vaccaro, Richfield,
magna cum laude
Randal Lee Walter

MEDICAL SCHOOL MEDICAL TECHNOLOGY Bachelor of Science

*These degrees are conferred subject to the completion of
practical work prior to December 12, 1974*

Mary Ann Amerslav, Fridley
Marcia Hunt Baker, Rochester,
with distinction
Robin Lynn Bernardy, Detroit
Lakes
Rita Marie Bettenburg, Minneapolis
Cynthia Anne Bigham, Hopkins,
with high distinction
Susan Lynn Bollman, A.A., Dover
Constance Ann Buhl, Minneapolis
Margaret Elizabeth Charlton,
Minneapolis

Claire McDermid Chase,
Minneapolis
Vickie Louise Christensen, St. Paul
Patricia Marie Cook, Eagan,
with high distinction
Irene Delilah Coran, International
Falls
Rita Marie Dvorak
Mindy Ellowyn Einarson, A.A.,
International Falls
Jeanne Marie Elsen, Minneapolis,
with distinction

Nancy Lou Cistvold, B.A., St. Paul,
with high distinction
Cheryl Renae Gruntner, A.A.,
Rochester, with distinction
Andrea Louise Haley, Minneapolis
Anne Marie Haugen, St. Paul
Francene Helen Horwitz,
St. Louis Park, with distinction
Patricia Bernice Huttner, New Hope
Daniel William Iverson, A.A.,
Austin, with distinction
Susan Marie Jones, Duluth,
with distinction
Karen Marie Kawabata, B.S., Niles,
Ill., with distinction
Kathy Elizabeth Kollker,
Bloomington, with distinction

Susan Marie Kooda, Morris
Barry Curtis Langton, B.A., Minne-
apolis, with high distinction
Candace Ann Peterson, Minneapolis
Barbara M. G. Pobig, Brooklyn
Center, with distinction
Kathleen Ann Quast, Owatonna
Christine Marie Saffert, New Ulm,
with high distinction
Linda Kay Schauer, Minneapolis
Carol Jean Shanholtzer, St. Louis
Park, with distinction
Naomi Marie Thompson, St. Paul
Carol Lenore Trapp, Minneapolis,
with distinction
Theresa A. Vlasisavljevich, Gilbert
Joy Ann Yep, St. Paul

MEDICINE

Bachelor of Science

Michael Verner Severson, Shakopee William Grover Shores, Mankato

Doctor of Medicine

Paul Allen Abraham, B.A., Excelsior
Bruce Keith Adams, B.A.,
West St. Paul
John David Adolphson, B.A.,
Mankato
Dan Edward Agness, B.A., Edina
Dennis Arthur Amundson, B.S.,
Bagley
Craig Edward Anderson, B.A.,
Minneapolis
James Lee Anderson, B.Phys.,
Minneapolis
Joy Kristine Anderson, B.A.,
Hibbing
Martha Mitchell Anderson, B.A.
Richard John Andrews, B.A.,
St. Paul
Howard Barth Atkin, B.A.,
Minneapolis
Peter Samuel Austin, B.A., Duluth
Rex Thomas Averill, B.S., Mankato
Barbara Anne Bank, B.A.,
Minneapolis
Stephien L. Bechdolt, B.A.,
South St. Paul

Charles Richard Belt, Sedalia
Michael Bardin Belzer, B.A.,
Minneapolis
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Mark Palmer Benson, B.A., St. Paul
James Robert Bergan, B.A., Duluth
Mark David Bernstein, B.A.,
Minneapolis
Michael Allen Bess, B.S.,
Fairbury, Ill.
George Robert Biltz, B.A., Perham
Robert Allen Bird, B.A., Fergus Falls
George Milton Blatti, B.A., B.S.,
Mankato
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Louis Park
Lowell A. Boehland, B.E.E., Bertha
David Francis Boran, B.A., Blue
Earth
David Lloyd Bransford, B.A.,
Minneapolis
David Earl Brasel, B.A., St. Paul
Thomas Anthony Breen, B.S.,
Litchfield

Bruce Albert Brockway, B.A.,
 Milroy
 James Richard Bukstein, B.A.,
 Minneapolis
 Sheldon Robert Burns, B.A.,
 Grand Meadow
 Michael Richter Busian, B.A.,
 Chatfield
 Joseph George Capecechi, B.S.,
 St. Paul
 Vicki Jean Carlson, B.A.,
 Minneapolis
 Paul Lynn Carpenter, B.Ch.E.,
 Granada
 John Anthony Cesnik, B.S., St. Cloud
 James R. Corbett, B.S., B.S.,
 Minot, N.D.
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 Jamestown, N.D.
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 B.S., M.S., Magnolia, Miss.
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 Caledonia
 Freddie Leon Daniels, B.S.,
 Columbus, Ga.
 Scott Francis Davies, B.A., Faribault
 Charles R. Davis, Roseville
 Merrill Lawrence Davis, B.A.,
 Minneapolis
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 Richfield
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 B.S., Fargo, N.D.
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 River Falls
 Lowell Richard Dightman, B.S.,
 Helena, Mont.
 James Henry Dobis, B.A., Hibbing
 Steven R. Dodson, B.S., Fridley
 Terry Gayle Domino, B.A., St. James
 Mary Hart Donahue, B.S., Big Lake
 Ross Carl Donehower, B.A.,
 Detroit Lakes
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 Colleen Neaton Dooley, B.A.,
 Watertown
 Thomas David Dressel, B.M.E.,
 M.S., Robbinsdale
 Charlotte Marie Druschel, B.A.,
 Minneapolis
 John Earl Dvoracek, B.E.E.,
 Minneapolis
 Conrad Engwold Eastwold III,
 B.A., Minneota
 Frederic John Engman, B.A.,
 Silver Bay
 Donald Lee Erickson, B.A., Austin
 Rolland Philip Erickson, B.A.,
 Moorhead
 David Lee Estrin, B.A.,
 St. Louis Park
 Fredrick Oliver Ferris, B.A.,
 San Diego, Calif.
 Robert Steven Firestone,
 Sepulveda, Calif.
 Michael John Flannery, St. Louis
 Park
 James William Flax, B.A.,
 Minneapolis
 James Richard Flink, B.A.,
 Morgantown, W.Va.
 Dwight Robert Fox, B.A.
 Harvey Jay Frank, B.A., Minneapolis
 Ralph John Frascone, B.A., St. Paul
 William Stephen Gallea, Hopkins
 Bruce David Garbisch, B.A.,
 Lake City
 James Carl Gehant, Madison
 Jane Ann Gehlsen, B.S.,
 White Bear Lake
 Courtney James Goodwin, Roseville
 Robert Albert Gorkin, B.A.,
 Ph.D., St. Paul
 Gregory Alex Grabowski, B.A.,
 Minneapolis
 David Joseph Groppoli, B.A., St. Paul
 Charles Michael Grudem, B.A.,
 St. Paul
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 Milan
 William James Hammes, B.S.,
 Spring Valley
 Rolf Christian Hanson, B.A.,
 Spring Grove
 Myron C. Harrison, Rock Springs,
 Wyo.
 Noel Anthony Hauge, B.A.,
 Minneapolis
 Gerald Lee Heideman, B.A.,
 Minneapolis
 Charles Robert Helleloid, B.A.,
 International Falls

Ralph H. Herseth, B.A., Kennedy
 David Hilfiker, B.A., Eden, N.Y.
 Peter Andrew Hilger, B.A., St. Paul
 David Earl Hohag, B.A.,
 Bloomington
 Steven Alan Hokeness, A.A., B.A.,
 Rushmore
 Robert William Hollenhorst, Jr.,
 B.A., M.S., Rochester
 Ronald Lee Holmgren, B.S.,
 Litchfield
 Douglas Leong Hom, Fergus Falls
 David Leroy Hunter, B.A.,
 Maddock, N.D.
 Bruce Ira Idelkope, B.S.,
 Minneapolis
 Kenneth Lloyd Irons, B.A., Hinckley
 Paul Alan Jackson, B.A., Moorhead
 Donald Moor Jacobs, B.S., Wayzata
 Paul Francis Jarosch, B.Chem.,
 Bemidji
 Thomas Carl Jetzer, B.S.,
 Sheboygan, Wis.
 Ronald Allen Johannsen, B.A.,
 Minneapolis
 David Edgar Johnson, Minneapolis
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 Grand Rapids
 Robert John Johnson, B.A.,
 Plainview
 Sandra Marie Johnson, B.A.,
 Chippewa Falls, Wis.
 Stephen Herbert Johnson, B.A.,
 B.S., St. Paul
 Robert Eldon Jones, B.S.,
 Tioga, N.D.
 Michael McLean Kearney, B.A.,
 Mankato
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 Donald Wayne Kjome, B.A.,
 Spring Grove
 David Henry Klevan, B.A.,
 Zumbrota
 William Stanley Knapp, B.A.,
 Oak Brook, Ill.
 Douglas Graham Knight, B.A., Mora
 Paul Robert Kollitz, B.S., St. Paul
 Larry William Kotek, B.A.,
 Pine City
 Thomas Erling Kottke, B.A.,
 Minneapolis
 James Peter Kromhout, B.A.,
 Roseville
 Elizabeth Ann Kubiak, B.A.,
 St. Paul
 Paul Thomson Kubic, B.S.,
 Golden Valley
 Camille Marie Kureth, B.A.,
 Minneapolis
 Catherine Helen Lang, B.S.,
 St. Paul
 Donald Rowe Lannin, B.A., St. Paul
 Peter Astrup Larsen, B.S., M.S.,
 St. Paul
 Richard D. Larson, B.A., B.S.,
 Bagley
 Mark Arthur Lawrence, B.A.,
 Minneapolis
 Paul Joseph LeMarbre, B.A., B.S.,
 Natick, Mass.
 Michael John Lillestol, B.S. Pharm.,
 B.S., Bismarck, N.D.
 Paula Ann Lunde, B.S., Preston
 Margaret Ann MacRae, B.A.,
 Mankato
 Joseph Ira Markoff, B.A., Ph.D.,
 Hopkins
 Mark J. Marquardt, B.A.,
 Minneapolis
 Lawrence Mather Martin, B.A.,
 Rochester
 William Joseph Martin II, B.S.,
 Rochester
 Gordon Alford Matlock, B.S.,
 Lewiston, Idaho
 John Kazuo Matsuura, B.A. magna
 cum laude, Columbia Heights
 Terry A. May, B.A., Bemidji
 David Grant McCollum, B.A.,
 St. Louis Park
 Donald Robert Mehlisch, A.A.,
 D.D.S., M.S.D., St. Paul
 Nancy Lee Meryhew, B.A., St. Paul
 Maryanne Margaret Moren, B.A.,
 Gilbert
 John Paul Navins, B.A., St. Paul
 Richard Ervin Neils, B.A.,
 Sauk Rapids
 Thomas Robert Neitzke, B.A.,
 Detroit Lakes

- George Alfred Nicholas, B.A., B.S.,
Watertown, S.D.
- Dennis Douglas Nishida, B.A.,
Golden Valley
- William John O'Brien, B.A.
magna cum laude, Minneapolis
- Richard Gayus Ogle, B.S., M.S.,
D.D.S., Lakeville
- Dan Neil Olson, B.A., Montevideo
- Quentin D. Onstine, B.Ch.E.,
New Ulm
- James Steele Pease, B.A., Huron,
S.D.
- Ernest Merrill Peaslee, B.S.,
Stillwater
- Bruce Marlin Pederson, B.A.,
Bensenville, Ill.
- Thomas Victor Pence, B.A.,
Minneapolis
- L. Dana Petersen, B.A., B.S.,
Northfield
- Ted Reed Pier, B.Ch.E., Avon, S.D.
- Ted Charles Pinkert, B.A., Pipestone
- Judith Anne Plett, B.A., Butte, Mont.
- Daniel Joseph Powsner, B.A.,
Massapequa Park, N.Y.
- R. Kirby Reed, Billings, Mont.
- Bradley A. Refsland, B.A., Danube
- Jeffrey Randa Richardson, B.A.,
Bloomington
- Donald Morris Roos, B.A., Hawley
- Darrel James Rosen, B.S.,
Minneapolis
- Robert Steven Ross, B.A., Ortonville
- Timothy James Rumsey, B.A.,
St. Paul
- David Michael Sahlstrom, B.S.,
St. Cloud
- David Carleton Sandell, A.A.,
B.A., Austin
- Charles Patrick Schotzko, B.S.,
Springfield
- David James Scott, B.S.,
Ann Arbor, Mich.
- Bradford Allan Selland, B.A.,
St. Paul
- Michael Verner Severson, Shakopee
- Mark William Sharon, B.S., St. Paul
- Janell Newbrough Shaw, B.S.,
Lone Rock, Iowa
- William Grover Shores, Mankato
- Douglas L. Simmons, St. Paul
- James Myron Smith, B.A., Waverly
- Kathleen A. Smith, B.S., Roseville
- Kenneth Edwin Smith, B.A.,
Minneapolis
- Michael James Smith, B.A.,
Minneapolis
- Bruce Gordon Sommer, B.A.,
B.S., Briarcliff Manor, N.Y.
- Niels Howard Sorensen, B.S.,
Minneapolis
- Cathy Spadaccini, B.S., Keewatin
- John Sager Spika, B.A., Minneapolis
- Jerry Wayne Stanke, B.A., St. Paul
- Gregory Don Steeber, B.A., Crystal
- Mark Stephen Steen, B.A.,
Minneapolis
- Clifford John Steer, B.A., St. Paul
- Mark Gregory Stenberg, B.A.,
East Grand Forks
- Larry Charles Stetzner, B.A., B.S.,
M.S., Ph.D., New Brighton
- Craig Rowse Stirrat, B.A., Edina
- Patrick James Stoy, B.S., Little Falls
- Gene Chester Stringer, B.S.,
D.V.M., Dodge Center
- R. Raymond Sundling, B.A., B.S.,
M.S., Glendale, Calif.
- Conrad Melton Swartz, B.Ch.E.,
M.S., Ph.D., Brooklyn, N.Y.
- Mary Elizabeth Swaykus, B.A.,
Ashford, Conn.
- Susan Mary Tange, B.A., Jackson
- Douglas George Tani, B.A., St. Paul
- Rudy George Thell, B.A., St. Paul
- James Joseph Thomas, Minneapolis
- Roger Charles Toffle, B.A.,
Boy River
- Stuart Alan Torgerson, B.A.
cum laude
- John Richard Trinity, B.A.,
Missoula, Mont.
- Gayle Southworth Vest, Duluth
- Steven Lee Vest, B.A., Minneapolis
- Richard Arnold Wake, B.A., B.S.,
Sioux Falls, S.D.
- Phyllis Irene Warkentin, B.A.,
Elk Grove Village, Ill.
- Gregory John Wasenda, B.A.,
West St. Paul
- Gerald Ray Watkins, B.A.,
Hebron, Ind.

William Verity Watson, B.A.,
St. Paul
Thomas Glessner Weaver, B.A.,
Faribault
Nolan Louis Weinberg, B.S.,
Oak Park, Mich.
Dennis Dean Weisenburger, B.A.,
Glen Ullin, N.D.
Olyn Roy Wernsing, B.S., Chokio
Thomas Andrew Wiberg, B.A.,
White Bear Lake

Mark Leon Willenbring, B.S.,
Minneapolis
Edwin E. Wilson, B.A., St. Paul
Ronald Hajime Yanagihara, B.A.,
Honolulu, Hawaii
Thomas Russell Youngren, B.A.,
St. Paul
Paul Frederick Ziemer, B.A.,
Minneapolis
Michael Scott Zlonis, B.S., Duluth
Michael A. Zurek, B.S., Lakeville

MORTUARY SCIENCE

Bachelor of Science

Jay William Adams, B.S.B.,
Grand Forks, N.D.
Joseph James Ahearne, Jr.,
Scottsdale, Ariz.
James Edmund Bierman, Northfield,
with distinction
Dennis Ray Boro, B.S., Ord, Neb.
Michael James Brown, Alexandria
Paul Dean Brown, Alexandria
John Patrick Burke, Freeport, Ill.
Mark L. Carlson, Mankato
David Mark Daniel, B.A., St. Cloud
Daniel Gardner Davis, Claremont,
N.H.
Barry Frank Dibble, B.A., Kasson
Larry Allan Dorfmeier, B.A.,
Toledo, Ohio
Terrence Craig Duerr, Litchfield
Steven Edmund Groebner, Hopkins
John Paul Huber, Excelsior
Kenneth Allen Jacobson, Benson
Dennis Harold Jandt, B.S.,
LaCrosse, Wis.
Timothy Lloyd Johnson, A.A.,
Virginia
Frank Duane Kerntz, A.A., Ely
John Robert Kullander, B.A.,
Thiensville, Wis.

Ronald Jerome Larson, Bloomington
Michael Dean Limmer, Ottertail
Bruce Earl McBride, Windom
Robert J. McCabe, St. Paul
Kim John Miller, Columbia Heights
Darien Paul Morrison, B.A., Omaha,
Neb., with distinction
Richard Douglas Nelson, Murray
City, Utah
Thomas Ray O'Connor, Brattleboro,
Vt.
Joel Duane Overholser, Cottage
Grove
John Elbert Patterson, Jr.,
Baltimore, Md.
Steven Edward Paula, Rapid City,
S.D.
Wayne Allen Schellhammer,
West Bend, Iowa
Steven Philip Swenson, St. Peter
Jon LaVerne Torgerson,
Black River Falls, Wis.
Gordon Lee Wahlberg, B.A., St. Paul
Steven J. Ward, LaCrosse, Wis.
Duane A. Williams, Anoka
Paul Stephen Worlein, B.A., Austin

PHYSICAL THERAPY

Bachelor of Science

- Bryan David Beauduy, Minneapolis, with distinction*
- Karen Ostenso Beck, B.A., Montevideo*
- Ann Marie Bobence, A.A., Ely*
- Sherrie Gail Carlson, Almelund, with distinction*
- Bryan Timothy Cummings, Aitkin, with high distinction*
- Roberta L. Delich, Eveleth*
- Brian Richard Greene, Dodge Center, with distinction*
- Christine Ann Greene, Esko*
- Cynthia Lee Hartmann, Pierz, with distinction*
- Mary Ann Haugen, Minneapolis, with high distinction*
- Nancy Gail Hinterberg, Minneapolis, with high distinction*
- Joann Winkels Howitz, Minneapolis, with distinction*
- Barbara Catherine Jirik, with high distinction*
- Jan Lynn Jones, Mankato, with high distinction*
- Marilyn Kaye Kochsiek, St. Paul, with high distinction*
- Linda Rae Korsman, Gilbert, with distinction*
- Alice Olson Ludvigsen, Richfield, with high distinction*
- Paul Francis Mettler, Stoughton, Mass.*
- Sandra Marie Miller, Roseville, with high distinction*
- Kathleen Ann Murnane, St. Paul, with distinction*
- Joan Marie Nelson, Cottage Grove, with distinction*
- Kathleen Mary Oppegard, B.A., Bloomington*
- Marc Joseph Rabideau, Virginia, with distinction*
- Stephen Richard Seltz, Austin*
- Barbara Jo Schiltgen, Lake Elmo*
- Mary Eileen Spieker, Minneapolis*
- John William Stender, A.A., New Germany, with high distinction*

SCHOOL OF NURSING

Bachelor of Science in Nursing

- Caroline Bolatito Adesina, Ado-Ekiti, West-Nigeria, with distinction*
- Joyce Giegerich Anderson, Minneapolis, with high distinction*
- Lisa Marie Anderson, Bloomington, with distinction*
- Judith Eileen Arends, Gluek, with distinction*
- Beth Kaye Bennington, Minneapolis, with distinction*
- Constance Marie Bergeland, Dawson*
- Linda Ann Bogotty, St. Paul*
- John Herbert Borg*
- Cynthia Ann Bullard, Bloomington, with distinction*
- Sharon Lynn Carlson, New Brighton, with high distinction*
- Colleen Bernadette Clark, Golden Valley*
- Christine Ann Clemensen, Bloomington*
- Joyce Ellen Drawert, Minneapolis*
- Naomi Joyce Dyrud, Minneapolis, with distinction*
- Myra Jean Ekrem, Ely, with distinction*
- Norma Jean Fandrey, St. Paul*
- Susan Marie White Finn, Minneapolis*
- Gail Linnea Flodquist, Almelund, with distinction*
- Sandra Faye Fonkert, Luverne, with high distinction*
- Vicki Lynn Gill Giffis, St. Paul, with distinction*

- Susan Gail Gloier, *Fergus Falls, with distinction*
 Nancy Charlotte Hall, *Richfield, with distinction*
 Janice Ann Hartmann, *Keewatin*
 Kaye Louise Hjelvik, *Brooklyn Center, with distinction*
 Jane Ann Hoffman, *Minneapolis, with high distinction*
 Darcy Lynn Kjome, *Minneapolis, with distinction*
 Jacqueline Mary Koch, *Lino Lakes*
 Karen Mary Krigbaum, *Minneapolis, with distinction*
 Janice Lynn Lashbrook, *Bloomington*
 Louise Mary Lystad, *St. Paul, with distinction*
 Patricia Anne MacGillivray, *Minneapolis, with distinction*
 Peter B. Masley, *Minneapolis*
 Janet Marie McIntyre, *South St. Paul, with distinction*
 Marsha Lynne Merjanian, *Deephaven, with distinction*
 Christine Marie Mrosak, *Golden Valley, with distinction*
 Nancy Rae Nelson, *St. Paul*
 Susan Elizabeth Nelson, *St. Paul, with distinction*
 Cynthia Jean Neumann, *Edina, with distinction*
 Linda M. Niece, *Minneapolis, with high distinction*
 Marlys Eleanor Nolander, *Minneapolis, with high distinction*
- Linda M. Norlander, *Minneapolis*
 Patricia Marie Olsen, *Eden Prairie, with high distinction*
 Mary Jo Olson, *St. Paul*
 Linda J. Rieks, *Minneapolis, with distinction*
 Sherren Rothbauer, *Roseville*
 Mary Wicklund Schleske, *Minneapolis, with high distinction*
 Mary Jean Sellent, *Almena, Wis., with high distinction*
 Linda Elizabeth Smith, *Fairmont*
 Marcia Kay Sternberg, *St. James, with high distinction*
 Donna Marie Stockdale, *Minneapolis, with distinction*
 Kathy Susan Sweet, *Bloomington, with distinction*
 Susan Krogstad Thielen, *Kennedy*
 Patricia Ann Tokar, *Minneapolis, with distinction*
 Amy Lorraine Utoft, *Tyler, with distinction*
 Constance L. Wall, *Mahtomedi*
 Lorrie Rae Walz, *Pipestone, with distinction*
 Mary Jane Wheeler, *Roseville, with high distinction*
 Janet Faye Wilcox, *Mounds View*
 Penny Marie Wrbsky, *St. Paul, with distinction*
 Vickie Lynn Wright, *St. Paul*
 Marilyn Anne Berger Zillinger, *A.A., Minneapolis, with distinction*

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

- Joel Gerald Adamic, *A.A., Ely*
 Dean Alan Anderson, *Bloomington*
 Phyllis Jean Anderson, *Richfield, with high distinction*
 George Charles Andrews, *Duluth*
 Lynn Lucy Bartley, *Le Center*
 Douglas Charles Beck, *B.A., North St. Paul*
 Thomas John Bengel, *St. Paul*
 James Robert Bergeson, *Barnesville, with high distinction*
 Marti Ellen Berman, *St. Paul*
- Ronald E. Berner, *B.S., Buffalo, N.Y.*
 Mary Caia Bierman, *Northfield*
 David Gene Borer, *Minneapolis*
 Bonnie Jean Bruggeman, *International Falls*
 Carolyn F. Bruneau, *Minneapolis*
 Gary Harold Carlson, *B.A., Lake Elmo, with distinction*
 David Alan Chinnock, *B.S., River Falls, Wis.*

*Thomas Allen Christianson, New
 Richmond, Wis., with high
 distinction*
 Richard Walter Clark, Rochester
*Mark Lee Clemmensen, Luverne,
 with distinction*
*Michael Dee Clemmensen, Luverne,
 with distinction*
 Nancy Jane Clobes, Willmar
 Scott Edward Cuff, B.A., Deer Creek
*Douglas Willard Danielson,
 Minneapolis, with distinction*
*Michael Robert Doyle, Owatonna,
 with distinction*
 John Dragich, South St. Paul
*William John Eberle, St. Paul,
 with distinction*
 Scott David Evert, Hendrum
 Duane Francis Fancher, LaCrescent
 Michael J. Frakes
 Susan Bergen Fray, Seattle, Wash.
 John H. Frevel, B.A., St. Paul
 Beverly May Shom Friedenson,
 Minneapolis
 Victor Paul Froehlke, St. Paul
 Robert Edwin Gaffron, Rochester
 Charles Nathan Garber, St. Paul
 Dana Joseph Greenhoe, Hopkins
 John Anthony Grouse, B.A.
 John Edward Gustafson, Taylors
 Falls
*Michael Peter Hagelin, B.S.,
 Minneapolis, with distinction*
 James Mark Halvorsen, Red Wing
 Laurence Douglas Hanson,
 Crookston
 Ronald Harlen Hanson,
 Mountain Iron
 Dennis Paul Hays, St. Paul
*Carl Arthur Hemstrom, Farmington,
 with distinction*
 Mark Edward Hendrickson, St. Paul
 Donny Hildenbrand, A.A.,
 Minneapolis
 Frank Gilbert Hill, Burnsville
*Cheryl Hollerung, South St. Paul,
 with distinction*
*Kay Ellen Howe, Sauk Rapids,
 with high distinction*
 Larry Lester Howe, Glencoe
 Joy Ellen Hunziker, Minneapolis
 Gregory James Ide, Glencoe

Jack Elias Jagoda, B.A., St. Paul
 Keven Richard Jansen, Luverne
*Marilyn Rita Jansen, Sauk Centre,
 with high distinction*
 Wayne Steven Jeffrey, Minneapolis
 Brian Ray Johnson, Taylors Falls
 David Leroy Johnson, Park Rapids
 Kirk R. Johnson, Minneapolis
 Todd Arthur Johnson, Minneapolis
 Geraldine Louise Keeley, St. Paul
 Mary A. Kelley, Slayton
*Frank Thomas Kissane, Ely,
 with distinction*
 Sharon Kay Klapperich, St. Paul
 Robert John Klecker, B.A., St. Paul
 Mary Louise Kryzer, Hopkins
*Stella Lai-Hung Kwan, Hong Kong,
 with high distinction*
*Virginia Wai-Lun Lai, Hong Kong,
 with distinction*
 David Gustaf Linden, White
 Bear Lake
 James Thomas Maher, Bloomington
*Paul Robert Malchow, B.Chem.,
 St. Paul, with high distinction*
 Thomas Guy McClintick,
 South St. Paul
 John Kevin Middleton, Crosby
 Randall John Most, Prescott, Wis.
*Timothy Craig Mueller, Madelia,
 with high distinction*
 Joseph Anthony Nigro, Virginia
*Loren Dale Noreen, Maple Plain,
 with high distinction*
 Thomas Gordon Olson
 Richard Dean Patten, Jr.,
 Spring Valley
 Steven Mark Pepin, Maplewood
 Glenn Pierskalla, St. Cloud
 Dianne Mary Reier, A.A., Brainerd
 Raymond Earl Ristvedt, B.A.,
 Wadena
 Cecil Earl Roberts, Jr., Richfield
 Thurza Wolf Roberts, Minneapolis
 Jeffrey Scott Sandvig, Minneapolis
*David Peter Shepardson, B.S.,
 LaCrosse, Wis., with high
 distinction*
 Gary Dean Smith, Luverne
 Gregory George Steffenson, Buffalo
*Paul William Swan, Pelican Rapids,
 with distinction*

Valerie Williams Takemori, Minneapolis, with high distinction
Michael Curtis Tessum, Minneapolis
Marvin John Thelen, Mahanomen
Judith Lee Thoreson, Lakefield
William John Weber, South St. Paul
Mark Theodore Wolf, Long Lake

Chun Tung Wong, B.A., Hong Kong, with distinction
W. Alan Woodward, Dover, with distinction
Robert Louis Young, Lakeville
Carol Anne Zeise, Duluth

Doctor of Pharmacy

Henry Fred Blissenbach, B.S.Pharm.,
St. Paul
Thomas Hartland Godes
Richard Charles Jansen, B.S.Pharm.,
Red Wing
Howard August Juni, B.S.Pharm.,
Wayzata

Edward Paul Krenzeloek, B.S.Pharm.,
Ladysmith, Wis.
Olugbadebo Adewale Olusanya,
B.S.Pharm.
Juan Rodriguez Robayo, B.A.,
B.S., Richfield

SCHOOL OF PUBLIC HEALTH

Master of Hospital Administration

Oscar Louis Amparan, B.A.,
El Paso, Tex.
Ingo Angermeier, B.A.,
Hutchinson, Kan.
Thomas Quinn Brady, B.A.,
Minneapolis
Don Michael Chase, B.S.,
Minneapolis
William T. Christopher, Jr.
Vincent Cecil Clark, B.A.,
Englewood, N.J.
Edvard Arnold Cucci, B.A., M.A.
John Christopher Cutler, A.B.A.,
Manchester, Mass.
Melvin Harold Fals, B.A., St. Paul
John Harvey Ferman, B.A., M.A.,
Riverside, Calif.
David Jeffrey Fine
Johnelle Kathryn Foley, B.A.,
Minneapolis
Jerome Okobi Gbemudu, B.S.,
Ibadan, Nigeria
John Bell Grotting, B.A.,
Minneapolis
Stephen Rodger Hopper, B.A.,
Glen Ellyn, Ill.
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Frank David Jordan, Lawrence, Kan.
*Polly Ann Keith, Edina,
with high distinction*
Joseph John Kraska, Jr., A.L.A.,
Minneapolis

Frank Anton Krejca, Chanhassen
Judith Lee Larson, G.D.H.
Marilyn Eleanor Lindstrom
Mary Ann Mantis, St. Paul
Michael F. McGuire, Lake Elmo
Larry Howard Meltzer, St. Paul
*Peter Hazen Monkkonen, Golden
Valley, with distinction*
Richard Eugene Moriarity, North
St. Paul
*Dorothy Wallin Ohnsorg, A.L.A.,
St. Paul, with high distinction*
*Darlene Alice Olson, Bloomington,
with high distinction*
*Lawrence Wayne Olson,
Minneapolis, with distinction*
Thomas Garfield Olson, Minneapolis
Stephen Jeffrey Palmer, Edina
Hedwig Marie Quam, G.D.H.,
St. Paul
Harvey Walter Ratzlaff, St. Paul
Holly Irene Ryan, Little Falls
*Deborah Jean Shapiro, Minneapolis,
with high distinction*
Jean-Marie Sheehan
Donna Joan Siegfried, A.A.,
New Brighton
*Marie Lou Skilling, St. Paul,
with distinction*
Michael Francis Sullivan, St. Paul
*Pamela Ann Teply, with high
distinction*
Ardes Nelson Walz, Pipestone
Kathleen Sandra Wheeler, St. Paul
*Lynda Jeanne Young, G.D.H.,
Burnsville, with high
distinction*

COLLEGE OF VETERINARY MEDICINE

Bachelor of Science in Veterinary Science

- | | |
|---|---|
| <p>David William Anderson, B.A.,
Minneapolis, with distinction</p> <p>David Olaf Arneson, B.M.E.</p> <p>Richard William Bertz, Fond du Lac,
Wis., with distinction</p> <p>Barbara Ann Breu, Anoka,
with distinction</p> <p>David Lee Christian, B.S., B.A.,
Mountain Iron, with distinction</p> <p>LaVonne Marretta DeLange</p> <p>Robert DeWitt Goodwin, Max,
with distinction</p> <p>Glen Allen Grady, Cedarburg, Wis.,
with high distinction</p> <p>Kim Martin Gugisberg, St. Paul</p> <p>David Charles Hallstrom, Mora</p> <p>Mark Allen Heule, Minneapolis</p> <p>Dennis W. Hovelson, Hawley,
with distinction</p> <p>Micheal Paul Jokinen, B.E.E., Minne-
apolis, with high distinction</p> <p>Paul H. Kohrs, Lake City</p> <p>Richard Bernard Marthaler, Sauk
Centre</p> <p>Mark Neil Mattison, Lambertton,
with high distinction</p> <p>Barbara Sue Merickel, Wadena</p> <p>Stephen Arthur Mersch, Menomonie,
Wis., with distinction</p> <p>Richard Garst Messer, St. Paul</p> <p>Dennis George Neitzke, Detroit
Lakes, with distinction</p> <p>Arden Joel Nelson, Bemidji,
with high distinction</p> | <p>Glenn Earl Nielsen, B.A.,
Bloomington</p> <p>Barbara Marie O'Leary, B.A., M.S.,
St. Paul, with high distinction</p> <p>Jon Phillip Olson, Atwater</p> <p>James Alan Parker, Spring Valley,
with distinction</p> <p>Mark Earl Peterson, Hector,
with high distinction</p> <p>John William Piehl, Brainerd,
with distinction</p> <p>Jerold Ray Pieper, Henning</p> <p>Diane Marie Reeths, Janesville,
Wis., with distinction</p> <p>Michael Edward Richardson, A.A.,
Rochester</p> <p>Eugene Frank Schlueter, Hutchinson</p> <p>Gerald Keith Shuck, Sunburg,
with distinction</p> <p>Kathy Lou Sorom, A.A., Rushford</p> <p>Hoyt Walter Strandberg, Alma
Center, Wis.</p> <p>Barbara Straw, Cass Lake</p> <p>Robert Scott Waag, Edina,
with high distinction</p> <p>Stanley Richard Waters, A.A.,
with distinction</p> <p>Mark Gerald Werner, Dundas</p> <p>Kathryn Mary Yearneau, Edina,
with distinction</p> |
|---|---|

Doctor of Veterinary Medicine

- | | |
|---|--|
| <p>David Martin Best, B.S., St. Paul</p> <p>Lois A. Braun, B.S., Winthrop</p> <p>David Paul Bronder, B.S., Foley</p> <p>David Bruce Brunson, B.S.,
Annandale</p> <p>Steven Donn Cassel, St. Charles</p> <p>Richard Frank Ceman, B.S.,
Fort Worth, Tex.</p> <p>Bradley L. Day, B.S., Duluth</p> <p>Robert John Downing, B.S.V.S.,
Waukesha, Wis.</p> | <p>Wolter Stansfield Duykers,
Burnsville</p> <p>Joel Lyle Erickson, Princeton</p> <p>Kenton David Flaig</p> <p>Gary D. Frakes, Luverne</p> <p>Thomas James Fuhrmann, B.S.,
St. Cloud, Wis.</p> <p>Christine Lynn Gabel, B.S.,
Bloomington</p> <p>Craig Lee Galbreath, B.S.V.S.,
Enderlin, N.D.</p> |
|---|--|

Robert Harold Hathaway, B.S.,
St. Paul
Patricia Ann Hayes, B.S.,
Rochester
Michael Donald Healy, B.S.,
Canistota, S.D.
Mark Francis Hemmerich,
Menomonee Falls, Wis.
William Ernest Hiatt, B.S., Rochester
Walter Richard Holtan, B.A.,
West St. Paul
Bruce Dean Hultgren, B.S.,
Cambridge
Cheri Ann Johnson, B.S., St. Paul
Julia Ann Johnson, B.S., Madison,
Wis.
Hans Irvin Jorgensen, B.A.,
Spring Valley
Thomas Richard Keller, Wauwatosa,
Wis.
Kenneth Paul Kirchgessner, B.S.V.S.,
St. Louis Park
Mark Douglas Kittleson, B.S.V.S.,
Sherburn
Robert Herman Klitzke, Litchfield
Helen Anne Knutt, B.S.
Thomas Edwin Koepke, B.S., M.A.,
Mendota Heights
Dean William Lofquist, B.S.,
Kensington
Gregory Scott Longren, B.S.V.S.,
Rochester
Stephen Philip Malin, B.S.,
Genoa, Wis.
Brendan Colm McKiernan, B.S.,
St. Paul
David William Merry, B.S.V.S.,
Sun Prairie, Wis.

Regg Darwyn Neiger, B.S.V.S.,
Hutchinson
Perry Jay Nermoe, B.S.,
Upham, N.D.
Roger Herbert Newman, Wisconsin
Rapids, Wis.
Robert Gale Ovrebo, Wells
Barbara Edith Page, B.S., St. Paul
Dean Edward Peterson, B.S., Angus
Llewellyn Corneal Peyton, B.S.,
Bay Springs, Miss.
Fred Willis Pomeroy, B.S.,
South St. Paul
Patrick Thomas Redig, B.A.,
Alexandria
James Wallace Rieser, B.S.,
Racine, Wis.
Steven Jon Ruotsinoja, B.S.,
Wayzata
Clarence Walter Samuel, B.E.E.,
Fargo, N.D.
Frank James Skalko, B.S., Gilbert
Judy Ann Starz, A.A., B.S.,
Zumbrota
Hannis Ledbetter Stoddard III,
B.S., St. Paul
Gary Wayne Thayer, B.S., Princeton
John Carl Thomsen, B.S.,
Racine, Wis.
Dale A. Timm, B.S., Bricelyn
Mark James VanAcker, B.S.,
Eagle, Wis.
Douglas Michael VanDamme,
B.S.Pharm., Lynd
David Iver Weckwerth, B.S.V.S.
Max Emil Weiss, Milwaukee, Wis.
Loren Arthur Yerks, 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**

Donald F. Brown, St. Paul
Gregory G. Colby, St. Paul
Scott E. Davison, Minneapolis
Gary R. Goltz, St. Paul
John D. Inselman, Minneapolis
John E. Jacobsen, Minneapolis
Larry A. James, Minneapolis
Thomas K. Jondahl, Minneapolis
Kerry G. Lundmark, St. Paul

David N. Orvold, St. Paul
Gary E. Romsaas, Minneapolis
Keven M. Schmit, Minneapolis
Robert C. Swanson, Minneapolis
Ricky W. Sweere, Excelsior
Kerry D. Upton, Minneapolis
Patrick C. Welch, Minneapolis
Thomas J. White, Jr., Champlin
Douglas A. Wickstrom, Crystal

DEPARTMENT OF MILITARY SCIENCE **Second Lieutenant, USA Adjutant General Corps**

William G. Lyttle, Thief River Falls

Second Lieutenant, USA Infantry

Jeffrey L. Harris, Rockford, Ill. Allen R. Taylor, Thief River Falls

Second Lieutenant, USA Transportation Corps

Daniel D. Imholte, Minneapolis

Second Lieutenant, USAR Corps of Engineers

Lee D. Johnson, Zimmerman

Second Lieutenant, USAR Field Artillery

Bob A. Briscoe, Bertha
Dennis M. McCann, Minneapolis

James M. Oman, North Branch
Robert M. Polaski, St. Paul

Second Lieutenant, USAR Medical Service Corps

Edward H. Romson, Kihei, Hawaii

Second Lieutenant, USAR Unassigned

David M. Stamerjohn, East
Peoria, Ill.

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Gordon B. Aaseng, McIntosh
Torger J. Anderson, Columbia
Heights

Steven P. Brown, Southampton, Pa.
Christopher R. Dean, Minnetonka
Tracy V. Drake, Richwood, Ohio
William A. Ford, Woodbridge, Va.
Wayne K. Frey, Rosemount
Robert L. Govett, St. Paul

Jeffrey S. Hennings, Zumbrota
James E. Holzapfel, Roseville
Stephen D. Huch, Jackson, Miss.
Jerome D. Kulenkamp, St. Paul
John V. Lawler, New City, N.Y.
Stephen L. Mischke, Springfield, Va.
Phillip J. Stout, Lambertton
Joseph Stusnick III, Forty Fort, Pa.
Lucius O. Taylor, Jr., Minnetonka

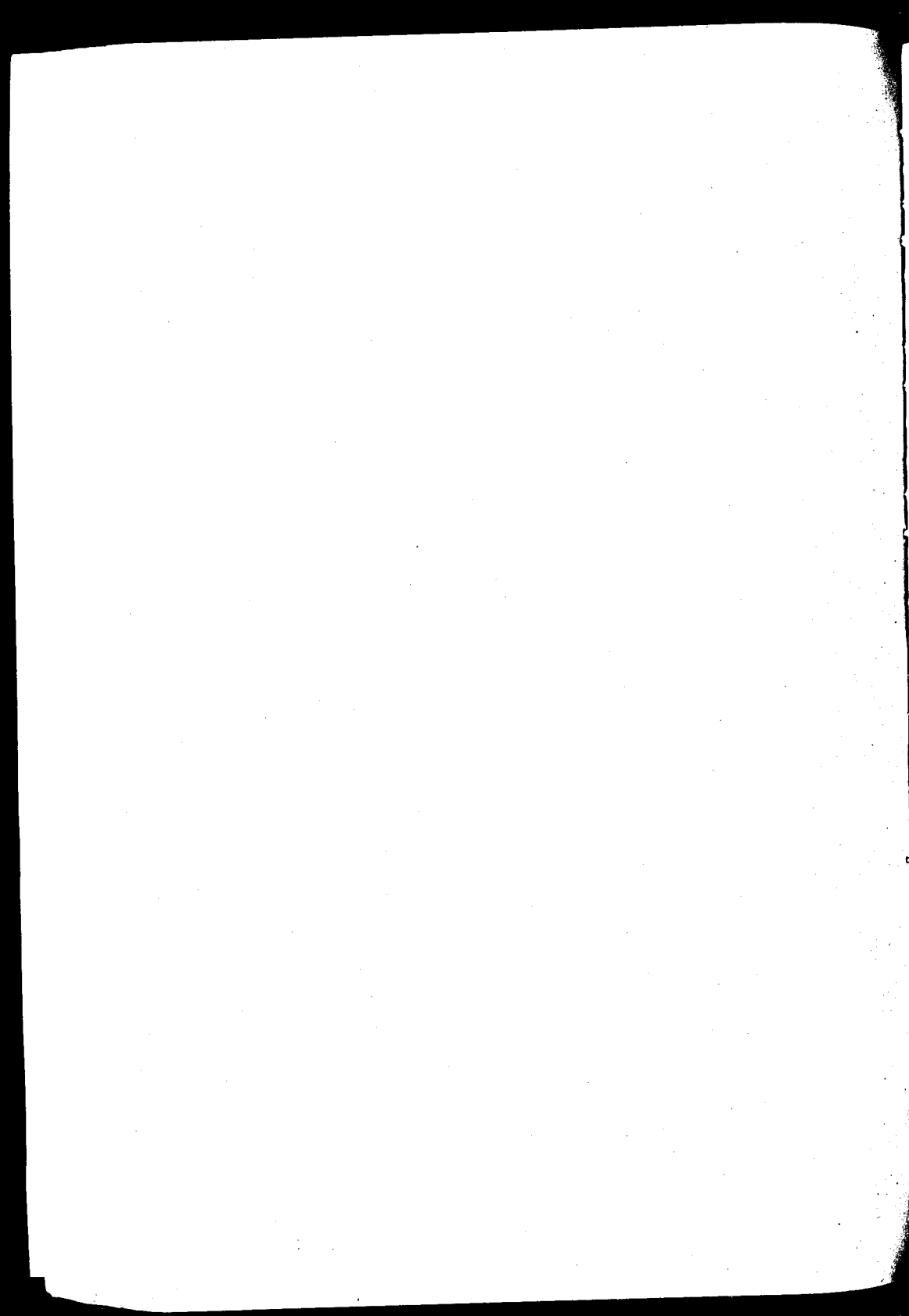
Ensign, USNR

Allan M. Brown, St. Paul
Paul E. Moyer, Duluth

Charles J. Wagner, Jordan

Second Lieutenant, USMC

Christopher J. Gunther,
Dayton, Ohio



Summary of Degrees Conferred by the University During the Academic Year 1973-74

Conferred July, August, and December, 1973, and March, 1974	5,663
Conferred June, 1974 (subject to completion of requirements)	5,866
Total degrees conferred 1973-74	11,529*

*Includes 1,238 conferred at Duluth, 310 at Morris, 191 at Crookston, and 115 at Waseca.

SUPPLEMENTAL LIST OF EDUCATION STUDENTS GRADUATING WITH "HIGH DISTINCTION" OR "DISTINCTION" HIGH DISTINCTION

John Byron Casey
Susan Caryl Christopherson
Mary Margaret Dreblow
Kathy Annette Evans
Denise Lynn Gorman
Susan Faye Jennings Holm
Dennis Melvin Holt
Michael Mayo Holt
Monika Teal Hunter
Marilyn Arline Kofski
Anne Marie Kramer
Nancy Ellen Lambert
Delores Rae Lemmon
Lizbeth Ann Lund
Charlotte Jeanne Mattison
Cheryl Jeanne Nelson

Nancy Jane Ness
Jane Carol Olson
Susan Kay Opitz
Carolyn Sue Pickering
Teresa Elaine Rawlings
Bonnie Diane Rexeisen
Diane Marie Russ
Linda Marie Schmidt
Nancy Kay Scholl
Dawn Allison Scott
Ellen Roberts Siegel
Sandra Lee Stevens
Barbara Jane Swanson
Lenore Louise Whitney
Marcia Jeanne Wolter

DISTINCTION

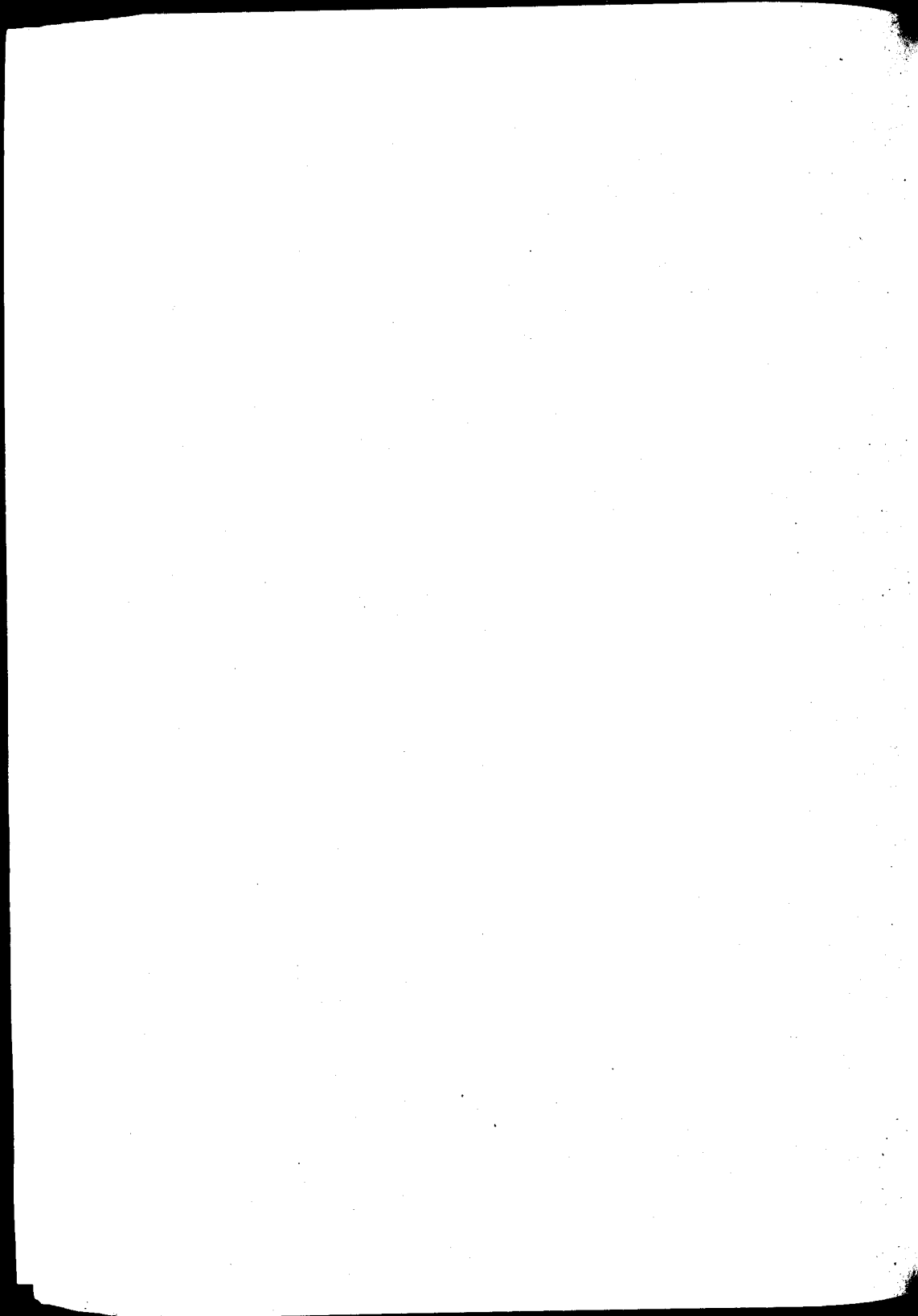
Deborah Jo Aurandt
Sharon Kay Bailey
Garry Brian Bjorklund
James Edward Boden
Mary Beth Bowman
Mary Ruth Clift
Laurie Gail Duberstein
Susan Lee Gabel
Claudia Marie Gabriel
Jean Ann George
Jane Frances Gies
Gayle R. Gooding
David Saul Haberman
Dean Kenneth Hanson
Beve Austin Henry
Gary Steven Hess
Stephen David Huch
Tamara Lois Frank Hudrlik
Julie Marvin Ireland
Patricia Ann Klaers
Deborah Jean Kline
Margaret Ann Knaeble
Frances Katherine Kotsomas
Janet Eileen Kreeh
Valerie Rose Lane
Cynthia Noreen Larson

Lawrence Paul Leebens
Rosemary Helen Leutsch
Marion Troseth Louck
Judith Barbara Lurie
Patti Marilyn Malisov
Wendy Lee Martens
Nancy Elizabeth Martin
Darlene Kay McLain
Peter Quentin Minear
Mary Jo Elizabeth (Stacken)
Mortenson
Mary Margaret Myers
JoAnne Yvonne Nelsestuen
Beth Eloise Nelson
Rodney Melvin Nerdahl
Cynthia Ann Olson
Loretta Anne Peters
Gloria Joan Peterson
Cynthia Lee Polomny
Carol Denise Potocki
Margaret McGregor Read
Kathy Jean Robinson
Kathleen Susan Russo
Gail Rosalyn Sande
Lenore Mary Scholtes
Sharon Lou Schwab

SUPPLEMENTAL EDUCATION DISTINCTION LIST (Continued)

Michael William Seely
Patricia L. Sievers
Nancy Kay Skretting
Steven Lewis Smith
John Thomas Soler
Stephanie Marie Speakman
Constance Jean St. Martin
Marsha Ann Storbakken
Cynthia Jane Storholm

Grace Marilyn Stormoen
Jean Perrin Swenson
Jeffrey Arthur Trowbridge
Susan Viskocil
Paula Jean Von Rueden
Marsha Ione Wagenknecht
Margaret Ann Wheeler
Margaret Rose Wheeler



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.

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

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

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

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

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

Printed on recycled paper

MAY



UNIVERSITY OF MINNESOTA

August Commencement, 1974

FRIDAY AFTERNOON, AUGUST 23, 4:00 P.M.
NORTHROP MEMORIAL AUDITORIUM

Board of Regents

The Honorable Elmer L. Andersen, St. Paul
The Honorable Fred A. Cina, Aurora
The Honorable Lauris D. Krenik, Madison Lake
The Honorable L. J. Lee, Bagley
The Honorable Lester A. Malkerson, Minneapolis
The Honorable Wenda Moore (Mrs. Cornell), Minneapolis
The Honorable George W. Rauenhorst, Olivia
The Honorable Neil C. Sherburne, Lakeland Township
The Honorable Loanne R. Thrane (Mrs. Ralph), Chanhassen
The Honorable David C. Utz, M.D., Rochester
The Honorable Kathryn Vander Kooi (Mrs. Benjamin), Luverne
The Honorable John A. Yngve, Plymouth

Central Executive Officers

E. W. Ziebarth, President
Duane A. Wilson, Secretary to the Board of Regents
James F. Brinkerhoff, Vice President for Finance, Planning, and Operations
Walter H. Bruning, Vice President for Administrative Operations
Paul H. Cashman, Vice President for Student Affairs
Harold W. Chase, Acting Vice President for Academic Administration
Lyle A. French, Vice President for Health Sciences
William F. Hueg, Deputy Vice President for Agriculture, Forestry, and Home Economics
Stanley B. Kegler, Vice President for Institutional Planning and Relations

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

Your University

CHARTERED in 1851 by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and twenty-third birthday. One of the great land-grant universities in the nation, the University of Minnesota is dedicated to training young men and women to be our future leaders. Each year, graduates leave our campuses to add new skills and knowledge to the existing resources of the state. They have been trained as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, scientists, farmers, businessmen—to name but a few of the careers for which preparation is offered. Since its founding, the University has awarded more than 265,000 degrees, each one in recognition of the successful completion of a challenging academic program.

In addition to giving collegiate instruction to nearly 50,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Waseca campuses and at the Mayo Medical and Graduate Schools in Rochester, the University offers, through Continuing Education and Extension programs, special training for those who wish to study on a part-time basis. The University also offers educational opportunities through its Agricultural Extension Service, with county agents, home agents, 4-H club agents, and recreation and health consultants available throughout the state to provide help to Minnesotans in their own homes.

In the many research laboratories on the University's five campuses, at the agricultural experiment stations located throughout the state, at the Rosemount Research Center, the Cloquet Forestry Center, the Cedar Creek Natural History Area near Bethel, the Horticultural Research Center and Landscape Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Horticulture Center at Duluth, the Sand Plain Experimental Field at Elk River, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are at work on countless experiments of great potential importance to the quality of our lives. Research projects are leading to new knowledge in such areas as learning disabilities, drug abuse, urban and environmental problems, rural/urban migration, health care delivery systems, and computer technology, to name only a few. The progress being made in these and other areas will have a profound impact on the lives of Minnesotans and people throughout the world.

THE UNIVERSITY continues to be the great cultural center of the Upper Midwest. It is the home of the University Artists Course, the University of Minnesota Television Hour, Radio Station KUOM, the University Theatre, the Bell Museum of Natural History, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings important artists and lecturers to more than a million persons annually.

Minnesotans have good reason to be proud of their University, not only because it is one of the leading state universities in the country, but also because of the extent and quality of its services to the people of the state, their families, communities, and organizations. The interest of Minnesotans in their University is a dynamic thing, and it expresses itself in many ways. Their contributions have made it possible to build the Variety Club Heart

Hospital and the Mayo Memorial Building. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to endow a research professorship in heart disease. Other contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall, which houses the biomedical library and other medical research facilities.

Just as generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose efforts have made hundreds of grants and fellowships available to deserving students. As the University moves toward emphasis on upper division, graduate, and professional programs, educational costs will increase. Friends and supporters of the University, who are aware of the financial impact of increased specialization, work continuously to increase the funds available for student assistance.

THE 1973 LEGISLATURE appropriated \$240,306,221 for the University's operating expenses during the 1973-75 biennium. Of that amount, \$185,852,478 was designated for general operations and maintenance, \$13,072,538 for the University Hospitals, \$1,747,532 for the Waseca Technical College, \$2,320,548 for the Crookston Technical College, and \$32,493,034 for new buildings, land, and the rehabilitation of existing buildings. In addition, \$37,313,125 was received in special appropriations, for funding of projects such as special research and extension activities.

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

COMMENCEMENT marks the conclusion only of the student's academic life at the University. As a graduate, he or she is part of its history and part of its future as well. Alumni are urged to continue their relationship with the University through the Minnesota Alumni Association and its college groups.

Alumni and their families and friends will always be welcome here. The University's doors will be open to those who come back to visit and to keep in touch with an important part of their lives.

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

Order of Events

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

PROCESSION: At 4:00 p.m. the Mace-Bearer, Professor Ralph E. Miller, M.S., College of Home Economics, will carry the Mace onto the stage, heralding the arrival of the academic procession of candidates. On the stage are administrators, faculty, distinguished guests, and Regents. The order of march for candidates is as follows:

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

During the procession Professor Fleischer will play:

Festive Music Gluck

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

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

INVOCATION (the audience still standing): Father Michael J. Lyons, B.A., Newman Center pastor and member of the Council of Religious Advisors.

SPEAKING FOR THE UNIVERSITY: President E. W. Ziebarth, Ph.D.

COMMENCEMENT ADDRESS: President John C. Weaver, Ph.D., University of Wisconsin.

CONFERRING OF DEGREES: President Ziebarth 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, Acting Dean Kenneth Keller, Ph.D., Graduate School, will present him or her to President Ziebarth. Assisting them will be Faculty Marshals Professor Ralph E. Miller, M.S., College of Home Economics; Associate Professor Mary Klaurens, Ph.D., College of Education; Professor Eugene Johnson, Ph.D., School of Public Health; Professor Fredric Steinhauser, Ph.D., General College; and Mr. Charles Liesenfelt, M.A., Admissions and Records.

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

PRESENTATION OF CERTIFICATES AND BACHELOR'S DEGREES: Vice President James F. Brinkerhoff, M.B.A., Finance, Planning, and Operations, will introduce the deans of the colleges or their representatives, who will present to President Ziebarth the candidates for certificates and degrees. They are, in order of their introduction:

Dean John A. Goodding, Ph.D., College of Agriculture
Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences
Associate Dean Robert Upson, Ph.D., College of Business Administration
Dean Jack C. Merwin, Ph.D., College of Education
Dean Richard A. Skok, Ph.D., College of Forestry
Dean Alfred L. Vaughan, Ph.D., General College
Dean Keith N. McFarland, Ph.D., College of Home Economics
Professor C. Robert Morris, J.D., Law School
Dean Frank J. Sorauf, Ph.D., College of Liberal Arts
Dean N. L. Gault, M.D., Medical School
Dean M. Isabel Harris, Ph.D., School of Nursing
Assistant Dean Frank E. DiGangi, Ph.D., College of Pharmacy
Assistant Dean Robert Veninga, Ph.D., School of Public Health
Dean Richard A. Swalin, Ph.D., Institute of Technology
Dean Barbara Knudson, Ph.D., University College

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

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

RECESSIONAL: As graduates leave their seats, Professor Fleischer will play:
Toccata Bach

PRESIDENT'S RECEPTION

The President's Reception on the plaza in front of Northrop Auditorium immediately follows the ceremony.

July Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Philip Monroe Dyrud, Newfolden
B.A. '64, Augsburg College; M.A. '70, C.S.E. '72, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Guide for the Implementation of a Needs Assessment Program. Major Adviser: Prof. N. C. Nickerson.

Robert Booker Jewell, Mechanicsville, Va.

B.S. '56, Virginia Polytechnic Institute; M.Ed. '65, College of William and Mary. Major: Educational Administration. Minor: Supporting Program. Thesis: An Adoption-Diffusion Model for the Administrative Integration of Crisis Intervention Techniques in Early Adolescent Education. Major Adviser: Prof. S. H. Popper.

Doctor of Philosophy

John Freeman Anderson, St. Paul
B.S. with distinction '67, M.A. '69, University of Minnesota. Major: Education. Minor: Music. Thesis: An Investigation of the Teacher Attitude of Music Education Undergraduates and of the Meaning They Ascribe to Selected Educational Concepts. Major Adviser: Prof. A. F. Caswell.

Donald Adolph Beimborn, St. Paul

B.S. '61, M.A. '67, University of Wisconsin. Major: Ecology. Minor: Supporting Program. Thesis: A Comparison of Physiological and Morphological Parameters Related to Water Balance in Wild and Domestic Strains in *Mus Musculus*. Major Adviser: Prof. D. W. Warner.

Marilyn Jeanne Anderson,
Minneapolis

B.A. magna cum laude '58, Augsburg College; M.A. '63, M.A. '67, University of Minnesota. Major: American Studies. Thesis: The Image of the American Indian in American Drama: From 1766 to 1845. Major Adviser: Prof. J. J. Kwiat.

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A.B. '66, West Virginia University. Major: Botany. Minor: Geology. Thesis: Palynology of the Hell Creek Formation (Maestrichtian) in South Central North Dakota, U.S.A. Major Adviser: Prof. J. W. Hall.

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B.S. '67, West Virginia University; M.A. '69, University of Minnesota. Major: Anthropology. Minor: Supporting Program. Thesis: Social Diversity and Cohesion in a Large Voluntary Association: A Study of the Irish Farmers Association. Major Adviser: Prof. R. C. Kiste.

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Richard Lee Roy Wakefield,
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B.S. '59, University of Minnesota. Field of Concentration: Educational Administration. Major Adviser: Prof. C. H. Sederberg.

Ellen Ann Wartella, Wilkes-Barre,
Pa.

B.A. '70, University of Pittsburgh. Field of Concentration: Mass Communication. Major Adviser: Prof. P. J. Tichenor.

Fr. Robert E. Wiley

B.A. '56, Catholic University. Major: Political Science. Minor: Anthropology. Thesis: A Model Constitution for an Emerging Country. Major Adviser: Prof. G. W. Wynia.

Donald Loren Wolter, Minneapolis
B.S. with honor '61, Mankato State College. Field of Concentration: Education. Major Adviser: Prof. D. L. Lange.

Glenn Charles Wood, Coon Rapids
B.S. with high distinction '71, University of Minnesota. Field of Concentration: Industrial Relations. Major Adviser: Prof. G. T. Milkovich.

Mae Franklin Wright, Crystal
B.S. '61, University of Minnesota. Field of Concentration: Educational Psychology. Major Adviser: Prof. D. G. Force, Jr.

Masako Yoshida, Hombetsu-Cho,
Japan
B.A. '71, Eastern Mennonite College. Field of Concentration: English as a Second Language. Major Adviser: Prof. B. W. Robinett.

Master of Arts in Public Administration

Alexander Orehmekeh Lewis,
Freetown, Sierra Leone

B.A. '72, Langston University. Field of Concentration: Public Administration. Major Adviser: Prof. G. A. Warp.

Master of Business Administration

Roger Alan Anderson, St. Paul
B.Ch.E. '69, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

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B.A. cum laude '67, Wittenberg University. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Hamza Asgharali, Karachi, Pakistan
B.S.B. '72, University of Minnesota. Field
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Major Adviser: Prof. Jack Gray.

Quahib Chalbi
Dip. d'Ingénieur '66, Dip. de Docteur-
Ingénieur '69, Université de Grenoble.
Field of Concentration: Business Admin-
istration. Major Adviser: Prof. D. V. Har-
per.

Donald Stephen Fitterer,
Minneapolis
B.S.Ch.E. with distinction '71, University
of Minnesota. Field of Concentration: Busi-
ness Administration. Major Adviser: Prof.
D. V. Harper.

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B.M.E. '66, University of Minnesota. Field
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Major Adviser: Prof. D. V. Harper.

Harold Herman Ludtke,
St. Louis Park
B.E.E. with distinction '59, M.S.E.E. '66,
University of Minnesota. Field of Concen-
tration: Business Administration. Major
Adviser: Prof. D. V. Harper.

Ronald Joseph MacKinnon,
Antigonish, Nova Scotia, Canada
B.S. with honors '59, Ed.D. '70, Okla-
homa State University. Field of Concen-
tration: Business Administration. Major
Adviser: Prof. G. B. Davis.

Prabodh J. Parikh
B.Tech. '67, Indian Institute of Technol-
ogy, Bombay; M.S. '68, Michigan State
University. Field of Concentration: Busi-
ness Administration. Major Adviser: Prof.
D. V. Harper.

Orazio Manzi-Fé Pater, Milan, Italy
B.A. '70, Macalester College. Field of
Concentration: Business Administration.
Major Adviser: Prof. D. V. Harper.

Lorenzo Francisco Sada,
Monterrey, Mexico
Ing.Chem.Ad. '71, Instituto Tecnologica
de Monterrey. Field of Concentration:
Business Administration. Major Adviser:
Prof. R. G. Schroeder.

Amarjit Singh, New Delhi, India
B.S.E. '65, Punjab University; M.S.I.E.
'69, North Dakota State University. Field
of Concentration: Business Administration.
Major Adviser: Prof. D. V. Harper.

Alesia Kirk Snyder, Washington, Pa.
B.S. '72, Carnegie-Mellon University. Field
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Major Adviser: Prof. T. R. Hoffman.

Jae Hyon Song, Korea
B.S.E. '64, Seoul National University;
M.S. '70, University of London. Field of
Concentration: Business Administration.
Major Adviser: Prof. D. C. Hastings.

Robert Craig VanFossan,
Minneapolis
B.A. '72, St. Olaf College. Field of Con-
centration: Business Administration. Major
Adviser: Prof. O. C. Walker.

Master of Civil Engineering

Constantinos B. Avgeropoulos,
Athens, Greece
B.C.E. '72, University of Minnesota. Ma-
jor: Civil Engineering. Minor: Internal.
Major Adviser: Prof. H. G. Stefan.

Donald Robert Poindexter,
Minneapolis
B.C.E. '69, University of Minnesota. Ma-
jor: Civil Engineering. Minor: Geo-Engi-
neering. Major Adviser: Prof. L. P. Peder-
son.

Master of Fine Arts

Mark Jeffrey Blum, Maplewood, N.J.
B.A. '72, University of Pennsylvania. Field
of Concentration: Theatre Arts. Major Ad-
viser: Prof. L. J. Dezseran.

Leo Edward Derkowski, Jr.,
Elnora, N.Y.
B.F.A. '67, Rochester Institute of Tech-
nology. Field of Concentration: Studio
Arts. Major Adviser: Prof. H. T. Rowan.

Donna Janet Dixon
B.A. '70, Concordia College. Field of Con-
centration: Music. Major Adviser: Prof. R.
A. Schuessler.

Patricia Lundgren Feld, Minneapolis
B.A. summa cum laude '69, University of
Minnesota; M.A. '72, Tufts University.
Field of Concentration: Theatre Arts. Ma-
jor Adviser: Prof. R. D. Moulton.

William Daniel File, Decatur, Ill.
B.S.Ed. '70, Eastern Illinois University.
Field of Concentration: Theatre Arts. Major
Adviser: Prof. Wendell Josal.

Ellen Mae Floody, Minneapolis
B.A. '71, Hamline University. Field of
Concentration: Music. Major Adviser: Prof.
R. A. Schuessler.

Terry R. Gunvordahl, Burke, S.D.
B.A. '71, South Dakota State University.
Field of Concentration: Theatre Arts. Major
Adviser: Prof. Wendell Josal.

Christopher Peirce Holder,
Cleveland, Ohio
B.A. '69, Kalamazoo College. Field of Con-
centration: Theatre Arts. Major Adviser:
Prof. R. D. Moulton.

Robert St. John Krebs, St. Louis, Mo.
B.A. '72, St. Louis University. Field of
Concentration: Theatre Arts. Major Ad-
viser: Prof. R. D. Moulton.

Young Soon Lee, Seoul, Korea
B.A. '66, Seoul National University. Field
of Concentration: Music. Major Adviser:
Prof. R. A. Schuessler.

Steve Ernest LoVerso, Sacramento,
Calif.
B.A. with high honors '72, University of
California. Field of Concentration: Theatre
Arts. Major Adviser: Prof. R. D. Moulton.

Gary Steven Martinez,
San Francisco, Calif.
B.A. '72, Loyola University of Los An-
geles. Field of Concentration: Theatre Arts.
Major Adviser: Prof. R. D. Moulton.

Marianne Muellerleile, St. Louis, Mo.
B.A. '71, St. Louis University. Field of
Concentration: Theatre Arts. Major Ad-
viser: Prof. R. D. Moulton.

John Richard Polenck,
East Point, Ga.
B.A. cum laude '71, Western Carolina
University. Field of Concentration: Thea-
tre Arts. Major Adviser: Prof. Wendell
Josal.

Virginia Lynn Wirt, St. Paul
B.A. magna cum laude '68, University of
Minnesota. Field of Concentration: Studio
Arts. Major Adviser: Prof. Warren Mac-
Kenzie.

Lawrence Allen Young, Minneapolis
B.Mus. '71, Boston University. Field of
Concentration: Music. Major Adviser: Prof.
Heinrich Fleischer.

Master of Science

Kathleen M. Lund Ayaz,
Grand Forks, N.D.
B.S. with high honors '71, Robert College,
Turkey. Major: Biochemistry. Minor:
Chemistry. Thesis: Biosynthesis of L-As-
corbic Acid in Mammals. Major Adviser:
Prof. Robert Jenness.

John Thomas Bakel, Evansville, Ind.
B.A. cum laude '72, University of Evans-
ville. Major: Food Science. Minor: Bio-
chemistry. Thesis: Characterization of the
Relationship Among Operation Parameters
in the Concentration of Cottage Cheese
Whey Protein by Hollow Fiber Ultrafiltra-
tion. Major Adviser: Prof. H. A. Morris.

LeRoy Carl Boock, Detroit Lakes
B.S. '67, University of Minnesota. Field of
Concentration: Horticulture. Major Ad-
viser: Prof. H. F. Wilkins.

Fu-Wen Pauline Chien, Minneapolis
B.S. '71, National Taiwan University. Field
of Concentration: Botany. Major Adviser:
Prof. A. W. Frenkel.

James Kelly Collins, Los Angeles,
Calif.
B.S. '72, Stanford University. Major: Mi-
crobiology. Minor: Biochemistry. Thesis:
Study of Replication of Lactate Dehydro-
genase Elevating Virus. Major Adviser:
Prof. P. G. Plagemann.

Andrew James Cubbon, Rochester
B.S. '69, University of Illinois. Field of
Concentration: Computer and Information
Sciences. Major Adviser: Prof. A. R. Han-
son.

Lester E. Eberhardt
B.S. '70, Washington State University. Ma-
jor: Ecology. Minor: Statistics. Thesis:
Food Habits of Prairie Mink (*Mustela Vi-*
son) During the Waterfowl Breeding Sea-
son. Major Adviser: Prof. D. B. Siniff.

James Eldred Erickson, St. Paul
B.A. magna cum laude '71, North Park
College. Field of Concentration: Zoology.
Major Adviser: Prof. J. C. Underhill.

Clarence Edward Evjen,
Williston, N.D.

B.S. '70, North Dakota State University.
Field of Concentration: Environmental
Health. Major Adviser: Prof. H. J. Paulus.

Maura Ann Gage, Baltimore, Md.
B.S. '70, Towson State College. Field of
Concentration: Botany. Major Adviser:
Prof. Eville Gorham.

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B.S. '72, North Dakota State University.
Field of Concentration: Environmental
Health. Major Adviser: Prof. D. E. Barber.

Joyce Louise Grahn, Edina
B.S. cum laude '70, University of Minne-
sota. Major: Business Administration. Mi-
nor: Psychology. Thesis: Minneapolitans'
Attitudes Towards City's 1972 Consumer
Protection Ordinances. Major Adviser:
Prof. Ivan Ross.

Bill Handschin, St. Paul
B.A. '69, University of Minnesota. Field
of Concentration: Biology. Major Adviser:
Prof. A. B. Hooper.

Gordon Russell Hess, Minneapolis
B.S. Geol. '68, University of Minnesota.
Major: Geology. Minor: Geophysics. The-
sis: Submarine Fanfare: A Comparison of
Modern and Miocene Deep Sea Fans. Ma-
jor Adviser: Prof. W. R. Normark.

George Francis Heyne
B.S. '63, Kansas State University. Field of
Concentration: Computer and Information
Sciences. Major Adviser: Prof. W. D.
Munro.

Lynn Suzanne Fredrick Hickman,
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B.A. '69, University of Minnesota. Field
of Concentration: Biometry. Major Adviser:
Prof. L. C. Gatewood.

Clarence A. Johnson, Minneapolis
B.S. '73, University of Minnesota. Field of
Concentration: Food Science. Major Ad-
viser: Prof. S. R. Tatini.

Sung Woo Kim, Seoul, Korea
B.S. '70, Seoul National University. Field
of Concentration: Computer and Informa-
tion Sciences. Major Adviser: Prof. W. D.
Munro.

Claire Elaine Kotts, Forest Lake
B.A. '69, Hamline University. Major: Bio-
chemistry. Minor: Microbiology. Thesis:
The Occurrence of Kappa-Casein in Mam-
malian Milks. Major Adviser: Prof. Robert
Jenness.

Sam Hwi Lee, Seoul, Korea
B.S. '70, Seoul National University. Major:
Food Science. Minor: Nutrition. Thesis:
Kinetics of Ascorbic Acid Degradation as
a Function of Water Activity. Major Ad-
viser: Prof. T. P. Labuza.

Kenneth Robert Madison, Luverne
B.A. cum laude '72, Augustana College.
Field of Concentration: Environmental
Health. Major Adviser: Prof. C. P. Straub.

Abdessellem Mansour, Kairouan,
Tunisia
Lic. '71, University of Tunis. Field of Con-
centration: Agricultural Economics. Major
Adviser: Prof. J. W. Hammond.

Nancy Jean Menzel, Bloomington
B.S. cum laude '71, St. Olaf College. Field
of Concentration: Nursing. Major Adviser:
Prof. Barbara Redman.

Paul Kevin Mills, Worcester, Mass.
B.A. '73, Holy Cross College. Field of
Concentration: Environmental Health. Ma-
jor Adviser: Prof. C. P. Straub.

Wardjiman Notowidjojo,
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D.V.M. '60, Universitas Gadjah Mada Di
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nary Surgery and Radiology. Major Adviser:
Prof. J. P. Arnold.

David Fergus Nygaard, Minneapolis
B.S.B. '66, University of Minnesota. Field
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Major Adviser: Prof. M. J. Purvis.

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Health. Major Adviser: Prof. D. E. Barber.

Danladi Isiaku Osori, Nigeria
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geria. Field of Concentration: Theriogen-
ology. Major Adviser: Prof. L. F. Arch-
bald.

Kenneth Edward Phelan,
Watertown, Mass.
B.B.A. '69, University of Massachusetts.
Field of Concentration: Business Adminis-
tration. Major Adviser: Prof. G. W. Dick-
son.

James Edward Quick, Los Angeles,
Calif.
B.S. magna cum laude '72, University of
California, Los Angeles. Field of Concen-
tration: Mineralogy and Petrology. Major
Adviser: Prof. J. H. Stout.

Frederick Henry Roberts, St. Paul
B.Ch. '63, University of Minnesota. Field
of Concentration: Chemistry. Major Ad-
viser: Prof. E. J. Meehan.

Ezzedine Saidane, Ksar-Hellal,
Tunisia

Lic. '71, University of Tunis. Field of Con-
centration: Agricultural Economics. Major
Adviser: Prof. R. P. Dahl.

Hong-Ming Soo, Taiwan
B.S. '70, Taiwan Provincial Chung-Hsing
University. Major: Food Science. Minor:
Biochemistry. Thesis: Thermal Inactivation
of Staphylococcal Enterotoxins A and D in
Certain Food Products. Major Adviser:
Prof. S. R. Tatini.

Chase Garfield Trowbridge,
Minneapolis

B.A.E.M. with distinction '73, University
of Minnesota. Major: Mechanics. Minor:
Chemical Engineering and Materials Sci-
ence. Thesis: A Rotating Rod Viscometer
for Non-Newtonian Fluids. Major Advisers:
Profs. G. S. Beavers and D. D. Joseph.

David Joseph Wangness,
Grafton, N.D.

B.S. '71, University of Minnesota. Field
of Concentration: Forestry. Major Adviser:
Prof. A. C. Mace, Jr.

Ronald Ray Wegner, St. Cloud
B.Math. '71, University of Minnesota.
Field of Concentration: Mathematics. Ma-
jor Adviser: Prof. H. H. Gershenson.

Earl-Tong Yang, Seoul, Korea
B.E. '64, Han Yang University, Korea.
Field of Concentration: Operations Re-
search. Major Adviser: Prof. J. S. White.

Kuo-Ning Yang, Kaohsiung, Taiwan
B.S. '69, National Chung-Hsing University.
Field of Concentration: Forestry. Major
Adviser: Prof. J. G. Haygreen.

Richard Zito, Brooklyn, N.Y.
B.S. '72, Polytechnic Institute of Brook-
lyn. Field of Concentration: Physics. Ma-
jor Adviser: Prof. B. F. Bayman.

Master of Science in Agricultural Engineering

John Edward Gilley, Jr., Boone,
Colo.

B.S. '72, Southern Colorado State College.
Major: Agricultural Engineering. Minor:
Civil Engineering. Thesis: Thermal Con-
ductivity of a Frozen Hubbard Loamy
Sand. Major Adviser: Prof. E. R. Allred.

Alfred Brady Pennell, Wayzata
B.S. '70, Rutgers University. Major: Agri-
cultural Engineering. Minor: Civil Engi-
neering. Thesis: Conceptual Debris Basin
Design Model for Sediment Control in
Suburban Twin City Construction Sites.
Major Adviser: Prof. C. L. Larson.

Master of Science in Civil Engineering

Gregory Scott Gross, St. Paul
B.S.Ch. '69, University of Minnesota. Ma-
jor: Civil Engineering. Minor: Microbiol-
ogy. Thesis: A Preliminary Investigation
Into the Role of Protozoa in the Pure Oxy-
gen Aeration Activated Sludge Process.
Major Adviser: Prof. W. J. Maier.

Thomas Marion Hals, North Branch
B.C.E. with high distinction '71, Univer-
sity of Minnesota. Major: Civil Engineer-
ing. Minor: Geology. Thesis: Axle Load
Equivalencies Predicted From Elastic
Theory and Material Fatigue Properties.
Major Adviser: Prof. E. L. Skok, Jr.

Master of Science in Dentistry

Maria Isabel Gely, Rio Piedras,
Puerto Rico

B.A. with honors '67, D.D.M. '71, Univer-
sity of Puerto Rico. Major: Dentistry. Mi-
nor: Microbiology. Thesis: Quantitative
and Qualitative Analysis of Microorgan-
isms Cultured from Infected Root Canals
of Human Patients. Major Adviser: Prof.
J. R. Jensen.

Stephen Harold Sands, Minneapolis
B.S. '67, D.D.S. '71, University of Minne-
sota. Major: Dentistry. Minor: Anatomy.
Thesis: The Efficacy of Acid Etching to
Increase the Sealability of Root Canal
Sealer Cements. Major Adviser: Prof. J.
R. Jensen.

Master of Science in Electrical Engineering

Ralph Selin Benno, St. Paul
B.E. '69, New York University. Field of
Concentration: Electrical Engineering. Major
Adviser: Prof. L. L. Kinney.

Douglas Edwin Doty, Minneapolis
B.E.E. '68, University of Minnesota. Field
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Major Adviser: Prof. J. H. Park.

Aron Rolnitzky, Burnsville
B.S.E.E. '69, University of Michigan. Field
of Concentration: Electrical Engineering.
Major Adviser: Prof. J. H. Park, Jr.

Master of Science in Mechanical Engineering

Ahmad Nashat Abuzzahab, Beirut,
Lebanon
B.A.E. '71, University of Minnesota. Field
of Concentration: Mechanical Engineering.
Major Adviser: Prof. T. E. Murphy.

Wah-Chun Dominic Chung,
Hong Kong
B.S. magna cum laude '72, Fresno State
University. Major: Mechanical Engineering.
Minor: Computer and Information Sci-
ences. Thesis: Modeling and Design Anal-
ysis of Incontinence Device. Major Ad-
viser: Prof. D. A. Frohrib.

Chung-Yuang Abe Liao, Yuan-Lin,
Taiwan
B.S. '70, Tatung Institute of Technology.
Field of Concentration: Mechanical En-
gineering. Major Adviser: Prof. Klaus Wil-
leke.

Mukteshwar Shripad Paranjpe,
Secunderabad, India
B.E. with distinction '70, Osmania Uni-
versity. Field of Concentration: Mechani-
cal Engineering. Major Adviser: Prof. D.
A. Frohrib.

Raghubir Kumar Kanoria, Calcutta,
India
B.S.M.E. '71, Birla Institute of Technol-
ogy. Field of Concentration: Mechanical
Engineering. Major Adviser: Prof. B. Y.
Liu.

Ram Shewaram Nagrani, Madras,
India
B.Tech. '71, Indian Institute of Technol-
ogy, Madras. Field of Concentration: Me-
chanical Engineering. Major Adviser: Prof.
J. L. Threlkeld.

Master of Science in Mineral Engineering

Dipak Kumar Sengupta, India
B.E. '61, Calcutta University. Field of
Concentration: Mineral Resources Engi-
neering. Major Adviser: Prof. E. P. Pfeid-
er.

Master of Science in Physical Therapy

Vincent Chukaka Nwuga, Nigeria
B.S. '71, University of Manitoba. Field of
Concentration: Physical Therapy. Major
Adviser: Prof. J. D. Allison.

Master of Science in Radiology

Richard Kenneth Lenhart,
Apple Valley
B.S. '66, Ohio State University; M.D. '70,
University of Cincinnati. Major: Radiology.
Minor: Pathology. Thesis: Double Contrast
Arthrography of the Knee Using Television
Fluoroscopic Control. Major Adviser: Prof.
S. A. Kieffer.

Master of Social Work

Vincent Hill, Minneapolis
B.S. with distinction '71, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. P. W. Chomnie.

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A.B. '70, Indiana University. Field of Concentration: Social Work. Major Adviser: Prof. G. S. Hoshino.

Dianne Elaine Lindberg

B.A. '69, Macalester College. Field of Concentration: Social Work. Major Adviser: Prof. B. E. Compton.

Sarah Lou Measel, St. Paul
B.A. '58, George Washington University. Field of Concentration: Social Work. Major Adviser: Prof. M. R. Cohn.

James Joseph Voytilla, Minneapolis
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Certificate of Specialist in Education

Louis Stephen Bartholme
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John Raymond Flynn, St. Paul
A.B. '53, Macalester College; M.A. '61, University of Minnesota. Field: Special Education. Major Adviser: Prof. R. F. Weatherman.

Michael Robert Hawkins,
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B.A. '66, M.Ed. '71, St. Mary's College. Field: General Educational Administration. Major Adviser: Prof. V. D. Mueller.

John Douglas O'Brien, Jr., Wayzata
B.A. '55, B.S. '62, M.A. '66, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. R. T. Lambert.

Barbara Lynne Parker, Bloomington
B.S. with distinction '64, M.A. '69, University of Minnesota. Field: Special Education. Major Adviser: Prof. D. G. Moores.

COLLEGE OF AGRICULTURE

Bachelor of Science

James E. Bakken, Walnut Grove
Jerry Allen Cegelske, Granada

Kevin Clark Larson, Brooklyn Park
Lowell W. Neudahl, St. Paul

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Martha Frances Moos, St. Cloud
Nancy Oi Yee Ng, Kowloon,
Hong Kong, *summa cum laude*,
Microbiology

Jeanne Marguerite Wellens, Excelsior

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

- Harley Allen Anderson,
St. Louis Park
- Steven John Anderson, B.A.,
West St. Paul
- Milton James Carr, B.A., St. Paul
- Michael Martin Esch, St. Paul
- Kenneth John Godbout,
North St. Paul
- Robert James Hart, Wells
- Stevan Frank Hoff, St. Paul
- Alan Phillip Howie, A.A.,
Forest Lake
- Louis Lowell Indihar, Gilbert,
with distinction*
- Steven Charles Johnson, Edina,
with distinction*
- Susan Louise Jordan, St. Paul
- Bruce Donald Kemper, Bloomington
- Gene Arthur Lhotka, Minneapolis
- Jeff S. Madsen, Minneapolis
- Raymond John Mardell, St. Paul
- Bonita Jean Maxwell, A.A., St. Paul
- Robert John Meath, Roseville,
with distinction*
- Larry Walden Melander, St. Paul
- Greg Mathew Minerich, Minneapolis
- Roger Donald Nelson, Minneapolis
- Vernon Oliver Nelson, Ulen
- Michael Edwin Nielsen, Wayzata
- Craig Allen Olson, Richfield,
with high distinction*
- Tania Ostapenko, Minneapolis
- Alvin Fredrick Priem, Minneapolis
- Paul Lawrence Reitzel, St. Paul
- Douglas J. Rickabaugh, Bloomington
- Joel Arthur Schleicher, Edina,
with distinction*
- Vincent David Schoon,
White Bear Lake
- Mark Steven Smith, B.A., Hibbing
- James Douglas Thomas, B.A.,
Richfield
- Richard Eugene Thomas, St. Paul
- Daryl Vernon Trefz, Bagley
- Douglas Paul Walburg, Minneapolis
- John David Webster, Mound
- James Schalker Westcott,
Minneapolis

SCHOOL OF DENTISTRY

Bachelor of Science

Richard Ernest Kraft, B.A., Austin

COLLEGE OF EDUCATION

Bachelor of Science

- Dorothy Ellen Aho, Golden Valley
- Kathy Ann Albers, Minneapolis
- Judith M. Arf, Minneapolis,
with distinction*
- Hebe Jane Arneman, St. Paul,
with high distinction*
- Roxanne Aronson, Burnsville
- James Earl Bailey, St. Paul
- Jane Elizabeth Bauman, Chanhassen
- Dulce Maria Caba de Berdie,
Mexico City, Mexico,
with high distinction*
- Pamela Elaine Brethorst, Lafayette,
with distinction*
- James George Bruggeman, B.A.,
M.A., International Falls
- William P. Bryant, Mora
- Sharon Lee Burrell, Barnum,
with distinction*
- Brian Arthur Casement, St. Paul,
with high distinction*
- Marzella Rae Chatham, Minneapolis
- Peggy Ann Cherry, Afton
- Gayle Marie Dalen, Long Lake
- Richard Chris DuBay, Roseville
- Rosanna Marie Ellison, Markham, Ill.
- Vicki Joanne Enger, Hopkins,
with distinction*

*Audrey Jo Erickson, Minneapolis,
with distinction*
*Barbara Jean-Klein Fair,
Minneapolis, with distinction*
*Cathy Rae Feinstein, Minneapolis,
with distinction*
*Ann Mary Fioretti, South St. Paul,
with distinction*
*Timothy Sullivan Forsythe, A.A.,
Minneapolis, with distinction*
*Brenda Gregory Gates, B.A., Gary,
Ind., with high distinction*
*Cynthia Mary Gentile, St. Paul,
with distinction*
Gerry Lee Goan, B.A., Wayzata
*Pamela Lee Guptil, Minneapolis,
with distinction*
*James Albert Gust, A.A., St. Louis
Park, with high distinction*
*Linda Verone Harris, B.A.,
Minneapolis*
*Mary Katherine Hegerle, St. Paul,
with distinction*
James Patrick Heidelberger, Mound
*Carlan David Helgeson, Baudette,
with high distinction*
Connie Eileen Hill, Minneapolis
Wen Ming Hsu, Manila, Philippines
*Kathleen Marie Hult, Forest Lake,
with distinction*
*Violet Elvina Hutchins, A.A.,
Minneapolis, with distinction*
Timothy Steven Irmen, Annandale
*Paula Beth Jacobson, Minneapolis,
with distinction*
Jeffrey Dean Janek, Oaklawn, Ill.
*Carolyn Mary Jensen, Hibbing,
with distinction*
*Pauline Doten Johnson,
Coon Rapids, with distinction*
*Stephen Charles Johnson, B.A.,
Wayzata*
*Cynthia Marshall Jones, A.A.,
Minneapolis*
*Sandra Lee Kokosh Kaslow,
Minneapolis, with distinction*
*Mary Audrey Koenig, St. Paul,
with distinction*
Mary Katherine Kulla, Robbinsdale
Claudia Ann Larsen, Minneapolis
*Mary Rogene Larson, Minneapolis,
with distinction*
*Mary Daniel Lawless, B.A.,
Minneapolis*
*Robert Eugene Lindgren,
Bloomington*
*Steven Philip Lund, St. Paul,
with high distinction*
Michael Phillip Mader, A.A., Mound
*Elizabeth Ann Marano, A.A.,
Minneapolis, with distinction*
*Kathy Kinnear Marvin, Brainerd,
with distinction*
*Susan Adele Lee Nelson,
Robbinsdale, with high distinction*
Barbara A. Nistico, B.A., St. Paul
*Katherine Nyman, North St. Paul,
with distinction*
Steven Michael Oberhelman, St. Paul
*Janet Louise Olson, Minneapolis,
with high distinction*
Stuart Palmer Opel, B.A., Stillwater
Margit Esther Pederson, St. Paul
Lee Charles Peterson, Waseca
*Helen Elizabeth Proechel, B.A.,
St. Paul, with distinction*
*Nancy Louise Remakel, A.A.,
Wilmont*
*Stanley Michael Rosen, St. Louis
Park, with distinction*
*Joanne Carlson Ryan, Harris,
with distinction*
David Paul Saar, B.A., St. Paul
Nancy Lee Sailer, Hopkins
*Eva F. Schnasse, St. Paul,
with distinction*
*Glen Laurence Seeley, Ham Lake,
with distinction*
Jean Marie E. Sokol, Minneapolis
Jeffrey Bruce Stanko, Minneapolis
Susan Irene Steller, B.A., Excelsior
James Francis Stenglein, Minneapolis
*Gloria Kay Stock, St. Charles,
with distinction*
*Gail Yelland Stratton, A.A.,
Minneapolis*
Sherrie Kaye Strauss, Minneapolis
*Wendy Marie Suppan, A.A.,
Minneapolis*
Gary Alvin Uecker, B.A., Richfield
Deborah Kay Willmsen, Arlington
*Marsha Ellen Zeesman, Minneapolis,
with distinction*

Master of Education

Kathleen Linnihan Cannon, B.A., Waseca	David Kylo Mattson, B.A., Hastings
Jean Edna Creighton, B.S., Minneapolis	Joan Maree Ondercin, B.S.B., New Brighton
Michael John Daly, B.A., Sioux Falls, S.D.	Philip D. Paulson, B.S., Monticello
Terry Lee Forss, B.S., Richfield	Joseph Howard Rosenfield, B.S., Richfield
Payton Alfred Hage, B.A., B.S., Rochester	John Ivory Whitman, B.S., St. Paul

GENERAL COLLEGE

Associate in Arts

Kay Beth Adams, Plymouth	Thomas Harrison Jesberg, Minneapolis
Jean Ellen Blum, Minneapolis	Thomas James Kulkay, Minneapolis
Sheila Marie Chovan, Minneapolis	Linda Marie Kurtzbein, Hopkins
William Eugene Dykema, Strasburg, N.D.	Ranger William Northrup, Excelsior
Virginia Mae Eisinger, Long Lake	Frederick Leon Price, Minneapolis
Paula Lorraine Erickson, Virginia	Kathleen Theresa Scott, St. Paul
Edward E. Fitzgerald, St. Paul	John Richard Senar, St. Paul
Marian Kaye Hampton, Minneapolis	Mary Elizabeth Stover, Minneapolis
	John Richard Wallace, Milton, Mass.

Bachelor of Applied Studies

Violet Paggett Arnold, Eagan	Gene Arnold Nurkka, Nashwauk
Mary L. Crabtree, Long Prairie	Kathleen Patricia Silk, A.A., Minneapolis
David Craig Martin, A.A., Minneapolis	Edward James Steenberg, A.A., St. Paul
Bonnie Jean McGowan, A.A., Robbinsdale	Russell Thomas Welander, A.A., Minneapolis

Bachelor of General Studies

Paul Richard Wilhelm Nelson-Junker,
A.A., Minneapolis

COLLEGE OF HOME ECONOMICS

Bachelor of Science

<i>Linda Jean Bowhall, West Fargo, N.D., with high distinction</i>	Ruth Ann Henderson, Brainerd
<i>Barbara Jill Catherwood, Austin, with distinction</i>	<i>Peggy Ann Hjermstad, Minneapolis, with distinction</i>
Sharon Gay Gatz, Bloomington	<i>Karol Marie Knutson, Minneapolis, with distinction</i>
Patricia Ann Gren, Richfield	Carol Ann Marek, A.A., Montgomery
Rebecca Jean Hample, Breckenridge	<i>Lynn Louise Muedeking, Minneapolis, with distinction</i>

*Debra Ruth Nikolaisen, Dawson,
with high distinction
Marlene Kay Rebeck, Forest Lake,
with distinction*

*Gail Maki Sarfehjo, Minneapolis,
with distinction
Denise Carol Ulrich, Callaway*

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Patricia Carol Bland, St. Paul

Bachelor of Arts

Mary Rebecca Adams, Minneapolis
Gail Catherine Adlin, Bloomington
Thomas George Altman, A.A.,
West St. Paul
*Cynthia Voight Anderson,
La Crosse, Wis., magna cum laude*
Donald Leo Anderson, Minneapolis
*Michael Luther Anderson, Spring
Valley, summa cum laude*
Paul Frederic Anderson, Minneapolis
Robin L. Anderson, Minneapolis
Steven Carl Anderson, Minneapolis
Susan Jane Anderson, Minneapolis
Susan Martha Armstrong,
Minneapolis
Helen Badower, Des Moines, Iowa
John Moran Banister, St. Louis, Mo.
Patricia Gertrude Bard, St. Paul
Kathleen Mary Magdalene Barrett,
Mounds View
Charles Alfred Bartl, South St. Paul
Michael Vincent Bastian, St. Paul
Anthony Ross Battles,
Riverside, Conn.
Candace Marie Berg, St. Louis Park
James Alan Berglund, Minneapolis
William Alexander Bierman, Jr.,
St. Paul
Kenneth Charles Bodin, St. Paul
Michael Rex Bolles, St. Louis Park
Ronald C. Brand, Minneapolis
Kari Breen, Benson
Robert Joseph Brenner, Bloomington
Linda Catherine Meyer Brown,
London, England
Robert Lawrence Brown, Big Lake
Cynthia Rac Browne, St. Paul
Steven Jay Bruzonsky, Duluth
Larry L. Bye, Minneapolis

*Virginia Sue Cain, Edina,
summa cum laude*
Mildred Elizabeth Cairns,
Minneapolis
Christopher Hugh Canney, Rochester
Dennis James Cannon, St. Louis Park
Mario G. Casa De Calvo, St. Paul
Edward Quinn Cassidy, Red Wing
Malcolm John Chesnutt III,
Minneapolis
On-Kei Angela Cheung, Hong Kong
Ronald Christensen, Bloomington
Patricia Duffy Christenson,
Hudson, Wis.
Mykelene Rose Cook, St. Paul
Steven Manford Corson, Preston
Lowell Douglas Cravens, Minnetonka
Gary Lee Dagen, St. Paul
James Patrick Daniels, St. Paul
Kenneth Demorest, Minneapolis
Christine Johanna Dinger,
Zeeland, Mich.
Eileen Marie Donnelly, New Ulm
Patrick Burnap Donoho, Fergus Falls
Brenda Lynn Doring, Rochester
Daniel Peter Engel, Minnetonka
Dale Rollin Erickson, Minneapolis
David Allan Esse, Austin
Richard Taylor Farmer, St. Paul
Debra Gail Fine, Madison, Wis.
Sydney Laurel Fonaroff, Minneapolis
Harold Wilfred Fournier, Duluth
Carol Jean Frost, Wayzata
Allan Gale, St. Louis Park
Ricki Hope Gale, Minneapolis
Macrina Marlene Galuski,
Minneapolis
*Judith Ann Gartland, Richfield,
magna cum laude*
Robert Allan Girtz, Little Falls

Ann Driscoll Gmeiner, Appleton,
 Wis.
*Howard Jay Graham, Minneapolis,
 cum laude*
 Rodrick Vaughn Grams, B.A.,
 Richfield
 Kim William Graw, Chanhassen
 Deborah Ann Grebner, Bloomington
 Karen Elizabeth Grunke,
 Hudson, Wis.
 Mable Orr Gullickson, Langford, S.D.
 Barbara Dawn Halvorson, Richfield
 Mary Hale Haniff, A.L.A.,
 Minneapolis
 Colleen Rose Harrigan, Minneapolis
 Alan Haug, Minneapolis
 Gail Susan Haugen, Minneapolis
 Christine Ann Hauser, Sevenoaks,
 England
 Marjorie Ann Heinz, B.S.N.,
 Bloomington
 Dennis A. Herzig, Paynesville
 Michael G. Higgins, Minneapolis
 Thomas Andrew Hollihan, Hugo
 Kevin Arthur Horrocks, Hutchinson
 Russell Charles Horsch, A.A.,
 Minneapolis
 Daniel O. Horwath, St. Paul
 Katherine Thayer Hoskinson, St. Paul
 Lynn Ann Hunstiger, St. Cloud
 William Jeremiah Hurley,
 Minneapolis
 Julie Paulsen Hynes, Rochester
 Gerald Henry Igelsrud, Minneapolis
 Brian David Jackley, Minneapolis
 Joyce McDowell Janssen, Mound
 Stephen James Jarvis, Minneapolis
 Deborah Lynn Jindra,
 Columbia Heights
 Carol Louise Tatro Johnson, Newport
 Susan Egerman Johnson,
 Medicine Lake
 James Granville Judkins,
 South St. Paul
 Paulette Ann Kadulski, Minneapolis
 Karen Ruth Kargel, Minneapolis
 Eileen Mary Kam, Minneapolis
 Keri Lucille Kasakoff, A.A.,
 St. Joseph, Mo.
 Ronald David Katz, St. Paul
 Jacqueline Ann Keough, A.A.,
 Minneapolis
 Patricia Mary Kerber, Excelsior
 Janice Kerns, St. Paul
 Bradley Lee Kinder, Waseca
 Susan Diane Kirchoff, St. Paul
 Sandra Lee Kiser, Edina
 Karol Marie Knutson, Minneapolis
 Terrence Thomas Kroeten,
 Minneapolis
 Hay-Guen Kuan, Kowloon,
 Hong Kong
 Janice Ann Kulstad, Dodge Center
*David Mark Kviat, Minneapolis,
 summa cum laude*
 Gretchen Glad Larson, Minneapolis
 Vicki Lynn Larson, Jackson
 Nancy Lee Lawson, Albert Lea
*John Michael Lawton, St. Paul,
 magna cum laude*
*Annette Maura LeClair, St. Paul,
 summa cum laude*
 Gary Richard Lee, Cottonwood
 John Maurice Lee, Balaton
 Jonathan Daryl Leininger,
 Minneapolis
 Elaine Marie Leverone, Minneapolis
 Steven Howard Lindstrom, Richfield
 Robert S. Litwack, East Setauket,
 N.Y.
 Stuart David Lorberbaum,
 Minneapolis
 Patricia Ann Luckenbill,
 Superior, Wis.
 Steven John Mackenthun,
 St. Bonifacius
 David John Malban, Hastings
 Aron J. Mandel, Miami Beach, Fla.
 Mary Erin Martin, Minneapolis
 Thomas Stephen Martin, Anoka
 Patrice Marie McCarthy,
 West St. Paul
 Nancy Lucille McCormack,
 Stillwater
 Kerry Bruce McIndoo, A.A., Babbitt
 Terri Lynn McNeil, Edina
 David Gregg Mellen, Wayzata
 William Lee Mershon, Minneapolis
 Thomas Bradley Miller, St. Paul
 Sharon Elizabeth Millin, St. Paul
 Diane Lee Moe, New Brighton
 Janice Marie Mosberger, St. Paul
 Deborah Ann Murphy, St. Paul
 Katherine Murray, Minneapolis

Ronald Kane Nagurski,
 International Falls
 Philip Lowell Neese, Minneapolis
 Marianna Jacobson Nelson, Duluth
 Thomas Conrad Nelson, A.A., Edina
 Thomas Walter Nelson, Minneapolis
 Mary Ann Ness, Hector
 Gretchen Elizabeth New, Floodwood
 Albert Theodore Newmann,
 Minneapolis
 Jerilee Ann Niedenfuer, Minneapolis
 Elena Nikischin, Minneapolis
 Tom Albert Norvoll, Minneapolis
 Roger Allen Nubbe, Minneapolis
 George Brian Nudell, Minneapolis
 Jack Stanley Oakes, Jr., Prior Lake
 Timothy Joseph Ogren, A.A.,
 Rochester
 Jeffrey Alan Olsen, Minneapolis
 Patricia Joan Owens, St. Louis Park
 Kenneth Fay Peterson, St. Paul
 Sheila Lorraine Pike, A.A., Newport
 Ann Marie Pineault, Fridley
 Virginia June Presley, A.A., St. Paul
 Virginia Eunice Prestin, A.A.,
 Colby, Wis.
 Craig Sherman Prose, Minneapolis
 Charles Allen Robinson, West
 St. Paul
 Catherine Elizabeth Rogers, St. Paul
 Mary Beth Sallstrom, Winthrop
 Rita Rae Sandstrom, Minneapolis
 Jeffrey Alexandre Schackor,
 Brooklyn Center
 Michael David Schlener, A.A.,
 Richfield
 Edward W. Schulze, Minneapolis
 Dale Patrick Shaltz, St. Cloud
 Amy Jo Silvermann, Minneapolis
 Larry John Skeie, Minneapolis
Joanne Skulzacek Smallen,
Minneapolis, summa cum laude
 Darrell Francis Smith, A.A., St. Paul
 Gregory Blake Smith, Minneapolis
 Haralambos D. Sourbis, Zante,
 Greece
 Shelley Elise Sparrow, Ortonville
 William Evan Stesin, St. Louis Park
 Joel Stoick Stoeckeler, St. Paul
 Constance Marie Stumpf, Buffalo
 Marlene Ann Stumpf, Buffalo
 Daniel Keith Sturm, St. Paul
 Chitra Subramanian, B.S.,
 New Delhi, India
 Evelyn Marie Nordquist Sutton,
 Minneapolis
 Del Wayne Swanson, Pine City
 Hilary Jeanne Sylvestre, Minnetonka
 Kevin Talbert, Milaca
 Richard Edward Tollefson,
 Owatonna
 Carroll Eugene Tomar, Minneapolis
 Cynthia Joan Trojanowski, St. Paul
 Richard Lowery Tyree, A.A.,
 McKeesport, Pa.
 Michelle Jeanette Ulrich, Bemidji
 Roy Richard Ulrich, A.A.,
 Apple Valley
 Laura Linnea Vanstrom, Minneapolis
 Randall Scott Voeks, St. Paul
 Monika Irene Volmar,
 Greenville, N.Y.
 Peter O. Vujovich, South St. Paul
Mary Jeanne Waldoch, Minneapolis,
magna cum laude
 Jeffrey Paul Wallace, Minneapolis
 Frances Jean Wallak, Minneapolis
 Deborah Jo Wangaard, Bloomington
 Gail M. Ward, Buffalo
 Robert John Watson, Excelsior
 Cheryl Lynn Weber, A.A., Savage
 Karen Joy Weitz, Golden Valley
 Elizabeth Jean Wennes, Minneapolis
Mary Ellen Whalen, Stillwater,
cum laude
 Joyce Caroline Wills, Minneapolis
Stanley Paul Wolf, New Ulm,
cum laude
 Kim Wolfson, Minneapolis
 Simon Kawo Wong, Hong Kong
 Dena Elizabeth Workman, Excelsior
 Barbara Jean Younk, Minneapolis
 Wai-Hung Raymond Yung,
 Hong Kong
 Ronald Raymond Zellar, Lakefield

Bachelor of Elected Studies

Steven Harold Alpert, St. Louis Park
David Bruce Arcand, Hastings
Kathleen L. Borresen, Minneota
Cathy Jane Bratter, St. Paul
Joseph Henry Budnick, Minneapolis
Timothy Joel Clancy, Minneapolis

Jeffrey Arthur Johnson, Minneapolis
Robert Maurice Knox III, St. Paul
Jay E. J. Olsen, Paynesville
Kathryn Dolores Stahlmann, St. Paul
Lelia Ann White, Minneapolis

Bachelor of Fine Arts

Albrecht Tasso Dumke, B.A., St. Paul
Steffanie Lynn Foster, Minneapolis,
summa cum laude
Anthony Vulney Hall, Springfield,
Ohio

Gordon Dennis Lee, Staples
Susan Helen Bendickson Sharpe,
Lonsdale

Bachelor of Science

Laurel Elizabeth Nelson,
Bloomington

Haralambos D. Sourbis, Zante,
Greece

MEDICAL SCHOOL

MEDICAL TECHNOLOGY

Bachelor of Science

*These degrees are conferred subject to the completion of
practical work prior to December 12, 1974*

Karen Eileen Gunnerson,
Golden Valley

Elizabeth A. van der Hagen,
Bird Island

MEDICINE

Bachelor of Science

Jose Pablo Bruno Armijo,
Albuquerque, N.M.

MORTUARY SCIENCE

Bachelor of Science

Mark Randall Stohlberg,
Minneapolis

SCHOOL OF PUBLIC HEALTH

Master of Hospital Administration

Joel Howard Ettinger, B.A.,
New York, N.Y.

Master of Public Health

Natalie Jayne Larsen, B.A.,
Minneapolis

Brenda Kaye Mackey, B.S.,
Dallas, Tex.

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

Donavon Delroy Kotula, Minneapolis
*Steven LaBelle Strong, Excelsior,
with high distinction*

Lucius Orville Taylor, Jr.,
Minnetonka

Bachelor of Agricultural Engineering

David John Kodada, Roseville

Bachelor of Architecture

Steven Clarke DeLapp, B.A.,
New Canaan, Conn.
*Richard James McGeary, Danvers,
with distinction*

Bruce Norman Wright, Detroit,
Mich.

*Ray Errol Whitlow, Sr., Houston,
Tex.*

Paul Robert Youngquist,
Minneapolis

Bachelor of Chemical Engineering

*John Michael Moss, Minneapolis,
with distinction*

Michael Allen Zachar, Cottage Grove

Bachelor of Chemistry

*David Richard Anderson, St. Paul,
with high distinction*
*Jeanne Louise Fahey Blake, Fergus
Falls, with high distinction*

Charles Warren Opp, B.S.,
Minneapolis

*Hing Leung Sham, Hong Kong,
with distinction*

Bachelor of Civil Engineering

Abdulrazzak Mohammad Albinali,
Dammam, Saudi Arabia
*Roger Allen Anderson, Lake Elmo,
with distinction*
*Gerald Clair Clemens, Rochester,
with distinction*
*Moon-Yong Han, Seoul, Korea,
with high distinction*

*Gregory David Loberg, St. Paul,
with distinction*

*Samuel Wai-Kwan Lui, Hong Kong,
with high distinction*

Michael Owen Moeller, St. Paul

Bachelor of Computer Science

Warren Dexter Anderson, Brainerd

Bachelor of Electrical Engineering

Richard Wayne Allen, St. Paul
Michael Douglas Anderson,
Mahtomedi

Joe Hong Chow, Hong Kong
*Robert Kevin Eddy, Big Lake,
with distinction*

Robert Andrew Haug, Minneapolis
*Karl William Hodil, Virginia,
with distinction*
Kenneth Charles Kline, A.A.,
New Hope
Warner William Myntti, A.A.,
Virginia

Hamid Reza Nabavizadeh,
Rafsanjan, Iran
*Richard A. Stone, A.A., Richfield,
with distinction*
Russell Allen Teske, St. Paul Park
Glenn Ambrose Wondra,
Montgomery

Bachelor of Environmental Design

Thomas Anthony Boche, St. Paul
Anthony James Jervis, Nassau,
Bahamas

Thomas Paul Murray, Fridley

Bachelor of Geo-Engineering

Bradley Paul Bundy, Minneapolis
Robert John Havrilak, Jr.,
Minneapolis

David Donald Novak, Jr.,
Minneapolis
James E. Reier, Brainerd

Bachelor of Mathematics

Joe Hong Chow, Hong Kong
David Allen Easthouse, Coon Rapids
Kim William Schroeder, Clara City

*Steven LaBelle Strong, Excelsior,
with high distinction*

Bachelor of Mechanical Engineering

James Joseph Dyson, Arlington, Va.
Edward Harold Egan, Burnsville
Woodrow John Frost, Hibbing
William Bruce Garrett, Minneapolis
Robert Mathews Gold, Jr.,
St. Louis Park
Michael Paul Groven, Minneapolis

Caryl William Hayward, Pine Island
Michael John Julik, Coon Rapids
James Arthur Kimmel, Edina
John Chester Luczak, Duluth
*Stephen Dale Royle, Bloomington,
with distinction*
Peter Arnold Wolf, Minneapolis

Bachelor of Physics

Stephen Lee Mischke, Springfield,
Va.
Gordon Michael Reher,
North St. Paul

Paul Robert Senness, Monticello

Certificate in Science

John Charles Hansen, North St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Camille Calderaro, San Mateo, Calif.
Ann Fridland Hill, G.D.H.,
Burnsville
John A. Humphrey, Brainerd
Marc Allan Schlismann, A.A.,
Minneapolis

Wendell Carl Shiell, Jr., Minneapolis
Eileen Mary Wheeler, G.D.H.,
Richfield
Mary Michele White, G.D.H.,
Minneapolis

Bachelor of Science

Betty Muriel Campbell, A.A.,
Minneapolis

*David Charles Fraatz, Edina,
with distinction*

Ronald Brian Harris, Minneapolis

Douglas Gary Hedman, Minneapolis

Lamont Charles Hempel, Edina

Laurie Hutzler, Madison, Wis.

Jacqueline DeJarlais Kes, Jordan

Thomas Oliver Klefsas, Minneapolis

Jack Allen Kochie, Wheaton
Elizabeth Anne Michelich, G.D.H.,
Keewatin

Marilyn Merritt Nickisch, Brainerd

Judy Lynn Ogren, St. Paul

Ronald Lee Pentz, Burnsville

Howard John Peterson, Owatonna

Raymond Boyd Pinson, Pompano
Beach, Fla.

Victoria Dawn Wahlberg,
Minneapolis

July Candidates for Commissions

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

Douglas A. Wickstrom, Crystal

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, USAR, Armor

Robert L. Brown, Minneapolis

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

James J. Dyson, Arlington, Va.

August Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

Donn Lee Hoffman, Moorhead
B.S. '66, Moorhead State College; M.S. '72, North Dakota State University. Major: Educational Administration. Minor: Supporting Program. Project: A Comparative Study of Institutionalized and Non-institutionalized Trainable Mentally Retarded Children and Implications for Educational Planning in the Public Schools of Minnesota. Major Adviser: Prof. R. F. Weatherman.

Merton Harold Johnson, Milroy
B.A. '59, Augsburg College; M.S. '62, North Dakota State University. Major: Educational Administration. Minor: Supporting Program. Project: The Development of a Model for Systematic Educational Management. Major Adviser: Prof. N. C. Nickerson.

Floyd Everal Keller, Jr., Bayport
B.A. '59, Gustavus Adolphus College; M.A. '56, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: The Development of a Prototypical Goal-Referenced Administrative Manual for Planning, Implementing, and Evaluating in Education. Major Adviser: Prof. S. H. Popper.

Roger Melvin Norsted, Elgin
B.A. '61, Hamline University; M.A. '70, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: An Analysis of the University of Minnesota Internship Program in Educational Administration. Major Adviser: Prof. N. C. Nickerson.

Charles Arthur Speiker, St. Paul
B.A. '65, St. Thomas College; M.A. '70, Michigan State University. Major: Educational Administration. Minor: Supporting Program. Project: A Study to Determine the Reliability of Community Participation in a Process of Curriculum Planning. Major Adviser: Prof. V. D. Mueller.

George Neil Theis, Rice Lake, Wis.
B.S. '57, M.S. '71, University of Wisconsin. Major: Vocational Education. Minor: Supporting Program. Project: Simulation Analysis of Policy Making Decisions in Education. Major Adviser: Prof. W. M. Ammentorp.

Joseph Henry Williams,
Levittown, Pa.
B.A. with distinction '50, Tennessee A. & I. State University; B.D. '54, Central Baptist Theological Seminary. Major: Educational Administration. Minor: Supporting Program. Project: The Development and Evaluation of an Adoption-Diffusion Model for Effective Home-School Interaction in Inner City Schools. Major Adviser: Prof. S. H. Popper.

Doctor of Philosophy

Joseph Paul Alaimo, Ossining, N.Y.
B.A. '59, Harpur College; M.A. '61, University of Iowa. Major: American Studies. Thesis: A Natural History of American Virtue: Melville's Critique of the Transcendental Hero. Major Adviser: Prof. B. R. Bowron, Jr.

Michael Avrom Appleman
B.A. '68, M.A. '72, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: The Legal Issue of Using Amphetamines on Hyperactive School Children. Major Adviser: Prof. C. P. Hooker.

Roberta Antoinette Armstrong,
St. Paul

B.A. magna cum laude '66, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: Interest Patterns of the Strong Vocational Interest Blank Characteristic of University of Minnesota Male Freshmen and Their Relationship to Persistence in the University Curriculum. Major Adviser: Prof. J. G. Darley.

Fredric George Bader,
Petoskey, Mich.

B.S.E. '69, University of Michigan. Major: Chemical Engineering. Minor: Microbiology. Thesis: The Predator-Prey Interactions Between a Protozoan and a Blue-Green Alga. Major Advisers: Profs. H. M. Tsuchiya and A. G. Fredrickson.

Ivar Bakken, Oslo, Norway

Dip. '68, Norwegian Institute of Technology. Major: Mathematics. Minor: Internal. Thesis: A Multiparameter Eigenvalue Problem in the Complex Plane. Major Adviser: Prof. Yasutaka Sibuya.

Jeffrey Rogers Basford, Minneapolis
B.Phys. with distinction '65, M.S. '69, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Rare Gases in Apollo II Fines. Major Adviser: Prof. R. O. Pepin.

Robert Allen Bendiksen

B.A. '67, Concordia College; M.A. '69, University of Maine. Major: Sociology. Minor: Supporting Program. Thesis: Death and the Child: An Anterospective Test of the Childhood Bereavement and Later Behavior Disorder Hypothesis. Major Adviser: Prof. A. L. Johnson.

Carole Jeanne Martin Bland

B.A. '68, Augustana College; M.A. '70, Drake University. Major: Educational Psychology. Minor: Psychology. Thesis: An Investigation of Two Marriage Happiness Scales and Their Relationship to Marriage Behaviors. Major Adviser: Prof. Wells Hively, II.

Milo Leland Brekke, Minneapolis

B.A. magna cum laude '51, Augustana College; B.Th. '55, Luther Theological Seminary. Major: Educational Psychology. Minor: Philosophy. Thesis: Antecedent and Subsequent Correlates of Attendance in Elementary and Secondary Schools of the Lutheran Church—Missouri Synod. Major Adviser: Prof. C. J. Hoyt.

Susan Ann Brock, Bellevue, Wash.
B.A. '70, Pitzer College. Major: Educational Psychology. Minor: Supporting Program. Thesis: Facilitating Psychological Growth in Post-Adolescents: A Cognitive Developmental Curriculum Intervention and Analysis. Major Adviser: Prof. D. H. Blocher.

Dragomir Branislav Bukur,
Panchevo, Yugoslavia

Dip. '70, University of Belgrade; M.S. '71, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: Analysis of Some Models for Nonisothermal Continuous Fluidized Bed Catalytic Reactors. Major Adviser: Prof. N. R. Amundson.

George Frederic Canney, St. Paul
B.A. '65, University of California, Berkeley; M.A. '68, San Jose State College. Major: Education. Minor: Supporting Program. Thesis: A Study of the Effectiveness of Selected Syllabication Rules and Graphoneme Patterns for Word Attack. Major Adviser: Prof. R. L. Schreiner.

Robert Wen-Shaing Chen,
Taipei, Taiwan

B.Com. '66, National Cheng-Chi University. Major: Statistics. Minor: Mathematics. Thesis: On Finitely Additive Almost Sure Convergence. Major Adviser: Prof. W. D. Sudderth.

Suradej Chuntranuluck,
Bangkok, Thailand

B.E. '69, Chulalongkorn University; M.S.C.E. '71, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Incremental Analysis of Residual Stresses in a Solidified Sphere. Major Adviser: Prof. Paul Christiano.

Winfrey Steverson Clarke,
Hanover, Va.

B.S. '68, Virginia State College; M.A. '72, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Analysis and Control of Noise Generated by the Radial Arm Saw and Its Relationships to Teacher-Student Communication. Major Adviser: Prof. W. F. Bear.

Patrick Herbert Cleveland,
Shelby, Mont.

B.S. '66, M.S. '67, Montana State University. Major: Microbiology. Minor: Supporting Program. Thesis: Characterization of Humoral Cytotoxicity to Mouse Methylcholanthrene Induced Tumors. Major Adviser: Prof. C. F. McKhann.

Lloyd Irven Cripe

B.S. summa cum laude '70, M.S. '71, Troy State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: MMPI Differences of Male Alcoholic Treatment Successes and Failures. Major Adviser: Prof. Theda Hagenah.

Michael Robert Crowe,
Columbus, Ohio

A.B. '64, M.S. '67, Purdue University. Major: Educational Administration. Minor: Supporting Program. Thesis: Comparison of Student Perceptions and Teacher Perceptions of the Structure in a Unit of American History. Major Advisers: Profs. W. M. Ammentorp, J. R. Morris, and P. E. Johnson.

Meral Ulker Culha,
Ankara, Turkey

B.S. '64, Middle East Technical University, Ankara; M.S. '67, Hacettepe University. Major: Psychology. Minor: Educational Psychology. Thesis: Needs and Satisfaction of Foreign Students at the University of Minnesota. Major Adviser: Prof. R. V. Dawis.

Frederick William Danner,
Marinette, Wis.

B.A. with honors '70, University of Wisconsin. Major: Child Psychology. Minor: Supporting Program. Thesis: Children's Understanding of Intersentence Organization in the Recall of Short Descriptive Passages. Major Adviser: Prof. J. H. Flavell.

Brian Greenwood Donovan,
Webster, N.Y.

A.B. '61, Hamilton College; A.M. '63, University of California, Berkeley. Major: English. Minor: Art History. Thesis: George Moore's Fictive Autobiography. Major Adviser: Prof. C. G. Anderson.

Robert Philip Elde,
Mount Vernon, Wash.

B.A. cum laude '69, North Park College. Major: Anatomy. Minor: Supporting Program. Thesis: The Production and Characterization of Anti Vasopressin Antibodies and Their Use in the Immuno Enzyme Histochemical Localization of Vasopressins in the Hypothalamo-Neurohypophysial Neurosecretory System of Several Mammals. Major Adviser: Prof. Morris Smithberg.

Robert Kennedy Gilbert

B.S. '62, Millersville State College; M.A. '72, Boston College. Major: Education. Minor: Educational Psychology. Thesis: A Comparison of Three Instructional Approaches to Using Manipulative Devices in Third Grade Mathematics. Major Adviser: Prof. J. E. Stochl.

Gertrude Vanderwal Glaman,
Minneapolis

B.A. '47, Central College; M.S. '53, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Use of Ability Measures to Predict the Most Appropriate Method or Sequence of Mathematics Instruction for Learning Disabled Junior High Students. Major Adviser: Prof. R. H. Bruininks.

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B.S. '65, Morgan State College; M.A. '71, Newark State College. Major: Educational Administration. Minor: Supporting Program. Thesis: A Comparative Analysis of Student Attitude Toward the Climate of Minneapolis Secondary Schools Based on Differences in Grade, Race, and Sex. Major Adviser: Prof. V. D. Mueller.

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B.A. magna cum laude '69, Hope College. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Models of a Memory Management Algorithm. Major Adviser: Prof. R. Y. Kahn.

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B.A. '64, Drake University; M.A. '70, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: An Empirical Study of the Relationship Between Power, Conflict and Cooperation on the Interorganizational Level. Major Adviser: Prof. R. H. Hall.

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B.Ed. '65, University of Saskatchewan; M.A. '69, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Young Children's Responses to Literature. Major Adviser: Prof. R. N. Odland.

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B.S. '66, M.A. '68, University of Hawaii. Major: Economics. Minor: Supporting Program. Thesis: Job Search, the Work-Leisure Tradeoff, and Secondary Labor Force Behavior. Major Adviser: Prof. J. M. Henderson.

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B.A. '62, North Dakota State University; M.S. '64, Virginia Polytechnic Institute; M.S. '71, Iowa State University. Major: Biometry. Minor: Statistics. Thesis: The Application of Biometric Principles in the Study of Dry Heat Destruction of Bacterial Spores. Major Adviser: Prof. E. A. Johnson.

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B.S. '66, Dankook University. Major: Biophysics. Minor: Supporting Program. Thesis: The Effect of Anemia on the Osmotic Permeability Coefficient of Human Erythrocytes. Major Advisers: Profs. Eugene Ackerman and R. D. Brunning.

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B.A. '51, Iowa State College; M.S. '64, Iowa State University. Major: Education. Minor: Home Economics. Thesis: The Abstraction Process in Visual Art. Major Adviser: Prof. T. C. Slettebaugh.

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B.A. '60, Wisconsin State College; M.A. '63, Drake University; M.S. '67, University of Minnesota. Major: Soil Science. Minor: Supporting Program. Thesis: A Climatological Study of Atmospheric Ventilation at Minneapolis-St. Paul. Major Adviser: Prof. D. G. Baker.

Fern Lois Johnson, Minneapolis

B.A. summa cum laude '68, University of Minnesota; M.A. '69, Northwestern University. Major: Speech-Communication. Minor: Supporting Program. Thesis: Role-Taking Complexity, Referential Accuracy, and Selected Language Features in the Communication of First and Third-Grade Children Contrasted on Birth Order Positions in the Family. Major Adviser: Prof. R. L. Scott.

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B.A. '61, Augsburg College; M.H.A. '63, University of Minnesota. Major: Hospital and Health Care Administration. Minor: Supporting Program. Thesis: Career Decision of Medical Students and Attitudes and Values Toward Medical Practice: A Sociological Analysis. Major Adviser: Prof. T. J. Litman.

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B.S.E.E. '57, University of Michigan; M.S.E.E. '66, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Multi-Channel Binary Modulation Utilizing a Composite Error Criterion. Major Adviser: Prof. B. A. Shenoi.

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B.A. '64, University of Minnesota. Major: Mathematics. Minor: Supporting Program. Thesis: Naimark Transcendental Extensions of Symmetric Operators and the Livsic Moments Problem. Major Adviser: Prof. Jesus Gil de Lamadrid.

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B.S. '57, Wheaton College; M.A. '64, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Hypothetical Moral Obligation to Define Clearly the General Goal of Home Economics: A Philosophical Analysis. Major Adviser: Prof. M. M. Brown.

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B.S. '69, University of British Columbia; M.S. '72, University of Minnesota. Major: Control Sciences. Thesis: Decentralization of Optimization Problems by Iterative Coordination. Major Adviser: Prof. F. N. Bailey.

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B.S. cum laude '68, Boston College; M.A. '71, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Two Approaches in Teaching Conflict Resolution Skills to Teacher Trainees in a Short Term Program. Major Adviser: Prof. D. H. Blocher.

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B.S. '69, University of Washington. Major: Child Psychology. Minor: Psychology. Thesis: The Relationship Between Contour Deformation and Perceived Separation of Forms in Depth. Major Adviser: Prof. P. H. Salapatek.

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B.S. '67, University of Wisconsin; M.S. '69, University of Minnesota. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Catalytic Oxidation of Ammonia. Major Adviser: Prof. L. D. Schmidt.

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B.S. '69, Seoul National University; M.S. '71, University of Minnesota. Major: Plant Physiology. Minor: Horticulture. Thesis: Growth and Flowering Responses of *Lilium longiflorum* Thunb to Photo- and Thermo-Treatments. Major Adviser: Prof. H. F. Wilkins.

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B.S. '48, M.A. '53, University of Minnesota. Major: Education. Minor: Linguistics. Thesis: A Comparative Study of Small Group Discussions in Native and Target Language. Major Adviser: Prof. Emma Birkmaier.

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B.S. '69, University of Maryland. Major: Microbiology. Minor: Biochemistry. Thesis: Studies on Gluconeogenesis on Novikoff Rat Hepatoma Cells. Major Adviser: Prof. R. W. Bernlohr.

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B.S. '59, Mankato State College; M.A. '67, St. Cloud State College. Major: Theatre Arts. Minor: Supporting Program. Thesis: Elia Kazan. Major Adviser: Prof. C. M. Nolte.

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B.S. '67, M.S. '72, University of Minnesota. Major: Soil Science. Minor: Supporting Program. Thesis: Solution Transport of Major Ions in Forest Soils: A Column Lysimeter Study. Major Adviser: Prof. H. F. Arneman.

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B.Tech. '68, Indian Institute of Technology, Bombay; M.S.I.E. '70, University of Minnesota. Major: Operations Research. Minor: Mathematics. Thesis: Optimization of the Classroom Scheduling Problem. Major Adviser: Prof. S. R. Arora.

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B.A. '66, M.B.A. '73, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Selection of Deductibles in Property and Liability Insurance. Major Adviser: Prof. C. A. Williams, Jr.

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B.A. '62, M.B.A. '63, University of Michigan. Major: Business Administration. Minor: Supporting Program. Thesis: An Evaluation of the Ability of the United States Railroads to Respond to the Logistics Needs of the Shippers. Major Adviser: Prof. D. V. Harper.

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B.A. '57, M.A. '61, University of Northern Iowa. Major: Education. Minor: Supporting Program. Thesis: Industrial Arts Experience: Its Relevance to Post High School Vocational Student Performance. Major Adviser: Prof. D. J. Pucel.

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B.A. '51, University of Chicago. Major: Psychology. Minor: Supporting Program. Thesis: Imagery in Paired Associate Learning and Recall: Its Locus and Nature. Major Adviser: Prof. M. J. Meier.

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Doctor of Philosophy in Neurosurgery

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Metropolitan Newspapers, 1951, 1961,
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Master of Industrial Engineering

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- David Brian Kreitlow,
Howard Lake
B.A. '73, University of Minnesota. Field
of Concentration: Operations Research.
Major Adviser: Prof. P. J. Starr.
- Mark Lynn Laboda,
East Detroit, Mich.
B.S. '70, Wayne State University. Major:
Chemistry. Minor: Related Fields. Thesis:
The Average Dipole Moment in Excited
Vibrational States. Major Adviser: Prof.
John Overend.
- Ronald Edwin Larson, St. Paul
M.P.H. '72, University of Minnesota. Field
of Concentration: Hospital Pharmacy.
Major Adviser: Prof. H. F. Kabat.
- Robert Bruner Lemmon,
Petersburg, Ind.
B.S.Pharm. '71, Purdue University. Field
of Concentration: Hospital Pharmacy.
Major Adviser: Prof. H. F. Kabat.
- William Conrad Lindemann,
East Carondelet, Ill.
B.S. '70, Southern Illinois University.
Major: Soil Science. Minor: Biochemistry.
Thesis: Competition and Multiple In-
fection Studies Between Two Strains of
Rhizobium japonicum in the Nodulation
of Soybeans. Major Adviser: Prof. E. L.
Schmidt.
- Charles Steven Lippi, Luverne
B.S. '72, University of Minnesota. Field
of Concentration: Horticulture. Major Ad-
viser: Prof. P. E. Read.
- James Anthony Majka, St. Paul
B.S. '67, D.V.M. '69, University of Min-
nesota. Field of Concentration: Veterinary
Pathology. Major Adviser: Prof. K. H.
Johnson.

James Michael Mirocha, Minneapolis
B.A. cum laude '68, University of Minnesota. Field of Concentration: Mathematics. Major Adviser: Prof. R. H. Cameron.

Richard Kent Nordin, St. Louis Park
B.C.S. with high distinction '72, University of Minnesota. Major: Computer and Information Sciences. Minor: Mathematics. Thesis: An Instrumented Study of APL. Major Adviser: Prof. W. R. Franta.

Carol Anne Reese, Minneapolis
B.S.N. with distinction '65, University of Minnesota. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. M. I. Harris.

Eugene Lee Ruenger,
Whitewater, Wis.
B.A. '72, Macalester College. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Reheated Flavor in Further Processed Turkey Products. Major Adviser: Prof. G. A. Reineccius.

Kuldip Singh Sadhal
B.S. '72, University of Manchester. Major: Mechanics. Minor: Civil Engineering. Thesis: A New Model for Elastic-Plastic Trusses. Major Adviser: Prof. P. G. Hodge, Jr.

Jan Louise Scharlau,
Fort Myers, Fla.
B.S. '68, University of Illinois. Field of Concentration: Nursing. Major Adviser: Prof. Barbara Redman.

Judith Lynn Sims,
Smith Center, Kan.
B.S. '65, Fort Hays Kansas State College. Field of Concentration: Nursing. Major Adviser: Prof. M. I. Harris.

Loren Chester Stephens,
Ayrshire, Iowa
B.A. '71, University of Iowa. Major: Horticulture. Minor: Plant Physiology. Thesis: The Influence of Soil Temperature on the Flowering of *Cyclamen*. Major Adviser: Prof. W. E. Widmer.

Paul Dean Stolen
B.S. '66, University of Minnesota. Major: Wildlife. Minor: Ecology. Thesis: Fall and Winter Movements and Activities of Muskrats on Cedar Creek Natural History Area. Major Adviser: Prof. J. R. Tester.

Kathleen Margaret Syme,
Minneapolis
B.S. '68, Mankato State College. Field of Concentration: Elementary Education. Major Adviser: Prof. A. H. Humphreys.

Edwin Maynard Wallace,
Minneapolis
B.A. '70, Willamette University. Major: Chemistry. Minor: Related Fields. Thesis: The Reaction of Carboxylic Acid Anhydrides with Cyanide. Major Adviser: Prof. S. W. Fenton.

Phillip Dean Wing,
Farragut, Iowa
B.S. '73, Iowa State University. Major: Animal Science. Minor: Statistics. Thesis: Effects of Chemical Additives on the Preservation of Alfalfa Haylage. Major Adviser: Prof. R. D. Goodrich.

Wu-Lung Wu
B.Pharm. '61, National Defense Medical Center, Taiwan. Major: Pharmacognosy. Minor: Biochemistry. Thesis: Cross-Reactivity of Antigens from Ragweed and Non-Ragweed Tissue Culture. Major Adviser: Prof. E. F. Staba.

Karen Elaine Ekre Zicarelli,
North St. Paul
B.A. '71, St. Olaf College. Field of Concentration: Horticulture. Major Adviser: Prof. R. E. Widmer.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

Paul Vincent LeDuc, Rochester
B.A. '70, St. Mary's College. Major: Zoology. Minor: Botany. Thesis: Analysis of Blood Proteins of Rainbow Trout (*Salmo gairdneri*) Using Acrylamide Gel Electrophoresis. Major Adviser: Prof. H. L. Collins.

Scott Paul Sarembo, Superior, Wis.
B.S. '70, Wisconsin State University. Field of Concentration: Geology. Major Adviser: Prof. C. L. Matsch.

Master of Science

MAYO GRADUATE SCHOOL OF MEDICINE

Magda Csetenyi, Indianapolis, Ind.
A.B. '71, Indiana University. Field of
Concentration: Medical Microbiology.
Major Adviser: Prof. R. E. Ritts, Jr.

Paul Lee Gielerak, Knox, Ind.
B.S. '70, Ball State University. Field of
Concentration: Medical Microbiology.
Major Adviser: Prof. R. E. Ritts, Jr.

Attila Nicholas Gyory, Canterbury,
Sydney, Australia
B.S. '60, M.B. '62, Sydney University;
M.R.C.P. '71, Royal College of Physicians,
London. Major: Physical Medicine and
Rehabilitation. Minor: Physiology. Thesis:
Functional Evaluation of Knee During
Gait. Major Adviser: Prof. G. M. Martin.

Master of Science in Civil Engineering

David Paul Guggemos, Hudson, Wis.
B.S.C.E. with high distinction '73, Uni-
versity of Minnesota. Major: Civil Engi-
neering. Minor: Related Fields. Thesis:
Powdered Activated Carbon in Activated
Sludge Systems. Major Adviser: Prof. W.
K. Johnson.

Paul Martin Ross, Fargo, N.D.
A.B. '57, M.S. '61, Ph.D. '66, University
of Kentucky. Field of Concentration: Civil
Engineering. Major Adviser: Prof. M. J.
Huber.

Carlos Alberto Solares
B.S.C.E. '59, Universidad de San Carlos.
Field of Concentration: Civil Engineering.
Major Adviser: Prof. W. K. Johnson.

Master of Science in Dentistry

Jerry Elmer Bouquot
B.A. '67, St. Olaf College; D.D.S. '71,
University of Minnesota. Major: Dentistry.
Minor: Pathology. Thesis: An Epidemi-
ological Evaluation of Oral Carcinoma and
Other Oral Premalignant Epithelial Dys-
plasia Incidence, and Other Oral Disease
Prevalence in an Adult Minnesota Popula-
tion of 23,766, 1957-1972. Major Adviser:
Prof. R. A. Vickers.

Douglas Everett Gothier,
Anthon, Iowa
B.S. '65, D.D.S. '69, University of Iowa.
Major: Dentistry. Minor: Anatomy. Thesis:
The Presence of a Serum Inhibitor of
Polymorphonuclear Leukocyte Cell Chemo-
taxis in Patients with Advanced Periodontal
Disease. Major Adviser: Prof. L. E. Folke.

James Anthony Schorn, Jordan
B.A. '68, B.S. with distinction '70, D.D.S.
'72, University of Minnesota. Major:
Dentistry. Minor: Anatomy. Thesis: A
Preliminary Intraoral Telemetry Report
of the Anter-Posterior Functional Occlusal
Contact Position in One Subject. Major
Adviser: Prof. R. G. Goodkind.

Master of Science in Dentistry

MAYO GRADUATE SCHOOL OF MEDICINE

Gene John Fortman, Farley, Iowa
B.A. magna cum laude '64; D.D.S. '71,
University of Iowa. Major: Dentistry.
Minor: Pathology. Thesis: Ultrastructure
of the Merkel Cell in Human Oral
Mucosa. Major Adviser: Prof. J. A.
Gibilisco.

Robert Yee-Wing Tang, Hong Kong
D.D.S. '68, Marquette University. Major:
Dentistry. Minor: Microbiology. Thesis:
An Assessment of Polyurethane Elastomer
as a Possible Resilient Material for Denture
Prostheses: A Microbiologic Evaluation.
Major Adviser: Prof. J. A. Gibilisco.

Master of Science in Electrical Engineering

Keith Lane Curtner, Minneapolis
B.E.E. '64, University of Minnesota. Field
of Concentration: Electrical Engineering.
Major Adviser: Prof. K. S. Kumar.

John Reynold Dahl, Minneapolis
B.E.E. with high distinction '72, Univer-
sity of Minnesota. Major: Electrical
Engineering. Minor: Physics. Thesis: Micro-
wave Amplification in Epitaxial Coplanar
Gunn Effect Devices with a Schottky
Barrier Control Electrode. Major Adviser:
Prof. G. Y. Robinson.

LeRoy Edward Klet, Warren
B.S.E.E. '72, University of North Dakota.
Field of Concentration: Electrical En-
gineering. Major Adviser: Prof. L. L.
Kinney.

George D. Marshall,
Stillwater, Okla.
B.S.E.E. '72, Oklahoma State University.
Field of Concentration: Electrical En-
gineering. Major Adviser: Prof. R. P.
Halverson.

Master of Science in Industrial Engineering

Roger Vernon Nelson, Minnetonka
B.S. '67, Augustana College. Field of
Concentration: Industrial Engineering.
Major Adviser: Prof. J. S. White.

Master of Science in Mechanical Engineering

Alireza Irani Behbahani
B.M.E. with distinction '72, University
of Minnesota. Field of Concentration:
Mechanical Engineering. Major Adviser:
Prof. R. J. Goldstein.

Dana Reinhold Lonn, Minneapolis
B.M.E. with high distinction '73, Uni-
versity of Minnesota. Field of Concen-
tration: Mechanical Engineering. Major
Adviser: Prof. D. A. Frohrib.

Master of Science in Medicine

MAYO GRADUATE SCHOOL OF MEDICINE

Clayton Reynolds, Vancouver,
Canada

B.S. '64, Memorial University of New-
foundland; M.D. '68, McGill University.
Major: Medicine. Minor: Biometry. Thesis:
Glucagon-Insulin-Glucose Relationships in
Diabetes Mellitus and Correlation of
Glucagon and Insulin Abnormalities with
Degree of Diabetic Instability. Major
Adviser: Prof. G. D. Molnar.

Master of Science in Neurosurgery

MAYO GRADUATE SCHOOL OF MEDICINE

Lonnie Lee Hammargren,
Las Vegas, Nev.
B.D. '64, University of Minnesota. Major:
Neurosurgery. Minor: Pathology. Thesis:
Preserved Vagal Secretometer Function
Following Lesions to the Dorsal Motor
Nucleus. Major Adviser: Prof. F. W. Kerr.

John Reveley Little, Regina, Canada
M.D. '70, University of Saskatchewan.
Major: Neurosurgery. Minor: Pathology.
Thesis: Neuronal Alterations in Developing
Cortical Infarction and the Role of
Lysosomes in the Production of Ischemic
Nerve Cell Changes. Major Adviser: Prof.
F. W. Kerr.

Master of Science in Orthopedic Surgery
MAYO GRADUATE SCHOOL OF MEDICINE

Patrick Ralph Robins, Rochester
B.A. cum laude '63, Carroll College;
M.D. '67, Marquette University. Major:
Orthopedic Surgery. Minor: Pathology.
Thesis: The Effects of Mithramycin on
Bone Turnover. Major Adviser: Prof.
P. J. Kelly.

Master of Science in Otolaryngology

Kent Shannon Wilson, Bemidji
B.S. '64, M.D. '66, University of Min-
nesota. Major: Otolaryngology. Minor:
History of Medicine and Biological Sciences.
Thesis: The Effect of Cryosurgery upon
the Superficial Cervical Lymphatic
System of the Rabbit: A Lymphographic
and Histological Study. Major Adviser:
Prof. M. M. Paparella.

Master of Science in Physical Therapy

Kathleen Joyce Hanson, Brainerd
B.A. '62, Concordia College. Field of
Concentration: Physical Therapy. Major
Adviser: Prof. H. V. Skowlund.

Master of Science in Surgery
MAYO GRADUATE SCHOOL OF MEDICINE

Richard Martin Satava Jr.,
Venice, Fla.
B.A. '64, Johns Hopkins University;
M.D. '68, Hahnemann Medical College.
Major: Surgery. Minor: Pathology. Thesis:
Cardiac Assist with an Intraventricular
Balloon. Major Adviser: Prof. D. C.
McGoon.

Master of Science in Urology
MAYO GRADUATE SCHOOL OF MEDICINE

John Joseph Mulcahy, New York,
N.Y.
B.S. '62, Holy Cross College; M.D. '66,
Georgetown University. Major: Urology.
Minor: Physiology. Thesis: The Effect of
Intravesical Formalin Instillation on the
Destruction and Regeneration of the
Canine Bladder Mucosa. Major Adviser:
Prof. L. F. Greene.

Master of Social Work

Yvonne Ann Fairbanks, Robbinsdale
B.A. '69, Moorhead State College. Field
of Concentration: Social Work. Major
Adviser: Prof. M. L. Frumkin.

James Richard Tonsager,
Minnetonka

B.A. cum laude '52, University of Min-
nesota. Field of Concentration: Social
Work. Major Adviser: Prof. P. W.
Chommie.

Janice Karen Berman Weiner
B.A. '72, University of Minnesota. Field
of Concentration: Social Work. Major
Adviser: Prof. B. E. Compton.

Master of Social Work

UNIVERSITY OF MINNESOTA, DULUTH

David Graham Blackwood, Duluth
B.S. '67, University of Minnesota, Duluth.
Field of Concentration: Social Work.
Major Adviser: Prof. J. F. Jones.

Pornsiri Chativanonda,
Bangkok, Thailand

B.A. '67, University of Portland. Field
of Concentration: Social Work. Major
Adviser: Prof. J. F. Jones.

Barbara Ann McCavie Lindberg,
Virginia

B.A. '72, University of Minnesota, Duluth.
Field of Concentration: Social Work.
Major Adviser: Prof. J. F. Jones.

Certificate of Specialist in Education

Alan Lee Fletcher, Excelsior
B.S. '67, M.A. '72, University of Min-
nesota. Field: Special Education. Major
Adviser: Prof. J. E. Rynders.

Harry Thomas Hoff,
New Brighton

B.S. '66, Bemidji State College; M.S.
'69, St. Cloud State College. Field:
Elementary School Administration. Major
Adviser: Prof. G. F. Alkire.

Michael William McGlinch,
Mahtomedi

B.S. '58, Winona State College; M.A.
'68, University of Minnesota. Field:
General Curriculum Supervision. Major
Adviser: Prof. R. D. Kimpston.

Carolyn Nelson Mortensen, Hastings
B.S. cum laude '65, Mankato State College;
M.S. '70, University of Wisconsin. Field:
Elementary School Administration. Major
Adviser: Prof. V. D. Mueller.

Azell Christopher Smith,
Memphis, Tenn.

B.A. '68, Voorhees College; M.A. '74,
University of Minnesota. Field: Counseling.
Major Adviser: Prof. A. S. Briskin.

COLLEGE OF AGRICULTURE

Bachelor of Science

Seth Kofi Rich Ashiamah,
Baika, Ghana
Paul Joseph Diedrich, St. Paul
Connie Jean Franklin, Wendell
David Wayne Hyland, A.A.,
Stewartville
Sally Lee Kramer, Fox Lake, Wis.

Robin H. Kloss, Maple Grove
Charles Conrad Krueger,
Minneapolis, with distinction
Kit Kenneth Nelson, Golden Valley
Rodney E. Sievert, Glenwood
Paul G. Vanberg, A.A., Rochester

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Swen Lee Anderson, Jackson

Mark Edward Schabert, St. Paul

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

Daniel Leland Bale, Albert Lea
Lynn Alice Davis, Lindstrom
Shayne Elise Dizard, Duluth
Ronald Walter Flolid, Little Falls
James William Gustafson,
Minneapolis
Kathleen B. Hall, Minneapolis
James Russell Henry, Albert Lea
Jon Bradley Hochalter, Stillwater
Paula Ellen Johnson, Chisago City
John Lansing Kipp, St. Paul
Nancy Lee Kisselburg, Mondovi,
Wis., summa cum laude

Stephen Maher Munz, Mound
Patrick Moore Oakes, Prior Lake
Marlys L. Reuvers, Faibault
Michael Demuth Rohwer,
Minneapolis
Barbara Leigh Rousseau, Greenbush
Thomas George Strand,
Minneapolis
William Patrick Waring III,
St. Paul

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Charles Groven Anderson,
Minneapolis
Russel Coulston Anderson, A.A.,
Anoka
Herbert A. Bolin, A.A., Edina
Martin Boorsma, Wayzata
Richard Jerry Carlson, Rosemount
David Norman Collins, A.A.,
Minneapolis

Robert Nelson Crowder, Apple
Valley
Tim G. Doyle, St. Louis Park
Steven Wayne Falkum, A.A.,
Richfield
Gerald Frederick Grant, St. Paul,
with distinction
Terrance Edward Haley,
Minneapolis

*Gregory Paul Hodapp, Mankato,
with distinction*

Mark Hall Hohnberg, B.C.E.,
Minnetonka

Charles William Hullsick, Excelsior

Brian George Jacenko, Minneapolis

Curtis Foster Johnson, Minneapolis

Ronald John Keto, Minneapolis

Gary Lee Kiecker, B.S., Minneapolis

Ronald Alfred Knoll, Minneapolis

Joseph West Lawver, Edina

Dale A. Leslie, Brooklyn Park

Rodnick John Malin, Oakdale

George William Mayleben,
Minneapolis

Craig Randall Miller, St. Paul

*Paul Christian Odlaug, St. Paul,
with high distinction*

Ronald Dean Peterson, A.A., Canby

Robert L. Porter, Richfield

Richard Joseph Prenovost,
Minneapolis

Gary Richard Prestegord, St. Paul

*Colleen Marie Quinn, Minneapolis,
with distinction*

Warren Allen Ronsen, A.A.,
Minneapolis

James Grant Rude, Minneapolis

James Michael Rudersdorf,
Minneapolis

George Douglas Sanford, Princeton

*Larry Noel Searcy, Pillager,
with high distinction*

*Mark Richard Schuetzler, Hopkins,
with distinction*

Janice Kay Spring, St. Paul

*Lucian Swift Strong III, Wayzata,
with distinction*

Donald Martin Toivola, Orr

Cheryl Ann Trutna, Melrose

Craig James Ungerman, A.A.,
Minneapolis

Gwen Margaret VanDuzee, St. Paul

William Karl Wefring, A.A.,
Minneapolis

Michael Hubert Wheeler,
Minneapolis

*Jerry Alan Zeitlin, Richfield,
with distinction*

Jack Gregory Zouber, Minneapolis

CONTINUING EDUCATION AND EXTENSION

Business Administration Certificate

Rickard R. Holtmeier, Minneapolis

SCHOOL OF DENTISTRY

Bachelor of Science

Charles Thomas Frenick, St. Paul

Harry John Larson, Golden Valley

Doctor of Dental Surgery

Paul Allen Hauge, B.S., St. Paul

Bernard William Jung, B.S., St. Paul

Shelley Dene Townsend, B.S.,
Mankato

COLLEGE OF EDUCATION

Bachelor of Science

*Laurie Ann Allen, New Brighton,
with high distinction*

Glen Allen Anderson, St. Paul

*Charles Richard Bracken, St. Paul,
with distinction*

*Christine Carol Bro, Glenview, Ill.,
with distinction*

*Mary Jane Buhrt, Minneapolis,
with distinction*

*Sheila Alice Carmody, Eden Prairie,
with distinction*
*Ellen Kerrie Costello, St. Paul,
with distinction*
*Joanne Carol Franke, Minneapolis,
with distinction*
Shelley Ann Gaetz, New Brighton
*Jill Ann Genaw, Minneapolis,
with distinction*
*Richard Allen Gresczyk,
Minneapolis, with distinction*
*Stanley Gene Hacker, Canby,
with high distinction*
*Mary Elizabeth Hoare, Wayzata,
with distinction*
*Lynette Kay Hunter, Minneapolis,
with high distinction*
*Michael James Matheson,
Circle Pines, with distinction*
*James McCollow, Minneapolis,
with distinction*
*Kevin George Merkle, B.A., St. Paul,
with high distinction*
Barbara Ann Myers, St. Louis Park
*Debra Mae Nelson, Minneapolis,
with distinction*
*Lillian Doris Nemet, Minneapolis,
with distinction*

*Janell Irene Tupper Olson,
Minneapolis, with distinction*
*David Edward Orren, St. Cloud,
with distinction*
*Nitsa A. Papadopoulou, Nicosia,
Cyprus, with high distinction*
*Dennis Ray Peterson, Minneapolis,
with high distinction*
*Olive Brudeseth Peterson,
Minneapolis, with distinction*
*Peggy Lou Reese, A.A., New
Richland, with high distinction*
*Elaine Marcella Schlechter, A.A.,
Richfield*
*Katherine Rose Stock, Minneapolis,
with distinction*
David Bernt Stoylen, Minnetonka
*Terri Lee Thompson, Brooklyn
Center*
*Walter Robert Torning, Jr.,
Minneapolis*
*Alyce Joy Ziegenhagen, New
Brighton, with high distinction*
*Robert Lee Zins, A.A., South St.
Paul, with distinction*

Master of Education

Edward Francis Almekinder, B.S.,
Forest Lake
 Roger Wayne Arnold, B.S., Richfield
 Lawson Clyde Baker, B.S., Windom
 Sandra Lee Becker, B.S.,
Bloomington
 Donald Nicholas Besky, A.A., B.S.,
St. Paul
 Dennis Edwin Davis, B.S.,
Apple Valley
 James Alan DeLong, B.S.,
Bloomington
 Bernard Lyle Edmonds, B.L.A.,
St. Paul
 Gerald Leonard Eklin, B.S., Osseo
 Lois May Fennig, A.A., B.S.,
Minneapolis
 Hugh Raymond Florman, B.S.,
Anoka
 Stanley Loren Fure, B.A., Richfield
 Patricia Marie Gammis, B.S.,
St. Paul Park

Arthur G. Georgopoulos, B.A.,
Bloomfield, Neb.
 Michael Jerome Gooley, B.S.,
Minneapolis
 Gary Allen Halvorson, B.A.,
Maple Grove
 Sallyann Hudson Johansen, B.A.,
Minneapolis
 Richard Eugene Johnson, B.S.,
Bloomington
 Wayne Ernest King, B.S.,
Chatfield
 Richard Michael Kubes, B.S.,
West St. Paul
 Larry Thomas Langen, B.S.,
St. Louis Park
 Billy Reubin Ledbetter, B.A.,
St. Paul
 Benjamin Nicholas Lind, B.S.,
B.S. Chaska
 Ronald Richard Maki, B.S., Cook

Gerald Stephen Michaud, B.A.,
Methuen, Mass.
Wayne Clifford Nelson, B.A.,
St. Paul
James Peter Norman, B.S.,
Minneapolis
Karin Alice Ostrand, B.S., St. Paul

Joseph Peter Rafferty, B.S., St. Paul
Carl Anton Saarion, B.A., Anoka
Kathryn Mellville Tromly,
Minneapolis
Larry Allen Weum, B.A.,
Brooklyn Park

COLLEGE OF FORESTRY

Bachelor of Science

Richard Wayne Scanlon,
Louisville, Ky.

Lee Daniel Schmunk, Bemidji

GENERAL COLLEGE

Associate in Arts

Andrea Ruth Altman, Golden Valley
James Andrew Andre, Minneapolis
Gerald Henry Breyer, St. Paul
Patricia Ann Cupkie, Owatonna
Alden Louis Johnson, Minneapolis
Richard LeRoy Krantz, Isanti
Nancy Jane Landis, Minneapolis

Robyn Leslie Libson, Minneapolis
Dirk William Lindgren, St. Paul
Terri Marie Merth, St. Paul
John Thomas Peterson II,
Bloomington
Cynthia Suzette Ross, Dallas, Tex.
Marlane Penelope Straka, St. Paul

Bachelor of Applied Studies

William Picton Clark, A.A., Wayzata
Ellen Barclay Cutler, A.A.,
Richfield
Shirlene Alvina Junis Fairburn,
Minneapolis

Patricia Sue Nolte, A.A., Fairmont
Mark K. Shields, St. Paul
Charles William Wolter, Bloomington

Bachelor of General Studies

Helmut Karl Novecki, A.A., St. Paul

COLLEGE OF HOME ECONOMICS

Bachelor of Science

Jane Marie Alcorn, Stillwater
Patrick A. Bohr, Minneapolis
Donna Wilkens Ferguson,
Crookston, with distinction
Sally Anne Heinrich, Edina,
with distinction
Linda Elaine Hermanson, Fergus
Falls
JoAnne Elizabeth Hipp, Willmar
Catherine J. Holie, Minneapolis

Janice Ann Johnson, St. Paul
Colleen Mary Kritzcek, Minneapolis,
with distinction
Pamela Ann Larson, Minneapolis
Wanda Lee Lorentzen, Lake Park
Beatrice Ann McKibben,
Minneapolis, with high distinction
Carol Diane Neal, Edina,
with high distinction
Joanne Carol Newell, St. Paul

Donna Jean Perlbachs, Minneapolis,
with distinction
Cassandra Kay Roberson, A.A.,
Bloomington
Phyllis Kay Rupp, New London
Rennae Carol Grace Sletten, Argyle
Linnea Joy Stohlberg, Minneapolis

Judith Elizabeth Strain,
International Falls
Karen Lee Trondson, B.S., Lakefield,
with distinction
Karen Christine Winship, St. Paul
Judy Ann Youngern, Grand Forks,
N.D., with distinction

LAW SCHOOL

Juris Doctor

Martin John Costello, B.A.,
Minneapolis
Drew Peterson, B.A., Minneapolis

George Howard Smith, B.A.,
Minneapolis

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

Francine Schloner Barr, St.
Louis Park
Barbara Mae Lahtinen Benson,
Edina
Roger Wayne Bergman, Minneapolis
Joan Marie Kleinberg, Minneapolis
Fatai Olawale Oluwole, Lagos,
Nigeria
Jeffrey David Proud, St. Paul
Gregory James Smith, Minneapolis

Vivian Ann Solberg, St. Paul
Jenean Studer Springrose,
Minneapolis
Elizabeth Louise Stark, Minneapolis
Douglas E. Swanson, Minneapolis
John Palmer Sweeney, St. Paul
Walter Thomas Wenda, South
St. Paul
Darrell Price Winston, Minneapolis

Bachelor of Arts

Robert David Akerson, St. Paul
Judith Ellen Alnes, Mahtomedi
Jane Louise Altobelli, Hibbing
Bruce Robert Anderson, Edina
Kurt Michael Anderson,
Bloomington
William Kent Babb, St. Paul
Bruce Gregory Baldwin, Edina
Mark Robert Bauman, A.A., St. Paul
Ossie Thomas Belton, A.A.,
Minneapolis
Ruth Sarjoimi Bennett, A.A.,
Minneapolis
Constance Bensen, Lauderdale
Gregory Mark Bistram, Fridley
Randy Lynn Blindman, Minneapolis
Frederick Alan Bohling, St. Paul
Scott Lee Boston, St. Paul
Michael K. Brady, Minneapolis

Fred Branch, Asheville, N.C.
Jacqueline Kay Brettin,
Bird Island
Monica Mary Brinkman,
Minneapolis
Terry Rene Broin, Duluth
Kathleen Mary Brumfield,
Minneapolis
Carolyn Jones Buckheim,
Minneapolis, summa cum laude
Claude Daniel Buettner, Bloomington
Sheila Anne Burke, St. Peter,
cum laude
Benjamin David Butler, White
Bear Lake
Gunilla Gustafsson Butler, St. Paul
Mark Douglas Campbell, Owatonna
Marjorie Anne Casey, Minneapolis
Mary Zammiller Cassady, Rosemount

Vicki Lynn Chambard, New Ulm
 Richard Judson Christenson,
 Dodge Center
*Heather Katrina Cole, Washington,
 D.C., magna cum laude*
 Sondra L. Collier, Kansas City, Mo.
 Mary Jo Combs, Minneapolis
 Mary Susan Conaway, Minneapolis
 Alyce Joanne Cooper, Mound
 Paul William Cronstrom, A.A.,
 Minneapolis
 Mary Louise Curran, Minneapolis
 Deborah Duncan Damer,
 Beckley, W.Va.
 Carolynne Darling, Brooklyn Center
 Demis Richard Davideit, Hamel
 Pamela Sue Davis, Edina
 Debbra RoseAnne Determan, Spicer
*Mark Allen Donicht, Hopkins,
 summa cum laude*
 Stephen Andrew Dorri, Minneapolis
 David Allan Dornbush,
 Aberdeen, S.D.
 Jo Anne Dubbe, St. Louis Park
 Susan Marie Ebner, Elk River
 Thomas Craig Eisenstadt,
 Minneapolis
 Cynthia Ann Elliott, St. Paul
 Michael Peter Elsen, Minneapolis
 John Charles Enselcin, Jr.,
 Robbinsdale
*Elizabeth Lacey Erspamer, Richfield,
 summa cum laude*
 Stephen James Fossing, Minneapolis
 Kenneth Elmer Franzen, Minneapolis
 Michele Sue Goyette, St. Paul
 Teri Alene Grossman, Vail, Colo.
 Robert John Grusecki, Minneapolis
 Stephen John Guthrie, Minneapolis
 Alemayehu Habte, Dire Dawa,
 Ethiopia
 Carol JoAnn Hanson, Minneapolis
 Alan Joseph Harris, Minneapolis
 Patricia Ann Harrison, Minneapolis
 David Joseph Heck, St. Paul
 Eugenia Leone Hedlund,
 Minneapolis
 Linda Elaine Hermanson,
 Fergus Falls
 Theresa Lee Hewson, Minneapolis
 Morris Wolf Hoch, St. Paul
 Alison Patricia Holden, St. Louis Park

*John LeRoy Holden, Hopkins,
 summa cum laude*
 Robin Joy Holzman, Minneapolis
 Roberta Ann Hovde, St. Paul
 Michael William Hughes, A.A.,
 Litchfield
 Shi-Wah Joseph Hui, Hong Kong
 Bonnie Lynn Isbin, A.A.,
 Minneapolis
 Mary Theodora Jambeck, Marine-
 on-St. Croix
 Barbara Jarvis, Claremont, N.H.
*Deborah McCarl Jennings,
 Minneapolis, magna cum laude*
 Elizabeth Strange Jensen,
 Minneapolis
 Charles Harold Johnson, Jr.,
 St. Paul
 Craig William Johnson, Minneapolis
 Gary Lee Johnson, Red Wing
 Gary R. Johnson, Richfield
 Kathleen Mary Johnson,
 White Bear Lake
*Lisa Christine Johnson, Rochester,
 summa cum laude*
 William Lee Johnson, A.A.,
 Minneapolis
 Bradley F. Kalin, Mankato
 Deborah Kay Kasma, Minneapolis
 Janice Kerns, St. Paul
 Nancy Jo Ketchel, St. Paul
*Shirley Rae Boyd King, Roseville,
 summa cum laude*
 Thomas Gerald Kittelson,
 Minneapolis
 Kim August Klawiter,
 White Bear Lake
 Christine Anne Klingner, A.L.A.,
 West St. Paul
 Richard Thomas Koch, Minneapolis
 Colleen Kaye Kochler, St. Paul
 John Pertti Koivukangas, Cokato
 Laura Denise Koltjes, St. Paul
 Thomas Michael Kowalsky,
 Fairfield, N.J.
 Thomas William Krauel, Foreston
 Delores Rita Kruchten, Waite Park
 John Bernard Kruse, Duluth
 Peter Kunz, Minneapolis
 Nancy Beshear Kweik, A.A.,
 Dawson Springs, Ky.
 Richard Gregory Larson, St. Paul

Kim Jonathan Latterell, Minneapolis
 Gregory Mark Lee, Aneta, N.D.
 Nancy Jean Lee, Duluth
 Sandra M. Litecky, Minneapolis
 John Bentley Lunseth II, St. Paul
 Randall Orrin Madigan, Chisholm
 Elena Peterson Magers, Minneapolis
 Geoffrey Errol Mammen,
 Bloomington
*Alan David Margoles, St. Paul,
 summa cum laude*
 Mary Jean Lindahl Mariano, St. Paul
 Karen Eleanor Mattson, St. Paul
 Stephen Earle Maupin, Excelsior
 Mary Dorr McAlpine, A.A.,
 Princeton
 Stephen Michael McGowan,
 Bloomington
 Dennis William McPartlin,
 Roseville
 Sandra Lee Menssen, Hutchinson
 Susan Sletten Meyer, Minneapolis
 George Howard Mickelsen,
 Forest Lake
 Karen Elizabeth Miller, Fargo, N.D.
 Karen Marie Minkkinen,
 Kettle River
 Pamela Ann Mitchell, Albert Lea
 Karl Everett Molstad, Minneapolis
 Maureen Mary Moo, Minneapolis
 Jenny Lynn Mortimore, Minneapolis
 Gregory Warren Murphy, Richfield
*David Lowell Nash, Fairmont,
 magna cum laude*
 David Michael Nelson, Minneapolis
 Jeffrey Craig Nelson, St. Paul
 Kathryn Louise Nelson, Minneapolis
 Margaret Rosen Nolley, Minneapolis
*Monte Lynn Norgaard, Richfield,
 summa cum laude*
 Teresa McDonald Nye, Winona
 Michael John Ochs, St. Paul
*Judy Barbara O'Dell, A.L.A.,
 St. Louis Park, magna cum laude*
*Mary O'Hara, Rochester,
 summa cum laude*
 Lesley Creighton O'Leary,
 Minneapolis
 Karen Timberlake O'Neill,
 Minneapolis
 Margery Gale Osberg, B.S.,
 Bloomington

Debra Jean Ouellette, Duluth
 Suzanne Marie Palmer, Minneapolis
 Thomas Jeffery Palmer, Duluth
 Pankaj Palvia, New Delhi, India
 Patricia Anne Patrick, St. Paul
 Terri Fautsch Patridge, St. Cloud
 Laurel Judith Patton, Minneapolis
 Cheryl Victoria Paulaha,
 Minneapolis
 John Patrick Petersen, Robbinsdale
 David Orian Peterson, New Hope
 Sheldon Trent Peterson, Edina
 Katherine Ann Phillips, Minneapolis
 Richard Bradley Pike, Rochester
 Nancy Ann Plesha, St. Paul
 Nancy Marie Poechmann, St. Paul
 Howard Jay Polski, Minneapolis
 Cynthia Anne Pratt, St. Paul
 Mark Loren Pratter, Buffalo, N.Y.
 Annette Carol Reitter, St. Paul
*John Christopher Thomas Richardson,
 St. Paul, cum laude*
 Susan Anne Riley, Minneapolis
 Janemarie F. Ripsin, Minneapolis
*Janet Linda Robbins, B.M.E.,
 Minneapolis, summa cum laude*
 Martin Roy Roller, Minneapolis
 Mary Catherine Rosch, Minneapolis
 Robert Gary Rosenblum, St. Paul
 William Stanley Rosenblum, St. Paul
 J. Jeffrey Ruegemer, Hopkins
 Debra L. Ruegg, Minneapolis
*Nancy Jo Sagstuen, B.S.,
 Minneapolis, summa cum laude*
 Sharon Kay Salie, Vancouver,
 British Columbia, Canada
 Catherine A. Santrizos, Edina
 Jeanne Elaine Sartell, Wadena
 Vicki Lee Savage, Minneapolis
*Susan Marie Schaefer, Nicollet,
 summa cum laude*
 Mary Jo Schifsky, St. Paul
 Gretchen Schluter, Mound
 Lisa Mary Schoenecker, Minneapolis
 Linda Corinne Schwartz, Albert Lea
*Stephan Lane Schwartzman,
 Minneapolis, summa cum laude*
 Linda Lea Scott, Wessington
 Springs, S.D.
 Cynthia Mae Shark, Minneapolis
 Anne Margaret Simonet, Stillwater
 Ronald Carl Skoogberg, St. Paul

Lucia Jane Smerdon, Minneapolis
 Susan Kay Smiley, Roseville
 Patricia Elaine Smith, Minneapolis
 Donald Duane Sparr, Circle Pines
*Cheryl Terese Specter, Hopkins,
 summa cum laude*
 Grace Irene Standal, Minneapolis
 Constance Marie Stapleton,
 Minneapolis
 Darryl James Steckelberg,
 Chamberlain, S.D.
 Kenneth James Steenson, A.A.,
 Jacksonville, Fla.
 Kaye L. Storey, DeKalb, Ill.
 Larry C. Stowes, Alexander City, Ala.
 Susan Marie Strandberg, St. Paul
 Patricia Susan Strike, Cambridge
 Ann Sumner, White Bear Lake
 William Jeffrey Swanson, A.L.A.,
 St. Paul
 Gara Gay Swenson, Wendell
*Sonia Porter Thompson, Detroit,
 Mich., cum laude*

Mary Kay Tracy, St. Paul
 James Andrew Tralle, St. Paul
 William Eddy Tripp, Jr., Roswell, Ga.
 Gregory Peter Tschann,
 Minneapolis
 Daniel Carl Wallstedt, Minneapolis
 Jeanne Anne Walters, Buffalo
 Helen Marie Wangen, Estherville,
 Iowa
 Gail Whitchurch, Owatonna
 Kathleen Michelle White, St. Paul
 David Anthony Whitebread, St. Paul
 Thomas Michael Wigfield, St. Paul
 Michael Arthur Wilcox, St. Paul
*Albert Wayne Will, Excelsior,
 cum laude*
 David Thomas Young, Minneapolis
 John Howard Young, St. Louis Park
 Lenn Arlo Zempel, Montevideo
 Kathleen Mary Ziegler, A.A.,
 Minneapolis

Bachelor of Elected Studies

Susan Theodora Applebaum, A.A.,
 St. Paul
 Stephen Joseph Archer, Minneapolis
*David Jay Bishop, Fairmont,
 magna cum laude*
 Beverly Jan DeVore, Chisholm
 Mary Katherine Dew, Minneapolis
 Pamala Dotty, St. Paul
 Janice Louise Erickson, Richfield
 Charles Taylor Fitzpatrick, St. Paul
 Patricia Louise Flannelly,
 Minneapolis
 Daniel George Freking, Heron Lake
 Anita Mary Keyes, St. Paul
 Thomas Leroy Krook, A.A.,
 Minneapolis
 Cynthia Hannah Swanson Lindgren,
 Richfield
 Barry Lundgren, Edina

Jack Duane Mills, Waterloo, Iowa
 Jeanette Marie Mlinar, Minneapolis
 Richard Kirk Neff, Minneapolis
 Richard Fifield Piper, Detroit, Mich.
 Timothy Lawrence Ready,
 Minneapolis
 Arlene Therese Roehl, Maple Plain
 Timothy Henry Ruggles, Stillwater
 Cathryn Brandt Sarset, Minneapolis
 Janet Lee Seewald, Inver Grove
 Heights
 Thomas Craig Skildum, St. Paul
 Vicki Ann Stewart, Edina
 Earl Vincent Weibeler, Jr.,
 Minneapolis
 Judith Shiely Wendel, Minneapolis
 Charles Manuel Zarza, A.A.,
 Minneapolis

Bachelor of Fine Arts

Mark Elliot Ackerman,
 McLaughlin, S.D.
 Kathleen Ann Braun,
 White Bear Lake
 Brian James Burg, Crystal
 Debra Ruth Freedland,
 St. Louis Park

Frank S. Keller III, B.A.,
 Minneapolis
 Paul Douglas Miterko, Minneapolis
*Ann Marie Plante, Minneapolis,
 summa cum laude*
 Jeffrey John Sinks, St. Paul

MEDICAL SCHOOL

MEDICAL TECHNOLOGY

Bachelor of Science

These degrees are conferred subject to the completion of practical work prior to December 12, 1974

Diane Lynn Hanson, B.A., St. Paul,
with high distinction
Valerie Alice Lindblade, North
St. Paul

Joan Kingsbury Rymer, B.A.,
St. Paul, *with distinction*

MEDICINE

Doctor of Medicine

Martin Emer Hanson, B.A.,
Beaver Creek
Michael Glenn Molitor, B.S.,
White Bear Lake

Carl H. Peters, B.A., Clear Lake

OCCUPATIONAL THERAPY

Bachelor of Science

These degrees are conferred subject to the completion of practical work prior to December 12, 1974

Susan Rich Baker, Richfield,
with high distinction
Judy Christine Bergstrom,
Minneapolis, *with distinction*
Susan Lee Breun, Minneapolis,
with distinction
Melody Ann Ehrich, Fairmont,
with high distinction
Mei-Lan B. Hom, Minneapolis,
with distinction
Marylynn Ethel Hoppe, Kasson,
with high distinction
Anne Violet Irving, St. Paul,
with high distinction
Juliann Marie Jepsen, Minneapolis,
with high distinction
Kristine Idelle Johnson, Minneapolis,
with high distinction
Lynn Ann Christine Josephson, New
London, *with high distinction*

Susan Norma Kallstrom, Cloquet,
with high distinction
Mary Beth Kibort, St. Louis Park,
with distinction
Carol Bonnie Rae Knutson, A.A.,
Brooten, *with high distinction*
Vernette E. McCombs, Minneapolis
Rita Jean McNallan, Kellogg,
with high distinction
Kristen Sue McWilliams,
Minneapolis, *with high distinction*
Kay Marie Paulson, Northfield,
with high distinction
Carol Joyce Radford, Duluth,
with high distinction
Suzanne Lynn Rose, Morris,
with distinction

COLLEGE OF PHARMACY

Bachelor of Science in Pharmacy

Paul Edward Essling, Eveleth

SCHOOL OF PUBLIC HEALTH

Master of Public Health

Miriam Imelda Bell, B.S., Anchorage, Alaska	Patricia Ann Kukowski, B.S., Beach, N.D.
Victoria Ann Bjerck, B.S., Benson	William Michael Mays, B.A., Minneapolis
Patricia Mills Erkel, B.A., Monticello	Michael Vincent O'Brien, B.A., St. Louis Park
James Warren Gerber, B.A., St. Paul	Charles Theodore Treallee, B.S., Sun Prairie, Wis.
Patrick Neil Kennedy, B.S., Green Bay, Wis.	

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

*William Ralph Foster, St. Paul,
with distinction*

Bachelor of Architecture

Roderick Chitak Leung, Hong Kong	Robert Milton Retherford, Jr., Bloomington
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Bachelor of Chemical Engineering

<i>Sheldon James Israel, Minneapolis, with high distinction</i>	John Walker Woodworth, St. Paul
<i>Kai-Lung Lau, Hong Kong, with high distinction</i>	

Bachelor of Civil Engineering

Bruce F. Boje, Waseca	<i>Kent Lloyd Sogge, Hopkins, with distinction</i>
Michael Robert Kraemer, Ortonville	Jaroslav Zavitkovski, St. Louis Park
Stanley Donald Rice, St. Paul	

Bachelor of Computer Science

Barbara Lee Ndosì, St. Louis, Mo.	Thomas Ford Vidovic, Hibbing
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Bachelor of Electrical Engineering

Richard Wayne Allen, St. Paul	<i>George Anthony Mathes, B.Math., St. Paul, with distinction</i>
David Francis Benassi, St. Paul	Bolaji B. Odunsi, Ijebu-Ode, Nigeria
Robert Jon Carlson, B.Phys., Brooklyn Park	Michael Edward Rohricht, Newport
John Deneka, Minneapolis	<i>Quentin Florian Smisek, Minnetonka, with distinction.</i>
Lincoln Fetcher, St. Paul	<i>Larry Steven Streleck, Minneapolis, with high distinction</i>
John Calvin Garley, St. Paul	Robin T. Wernick, St. Louis Park
William James Lundsten, Delano	
<i>Christian L. Martin III, Minnetonka, with distinction</i>	

Bachelor of Landscape Architecture

Jessica Taiyun Auyeung, B.S.,
Hong Kong

Bradley Ray Hinseth, Bloomington

Bachelor of Mathematics

Richard Thomas Stone, Golden
Valley

Bachelor of Mechanical Engineering

Robert Edward Diesch, Minneapolis,
with distinction

Gary Allen Dreyer, St. Paul,
with distinction

Edward Harold Egan, Burnsville

Mohammad Abdollahzadeh Fahimi,
Tehran, Iran

Jay Anthony Gonzalez, Bloomington,
with high distinction

Michael Paul Groven, Minneapolis

Michael John Julik, Coon Rapids

Randall Alan Lamma, Tower,
with distinction

William John O'Neill, Minnetonka

Certificate in Science

John Charles Hanssen, North St. Paul

UNIVERSITY COLLEGE

Bachelor of Arts

Margaret Frieda Lee, Zumbrota

Carlen Marie Ruschoff, Golden
Valley, *with distinction*

Wayne Alexander Russell, A.A.,
Minneapolis

Bachelor of Science

Maximo Dolores Caba, Veracruz,
Mexico

Joyce Angela Doucette, Minneapolis

Marshall Allen Goff, Minneapolis

Lois Yvonne MacKenzie,
Minneapolis

Marvin James Manypenny, A.A.,
White Earth

Roy Allen Nees, Robbinsdale

Michael Grover Norris, A.L.A.,
Minneapolis

Harold Robert Peaslee, St. Paul

Alvaro Plaza, Santiago, Chile

Judith Ann Puhl, St. Cloud

Paula Clark Retzlaff, Minneapolis

Stephen Henry Richardson,
Arden Hills

Mary Katherine Rosenthal, A.A.,
Grand Marais

Robert L. Rowland, Duluth

Colleen Ann Shannon, Minneapolis,
with high distinction

Rebecca Mae Styrlund, St. Cloud

Edith Fellows White Watson, Edina

Shirley Ann Wilcox, A.A.,
Minneapolis

August Candidates for Commissions

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

DEPARTMENT OF AEROSPACE STUDIES

Second Lieutenant, USAF Reserve

James A. Fischer, St. Paul
Sheila L. Pike, Newport

John S. Watschke, St. Paul
Douglas A. Wickstrom, Crystal

DEPARTMENT OF MILITARY SCIENCE

Second Lieutenant, USAR Armor

Lawrence M. Steiner, Jr., St. Paul

Second Lieutenant, USAR Field Artillery

David F. Huntley, Blaine

Second Lieutenant, USAR Medical Service Corps

Lenn F. Nelsen, Colville, Wash.

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

William A. Ford, Woodbridge, Va. Charles J. Wagner, Jordan

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.

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

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

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

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

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

Printed on recycled paper



UNIVERSITY OF MINNESOTA

December Commencement, 1974

THURSDAY EVENING, DECEMBER 12, 7:30 P.M.
NORTHROP MEMORIAL AUDITORIUM

Board of Regents

The Honorable Elmer L. Andersen, St. Paul
The Honorable Fred A. Cina, Aurora
The Honorable Lauris D. Krenik, Madison Lake
The Honorable L. J. Lee, Bagley
The Honorable Lester A. Malkerson, Minneapolis
The Honorable Wenda Moore (Mrs. Cornell), Minneapolis
The Honorable George W. Rauenhurst, Olivia
The Honorable Neil C. Sherburne, Lakeland Township
The Honorable Loanne R. Thrane (Mrs. Ralph), Chanhassen
The Honorable David C. Utz, M.D., Rochester
The Honorable Kathryn Vander Kooi (Mrs. Benjamin), Luverne
The Honorable John A. Yngve, Plymouth

Central Executive Officers

C. Peter Magrath, President
Duane A. Wilson, Secretary to the Board of Regents
James F. Brinkerhoff, Vice President for Finance, Planning, and Operations
Walter H. Bruning, Vice President for Administrative Operations
Paul H. Cashman, Vice President for Student Affairs
Lyle A. French, Vice President for Health Sciences
William F. Hueg, Deputy Vice President for Agriculture, Forestry, and Home Economics
Stanley B. Kegler, Vice President for Institutional Planning and Relations
Albert J. Linck, Acting Associate Vice President for Academic Administration

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

Your University

CHARTERED in 1851 by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and twenty-third birthday. One of the great land-grant universities in the nation, the University of Minnesota is dedicated to training young men and women to be our future leaders. Each year, graduates leave our campuses to add new skills and knowledge to the existing resources of the state. They have been trained as physicians, lawyers, engineers, social workers, teachers, journalists, dentists, pharmacists, nurses, scientists, farmers, businessmen—to name but a few of the careers for which preparation is offered. Since its founding, the University has awarded more than 265,000 degrees, each one in recognition of the successful completion of a challenging academic program.

In addition to giving collegiate instruction to nearly 50,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Waseca campuses and at the Mayo Medical and Graduate Schools in Rochester, the University offers, through Continuing Education and Extension programs, special training for those who wish to study on a part-time basis. The University also offers educational opportunities through its Agricultural Extension Service, with county agents, home agents, 4-H club agents, and recreation and health consultants available throughout the state to provide help to Minnesotans in their own homes.

In the many research laboratories on the University's five campuses, at the agricultural experiment stations located throughout the state, at the Rosemount Research Center, the Cloquet Forestry Center, the Cedar Creek Natural History Area near Bethel, the Horticultural Research Center and Landscape Arboretum at Excelsior, the Lake Itasca Forestry and Biological Station, the Horticulture Center at Duluth, the Sand Plain Experimental Field at Elk River, and the Hormel Institute at Austin, and at the University Hospitals, University scientists are at work on countless experiments of great potential importance to the quality of our lives. Research projects are leading to new knowledge in such areas as learning disabilities, drug abuse, urban and environmental problems, rural/urban migration, health care delivery systems, and computer technology, to name only a few. The progress being made in these and other areas will have a profound impact on the lives of Minnesotans and people throughout the world.

THE UNIVERSITY continues to be the great cultural center of the Upper Midwest. It is the home of the University Artists Course, the University of Minnesota Television Hour, Radio Station KUOM, the University Theatre, the Bell Museum of Natural History, and the local performances of the Metropolitan Opera Company. Through the University of Minnesota Program Service, the University brings important artists and lecturers to more than a million persons annually.

Minnesotans have good reason to be proud of their University, not only because it is one of the leading state universities in the country, but also because of the extent and quality of its services to the people of the state, their families, communities, and organizations. The interest of Minnesotans in their University is a dynamic thing, and it expresses itself in many ways. Their contributions have made it possible to build the Variety Club Heart

Hospital and the Mayo Memorial Building. Through the American Legion and its auxiliary posts all over the state, thousands of friends have made generous donations to endow a research professorship in heart disease. Other contributions have built the Masonic Memorial Hospital, the Veterans of Foreign Wars Cancer Research Center, and Diehl Hall, which houses the biomedical library and other medical research facilities.

Just as generous have been the contributions made by corporations, associations, foundations, trade unions, clubs, and individuals, whose efforts have made hundreds of grants and fellowships available to deserving students. As the University moves toward emphasis on upper division, graduate, and professional programs, educational costs will increase. Friends and supporters of the University, who are aware of the financial impact of increased specialization, work continuously to increase the funds available for student assistance.

THE 1973 LEGISLATURE appropriated \$240,306,221 for the University's operating expenses during the 1973-75 biennium. Of that amount, \$185,852,478 was designated for general operations and maintenance, \$13,072,538 for the University Hospitals, \$1,747,532 for the Waseca Technical College, \$2,320,548 for the Crookston Technical College, and \$32,493,034 for new buildings, land, and the rehabilitation of existing buildings. In addition, \$37,313,125 was received in special appropriations, for funding of projects such as special research and extension activities.

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

COMMENCEMENT marks the conclusion only of the student's academic life at the University. As a graduate, he or she is part of its history and part of its future as well. Alumni are urged to continue their relationship with the University through the Minnesota Alumni Association and its college groups.

Alumni and their families and friends will always be welcome here. The University's doors will be open to those who come back to visit and to keep in touch with an important part of their lives.

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

Order of Events

ASSEMBLING OF THE AUDIENCE: As degree candidates and their friends and families reach the Twin Cities campus of the University this evening, they will hear the Frances Miller Brown Memorial Bells being played from Northrop Memorial Auditorium by Mr. Stephen Paulus, B.A., Graduate School.

PRELUDE CONCERT: From 7:00 to 7:30 p.m., Professor Heinrich R. Fleischer, Ph.D., College of Liberal Arts, University Organist, will play.

PROCESSION: At 7:30 p.m. the Mace-Bearer, Professor Alex Kurak, 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	Graduate School

During the procession Professor Fleischer will play:

Festival March Mendelssohn

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

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

INVOCATION (the audience still standing): The Reverend Dennis Stull, Baptist Student Fellowship.

SPEAKING FOR THE UNIVERSITY: President C. Peter Magrath, Ph.D.

COMMENCEMENT ADDRESS: Regents' Professor of History Tom B. Jones, Ph.D.

CONFERRING OF DEGREES: President Magrath 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, Acting Dean Kenneth Keller, Ph.D., Graduate School, will present him or her to President Magrath. Assisting them will be Faculty Marshals Associate Director Ellen L. Betz, Ph.D., Student Personnel, College of Liberal Arts; Assistant Professor Sheila Henry, Ph.D., College of Home Economics; Professor Lawrence C. Merriam, Ph.D., College of Forestry; and Admissions and Records Associate Barbara Foster, Ph.D.

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

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

Acting Dean John A. Goodding, Ph.D., College of Agriculture
Associate Dean Norman S. Kerr, Ph.D., College of Biological Sciences
Dean C. Arthur Williams, Ph.D., College of Business Administration
Associate Dean Donald Z. Woods, Ph.D., Continuing Education and Extension
Assistant Dean Carl L. Bandt, M.S., School of Dentistry
Associate Dean William E. Gardner, Ph.D., College of Education
Dean Richard A. Skok, Ph.D., College of Forestry
Dean Alfred L. Vaughan, Ph.D., General College
Associate Dean Roxana Ford, Ph.D., College of Home Economics
Professor Peter J. Gabel, J.D., Law School
Associate Dean Nils Hasselmo, Ph.D., College of Liberal Arts
Dean N. L. Gault, M.D., Medical School
Dean M. Isabel Harris, Ph.D., School of Nursing
Assistant Dean Frank E. DiGangi, Ph.D., College of Pharmacy
Professor Donald Barber, Ph.D., School of Public Health
Assistant Dean Paul Cartwright, M.S., Institute of Technology
Dean Barbara Knudson, Ph.D., University College

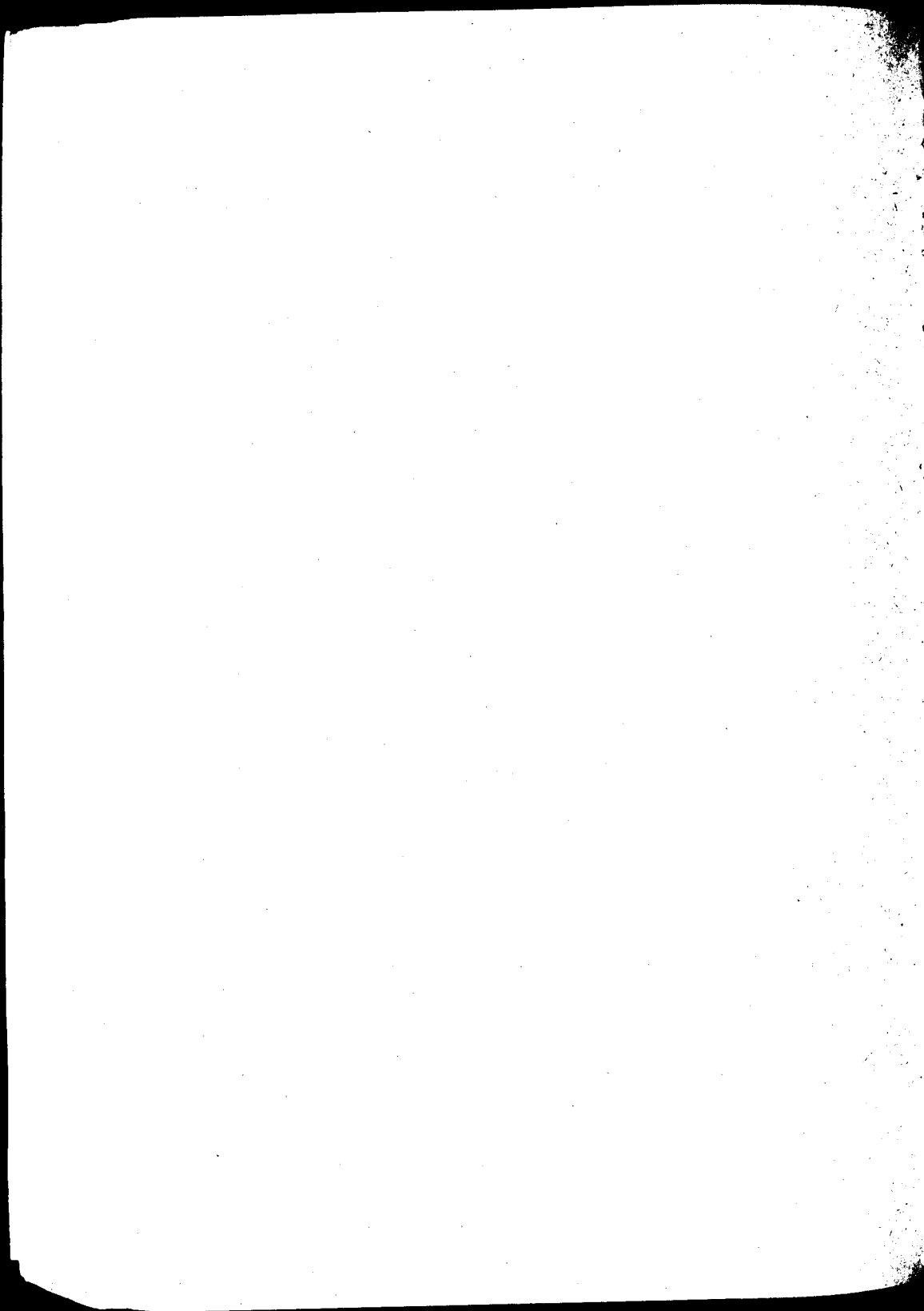
HAIL! MINNESOTA: As Mr. Jorgenson steps to the microphone, the audience will rise and join him in singing the University's Alma Mater:

Minnesota, hail to thee!	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:
Allegro Bach

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

THE PRESIDENT'S RECEPTION follows the ceremony. Please see details on the back cover of this program.



Candidates for Graduation

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

GRADUATE SCHOOL

Doctor of Education

James Allen Couture, Ironton
B.S. '56, St. Cloud State College; M.A. '68, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: Indian Student Informational Needs as Perceived by Teachers: An Analysis of Those Perceptions. Major Adviser: Prof. V. D. Mueller.

Clarke Leroy Edward Damon,
Cumberland, Wis.

B.S. '60, University of Minnesota; M.Ed. '66, Wisconsin State University. Major: Vocational Education. Minor: Supporting Program. Project: An Evaluation of the Instructional Effectiveness of a Mobile Fluid Power Laboratory. Major Adviser: Prof. D. J. Pucel.

Dwaine Edward Ganyo, Montevideo
B.S. '53, M.A. '54, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: A Model for Attendance Improvement in Small High Schools. Major Adviser: Prof. G. F. Alkire.

Kathy Novak, Plattsburgh, N.Y.
B.A. '69, M.S. '70, University of Minnesota. Major: Vocational Education. Minor: Supporting Program. Project: Preferred Job Reinforcers and the Job Satisfaction of Faculty in Minnesota's Area Vocational Technical Institutes. Major Adviser: Prof. M. K. Klaurens.

Helen Thomas Olson, Aitkin
B.S. '67, M.S. '72, St. Cloud State College. Major: Vocational Education. Minor: Supporting Program. Project: The Relationship Between Needs Reinforcer Correspondence and Job Satisfaction of Minnesota Secondary School Office Education Teacher Coordinators. Major Adviser: Prof. C. R. Hopkins.

Dennis Lee Walette
B.S. '63, M.S. '65, Northwestern State College of Louisiana. Major: Vocational Education. Minor: Supporting Program. Project: Criteria for Admission to Undergraduate Distributive Education Teacher Training Programs. Major Adviser: Prof. Jerome Moss, Jr.

Doctor of Philosophy

Donald James Alsum,
Columbia Heights
B.A. '61, Calvin College; M.S. '66, Purdue University. Major: Animal Physiology. Minors: Veterinary Anatomy and Medical Biochemistry. Thesis: Histological, Histochemical and Immunological Characterization of the Epididymis in Male Rhesus Monkey (*Macaca mulatta*). Major Adviser: Prof. A. G. Hunter.

Robert Bryan Armstrong,
Naperville, Ill.
B.S. '69, Washington University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Carbon Black Formation in a Counterflow Diffusion Flame. Major Adviser: Prof. W. E. Ranz.

Austin Keith Auckland,
Sheffield, England
B.S. '53, University of Durham; Dip. Ag. S. '54, D.T.A. '55, University of the West Indies. Major: Plant Breeding. Minor: Supporting Program. Thesis: Inheritance and Interrelationships of Canopy Characteristics and Specific Leaf Weight in Soybeans (*Glycine Max (L.) Merr.*). Major Adviser: Prof. J. W. Lambert.

Karl John Aufderheide, Minneapolis
B.S. summa cum laude '70, M.S. '72, University of Minnesota. Major: Biology. Minor: Supporting Program. Thesis: Cytological Observations of Cytoplasmic Genetic Phenomena in *Saccharomyces cerevisiae*. Major Adviser: Prof. R. G. Johnson.

Shibdas Bandyopadhyay,
Calcutta, India

B.S. '68, M.S. '69, Indian Statistical Institute. Major: Statistics. Minor: Mathematics. Thesis: Classification With Dependent Training Sample. Major Adviser: Prof. S. D. Gupta.

Stephen R. Barkin,
East Meadow, N.Y.

B.B.A. cum laude '69, Hofstra University; M.S. '71, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: An Investigation Into the Factors Affecting Utilization. Major Adviser: Prof. G. W. Dickson.

Tercan Baysan, Turkey

B.S. '68, Middle East Technical University, Ankara. Major: Economics. Minor: Supporting Program. Thesis: Economic Implications of Turkey's Entry Into the Common Market. Major Adviser: Prof. A. O. Krueger.

Izak Benbasat, Istanbul, Turkey

B.A. '69, Robert College; M.S. '71, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: An Experimental Evaluation of the Effects of Information System and Decision Maker Characteristics on Decision Effectiveness. Major Adviser: Prof. G. W. Dickson.

Julyet Aksiyote Benbasat,
Istanbul, Turkey

B.S. '69, Robert College. Major: Biochemistry. Minor: Chemistry. Thesis: Kinetic Studies by Inelastic Light Scattering: The Spontaneous Head-To-Tail Assembly of Bacteriophage T4D. Major Adviser: Prof. V. A. Bloomfield.

Susan Marie Lucas Berget,
Cumberland, Md.

B.S. '69, M.S. '71, Southern Illinois University. Major: Biochemistry. Minor: Chemistry. Thesis: Deoxyribonucleotide Metabolism After Infection of *Escherichia Coli* With Bacteriophage T5. Major Adviser: Prof. H. R. Warner.

Peter Blyton Berget, Minneapolis

B.S. '69, University of Minnesota. Major: Biochemistry. Minor: Supporting Program. Thesis: The Identification of Proteins P48 and P54 as Structural Components of Bacteriophage T4 Basalplates. Major Adviser: Prof. H. R. Warner.

Diarra Sadek Boubacar,

Ouahigouya, Upper Volta

B.A. '65, Macalester College; M.A. '70, University of Minnesota. Major: Industrial Relations. Minor: History. Thesis: Political Change, Rural Transformation, and Development Administration: The Politics of Change and Development in Francophone Africa—With Special Reference to the Upper Volta. Major Adviser: Prof. R. T. Holt.

Robert Edward Bower, Jr., St. Paul

B.S. '65, University of Illinois; M.S. '71, University of Minnesota. Major: Animal Physiology. Minor: Biochemistry. Thesis: Factors Affecting Myometrial Activity in the Pig. Major Adviser: Prof. B. G. Crabo.

Alan Paul Brinton, Bloomington, Ill.

B.A. magna cum laude '68, Eastern Nazarene College. Major: Philosophy. Minor: Supporting Program. Thesis: A Contextual Theory of Singular Terms. Major Adviser: Prof. J. R. Wallace.

Harriet Moriarty Burns, Edina

B.S. '42, M.A. '67, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effect of the Use of a Systematic Behavior Observation Procedure on the Perception of Severe Behavior Problem Children by Teachers. Major Adviser: Prof. F. H. Wood.

William Cacigni, Oak Lawn, Ill.

B.S. Pharm. with honors '70, University of Illinois. Major: Pharmacology. Minor: Biochemistry. Thesis: The Metabolism and Active Excretion of Oxyapurines by Renal Tubules. Major Adviser: Prof. A. J. Quebbemann.

Robert Julius Campbell,
Bismarck, N.D.

B.S. '66, North Dakota State University; M.S. '69, University of Minnesota. Major: Horticulture. Minor: Genetics. Thesis: Self-Incompatibility and Nucleic Acid Synthesis in Pollen Tubes and Styles of *Lilium longiflorum* Thunb. Major Adviser: Prof. P. D. Ascher.

Arline Steiner Caplan, Minneapolis

B.A. magna cum laude '46, M.A. '49, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Characteristics of Patients Hospitalized as Psychotic Obtaining Normal Limits MMPI Profiles. Major Adviser: Prof. R. D. Wirt.

Michael George Carnes,
Duncan, Okla.

B.S. '66, University of Oklahoma; M.S. '69, Oklahoma State University. Major: Plant Physiology. Minor: Biochemistry. Thesis: High Pressure Liquid Chromatography as a Tool for the Rapid Analysis of the Cytokinin Content of the Root Pressure Exudate of Tomato (*Lycopersicon esculentum* Mill.). Major Advisers: Profs. W. A. Brun and M. L. Brenner.

Richard Allan Carver, Bellmawr, N.J.
B.A. '70, Rutgers University. Major: Chemistry. Minor: Supporting Program. Thesis: The Synthesis and Biosynthesis of Pinidine. Major Adviser: Prof. Edward Leete.

Kasarabada Chalapatirao,
Kakinada, India

B.S. '62, Andhra University; B.E. '66, Indian Institute of Science, Bangalore; M.S.E.E. '70, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: On the Design of Nonrecursive Digital Filters and Zeros of Polynomials. Major Adviser: Prof. B. A. Shenoi.

Minkyu Cho

B.A. '56, Occidental College; M.A. '59, University of Minnesota. Major: Political Science. Minor: Economics. Thesis: Codification of International Law. With Emphasis on the International Law Commission of the United Nations. Major Adviser: Prof. C. H. McLaughlin.

Robert Crawford Choep, Jr.,
Berkeley, Calif.

B.A. '67, Harvard College; M.A. '69, San Francisco State College. Major: Psychology. Minor: Internal. Thesis: The Vocational Interests of Lawyers. Major Adviser: Prof. D. P. Campbell.

Christopher Ning-Yue Chow,
Hong Kong

B.A. magna cum laude '68, California Lutheran College. Major: Physics. Minor: Supporting Program. Thesis: Self-Pulsing in Medium-Power He-Ne Lasers. Major Adviser: Prof. William Zimmerman, Jr.

Rosalyn Lindner Cohen,
Plainfield, Ill.

B.A. '69, Illinois Wesleyan University; M.A. '72, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Social Class Differences in the Problem Solving Process: An Integration of Social Organization, Language, and Nonverbal Communication. Major Adviser: Prof. Irving Tallman.

Thomas Barr Courtice, St. Paul

B.S. '65, University of Pittsburgh; M.B.A. '67, Indiana University. Major: Education. Minor: American Studies. Thesis: Analysis of Junior College Transfer Students' Performance and Impact in a Private Liberal Arts College. Major Adviser: Prof. R. E. Eckert.

Luis M. de la Maza,

Ribadesella, Spain

M.D. '66, Universidad de Madrid. Major: Pathology. Minor: Genetics. Thesis: Integration of Oncogenic Viruses in Mammalian Chromatin. Major Adviser: Prof. J. J. Yunis.

Ralph DeLong, Minneapolis

B.S. '66, University of Nebraska. Major: Physics. Minor: Supporting Program. Thesis: A Multiparticle Nilsson Model for ^{24}Mg and ^{26}Mg : Experiment and Theory. Major Adviser: Prof. D. K. Dehnhard.

Everette Eugene Dennis,

Toledo, Ore.

B.S. '64, University of Oregon; M.A. '66, Syracuse University. Major: Mass Communication. Minor: Supporting Program. Thesis: Purloined Papers and Information as Property: A Study of Press-Government Conflict. Major Adviser: Prof. D. M. Gillmor.

Narinder Kumar Dhir,

Ludhiana, India

B.S. '65, Punjab Agricultural University; M.S. '71, University of Minnesota. Major: Forestry. Minor: Genetics. Thesis: A Comparative Study of Inter- and Intra-Provenance Crosses of Eastern Cottonwood (*Populus deltoides* Bartr.). Major Adviser: Prof. C. A. Mohn.

Ahmad Divsheli

D.V.M. '65, University of Tehran; M.S. '70, University of Minnesota. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Role of Turkey Marek's Disease Virus (TMDV) Neoplastic Disease. Major Adviser: Prof. B. S. Pomeroy.

Willia Kay Wiener Ehrlich

B.A. magna cum laude '70, State University of New York at Stony Brook. Major: Educational Psychology. Minor: Supporting Program. Thesis: Formal Properties of Generative Representations. Major Adviser: Prof. W. M. Bart.

Duane John Erdmann, Rochester

B.S. '64, Iowa State University. Major: Chemistry. Minor: Supporting Program. Thesis: The Effect of Particle Size on the Refractive Index of Lead Sulfide Hydro sols. Major Adviser: Prof. E. J. Meehan.

Paul William Erhardt, St. Paul
B.A. '69, University of Minnesota. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Monoquaternary Amines as Pharmacological Probes for the Investigation of the Stereochemical Preferences of Neuromuscular Junction Blockade. Major Adviser: Prof. T. O. Soine.

Margaret Cairns Etter, Minneapolis
B.A. '65, University of Pennsylvania; M.S. '71, University of Delaware. Major: Chemistry. Minor: Internal. Thesis: Solid-State Chemistry and Crystallography of the Two Polymorphs of 1-Methoxy-1,2-Benziodoxolin-3-one. Major Adviser: Prof. J. Z. Gougoutas.

Dennis Robert Falk, Duluth
B.A. '70, Macalester College. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Perspective Taking on Heterogeneous and Homogeneous Problem Solving Groups. Major Adviser: Prof. D. W. Johnson.

Judith Frances Feinleib,
Belmont, Mass.

A.B. '60, Hunter College; M.A. '64, University of Minnesota. Major: Political Science. Minor: History. Thesis: The Politics of Acceptance. Major Adviser: Prof. H. W. Chase.

José Maria Feola,

Buenos Aires, Argentina

Lic. '63, University of La Plata, Argentina; M.S. '61, University of Rochester. Major: Environmental Health. Minor: Biometry. Thesis: Combined Effects of Iodoacetamide, X Rays, and Magnetic Fields on a Murine Ascites Tumor. Major Adviser: Prof. D. E. Barber.

Daniel George Frankel,

Los Angeles, Calif.

B.A. '68, University of California, Berkeley. Major: Child Psychology. Minor: Supporting Program. Thesis: Coordinating a Reach in Visual Space. Major Adviser: Prof. Albert Yonas.

Robert Earl Franz, Jr., Duluth

B.A. magna cum laude '61, M.A. '66, University of Minnesota. Major: Sociology. Minor: Psychology. Thesis: Social Psychological Factors Influencing Success in Job Training. Major Adviser: Prof. D. A. Martindale.

A. Bruce Frederick, Superior, Wis.
B.S. '52, West Chester State; M.Ed. '61, Temple University. Major: Physical Education. Minor: Supporting Program. Thesis: Programmed Movement Instruction and Its Effect on Learning a Complex, Gross Motor Skill. Major Adviser: Prof. J. M. Shick.

Patricia Ann Neaderhouser Friert,
St. Peter

A.B. '64, Cornell University; M.A.T. '65, Yale University. Major: Classics. Minor: Supporting Program. Thesis: Criteria for the Creation of a Two-Year Terminal Course in Latin. Major Adviser: Prof. G. M. Erickson.

Peggy Lynne Cochran Giordano,
St. Louis, Mo.

B.A. '70, University of Missouri; M.A. '72, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: The Juvenile Justice System: The Client Perspective. Major Adviser: Prof. J. P. Clark.

William Bourke Gleason, St. Paul

B.A. '67, Northwestern University; M.S. '70, University of Iowa. Major: Chemistry. Minor: Supporting Program. Thesis: Dinitroxides and the Point Dipole Approximation. Major Adviser: Prof. R. E. Barrett.

Geoffrey Arthur Godfrey,

Abington, Conn.

B.S. '64, University of Connecticut; M.S. '67, University of Minnesota. Major: Ecology. Minor: Supporting Program. Thesis: Behavior and Ecology of American Woodcock on the Breeding Range in Minnesota. Major Adviser: Prof. W. H. Marshall.

Paul Allen Good, Houston, Tex.

B.S.Ch.E. '70, M.S.Ch.E. '71, University of Texas. Major: Chemical Engineering. Minor: Mathematics. Thesis: Gradient Coalescence: Thin Liquid Film Mechanics and Stability. Major Adviser: Prof. W. E. Ranz.

Norma Lee Montague Goode,

Richmond, Va.

A.B. '49, Virginia Union University; M.S.W. '60, Virginia Commonwealth University. Major: Social Work. Minor: Supporting Program. Thesis: Attitudes of Professionalism and Social Work Value Orientations in Undergraduate Social Welfare Majors: A Comparative Study of Professionalism Attitudes and Value Orientations at Two Levels of Professional Social Work Education. Major Adviser: Prof. B. E. Compton.

Sally Jean Gorelnik

B.A. '68, California State College, Los Angeles; M.A. '71, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: The Relationship Between Organizational Context, Organizational Structure, and Organizational Effectiveness. Major Adviser: Prof. T. R. Anderson.

David Bertsch Gray,

East Grand Rapids, Mich.

B.A. '66, Lawrence University; M.A. '70, Western Michigan University. Major: Psychology. Minor: Genetics. Thesis: The Effects of Etiology, Drug and Visual Stimuli on Fixed-Interval Panel Pushing in a Population of Down's and Non-Down's Syndrome Retarded Males. Major Adviser: Prof. T. I. Thompson.

D. James Grimmer, Bloomington

B.S. '64, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Item Analysis Comparison of Bright and Average Children of Equal Mental Ages on the Stanford-Binet Intelligence Scale and Validation of the Differences Found. Major Adviser: Prof. M. C. Reynolds.

Paul Duane Gunderson, Ada

B.S. cum laude '64, M.A. '69, Ball State University. Major: Education. Minor: Supporting Program. Thesis: The Development of a Dynamic Simulation Model Used for Expanded Discrepancy Information Generated as a Result of Vocational Education Program Operation. Major Adviser: Prof. G. B. Swanson.

Moshe Gur, Tel Aviv, Israel

B.S. '68, Hebrew University. Major: Physiology. Minor: Electrical Engineering. Thesis: Color Coding by Retinal Ganglion Cells in the Ground Squirrel Eye. Major Adviser: Prof. R. L. Purple.

Vernon Leonard Guyer, Minneapolis

B.S. '52, Montana State University; M.S. '57, North Dakota State University. Major: Forestry. Minor: Supporting Program. Thesis: Longitudinal Liquid Permeability of Coniferous Wood: Relationship to Properties of Aqueous Alcohol Binary Solutions. Major Adviser: Prof. R. L. Hossfeld.

Baruch Halachmi, Jerusalem, Israel

B.A. '68, Hebrew University; M.A. '72, Tel Aviv University. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Diffusion Approximations to Multi-Server Queueing Systems. Major Adviser: Prof. W. R. Franta.

Diane Seldon Hill, Troy, N.Y.

B.A. '65, Mount Holyoke College. Major: Psychology. Minor: Educational Psychology. Thesis: The Effects of Laboratory Education on Morale and Productivity in a Student-Centered Psychology Class. Major Adviser: Prof. M. D. Dunnette.

David Kermit Holger, Rushford

B.A.E. with high distinction '70, M.S. '71, University of Minnesota. Major: Aerospace Engineering. Minor: Supporting Program. Thesis: The Fluid Mechanics of the Edgetone. Major Advisers: Profs. G. S. Beavers and T. A. Wilson.

Chi Ping Hu, Taiwan

B.S. '68, Tunghai University. Major: Physics. Minor: Supporting Program. Thesis: An NMR Study of Sublattice Magnetization of Mn_2Sb . Major Adviser: Prof. W. V. Weyhmann.

Andrea P. Hunt, Minneapolis

B.S. '67, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Changes in Gender-Related Vocational Interests Over a 30 Year Time Interval. Major Adviser: Prof. D. P. Campbell.

Sara Hester Hunter, St. Paul

B.A. cum laude '59, Macalester College. Major: Psychology. Minor: Supporting Program. Thesis: Self-Regulation of Fingertip Temperature Increases in Normal and Learning-Disabled Children. Major Adviser: Prof. J. N. Butcher.

Gregory Keith Iverson,

Glasgow, Mont.

B.A. '68, Concordia College; M.A. '70, Rice University. Major: Linguistics. Minor: Scandinavian. Thesis: Ordering Constraints in Phonology. Major Adviser: Prof. G. A. Sanders.

Rita Jeruchimowicz, Chicago, Ill.

B.A. '68, University of Chicago. Major: Child Psychology. Minor: Supporting Program. Thesis: How Children and Adults Describe Temporal and Locative Relations Between Events by Means of Coordinate Structures With the Conjunction *and*: Sentential and Phrasal Conjunction. Major Adviser: Prof. M. C. Templin.

Ronald Albert Jobe,

Edmonton, Alberta, Canada

B.Ed. '64, University of Alberta; M.A. '67, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Factors That Influence Children's Free Choices of Topics for Creative Writing. Major Adviser: Prof. N. C. Chase.

Helen Lucille Lokos Johnsen
B.A. '45, Brooklyn College; M.A. '59,
University of Minnesota. Major: Theatre
Arts. Minor: Supporting Program. Thesis:
The Plays of Gici Ganzini Granata at the
Children's Theatre of the Angelicum. Major
Adviser: Prof. J. D. Hurrell.

Lorin Smalley Jordau, Perham
B.A. '67, Carleton College. Major: Psy-
chology. Minor: Supporting Program.
Thesis: Effects of Varying the Temporal
Predictability of Aversive Stimulation for
Human Subjects. Major Adviser: Prof.
D. T. Lykken.

Hugh Frederick Juergens, Stillwater
B.S.B. '68, M.S. '72, University of Minne-
sota. Major: Business Administration.
Minor: Supporting Program. Thesis: On
the Selection and Generation of Process
Groupings and File Consolidations for
Information Processing Systems Design.
Major Adviser: Prof. G. W. Dickson.

Pamela Kay Kaufman, Houston, Tex.
B.A. with honors '68, University of Texas,
Austin. Major: Genetics. Minor: Psy-
chology. Thesis: Genetic and Neuropsy-
chological Factors in Handedness and
Eye Dominance. Major Adviser: Prof. V.
E. Anderson.

Ben-Gang Kao, Kiangsi, China
B.S.E. '65, M.S.E. '67, National Taiwan
University. Major: Mechanics. Minor:
Mathematics. Thesis: Rectilinear Shearing
States in Elastic Solids and Simple
Fluids. Major Adviser: Prof. R. L. Fosdick.

Kenneth Wright Kelsey, Madelia
B.S. '62, Mankato State College; M.A.
'66, University of Minnesota. Major: Edu-
cation. Minor: Supporting Program. Thesis:
Performance Criteria Analysis of the Ef-
fects of Operant Methods on Verbal Be-
haviors of Student Teachers. Major Ad-
viser: Prof. C. H. Boeck.

James Bernard Kenney
B.S. '65, St. Procopius College. Major:
Educational Psychology. Minor: Genetics.
Thesis: Individual Differences in Locus
of Control Among Emotionally Disturbed
Male Adolescents. Major Adviser: Prof.
B. E. Balow.

Prakash Rammathpur Keshaviah,
Mysore, India

B.Tech. '67, Indian Institute of Tech-
nology; M.S. '70, University of Minnesota.
Major: Mechanical Engineering. Minor:
Supporting Program. Thesis: Hemolysis
in the Accelerated Flow Region of an
Abrupt Contraction. Major Adviser: Prof.
P. L. Blackshear.

Kangjin Kim, Seoul, Korea
B.S. '69, Seoul National University. Major:
Chemistry. Minor: Supporting Program.
Thesis: Low Energy Electron Impact
Spectra of Some Saturated Hydrocarbons.
Major Adviser: Prof. Sanford Lipsky.

Jacqueline Bunn Kinderlehrer,

Panorama City, Calif.
B.A. '67, Mills College; M.A. '73, Univer-
sity of Minnesota. Major: Philosophy.
Minor: Internal Supporting Program.
Thesis: Aesthetic and Non-Aesthetic Prop-
erties. Major Adviser: Prof. M. M. Eaton.

John Curtis Klink, Olivet, Ill.
B.S.Ed. '66, M.S.Ed. '67, Eastern Illinois
University. Major: Geography. Minor: Soil
Science. Thesis: A Global Solar Radiation
Climatology for Minneapolis-St. Paul.
Major Adviser: Prof. R. H. Skaggs.

Edward T. B. Kosberg,

Elizabeth, N.J.
B.A. '63, Columbia University; M.A. '67,
University of Minnesota. Major: History.
Minor: Supporting Program. Thesis:
"Fancy Franchises": Non-Uniform Elec-
toral Reform Proposals in Great Britain,
1847-1867. Major Adviser: Prof. J. L.
Altholz.

Jeanette Rae Kraemer,

Brookfield, Wis.
A.B. '65, College of St. Catherine; A.M.
'67, Indiana University. Major: Education.
Minor: French. Thesis: Development and
Validation of *Ecrivains Les Verbes*—Part
I-V: A Special-Purpose Programmed Sup-
plementary Text Designed for the Seventh
Grade Level, Teaching the Formation and
Use in Creative Sentence Paragraph Com-
position of Four Regular French-IR Verbs.
Major Adviser: Prof. D. L. Lange.

Linda Ann Kreffing
B.A. magna cum laude '68, M.A. '71, Uni-
versity of Minnesota. Major: Industrial
Relations. Minor: Supporting Program.
Thesis: A Just Noticeable Pay Increase:
Possible Determinants. Major Adviser:
Prof. T. A. Mahoney.

Peter Jon Kreisman, Ashland, Ore.
B.S.Phys. with great distinction '65, Stan-
ford University. Major: Physics. Minor:
Mathematics. Thesis: The Heat Capacity
Problem in Solid He³. Major Adviser:
Prof. A. M. Goldman.

Raphael Martin Kudela,

West Wyoming, Pa.
B.A. '58, King's College; M.A. '60, Fair-
field University. Major: Educational Psy-
chology. Minor: Educational Adminis-
tration. Thesis: Attitudes of Selected
Secondary School Students Toward Drugs
and Drug Use. Major Adviser: Prof. F.
H. Wood.

William Edward Kuhn,
Greenfield, Ind.

B.S. '68, Purdue University; M.S. '73, University of Minnesota. Major: Plant Breeding. Minor: Supporting Program. Thesis: The Effect of Yield Component Conversion and Maize Single Crosses. Major Adviser: Prof. R. E. Stucker.

Timothy John Kurtti, St. Paul

B.A. '65, University of Minnesota. Major: Entomology. Minor: Supporting Program. Thesis: The Development of Insect Tissue Culture Systems for Studying Intracellular Symbiotes. Major Adviser: Prof. M. A. Brooks.

James Branch Lane, Henderson, N.C.

B.A. '70, University of North Carolina. Major: Psychology. Minor: Supporting Program. Thesis: Imagination and Personality: The Multi-Trait Investigation of a New Measure of Imagery Control. Major Adviser: Prof. J. N. Butcher.

Raymond Henry Larson, Hector

B.A. cum laude '61, M.A. '66, University of Minnesota. Major: Classics. Minor: German. Thesis: The Syntax of the Participle in Thucydides. Major Adviser: Prof. D. C. Swanson.

Robert Louis Levin,

Philadelphia, Pa.

B.S. '60, Temple University. Major: American Studies. Thesis: Building an American Identity: The Social Visions of Selected Contemporary American Architects. Major Adviser: Prof. D. W. Noble.

Ralph Edward Lewis,

Packwood, Wash.

B.A. '66, Washington State University; M.A. '68, Western Washington State College. Major: Geography. Minor: Supporting Program. Thesis: Widening Views of Landscape Appreciation: A Minnesota Case Study. Major Adviser: Prof. J. R. Borchert.

Michael Thean-Chong Liang,

Kelang, Malaysia

B.Ed. '66, National Taiwan Normal University; M.S. '70, Springfield College. Major: Physical Education. Minor: Physiology. Thesis: Effects of Aerobic Training Stimulus With the Combinations of Intensity, Duration and Frequency on Cardiorespiratory and Humoral Responses. Major Adviser: Prof. J. F. Alexander.

James Wilcox Lichtenberg,

Columbus, Ohio

A.B. '69, Miami University. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Stochastic Process Analysis of Psychotherapeutic Interaction. Major Adviser: Prof. D. H. Blocher.

Clarence Binns Lindsay, Jr.,

Chicago, Ill.

B.A. '65, Illinois State University. Major: English. Minor: Internal Supporting Program. Thesis: Character and Morality in Conrad's Fiction. Major Adviser: Prof. L. H. Unger.

Charles Anthony Lonie,

River Falls, Wis.

B.A. '61, Randolph-Macon College; M.A. '62, University of Notre Dame. Major: American Studies. Thesis: Accumulations of Silence: Survivor Psychology in Vonnegut, Twain, and Hemingway. Major Adviser: Prof. M. C. Turpie.

Elsie Mae Lovsted, Brainerd

B.S. '67, University of Minnesota. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Initial Studies on the Preparation of Carbocyclic Analogs of Bufadienolides. Major Adviser: Prof. Ole Gisvold.

Vaughn Martin Lueck, Minneapolis

B.A. '65, M.A. '68, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: Stepwise Migration and Migration by Stages: Exploration of a Background Assumption. Major Adviser: Prof. J. W. Webb.

Sham Sunder Luthra,

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M.A. '54, Punjab University; M.S. '69, University of Alberta. Major: Operations Research. Minor: Mathematics. Thesis: Stochastic Optimization of Multipurpose Single Reservoir System. Major Adviser: Prof. S. R. Arora.

Gerald Michael Maas, Superior, Wis.

B.S. with highest honor '68, M.A. '71, University of Minnesota. Major: Physical Education. Minor: Supporting Program. Thesis: The Energy Cost of Selected Weight Training Exercises. Major Adviser: Prof. R. C. Serfass.

Michael John Maher, Springfield, Ill.

B.A. cum laude '69, Loyola University; M.A. '71, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Hegel Rejected: Ludwig Büchner, Rudolf Haym, Eduard von Hartmann, and the Retreat from German Idealism, 1855-70. Major Adviser: Prof. O. P. Pflanze.

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B.S. '68, University of Illinois; M.A. '72, Loyola University. Major: Pharmacy Administration. Minor: Supporting Program. Thesis: The Stages and Process of Socialization in the Profession of Pharmacy. Major Adviser: Prof. H. F. Kabat.

Paul Stephen Maro

B.A. '69, University of East Africa; M.A. '71, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: Population and Land Resources in Northern Tanzania: The Dynamics of Change, 1920-1970. Major Adviser: Prof. P. W. Porter.

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B.S. '65, Wisconsin State University, Superior; M.A. '70, University of Minnesota. Major: Mass Communication. Minor: Supporting Program. Thesis: News Images of Presidential Candidates, 1920-1924: A Survey of Three Major Newspapers. Major Adviser: Prof. W. E. Emery.

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B.S.Ed. '71, M.S.Ed. '72, State University of New York, Oswego. Major: Vocational Education. Minor: Supporting Program. Thesis: Perceptions of Educators of the Deaf Toward Career Education Goals for Secondary Level Deaf Students. Major Adviser: Prof. G. I. Swanson.

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B.A. '68, Swarthmore College; M.A. '70, University of Pennsylvania. Major: Child Psychology. Minor: Psychology. Thesis: The Development of Binocular Convergence in Infants. Major Adviser: Prof. P. H. Salapatek.

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B.A. '68, Sulpician Seminary of the Northwest; M.Ed. '72, University of Washington. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Differential Effect of Three Training Models Upon the Acquisition and Transfer of Interpersonal Communication Skills. Major Adviser: Prof. D. H. Blocher.

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B.A. '61, M.A. '64, Southern Illinois University. Major: Scandinavian. Minor: English. Thesis: Moberg's Immigrant Novels and the *Journals* of Andrew Peterson: A Study of Influences and Parallels. Major Adviser: Prof. J. A. Simpson.

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B.S. '56, Bishop College; M.S. '58, Prairie View A & M College. Major: Education. Minor: Supporting Program. Thesis: A Comparison of a Traditional Approach and a Self-Directed Approach for Developing Production Typewriting Skills. Major Adviser: Prof. C. R. Hopkins.

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B.A. '66, University of Delhi, India. Major: Economics. Minor: Supporting Program. Thesis: Spillovers in Wage Determinations in U.S. Manufacturing Industries. Major Adviser: Prof. C. A. Sims.

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B.S. '68, M.S. '72, University of Minnesota. Major: Entomology. Minor: Supporting Program. Thesis: Corn Rootworm Populations and Damage to Corn in Field Plots Receiving Heavy Applications of Animal Manures. Major Adviser: Prof. H. C. Chiang.

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B.A. '55, University of Illinois; M.A. '59, Johns Hopkins University. Major: American Studies. Thesis: Eastering: A Study of the Historical, Cultural and Experimental Factors Involved in the Growing Interest in Oriental Religious Thought and Practices in the United States. Major Adviser: Prof. D. W. Noble.

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B.S. '59, Indiana State College; M.Ed. '66, Shippensburg State College. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparative Study of the Impact of Curriculum Interventions on the Career Development of High School Students. Major Advisers: Profs. L. S. Hansen and C. A. Parker.

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B.S. '68, University of Wisconsin, Stevens Point. Major: Microbiology. Minor: Biochemistry. Thesis: Study of the Structure and Replication of Mengovirus and its RNA. Major Adviser: Prof. P. G. Plagemann.

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B.A. '68, Ursinus College. Major: Psychology. Minor: Educational Psychology. Thesis: Rate and Accuracy in Test-Taking Behavior. Major Adviser: Prof. D. J. Weiss.

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B.Tech. '69, Indian Institute of Technology; M.S.Ch.E. '72, University of Minnesota. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Reactions in a Dispersed Liquid-Liquid System. Major Adviser: Prof. W. E. Ranz.

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B.S. '66, M.A. '71, University of Minnesota. Major: Linguistics. Minor: Spanish. Thesis: Functional Structure in Natural Language. Major Adviser: Prof. G. A. Sanders.

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B.S. '65, University of Illinois. Major: Chemistry. Minor: Supporting Program. Thesis: Interaction of Ionic and Covalent Configurations for Sodium Hydride, Potassium Hydride, and Magnesium Monohydride Cation. Major Adviser: Prof. D. G. Truhlar.

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B.A. '67, M.A. '69, Northern Arizona University. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Investigation of Cerebral Dominance and Intersensory Integration Skills as Factors Involved in Reading. Major Advisers: Profs. B. R. Egeland and R. A. Weinberg.

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B.S. '69, M.S. '71, University College, Cork. Major: Food Science and Industries. Minor: Biochemistry. Thesis: Effect of Food Components on Growth and Metabolism of *Bacillus Stearothermophilus*. Major Adviser: Prof. F. F. Busta.

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B.A. '64, University of Minnesota, Morris. Major: Biochemistry. Minor: Microbiology. Thesis: Magnesium-Fluoride Interrelationships During Acute Magnesium Deficiency. Major Adviser: Prof. Leon Singer.

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B.S.S. '51, City College of New York. Major: Sociology. Minor: Philosophy. Thesis: The Disengagement Theory of Aging, 1960-1970: A Case Study of Scientific Controversy. Major Adviser: Prof. D. A. Martindale.

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B.S. '71, Johns Hopkins University. Major: Civil Engineering. Minor: Supporting Program. Thesis: Theoretical Aspects of Fluvial Meandering and Braiding. Major Adviser: Prof. A. G. Anderson.

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B.S. '66, University of Notre Dame. Major: Biochemistry. Minor: Chemistry. Thesis: Mechanism of Oxidative Regeneration of Native Lysozyme From Reduced Lysozyme. Major Adviser: Prof. D. B. Wetlaufer.

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Dip. '62, Dr. der Handelwissenschaften '66, University of Economics, Vienna. Major: Agricultural Economics. Minor: Economics. Thesis: Economic Analysis of Oilseed Markets in Thailand. Major Adviser: Prof. P. M. Raup.

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B.S.Ag. '68, Andhra Pradesh Agricultural University; M.S. '70, Indian Agricultural Research Institute. Major: Genetics. Minor: Supporting Program. Thesis: Evaluation of the Backcross Breeding Methods. Major Adviser: Prof. R. E. Comstock.

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B.A. '59, University of Minnesota; M.A. '62, University of Michigan. Major: Political Science. Minor: Economics. Thesis: The Conversion of Categorical Data Block Grants: A Case Study of the 314(d) Block Grant in the Partnership for Health Act. Major Adviser: Prof. R. T. Holt.

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B.S. '62, Universidade de Minas Gerais; M.S. '68, Instituto Tecnológico de Aeronautica. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Local and Average Transfer Coefficients in Plate Fin and Tube Exchanger Configurations. Major Adviser: Prof. E. M. Sparrow.

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B.A. with high honors '63, University of Rochester; M.A. '64, New York University. Major: English. Minor: Supporting Program. Thesis: Women in Wycherley: Their Role in His Social Criticism. Major Adviser: Prof. R. E. Moore.

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B.S. '65, M.S. '68, University of Minnesota. Major: Food Science and Nutrition. Minor: Biochemistry. Thesis: The Peptidase System of Lactic Streptococci, Its Cellular Location and Its Activity on Hydrolysis Products From Rennet Curd. Major Adviser: Prof. H. A. Morris.

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B.A. '63, M.A.T. '64, College of St. Thomas. Major: Education. Minor: Art History. Thesis: Aldous Huxley: An Analysis of "Awareness" in His Educational Psychology. Major Adviser: Prof. Ayers Bagley.

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B.A. '55, B.S. '61, M.A. '69, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Attachment and Child Abuse: A Study of Social History Indicators Among Mothers of Abused Children. Major Adviser: Prof. R. D. Wirt.

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B.S. '64, Gannon College. Major: Microbiology. Minor: Biochemistry. Thesis: The Immunochemistry of Swine Immunoglobulin. Major Adviser: Prof. Y. B. Kim.

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B.S. '65, Wisconsin State University; M.S. '68, Purdue University. Major: Agricultural Economics. Minor: Economics. Thesis: The Hours of Work Supply Decision: A Study of Metropolitan and Rural Minnesota Nurses. Major Adviser: Prof. W. K. Bryant.

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B.S. '64, Panjab University, Chandigarh; M.S. '66, Punjabi University, Patiala. Major: Physics. Minor: Supporting Program. Thesis: A Study of the Osmium Isotopes by the (P,T) Reactions. Major Adviser: Prof. N. M. Hintz.

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B.A. '67, M.A. '68, University of Missouri. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Fire Fighters' Dramatis Persona: A Study of Private, Projected and Public Character From the Perspective of Rhetorical Vision. Major Adviser: Prof. E. G. Bormann.

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B.A. '65, City College of New York. Major: Philosophy. Minor: Political Science. Thesis: A Theory of Legal Exceptions. Major Adviser: Prof. G. B. Matthews.

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B.S.Phys. '64, M.S. '66, Ohio State University. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Anode Heat Flux in High Current Arcs. Major Adviser: Prof. Emil Pfender.

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B.A. '68, M.A. '71, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: Location Analysis of High-Volume Skiing in Western United States. Major Adviser: Prof. E. C. Mather.

Stephen Albert Snyder,
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B.A. '64, Macalester College; M.A. '66, University of Hawaii. Major: Political Science. Minor: Supporting Program. Thesis: A Comparative Study of Political Protest and Violence in India. Major Adviser: Prof. R. N. Blue.

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B.S.E.E. '66, Massachusetts Institute of Technology; M.S.E.E. '69, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Superparamagnetic Particles in Magnetic Fluids. Major Adviser: Prof. W. F. Brown, Jr.

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B.A. '62, Otterbein College; M.A. '64, Bowling Green State University. Major: Theatre Arts. Minor: Supporting Program. Thesis: The "Joint Star" Tours of Edwin Booth and Lawrence Barrett. Major Adviser: Prof. A. H. Ballet.

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B.A. '55, Drake University; M.A. '64, Colorado State College. Major: Theatre Arts. Minor: Supporting Program. Thesis: Manifestations of "Sexuality" on the American Stage as Illustrated by Selected Plays From 1960-1969. Major Advisers: Profs. R. D. Moulton and A. H. Ballet.

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B.S. magna cum laude '68, College of St. Scholastica; M.A. '72, University of Minnesota. Major: Philosophy. Minor: Supporting Program. Thesis: A Chronological Analysis of Rawls' Principles of Justice. Major Adviser: Prof. H. E. Mason.

David Loren Strawn, Royal Oak,
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B.A. '62, Olivet Nazarene College; M.A. '67, Wayne State University. Major: Education. Minor: Mathematics. Thesis: A Comparative Study of the Effect of Computer Extended Instruction on the Achievement of Calculus Students. Major Adviser: Prof. J. E. Stochl.

Madhusoodanan Sunderesan

B.S. '64, M.S., '65, University of Bombay. Major: Chemistry. Minor: Supporting Program. Thesis: The Rearrangements of *cis*- and *trans*-2,4-Diphenylthietane, 1,1-Dioxides. Major Adviser: Prof. R. M. Dodson.

Donald Avery Sylvan, Chicago, Ill.

B.A. '70, Northwestern University. Major: Political Science. Minor: Supporting Program. Thesis: Models for Foreign Policy Choice: The Case of Foreign Assistance to Developing Nations. Major Adviser: Prof. D. B. Bobrow.

Gerilyn G. Tandberg, Leeds, N.D.

B.S. '63, Minot State College; M.A. '69, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: A Comparison-Contrast of Witchcraft and Sorcery in Selected English and American Plays From 1604-1624 and From 1945-1970. Major Adviser: Prof. G. E. Bogusch.

Lorraine Marian Simmons Taylor,
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B.A. '51, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Comparison of Self-Esteem and Self-Concept of Academic Ability in Three Groups of Black Adolescents. Major Advisers: Profs. R. F. Weatherman and G. F. Alkire.

Pamela Anne Rollefson Terry,
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B.A. with distinction '70, Stanford University. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effect of Orthographic Transformations Upon Speed and Accuracy of Semantic Categorization. Major Adviser: Prof. S. J. Samuels.

Edward Mathias Van Eeckhout,
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B.Geol.E. '67, University of Minnesota; M.S. '68, University of Chicago. Major: Geo-Engineering. Minor: Supporting Program. Thesis: The Effect of Moisture on the Mechanical Properties of Coal Mine Shales. Major Adviser: Prof. Charles Fairhurst.

David Ainsworth Veeder, Rochester
B.A. '62, M.A. '65, University of Minnesota. Major: German. Minor: Comparative Literature. Thesis: Satire in the Austrian Trilogy of Fritz Von Herzmanovsky-Orlando. Major Adviser: Prof. G. H. Weiss.

Robert Roelofs Verbrugge, Roseville
B.A. '69, University of Minnesota; M.S. '70, University of Sussex, England. Major: Psychology. Minor: Supporting Program. Thesis: The Comprehension of Analogy. Major Adviser: Prof. J. J. Jenkins.

David Jonathan Vold, Tuscaloosa,
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B.A. '69, Pacific Lutheran University. Major: Education. Minor: Philosophy. Thesis: The Secularism of George Jacob Holyoake and Its Implication for the Secular Study of Religion. Major Adviser: Prof. R. H. Beck.

Philemon Washington, Jersey City,
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B.S. '71, Cornell University. Major: Genetics. Minor: Supporting Program. Thesis: The Characterization and Localization of the Repetitive DNA of the Algerian Hedgehog, *Erinaceis (Aesthycinus) Algius*. Major Adviser: Prof. J. J. Yunis.

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Doctor of Philosophy in Surgery

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Master of Arts

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B.B.A. '71, University of Iowa. Field of Concentration: Business Administration. Major Adviser: Prof. R. K. Gaumnitz.

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B.S.B. with high distinction '72, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. N. Cardozo.

Thomas Morley O'Connor, Jr.,

Coon Rapids

B.A. '66, Canisius College; M.A. '70, Indiana University. Field of Concentration: Business Administration. Major Adviser: Prof. G. L. Collins.

Anthony Robert Ozark,

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

Mahesh Chander Pondicherry,

Secunderabad, India

B.E. '69, Sri Venkateswara University. Field of Concentration: Business Administration. Major Adviser: Prof. F. J. Beier.

Scotland Bruce Rutherford,

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B.S.B. '69, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Jayant Vasant Saraph, Minneapolis

B.Tech. '69, Indian Institute of Technology, Bombay. Field of Concentration: Business Administration. Major Adviser: Prof. Ivan Ross.

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B.S.E.E. with distinction '66, University of North Dakota. Field of Concentration: Business Administration. Major Adviser: Prof. P. F. Jessup.

Man-bing Sze, Hong Kong

B.S.B. with distinction '73, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. R. J. Holloway.

Richard Alex Wallen, Minneapolis

B.S. '64, Iowa State University; M.S. '68, Ph.D. '72, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. C. Hastings.

Jacob Walter, Ramat Gan, Israel

B.S. '72, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Douglas J. Westervelt, Minneapolis

B.S. '67, University of Wisconsin, Madison. Field of Concentration: Business Administration. Major Adviser: Prof. O. C. Walker, Jr.

Robert Eugene Wolff, Edina

B.S. '59, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Richard Austin Yore,

Baton Rouge, La.

B.S. '68, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. D. V. Harper.

Master of Fine Arts

Stephen Lee Chenette,

Toronto, Ontario, Canada

B.Mus. '56, Curtis Institute of Music. Field of Concentration: Music. Major Adviser: Prof. R. A. Schuessler.

Cheryl Wray Staats Dodd

B.A. cum laude '68, Midwestern University. Field of Concentration: Music. Major Adviser: Prof. B. D. Weiser.

Thomas Donald Rossin, Minneapolis

B.M.E. '72, Valparaiso University. Field of Concentration: Music. Major Advisers: Profs. R. A. Schuessler and T. S. Lancaster.

Axel Knut Theimer, Vienna, Austria

B.A. '71, St. John's University. Field of Concentration: Music. Major Advisers: Profs. T. S. Lancaster and Johannes Riedel.

Master of Mechanical Engineering

David A. Hauch, St. Paul
B.S.M.E. '67, Tri-State College. Major:
Mechanical Engineering. Minor: Support-
ing Program. Major Adviser: Prof. D. A.
Frohrib.

Master of Public Administration

John Leroy Brenna, Minneapolis
B.S. '54, University of Minnesota. Field
of Concentration: Public Administration.
Major Adviser: Prof. J. E. Jernberg.

David J. Duddleston
B.A. '71, University of Wisconsin. Field
of Concentration: Public Administration.
Major Adviser: Prof. G. A. Warp.

Master of Science

Joseph Abdallah, Jr., Brooklyn, N.Y.
B.S. '70, Pace College. Major: Chemistry.
Minor: Mathematics. Thesis: Studies in
Electron Atom Scattering. Major Adviser:
Prof. D. G. Truhlar.

Habib Amamov, Sahline, Tunisia
Dip. d'Ing. Agr. '71, Institut d'Agronomie
de Tunis. Field of Concentration: Agri-
cultural Economics. Major Adviser: Prof.
J. W. Hammond.

Donna Claire Hoffman Amundson,
Minneapolis

B.A. '69, University of Minnesota. Major:
Ecology. Minor: Statistics. Thesis: Pollen
and Charcoal Analysis of Spruce-Pine
Boundary in Minnesota. Major Adviser:
Prof. H. E. Wright.

Herbert Clayton Anderson, Osakis
B.S. '71, University of Minnesota. Major:
Food Science and Industries. Minor: Bio-
chemistry. Thesis: Fortification of Fluid
Milk Products With L-Ascorbic Acid. Ma-
jor Adviser: Prof. E. L. Thomas.

Loren Howard Appell, Rosemount
D.V.M. '66, Iowa State University. Field
of Concentration: Theriogenology. Major
Adviser: Prof. E. C. Mather.

Raymond Earl Arndt, St. Paul
B.S. '67, University of Minnesota. Field
of Concentration: Forestry. Major Adviser:
Prof. R. A. Skok.

Alfred Nathan Axelrod,
Silver Spring, Md.
B.S. '71, University of Minnesota. Field
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Prof. H. L. Hansen.

Katherine Rae Bailey, Bloomington
B.S.N. with high distinction '58, Univer-
sity of Minnesota. Field of Concentration:
Nursing. Major Adviser: Prof. Barbara
Redman.

Joan Evelyn Meyers Baker,
Burnsville
B.S. cum laude '67, University of North
Dakota. Field of Concentration: Business
Administration. Major Adviser: Prof. T.
R. Hoffmann.

Ki Moon Bang, Seoul, Korea
B.S. '60, M.P.H. '66, Seoul National Uni-
versity. Field of Concentration: Biometry
and Health Information Sciences. Major
Adviser: Prof. J. E. Bearman.

William Joe Barnes, Golden Valley
B.S.Ed. '66, University of Nebraska; Cert.
in P.T. '67, Taylor University Medical
Center, Dallas. Field of Concentration:
Physical Therapy. Major Adviser: Prof.
J. D. Allison.

Darrell Lee Bigalke, Little Falls
B.S. '71, University of Minnesota. Major:
Food Science and Industries. Minor: Bio-
chemistry. Thesis: Relationship Between
Conditions of Production and Handling of
Raw Milk on the Farm and Bacteriological
Study. Major Adviser: Prof. S. R. Tatini.

Mariaedna Gonzales de Carrasco,
Bogotá, Colombia
Ind.Eng. '72, Universidad de Los Andes.
Major: Operations Research. Minor: Statis-
tics. Thesis: A Model for Tower Spotting
of Overhead Transmission Lines. Major
Adviser: Prof. S. R. Arora.

Hsiao-Chun Chan, Minneapolis
B.S. '69, National Taiwan Normal Univer-
sity. Field of Concentration: Animal Phys-
iology. Major Adviser: Prof. A. G.
Hunter.

Pearl Hung-Chu Cheung,

Hong Kong

B.A. '70, Augsburg College. Major: Biochemistry. Minor: Chemistry. Thesis: A Kinetic Study of the Exchange of Cholesterol Between Isolated Rabbit Lipoproteins and Erythrocytes. Major Adviser: Prof. I. D. Frantz, Jr.

Phannipha Chumsri,

Bangkok, Thailand

B.S. '69, Mahidol University, Bangkok. Major: Pharmacognosy. Minor: Biochemistry. Thesis: Pyrethrins and Larvicidal Activity of Chrysanthemum Plants and Tissue Cultures. Major Adviser: Prof. E. J. Staba.

Thomas E. Clasen, Watwatosa, Wis.
B.S. '71, University of Wisconsin. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

James Craig Clinite, Minneapolis

B.S.Pharm. '65, University of Minnesota. Field of Concentration: Hospital Pharmacy. Major Adviser: Prof. H. F. Kabat.

Bruce A. Conway, St. Paul

B.A. '73, Macalester College. Field of Concentration: Mechanics. Major Adviser: Prof. W. H. Warner.

Bruce Bevington Davis,

St. Louis Park

B.S., B.Math. with high distinction '72, University of Minnesota. Major: Computer and Information Sciences. Minor: Electrical Engineering. Thesis: Simulation Models of Multiprogramming Systems Allowing Concurrent Tasks. Major Adviser: Prof. D. L. Boyd.

Lyle David Dockendorf, Minneapolis

B.Phys. '71, University of Minnesota. Major: Physics. Minor: Mathematics. Thesis: Analysis of He³-He⁴ Mixture Specific Heat Data. Major Adviser: Prof. William Zimmerman, Jr.

William Waldie Donald,

Freeport, N.Y.

B.S. cum laude '72, State University of New York at Stony Brook. Major: Plant Physiology. Minor: Biochemistry. Thesis: Organic Volatiles as a Measure of Fungal Growth in Stored Soybean and Corn Seed. Major Adviser: Prof. C. J. Mirocha.

John Dimitrios Efstathiou,

Athens, Greece

B.S.Ag. '72, Aristotelian University of Thessaloniki, Greece. Major: Food Science. Minor: Biochemistry. Thesis: Mass Production and Preservation of Lactic Starter Bacteria. Major Adviser: Prof. L. L. McKay.

James Carl Engstrom, Delavan, Wis.

B.S. '70, University of Illinois. Major: Geophysics. Minor: Mathematics. Thesis: Secular Variation of the Geomagnetic Field as Recorded in Recent Lake Sediments. Major Adviser: Prof. S. K. Banerjee.

Walter Harry Erikson, Minneapolis

B.S. '70, Kent State University. Field of Concentration: Physical Therapy. Major Adviser: Prof. M. O. Mundale.

Cheryl Lee Frank, Stillwater

B.S. '70, Mankato State College. Field of Concentration: Nursing. Major Adviser: Prof. M. I. Harris.

David Steven Fryd, Jamaica, N.Y.

B.A. '72, Queens College. Field of Concentration: Biometry. Major Adviser: Prof. E. A. Johnson.

Rick Charles Fultz, Hammond, Ind.

(*post obitum*)

B.S. '66, Purdue University. Major: Physics. Minor: Mathematics. Thesis: Emily—A Fortran Program for the Calculation of Angular Correlations of Nuclear Gamma Radiations. Major Adviser: Prof. B. F. Bayman.

John Richard Gustafson, Duluth

B.Phys. with distinction '69, University of Minnesota. Field of Concentration: Physics. Major Adviser: Prof. B. F. Bayman.

Donald Edward Harasyn,

St. Louis Park

B.Met.E. with high distinction '73, University of Minnesota. Major: Metallurgy and Materials Science. Minor: Physics. Thesis: Fabrication of Flexible Superconducting Nb₃Al Tape. Major Adviser: Prof. L. E. Toth.

Carol Jean Schnaidt Hill,

Grand Forks, N.D.

B.S.N. '62, University of North Dakota. Field of Concentration: Nursing. Major Adviser: Prof. M. I. Harris.

Sandra M. Proehl Hill, Stewart

B.S.N. with distinction '67, University of Minnesota. Field of Concentration: Psychiatric Nursing. Major Adviser: Prof. Barbara Redman.

Gordon Alan Israelson, Bloomington
B.S. '72, United States Military Academy.
Major: Physics. Minor: Internal. Thesis:
Analysis of Electron Beam Interactions
With the Upper Atmosphere for Mass
Density and N₂ Number Density Measure-
ment. Major Adviser: Prof. J. R. Winckler.

Anthony A. Jachimowicz, Edina
B.S. '71, University of Minnesota. Field
of Concentration: Chemistry. Major Ad-
viser: Prof. V. G. Mossotti.

Charles Leonard Jackson, St. Paul
B.S.B. '69, University of Minnesota. Field
of Concentration: Business Administration.
Major Adviser: Prof. W. C. Rudelius.

Helen Hannay Jensen, St. Paul
B.S. '68, Carleton College. Major: Agri-
cultural Economics. Minor: Economics.
Thesis: The Incidence of Minnesota's
Sales Tax, Individual Income Tax and
Corporation Income Tax. Major Adviser:
Prof. W. K. Bryant.

Bruce Charles Johnson, St. Paul
B.Math. '71, University of Minnesota.
Field of Concentration: Computer and
Information Sciences. Major Adviser: Prof.
K. M. Brown.

Catherine Dougherty Johnson,
Minneapolis
B.A. '54, St. Catherine's College. Major:
Zoology. Minor: Genetics. Thesis: Cell
Contact in the Cellular Slime Mold,
Dictyosteleum Discoideum. Major Adviser:
Prof. R. G. Johnson.

Helene Louise Johnson, Minneapolis
B.S. '52, University of Minnesota. Field
of Concentration: Nursing. Major Adviser:
Prof. Barbara Redman.

Neil Laine Johnson, Minnetonka
B.Phys. '70, University of Minnesota.
Major: Physics. Minor: Mathematics.
Thesis: Program TARGON: A Mini-Com-
puter Based, Real Time, Data Acquisition
and Peak Height Analysis for a Mass
Spectrometer. Major Adviser: Prof. R. O.
Pepin.

Junelle Evelyn Jokinen, Minneapolis
B.S., B.S. '72, University of Minnesota.
Major: Food Science and Industries.
Minor: Nutrition. Thesis: Losses in the
Nutritive Value of Soy Protein During
Thermal Processing. Major Adviser: Prof.
G. A. Reineccius.

William Henry Kojola, Minneapolis
B.S. cum laude '71, University of Minne-
sota. Field of Concentration: Genetics.
Major Adviser: Prof. V. W. Woodward.

Marcia Hartnett Koukkari, Afton
B.S. '58, Michigan State University; M.S.
with distinction '72, University of Minne-
sota. Field of Concentration: Nursing.
Major Adviser: Prof. Barbara Redman.

Shiu-Tseng Emily Kwok, Hong Kong
B.S. '73, University of Minnesota. Major:
Biochemistry. Minor: Microbiology. Thesis:
Regeneration of Disulfide Proteins Under
Denaturing Conditions. Major Adviser:
Prof. D. B. Wetlaufer.

Cheng-Yei Lee, Minneapolis
B.S. '71, Chung Yuan Christian College of
Science and Engineering. Field of Con-
centration: Physics. Major Adviser: Prof.
N. M. Hintz.

Wade Scott Little, Minneapolis
B.S. cum laude '64, Vanderbilt Univer-
sity. Field of Concentration: Ecology.
Major Adviser: Prof. R. K. Maxwell.

Mui Kay Maggie Liu, Hong Kong
B.A. summa cum laude '72, University of
Minnesota. Field of Concentration: Agri-
cultural-Economics. Major Adviser: Prof.
R. P. Dahl.

William David Livsey, Saratoga
D.D.S. '63, University of the Pacific.
Major: Dentistry. Minor: Anatomy. Thesis:
A Comparison of Root Canal Instru-
mentation and Filling Techniques. Major
Adviser: Prof. J. R. Jensen.

Michael Alois Loesch, Farmington
B.S. with distinction '70, University of
Minnesota. Field of Concentration: Fore-
stry. Major Adviser: Prof. T. B. Knopp.

Laurence L. Louters,
Memphis, Tenn.
B.A. '71, Dordt College. Major: Chemistry.
Minor: Biochemistry. Thesis: Biosynthesis
of Azetidine-2-Carboxylic Acid. Major Ad-
viser: Prof. Edward Leete.

Michael Steven Majeski, Hastings
B.S. '70, University of Minnesota. Field
of Concentration: Forestry. Major Adviser:
Prof. A. C. Mace, Jr.

Jure Manfreda, Ljubljana, Yugoslavia
M.D. '63, University of Ljubljana. Field
of Concentration: Epidemiology. Major
Adviser: Prof. L. M. Schuman.

Melvin Leroy Matson, New London
B.S. with distinction '70, University of
Minnesota. Major: Fisheries. Minor:
Statistics. Thesis: The Effects of Hydro-
gen Sulfide on the Various Life History
Stages of Brook Trout *Salvelinus Fonti-
nalis*. Major Adviser: Prof. L. L. Smith.

Susan Ann Smith Matson, Felton
B.S. '70, University of Minnesota. Field
of Concentration: Home Economics. Major
Adviser: Prof. G. A. Esteros.

Stephen John Maxson, Roseville
B.S. '68, University of Minnesota. Major:
Ecology. Minor: Wildlife. Thesis: Activity,
Home Range, and Habitat Usage of Female
Ruffed Grouse During the Egg-
Laying, Incubation, and Early Brood
Periods as Determined by Radiotelemetry.
Major Adviser: Prof. D. F. Parmelee.

James A. McLinn, Minneapolis
B.A. '70, University of Michigan. Major:
Physics. Minor: Astrophysics. Thesis: A
Novel Resistance Bridge for Measurement
of Temperature in the Vicinity of 1°K.
Major Adviser: Prof. William Zimmerman,
Jr.

Richard Thomas Melson,
Forty Fort, Pa.
B.A. magna cum laude '68, Haverford
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Prof. O. H. Ibarra.

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Susan Kay Nash, Breckenridge
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Katherine Aby Nielsen, Minneapolis
B.S. '69, Skidmore College. Field of Con-
centration: Nursing. Major Adviser: Prof.
Barbara Redman.

John Olof Nordin, Brooklyn Center
B.S. '73, University of Minnesota. Major:
Soil Science. Minor: Statistics. Thesis:
The Mapping and Characterization of the
Soils and Vegetation of the Little Sioux
Burn Area in Northeastern Minnesota.
Major Adviser: Prof. D. F. Grigal.

Stephen John Palubicki, Winona
B.A. '67, St. Mary's College. Field of
Concentration: Animal Science. Major
Adviser: Prof. A. G. Hunter.

Harilal Laljibhai Patel, Valam, India
B.S. '58, Indian Institute of Technology.
Field of Concentration: Organic Chemis-
try. Major Adviser: Prof. W. E. Noland.

Patricia Ann Paulus, Minneapolis
B.A. '73, University of Minnesota. Field
of Concentration: Environmental Health.
Major Adviser: Prof. K. J. Caplan.

Gary Lynn Pruitt, Bloomington
B.A. cum laude '71, St. Olaf College.
Major: Biochemistry. Minor: Microbiology.
Thesis: The Anisotropic Labeling of the
Membrane of *Micrococcus lysodeikticus*.
Major Adviser: Prof. J. S. Anderson.

Roberto G. Ravetti
B.M.E. '72, University of Minnesota. Ma-
jor: Metallurgy and Materials Science.
Minor: Related Fields. Thesis: Correl-
lations Between Toughness, Fracture
Markings, and Losses in Bisphenol-A
Polycarbonate and Polymethylmetacrylate
at High Strain Rates. Major Adviser: Prof.
T. E. Hutchinson.

Gary John Rocklitz, St. Paul
B.A.E.M. '72, University of Minnesota.
Major: Mechanics. Minor: Aerospace
Engineering. Thesis: Flow Interdepend-
ence in a Non-Homogeneous Lung. Major
Adviser: Prof. T. A. Wilson.

Serge Joseph Romulus,
Port-au-Prince, Haiti
Ing. '71, University of Coahuila, Mexico.
Field of Concentration: Animal Science.
Major Adviser: Prof. L. E. Hanson.

Paul Charles Schreckenberger,
Buffalo, N.Y.
B.S. '70, State University of New York,
Buffalo. Major: Medical Technology.
Minor: Microbiology. Thesis: Rapid
Methods for Biochemical Testing of
Anaerobic Bacteria. Major Adviser: Prof.
D. J. Blazevic.

Barbara Catherine Schultz,
East Northport, N.Y.
B.S. with distinction '72, Cornell Univer-
sity. Major: Food Science and Industries.
Minor: Biochemistry. Thesis: Structure
and Composition of Bovine Casein Micelle
Sub-Units. Major Adviser: Prof. C. V.
Morr.

Larry Michael Sirvio, Minneapolis
B.A. '70, University of Minnesota. Major:
Chemistry. Minor: Biochemistry. Thesis:
Amidino Nitroxides: Potential Spin Labels.
Major Adviser: Prof. R. E. Barnett.

Stanley Lynn Smith, Grand Marais
B.S. with distinction '72, University of
Minnesota. Major: Fisheries. Minor: Ento-
mology. Thesis: Early Life History of the
Steelhead in a North Shore Stream. Major
Adviser: Prof. T. F. Waters.

John Chester Snyder, Edison, Ohio
B.S. '67, Baldwin-Wallace College. Major:
Horticulture. Minor: Plant Physiology.
Thesis: The Response of Several Potato
Cultivars to the Herbicide EPTC. Major
Adviser: Prof. R. E. Nylund.

Jeanne Ellen Swing, LaCrosse, Wis.
B.S.N. '71, Viterbo College. Field of Concentration: Nursing. Major Adviser: Prof. M. I. Harris.

Carolyn Christine Synerholm,
Los Altos, Calif.

B.A. '69, Lawrence University. Major: Ecology. Minor: Biometry. Thesis: The Chydorid Cladocera From Surface Lake Sediments in Minnesota and North Dakota. Major Adviser: Prof. H. E. Wright, Jr.

Thandalai Radhakrishna Venkatesan,
Madras, India

B.S. '60, University of Madras; M.S. '64, Annamalai University. Major: Physics. Minor: Internal. Thesis: K-Ar Dating of Terrestrial and Lunar Samples. Major Adviser: Prof. R. O. Pepin.

Roy Patrick Walmsley,
Kingston, Ontario, Canada

B.S. '69, Queen's University. Field of Concentration: Physical Therapy. Major Adviser: Prof. H. V. Skowland.

Jane Marie Wills, Leonard, N.D.
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Elizabeth Jean Lundberg Yelland,
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B.S. with distinction '72, University of Minnesota. Field of Concentration: Business Administration. Major Adviser: Prof. O. C. Walker.

John Thomas Young, Austin, Tex.
B.S. '66, B.S. '68, D.V.M. '69, Texas A & M University. Field of Concentration: Veterinary Pathology. Major Adviser: Prof. Victor Perman.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

Robert William Jones, Fargo, N.D.
B.S. '71, Stevens Institute of Technology. Major: Chemistry. Minor: Biochemistry. Thesis: 1-Lithio-1-Methylthio-3-Methoxyallene: A Novel Nucleophilic Acylating Agent. Major Adviser: Prof. R. M. Carlson.

William C. Kuster, Boulder, Colo.
B.S. '68, Southeast Missouri State College. Major: Chemistry. Minor: Internal. Thesis: Fluorescent Europium Complexes of Tris (2-Pyridylmethyl) Amine. Major Adviser: Prof. L. C. Thompson.

David Forbes Reid,
Sault Ste. Marie, Ontario, Canada
B.S. '69, Michigan Technological University. Major: Geology. Minor: Internal. Thesis: The Quaternary Geology of the Lake Johanna Region South-Central Minnesota. Major Adviser: Prof. R. W. Marsden.

Master of Science in Agricultural Engineering

Larry Dean Jacobson, Pelican Rapids
B.Ag.E. '72, University of Minnesota. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: Microbial and Particulate Concentrations in a Turkey House Environment. Major Adviser: Prof. K. A. Jordan.

Gary Andrew Nyquist,
Dubuque, Iowa
B.S.Ag.E. '68, North Dakota State University. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: The Effect of Physical Barriers on Airborne Tractor Exhaust Noise. Major Adviser: Prof. C. E. Schertz.

Master of Science in Chemical Engineering

Glenn Kazuo Hori, Honolulu, Hawaii
B.S. '73, University of Southern California. Major: Chemical Engineering. Minor: Mathematics. Thesis: The Platinum Catalyzed Oxidation of Carbon Monoxide. Major Adviser: Prof. L. D. Schmidt.

Master of Science in Civil Engineering

Alan John Fandrey, St. Paul
B.C.E. '73, University of Minnesota.
Field of Concentration: Civil Engineering.
Major Adviser: Prof. C. E. Bowers.

Master of Science in Dentistry

Stig Kjell-Ake Osterberg
Tandläkare '70, School of Dentistry,
Stockholm. Major: Dentistry. Minor: Anatomy.
Thesis: Microbial Population Shifts
in Developing Dental Plaques. Major Adviser:
Prof. L. E. Folke.

James Ray Wade, El Paso, Tex.
B.A. '64, Oklahoma Baptist University;
D.D.S. '67, University of Missouri. Major:
Dentistry. Minor: Public Health. Thesis:
Developing an Empirical Approach to
Discerning Management Orientation in
the Dental Profession. Major Adviser:
Prof. L. H. Meskin.

Master of Science in Dermatology

Lawrence Lee Bushkell,
Fort Wayne, Ind.
B.A. '67, M.D. '70, Indiana University.
Major: Dermatology. Minor: Genetics.
Thesis: The Localization of Chromosomal
Breaks in T and B Lymphocytes in Fanconi's
Anemia: A Preleukemic Disease.
Major Adviser: Prof. R. W. Goltz.

Master of Science in Electrical Engineering

Bernardo Carrasco,
Bogotá, Colombia
Ing.Elec. '70, Universidad de Los Andes.
Major: Electrical Engineering. Minor:
Operations Research. Thesis: Optimal
Generation Expansion of Power Systems.
Major Adviser: Prof. V. D. Albertson.

David Chaur-Ming Lin,
Taichung, Taiwan
B.S.E. '71, National Taiwan University.
Field of Concentration: Electrical Engineering.
Major Adviser: Prof. L. L. Kinney.

Mark Steven Lundstrom
B.E.E. with high distinction '73, University
of Minnesota. Major: Electrical Engineering.
Minor: Mathematics. Thesis:
Magnetoelastic Surface-Wave Devices.
Major Adviser: Prof. W. P. Robbins.

Marc Charles Sachet,
Grenoble, France
Ing.Elec. '71, National Polytechnic Institute,
Grenoble. Field of Concentration:
Electrical Engineering. Major Adviser:
Prof. S. J. Kahne.

Master of Science in Geo-Engineering

John Stanley Rother, Eyota
B.Min.E. '57, University of Minnesota.
Field of Concentration: Geo-Engineering.
Major Adviser: Prof. D. H. Yardley.

Thomas H. Stocker, Pittsburgh, Pa.
B.A. '71, B.S. '73 University of Pittsburgh.
Major: Geo-Engineering. Minor:
Business Administration. Thesis: Sodium
Silicate Spray Impregnation of Tunnels in
the St. Peter Sandstone. Major Adviser:
Prof. C. R. Nelson.

Master of Science in Industrial Engineering

Arthur F. Greenwood, St. Cloud
B.S. '67, Michigan State University. Field
of Concentration: Industrial Engineering.
Major Adviser: Prof. J. S. White.

Bruce Donald Hanson, Jr.,
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B.Met.E. '68, University of Minnesota.
Field of Concentration: Industrial Engi-
neering. Major Adviser: Prof. J. S. White.

Eduardo Weinstein, Chile
Ing.Elec.Mec., '71, Universidad Tecnica del
Estado. Field of Concentration: Industrial
Engineering. Major Adviser: Prof. J. S.
White.

Master of Science in Mechanical Engineering

Nihat Cur, Turkey
B.S. '72, Robert College. Major: Mechani-
cal Engineering. Minor: Fluid Mechanics.
Thesis: Thermal Conductivity of Hollow
Glass Microsphere Insulation. Major Ad-
viser: Prof. E. M. Sparrow.

Robert Donald MacDonald III,
Stillwater
B.M.E. with distinction '72, University
of Minnesota. Major: Mechanical Engi-
neering. Minor: Biomedical Engineering.
Thesis: A Study of Atherosclerotic Plaque
Solubility. Major Adviser: Prof. E. A.
Fletcher.

Master of Science in Medicine

MAYO GRADUATE SCHOOL OF MEDICINE

Ernest Laurence Egan,
Dublin, Ireland
M.D. '66, Royal College of Surgeons;
D.C.H. '68, National University of Ire-
land. Major: Medicine. Minor: Hematol-
ogy. Thesis: The Effect of Surgical Oper-
ation on Certain Tests Used to Diagnose
Intravascular Coagulation and Fibrinoly-
sis. Major Adviser: Prof. E. J. Bowie.

Dietlind Liselotte Wahner-Roedler,
Berlin, Germany
M.D. '66, Free University of Berlin. Ma-
jor: Medicine. Minor: Hematology. The-
sis: The Cobalt Excretion Test as an In-
dex of Iron Absorption and as a Diag-
nostic Test for Iron Deficiency. Major
Adviser: Prof. J. M. Kiely.

Peter Emil Friedell, Chicago, Ill.
B.S. '65, University of Michigan; M.D.
'69, Chicago Medical School. Major:
Medicine. Minor: Hematology. Thesis:
Evaluation of a Quantitative Bleeding
Time Test. Major Adviser: Prof. E. J.
Bowie.

Master of Science in Mineral Engineering

Louis Pierre Gignac,
Disraeli, Quebec, Canada
B.S. '73, Laval University. Field of Con-
centration: Mineral Engineering. Major
Adviser: Prof. D. H. Yardley.

Master of Science in Neurosurgery

MAYO GRADUATE SCHOOL OF MEDICINE

Vance Douglas MacDonald,
Las Vegas, Nev.
M.D. '63, University of Michigan. Major:
Neurosurgery. Minor: Related Fields.
Thesis: Histochemical Studies in the Zone
of Ischemia Following Middle Cerebral
Artery Occlusion in Cats. Major Adviser:
Prof. F. W. Kerr.

Master of Science in Orthopedic Surgery
MAYO GRADUATE SCHOOL OF MEDICINE

Robert Hannon Fitzgerald, Jr.,
Rochester

B.S. '63, University of Notre Dame; M.D. '67, University of Kansas. Major: Orthopedic Surgery. Minor: Microbiology. Thesis: Contamination of the Surgical Wound in the Operating Room. Major Adviser: Prof. L. F. Peterson.

Michael B. Wood, Rochester
B.A. '65, Franklin and Marshall College; M.S., C.M. '69, McGill University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Dose-Dependent Variations in the Effect of Parathyroid Hormone on Serum Phosphate Levels in Adult Dogs. Major Adviser: Prof. P. J. Kelly.

Georges-Henri Laflamme,
Quebec, Canada

B.A. '63, Seminaire de Quebec; M.D. '68, Laval University. Major: Orthopedic Surgery. Minor: Pathology. Thesis: Effect of a High Neutral Phosphate Diet on Bone and Soft Tissue. Major Adviser: Prof. M. R. Coventry.

Master of Science in Physical Medicine and Rehabilitation

Ali Türkyılmaz Özel,
Istanbul, Turkey

M.D. '54, University of Ankara. Major: Physical Medicine and Rehabilitation. Minor: Anatomy. Thesis: Muscle Spindle of the Human Tongue and Its Function. Major Adviser: Prof. F. J. Kottke.

Master of Science in Physical Medicine and Rehabilitation
MAYO GRADUATE SCHOOL OF MEDICINE

Mehrsheed Sinaki, Rochester
M.D. '67, Tehran University. Major: Physical Medicine and Rehabilitation. Minor: Physiology. Thesis: Relationship of Muscle Strength to Mineral Content of Bone in Normal Subjects. Major Adviser: Prof. G. K. Stillwell.

Master of Science in Urology
MAYO GRADUATE SCHOOL OF MEDICINE

Richard Louis Conn,
Albuquerque, N.M.

B.A. '63, Brown University; M.D. '67, Indiana University. Major: Urology. Minor: Physiology. Thesis: The Use of Radioisotopes in the Measurement of Residual Urine. Major Adviser: Prof. D. C. Utz.

Master of Social Work

Gerald Joseph Guerrero,
Bensenville, Ill.

B.A. '70, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. P. W. Chommie

William Joseph Rodgers,
Minneapolis

B.A. '73, University of Minnesota. Field of Concentration: Social Work. Major Adviser: Prof. Richard Sterne.

Master of Social Work
UNIVERSITY OF MINNESOTA, DULUTH

Dudley Dissanayake, Srilanka
B.A. '60, University of Ceylon. Field of
Concentration: Social Work. Major Ad-
viser: Prof. J. F. Jones.

Specialist Certificate in Education

Robert Emerson Clappier
B.S. '49, Winona State College; M.S. '57,
North Dakota State College. Field: Gen-
eral Educational Administration. Major
Adviser: Prof. V. D. Mueller.

Sr. Elinore Davis, Minneapolis
B.A. '63, Rosary College; M.S. '71, Pur-
due University. Field: Secondary School
Administration. Major Adviser: Prof. N.
C. Nickerson.

John Beman Edwards, St. Paul
A.B. '60, M.A. '63, San Jose State Col-
lege. Field: Secondary School Adminis-
tration. Major Adviser: Prof. N. C. Nick-
erson.

Kenneth Frederick Holley,
Milwaukee, Wis.

B.A. '59, Concordia Senior College;
M.Ed. '66, University of Maryland. Field:
Secondary School Administration. Major
Adviser: Prof. N. C. Nickerson.

Viola Monyette Johnson,
Minneapolis

B.S. '55, Bluefield State College; M.A.
'71, University of Minnesota. Field: Ele-
mentary School Administration. Major
Adviser: Prof. V. L. Hendrix.

Pamela Ann Katzman, Annandale
B.A., B.S. with distinction '65, Univer-
sity of Minnesota. Field: Mathematics
Education. Major Adviser: Prof. D. C.
Johnson.

Sr. Bernadette Marie Longtin,
Philadelphia, Pa.

B.A. '61, Rosemount College; M.A. '68,
Villanova University. Field: General Cur-
riculum and Supervision. Major Adviser:
Prof. N. C. Nickerson.

Daniel Walter Reichow, Minneapolis
B.A. '67, Wisconsin State University;
M.A. '73, University of Minnesota. Field:
Special Education. Major Adviser: Prof.
D. G. Force, Jr.

Jerald Roy Shannon, St. Paul
B.S. '58, M.A. '72, University of Minne-
sota. Field: Elementary School Adminis-
tration. Major Adviser: Prof. G. F.
Alkire.

Thomas Wilhelm Sundell,
Minneapolis

B.A. with honors '67, University of Nor-
thern Iowa; M.A. '70, University of Min-
nesota. Field: Special Education. Major
Adviser: Prof. M. C. Reynolds.

George Clement Zabee, Elk River
B.S. '51, St. Cloud State College; M.A.
'59, University of Minnesota. Field: Gen-
eral Educational Administration. Major
Adviser: Prof. N. C. Nickerson.

COLLEGE OF AGRICULTURE

Bachelor of Landscape Architecture

Gordon Paul Anderson, Cokato
Michael John George Arend,
Rochester
Thomas James Brinda, Minneapolis

*Margaret Anne Palm, Proctor,
with high distinction*
*Marjorie Elaine Pitz, River Forest,
Ill., with distinction*

Bachelor of Science

Philip John Anderson, Cambridge
Judson Mark Armstrong, Columbia
Heights
*John Earl Biermann, Minneapolis,
with distinction*
James Anthony Borst, Rochester
*David Andrew Erdahl, Hopkins,
with distinction*
Gary Steven Hagen, Barnum
Clinton Gerome Halvorson, Plato
Kenneth Lee Heidlebaugh, Spring
Valley
*Shih Wei Kao, Taipei, Republic of
China, with distinction*
Steven Hollis Ladd, A.A., Sleepy
Eye
*Brian McKenzie Laing, Minneapolis,
with distinction*
*James Harold Mareck, Melrose,
with distinction*

Bruce James Mathiason, Walnut
Grove
*Rolland James Nevins, Taunton,
with high distinction*
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apolis
*Harvey Lee Peterson, Cokato, with
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William Dean Rostedt, Kensington
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*Penny Irene Sugden, St. Paul, with
high distinction*
Gary Douglas Vaughan, Brantford,
Canada
James Irvin Vermilya, St. Charles
Kendall Aaron Zaffke, Backus

Master of Agriculture

Philip Thomas Morrow, B.A.,
Eau Claire, Wis.

COLLEGE OF AGRICULTURE AND COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Agricultural Business Administration

Donald James Mathison, Belgrade
David Richard Peschiutta,
Minneapolis

David John Peterson, Sleepy Eye
*Gary Albert Redmann, Stewart,
with distinction*

COLLEGE OF BIOLOGICAL SCIENCES

Bachelor of Science

*David Eric Adson, Rochester,
summa cum laude*

Kenneth Dale Anderson, A.A.,
Monticello

Kim Arthur Anderson, Hudson
 Bruce K. Anthony, St. Paul
 Kent William Boyum, Mankato
 Jeffrey Warner Bryan, St. Paul
 Gregory James Dovolis, Edina
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*Lynda Schaller Dye, Wonevoc,
 Wis., summa cum laude*
 Richard Kasmer Dykoski, Minneapolis
 Douglas Alan Fern, Detroit Lakes
 Kathleen Ann Gross, A.A., Virginia
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 Bradley Paul Jahnke, Bricelyn
 Amy Doran Keppel, Minneapolis
 David Koroshec, Gilbert
 Daniel Paul Kuechenmeister, St.
 Paul
*Bruce William Kuhlmann, Melrose,
 magna cum laude*
 Leo Gregory Lehmicke, St. Paul

Stephen Mark Medin, Willmar
*Craig Thomas Nelson, Mahtomedi,
 summa cum laude*
 Daryl Ernest Nelson, New Rich-
 mond, Wis.
 Robert Tom Nelson, Minneapolis
*Michael John Plencner, Warren,
 cum laude*
*Mariawaty Santosa, Jakarta,
 Indonesia, summa cum laude*
 Duane Charles Skar, Aitkin
 Larry Joseph Squillace, Virginia
 Mary Patricia Stadtherr,
 Minneapolis
 Mark Knowles Stein, St. Louis Park
 Margaret Jean Stevens, Falcon
 Heights
 Robert George Tinsley, Hibbing
 Bradley Francis Tracy, Rochester
 Lynda Lee Wallsmith, Madison

COLLEGE OF BUSINESS ADMINISTRATION

Bachelor of Science in Business

Joseph Richard Adrian, South St.
 Paul
 William R. Althoff, Minneapolis
 Donald Walter Arndt, Waseca
*Dean Allan Bailif, Lakeville, with
 distinction*
 Paul Howard Barros, Minneapolis
 Gary Carlton Bauer, Excelsior
 Tim Leonard Bauer, Hastings
 Lynette M. Beck, Minneapolis
 Lynn Henry Becklin, Cambridge
 Michael David Bernick, Minne-
 apolis
 Randy Eugene Bickmann, St. Louis
 Park
*Meredith Louise Boeker, St. Paul,
 with distinction*
 Gregory Byron Bogenschutz, B.A.,
 Minnesota Lake
 Edward Bruce Bohaty, Willow River
 Dean Jerome Borghorst, St. Paul
 Warren Bracke, Arden Hills
 Mark Gaylord Brataas, Rochester
 John R. Brumbaugh, Minneapolis
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 apolis, with distinction*
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 Marcia Anne Marie Christensen,
 Roseville
 Deborah Jo Christopher, McLean,
 Va.
 Robert Bruce Cody, A.A., Burnsville
 James Lowell Cohen, St. Louis Park
 Hector Cristiani, San Salvador,
 El Salvador
 Roger Allen Dagen, Minneapolis
 Charles Peter Dalquist, Edina
 Michael Joseph Dwyer, Minneapolis
 Gregory Bruce Elden, Minneapolis
 Michael Eugene Fehrman, A.A.,
 St. Paul
 Dennis Francis Foley, Hopkins
 Phillip Richard Franzen, Minne-
 apolis
 Craig Alan Fuss, St. Paul
 Ronald Jerome Gay, Chaska

Colleen Marie Gormley, Minneapolis, with distinction
Donna Louise Gravesen, St. Paul, with distinction
Debra Jean Griebel, Pipestone, with high distinction
 Ivan J. Grimm, Norwood
 David Ray Haertzen, Coon Rapids
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Jeffrey Lynn Hanson, St. Paul, with distinction
 Kenneth L. Harrell, North St. Paul
 John Richard Harris, Roseau
Kenneth W. Haugen, A.A., New Hope, with high distinction
 Gregory Wayne Hayden, Edina
Alan Douglas Henriksen, Roseville, with distinction
 Robert Bruce Henrikson, Minneapolis
 Oberdon Louis Heston, A.A., Owatonna
 Roy Richard Hewitt, Minneapolis
 Michael James Hilbelink, B.S., Mound
Richard John Hokenson, B.A., Anoka, with distinction
 Rickard R. Holtmeier, Victoria
 Akémi Honda, Zama, Kanagawa, Japan
 Robert William Hupp, Minneapolis
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 Richard Edward Kesteven, B.A., Minneapolis
Robert Tatlow Knopke, New Ulm, with distinction
Alan Mark Kotula, Walker, with high distinction
 Richard C. Kouri, Minneapolis
 Kerry Michael Krause, Rockford
 Paul Alan Kulhanek, Hibbing
 Michael Paul Lebens, St. Paul
Kent Allan Lee, Howard Lake, with distinction
 Steven Charles Lenhart, A.A., St. Paul
 Frank John Loth, Hopkins
 LeRoy Sheridan Lyons, Jr., Wayzata
 James A. Mallinger, Minneapolis
 David Eugene Malmstedt, St. Paul
 Raymond John Mardell, St. Paul
 Tedd William Matzke, Circle Pines
 William Bryan McWhite III, Minneapolis
 Donn Robert Merrill, Minneapolis
 John H. Myers, Minneapolis
 Gregory Paul Nelson, Minneapolis
 Mark Lawrence Nelson, St. Louis Park
Gerolynn Kohrs Neyland, Lake City, with distinction
Kenneth Robert Nilsestuen, Minneapolis, with distinction
 Richard Michael Niznik, Minneapolis
 Robert Glen O'Brien, Richfield
 Douglas Gottfried Olson, Minneapolis
 Rebecca Jeanne Lind Olson, Minneapolis
 Roland O. Olson, Minneapolis
 Douglas Kent Palmer, Lake Elmo
Gregory Lowell Parsons, Minneapolis, with high distinction
 Gerald E. Pitzen, St. Paul
 Dana Alexander Place, Owatonna
 James M. Poulton, Roseville
Jeffrey Edward Poythress, Hopkins, with distinction
 Patrick Thomas Prunty, Andover, S.D.
 Jeffrey John Robertson, A.A., St. Paul
 Matthew Lawrence Rowles, Minneapolis
 Myroslaw Samilo, B.A., Buffalo, N.Y.
 Abu Bakare Samusi, A.A., Oyan, Nigeria
 John A. Schatschneider, Spring Lake Park
 Steven George Schjølberg, Minneapolis
 Mark Jacob Schultz, St. Paul
 David Luther Sollid, Bloomington
 George Emmit Snyder II, Roseville
 Ronald William Splett, B.E.E., Apple Valley
 Roger Edward Stoeckman, Glencoe

Charles Thomas Suss, A.A.,
Worthington
William John Thalhuber, St. Paul
James Peter Thielen, Minneapolis
Margaret Mary Thies, Long Lake
James Douglas Thomas, B.A., Rich-
field
Gary Dean Tillery, Killeen, Tex.,
with distinction
Hoa Thien Vu, Saigon, South Viet-
nam

Brenda Kay Watson, Brainerd
John Patrick Whaley, St. Paul
Benjamin Orubon Wilcox, Ikuru
Town, Andoni-Opobo, Nigeria
*Roger Edwin Worm, Chaska, with
distinction*
Geraldine Ann Zak, Little Falls
Deborah Ann Zappetillo, Minne-
apolis

CONTINUING EDUCATION AND EXTENSION

Fellow in Management of Administrative Services Certificate

Milton James Carr, St. Paul

Senior Business Administration Certificate

Lyle Jerran Bergal, Duluth

Richard William Halvorson, Inver
Grove Heights

Undergraduate Development Certificate in Electrical Engineering—135 Credits

Darrell Anderson Otte, Farmington

James Francis Zalazar, Blaine

Undergraduate Development Certificate in Engineering and Science—90 Credits

John Charles Hanssen, North
St. Paul

SCHOOL OF DENTISTRY

Bachelor of Science

Joan Carol Buehrer, St. Paul
*Robert James Mann, Wayzata,
with high distinction*

Byron George Rowell, Jr., Minne-
apolis

Doctor of Dental Surgery

Douglas Leo Anderson, B.A., Will-
mar
Thomas William Bro, Stewartville
Joan Carol Buehrer, St. Paul
Benge Robert Daniel, Jr., B.A.,
Lubbock, Tex.
Timothy Brekke Durtsche, B.S.,
Minneapolis

Robert Edgar Eng, B.A., St. Paul
Jon Stanley Falkowski, Minneapolis
Gary Wayne Gustavson, B.S., North-
brook, Ill.
Greg Karl Koch, B.A., St. Paul
Edward Thomas McNiece, B.S.,
Minneapolis

Robert James Mohs, B.A., B.S.,
South St. Paul
Timothy Everett Thompson, Min-
neapolis

Donald Roy Torgerson, B.A., Duluth
Donald Wayne Wenker, B.S.,
Crosby, N.D.

COLLEGE OF EDUCATION

Bachelor of Science

- Thomas Ward Anderson, B.A., Min-
neapolis, with high distinction*
*Linda Lee Axmark, Bloomington,
with distinction*
*David Edward Backman, Maple-
wood, with distinction*
*Elizabeth Ann Barr, A.A., Minne-
apolis, with high distinction*
*Nancy Lee Elder Belland, Minne-
apolis, with high distinction*
*Charles Edwin Blattner, A.A.,
Rochester, with distinction*
Franz John Boelter, Windom
*Daniel Thadius Book, Edina, with
distinction*
*Craig Lavern Brandt, Clinton, with
distinction*
*Mary Beth Brick, New Ulm, with
high distinction*
*Mustafa Bulut, Minneapolis, with
distinction*
*Deborah Jean Burnham, Minne-
apolis, with distinction*
Richard William Burt, Roseville
*Paul Gerard Cardinal, St. Paul, with
distinction*
*Daniel Gene Carey, Hastings, with
distinction*
*Henri Georges Chastanet, A.A.,
Blaine, with distinction*
Joan Carrol Chazin, St. Louis Park
*Lois B. Courneya, A.A., Coon
Rapids, with distinction*
*Monica Joyce Cox, Minneapolis,
with distinction*
*Sharon Marie Dickson, Minneapolis,
with distinction*
*Barbara Wilson Doepner, White
Bear Lake*
*Robert Daniel Doheny, Minneapolis,
with distinction*
*Laura Jean Johnson Edman, Benson,
with high distinction*
- Arlette Gallagher Egan, Mahtomedi,
with distinction*
*Dana Kathleen Elverum, G.D.H.,
Minneapolis, with distinction*
*Elizabeth Ellen Erdahl, Hopkins,
with high distinction*
Barbara Jean Ewert, Minneapolis
*Kathleen Ann Featherstone, Min-
neapolis, with distinction*
*Marcine Louise Fennel, St. Louis
Park*
*Mary Alison Fenwick, St. Louis
Park, with high distinction*
*Joyce Alice Ferenc, Brooklyn Park,
with distinction*
*Paul Philip Geier, Jr., Newport,
with high distinction*
*Deborah Colleen Giere, A.A.,
Rochester, with high distinction*
*Donna Marie Gilbert, Minneapolis,
with distinction*
Antoinette Dianne Groe, Sandstone
Kathleen Anne Gunderson, Foley
*Nancy Alice Blohm Halvorsen,
Kiester, with distinction*
*Linda Kay Hansen, Blue Earth,
with distinction*
*Julie Patricia Hauptert, Minneapolis,
with distinction*
*Sally Elizabeth Hawkinson, Vir-
ginia, with high distinction*
James Patrick Heule, Fridley
Judy Ann Nynas Hovis, Esko
*Patricia Allison Andries Howell,
Aberdeen, S.D., with distinction*
*Carol Lynn Hueser, Minneapolis,
with distinction*
*Dale Alan Hulme, B.S., B.A.,
Minneapolis*
*Alberta M. C. Jacobson, Minneapolis,
with distinction*
*Allen Curtis Jacobson, Minneapolis,
with distinction*

- Martha Ann Janstrom, Bloomington,
with distinction
- Gail Joanne Jensen, Bloomington,
with distinction
- Frank William Johnson, Jr., St. Paul
- Karen Ruth Johnson, Silver Bay,
with distinction
- Linda Susan Johnson, Richfield,
with distinction
- Shelley Adair Johnson, White Bear
Lake
- Vicky Ann Johnson, Buffalo
- Jane Ellen Karayusuf, Hopkins, with
high distinction
- Dixie Lane Kemmer, Minneapolis,
with distinction
- Marlana Karen Ketter, A.A., St.
Paul, with high distinction
- Michael Edmund Kopietz, Golden
Valley, with distinction
- Jodi Wynne Kopman, Minneapolis
- Alexandra Kulijewicz, B.A., Minne-
apolis
- Steven Donald Kurtz, A.A., Eagan
- Jo Ann Lanns, Minneapolis, with
distinction
- Penny J. LeFevre, Minneapolis, with
distinction
- Carol Diane Levin, St. Paul, with
high distinction
- Christine Helgeson Lincoln, Frost,
with distinction
- Walter Keith Lowe, Bloomington,
with distinction
- Iona Makeda Lynch, A.A., Minne-
apolis
- Norman Thomas Lynskey, B.A.,
Minneapolis
- William Robert Mangan, Maple
Grove
- Pete Marcaccini, Eveleth
- Pamela Joan Marolt, A.A.,
Keewatin, with distinction
- Barbara Jean Matter, Austin, with
distinction
- Michael J. McManus, St. Paul
- Gayle Swanson McNamara, Minne-
apolis, with distinction
- Janice Kay McNeal, Minneapolis,
with distinction
- Patrice Ann Meyer, Minneapolis,
with high distinction
- Brenda Joy Meyman, Browerville,
with distinction
- Margaret Mary Mitchell, Minne-
apolis
- Deborah Lynn Muralt, Minneapolis
- Nancy Jean Nordehn, St. Paul
- Gene Marie Noren, Robbinsdale,
with distinction
- Arlita Joyce Nygren, Minneapolis,
with distinction
- Steven Miles Oehlenschlager, A.A.,
Blaine, with distinction
- John Douglas Olander, Cambridge
- Bonnie Mae Olein, St. Paul
- Jan Marie Olsen, New Hope
- Jean Louise Henningsen Olson,
Minneapolis
- Patricia Ann Olson, Duluth
- Thomas Dean Olson, Faribault
- Janice Marie Olszewski, A.A.,
Bloomington, with high
distinction
- Joanne Iolene Patterson, Blooming-
ton, with high distinction
- William Robert Patterson, Minne-
apolis
- Dorothy Adele Payne, Minneapolis,
with high distinction
- Trudi P. Peoples, Minneapolis
- Barry George Peterson, New Hope
- Gregory Michael Peterson, St.
James, with distinction
- Gwen Marlene Peterson, Bricelyn
- Rita Marie Plourde, Stillwater, with
distinction
- Robert Henry Rantanen, Forest
Lake, with distinction
- Eileen Mae Renner, Richardton,
N.D., with distinction
- Daniel Lynn Ress, B.A., Minne-
apolis, with high distinction
- Janice Colleen Rodeberg, Memphis,
Tenn., with distinction
- Sharon F. Rodkewich, Minneapolis
- Diane Lee Rubenstein, A.A., Min-
neapolis
- Sandra Lee Rubenstein, B.A., Min-
neapolis
- Dallas Craig Sams, Staples
- Patricia Dawn Schafer, Sherburn,
with distinction

Romaine Valerie Scharlemann, Minneapolis, with distinction
Jeanette Ellen Schmid, Minneapolis, with high distinction
Karen Leigh Schmid, Hopkins, with high distinction
Becky Ann Schrepple, Minneapolis
Betty Lou Seeger, St. Paul, with distinction
Ann Marie Schnert, Minneapolis, with distinction
MaryJean Sheppard, St. Paul
David Austin Shudlick, Rice Lake, with high distinction
Christine Mary Sölberg, St. Paul, with distinction
Joan Carol Sonntag, St. Paul, with distinction
Ruth Ellen Stahler, Jordan, with distinction
Kathleen E. Stassen, Rochester, with distinction
Carol Joanne Ackerson Stecker, St. Paul, with distinction
Susan Mary Steinmetz, Minneapolis
Daniel Joseph Stelzner, South St. Paul
Marcia Maxine Stevens, St. Paul
Patrick Alan Stevens, B.A., Cloquet
Richard Julian Studer, B.A., St. Paul, with high distinction
Thomas Mark Tangen, St. Louis Park, with distinction
Jean Ann Traeger, Rochester
Linda M. Turner, St. Paul, with high distinction
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Carolyn Marie Vale, St. Paul, with distinction
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Kathryn Vivian Westbrook, Minneapolis
Daniel Craig Whipple, Coon Rapids, with high distinction
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Timothy Joseph Wilhelmsen, Staples, with distinction
Karla Jo Winther, Golden Valley, with distinction
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Mary Josephine Wojcik, St. Paul, with distinction
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Betty Zanatta, A.A., Burnsville, with distinction
Patrick D. Zilverberg, Hopkins, with distinction
Sharon Kay Zoff, St. Paul, with distinction

Master of Education

Timothy Olayinka Aiyese, Araromi, Okitipupa, Nigeria
Dennis Alan Anderson, B.S., Minneapolis
Larry R. Anderson, B.S., Bloomington
Larry LeRoy Baumgardt, B.S., Sleepy Eye
John Norton Bennett, B.S., B.A., St. Paul
Kenneth Howard Bergstedt, B.S., Roseville
Peter David Beyers, B.S., Mahtomedi
John Francis Brodrick, B.S., St. Paul
Medora Christison Brown, B.S., New Brighton
Wesley Charles Fausch, B.S., Waseca
Alan Charles Force, B.S., St. Paul
Judith Marie Goplen, B.S., Hibbing
Robert Gerald Hoccherl, B.S., Minneapolis
Robert Walter Hokkainen, B.S., Annandale
William Henry Jacob, B.A., Minneapolis
Jeanette Lee Johnson, B.S., Minneapolis
Richard Joseph LeCuyer, B.S., Minneapolis
Charles Anthony Mikolich, B.S., New Hope
Raymond Joseph Nelson, B.S., St. Paul

John William Priebe, B.S., North St.
Paul
Allen Duane Ruchmann, B.A.,
Rochester
Bruce Alan Sabatke, B.S., Minne-
apolis
Charles Allan Schwab, B.S., White
Bear Lake

Thomas Frank Thomas, B.A.,
Bloomington
John Gregory Tiggas, B.S., Minne-
apolis
Susan Robb Vest, B.A., Wayzata
Sharon Jean Zimny, B.S., Centerville

COLLEGE OF FORESTRY

Bachelor of Science

Robert Arthur Anderson, Minne-
apolis
Scott James Carlstrom, Minneapolis
Allan Richard Dreher, Bloomington
*James Joseph Fahnhorst, A.A.,
Minneapolis, with distinction*
Dennis Lloyd Hanson, Litchfield
Lawrence Edward Hanson, Alex-
andria
John William Heineman, White
Bear Lake
Alan Dehn Hendricks, Maple Plain
Dennis William Hornseth, Rochester
John William Kraske, A.A., Austin

*Robert Edward Lindholm, Ely, with
high distinction*
Joseph Marcel Linn, St. Cloud
*Craig Martin Mellin, Rochester,
with distinction*
Lawrence Dean Nelson, St. James
Patricia Mae Kromhout Orud, St.
Paul
Wayne Allan Perreault, Red Lake
Falls
Sheldon Kevin Smith, Robbinsdale
David Allen Yarger, A.A., Storden
J. Harry Wirz, St. Francis

GENERAL COLLEGE

Associate in Arts

John Paul Aamodt, Minneapolis
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Cathleen Joan Bengtson, St. Paul
Catherine Lynn Bertelson, Minne-
tonka
Roxanne Carol Bridges, Minneapolis
Russell Edward Brown, Cottage
Grove
Richard Donald Brunsell, Hasty
Katherine Marie Carlisle, Minne-
apolis
Michael Allen Chmielecki, St. Paul
Mary Joanne Gangl, St. Paul
Mary Patricia Gearin, St. Paul
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Shirley Marie Graham, Minneapolis
Patricia Jeanne Gregory, Minne-
apolis
Aimee Marie Haag, St. Paul
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Robert Gordon Leverett, St. Paul
Renee Michelle Loquai, Fridley
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Simeon Avon Wagner, Minneapolis
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William Donald Weisbrod, Oak Dale
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Kenneth Charles Wolfe, St. Louis Park
Reuben Harold Woodraska, Minneapolis

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Russell Edward Brown, Cottage Grove
Beth Marie Bruner, A.A., Minneapolis
Katherine Marie Carlisle, Detroit Lakes
James Aloysius Ford, Jr., Bloomington
Kathy Louise Gallagher, A.A., Minneapolis
Bennie Marie Groce, Minneapolis
John Joseph Hackett, A.A., Richfield
Edmond Nelson Hampton, Minneapolis
Gregory Scott Hanson, A.A., Minneapolis
John Boothroyd Harlis, A.A., Minneapolis
Joe Edward Ingram, Minneapolis
Becky Ann Johnson, Minneapolis
George William Knox, A.A., Minneapolis
John Harold Larson, St. Paul
Thomas Lawrence Lay, A.A., St. Paul

Gary Robert Lee, A.A., Minneapolis
Margaret Eileen Milton, Minneapolis
Justin Jon Moritz, A.A., Burnsville
Stephen Arthur Olson, Brooklyn Center
Byrma Joyce Paulzine, A.A., Minneapolis
Elsie Jane Pooawtsee, Plumsteadville, Pa.
James Michael Roberts, A.A., South St. Paul
Mary Rowe Shannon, A.A., Minneapolis
Thomas William Sneed, Frazee
James Allen Southward, A.A., St. Paul
Catherine Jean Staples, A.A., Minneapolis
Bonnie Ann Wallace, Cloquet
Richard Edwin Wiener, A.A., Padua
Priscilla Grace Wiley, A.A., Minneapolis
Ronald James Willie, Edina
Mary Lorraine Woodruff, Rochester

Bachelor of General Studies

Susan Rolfe Delaney, Hopkins

Gary James Fowler, Minneapolis

COLLEGE OF HOME ECONOMICS

Bachelor of Science

- Cynthia Alise Bealka, Stillwater
Jocelyn Susan Bergstedt, Duluth, with distinction
Julianne T. Betz, St. Paul, with high distinction
Janene Jo Bougetz, Cambridge
Beverly Therese Cox, Minneapolis
Ann Louise Daniel, St. Paul
Jean Elizabeth Denham, Minneapolis
Sharon Ann Dunkinfield, St. Paul, with distinction
Dixie Lee Frick, A.A., International Falls, with distinction
Susan Marie Gilmore, Bloomington
Katherine Ann Grumstrup, Denver, Colo.
Wendy Rae Halvorson, Minneapolis
Carol Louise Hastad, Madison
Nancy Jean Hausladen, Bloomington, with distinction
Dorothy Petersen Jensen, White Bear Lake
Linda Joy Johnson, Aitkin
Deborah Ann Kain, Alexandria
John Henry Kauck, Minneapolis, with distinction
Carol Dunahey Keller, St. Paul
Deborah Katherine Kurvers, St. Paul
Barbara Carol Leonard, Minnetonka
Gretchen Marguarite Leuthold, Edina
Thea Elise Phillips Mathiason, Farmington
Jeffrey S. Morgan, Minneapolis
Carol Elizabeth Myhr, Minneapolis
Mary Kathryn Nelson, Wood Lake
Barbara Martha Paulsen, Minneapolis
Rita Ann Pazzelli, Virginia, with distinction
Dorothy Jo Pike, Pipestone, with distinction
Cynthia Lou Rasmussen, Rothsay
Juanita Susan Roehlke, Mora
Bonnie Jean Ruona, Minneapolis
Faith Ilene Schway, St. Paul
Linda Marie Sobota, Browerville
Mary Josephine Spence, St. Paul, with high distinction
Gale Ann Steward, St. Paul
Barbara Ann Stowowy, Minneapolis, with high distinction
Suzanne Jacqueline Summers, Minneapolis
Patricia Selz Swanson, St. Paul
Cheryl Ruth Whittles, Roseville, with distinction
Sandra Jean Williams, Redwood Falls
Patricia Yorks, Wayzata, with distinction

LAW SCHOOL

Juris Doctor

- Julius Edmund Crawford, B.A., Minneapolis
Nancy Fitzgerald Freiwald, B.S., Minneapolis
John Andrew McClurg, B.A., St. Paul
Edward Steven Wilson, B.A., Chicago, Ill.

COLLEGE OF LIBERAL ARTS

Associate in Liberal Arts

- Janice Marie Anderson, St. Charles
Adora Jean Appelquist, Minneapolis
Linda Joy Brody, Minneapolis
David Rex Brower, Bloomington

Jack Duane Brown, Minneapolis
Veronica L. Greene, Minneapolis
Barbara Honstad Harrison, Minneapolis
Janet Anne Johnson, Minneapolis
Phyllis Ann Johnson, St. Paul
Karen Susan Kirch, St. Paul
Victoria Knox Kyarsgaard, Minneapolis

Anna Marie Logan, Minneapolis
Jileen G. Marquardt, St. Paul
Elisabeth Marguerite Martin, Minneapolis
Annavarapu Gale Murty, Bismarck, N.D.
Kenneth Claude Richey, International Falls
Kathleen Betty Stiehm, Minneapolis

Bachelor of Arts

Jane Holton Adams, Minneapolis
Douglas George Aiken, St. Paul
Gary Walter Allen, Minneapolis
Patrick Michael Altmann, Minneapolis
Gary Kevin Anderson, St. Paul
Karrie Lynne Anderson, St. Paul
Kathryn Linne Anderson, Bloomington
Kathryn Jean Andrajack, Minneapolis
Gayle Jean Appelbaum, Minneapolis
Linda Marie Ash, Fridley
James Henry Baden, Minneapolis
Steven John Bakker, Shell Lake, Wis.
Daryl Jon Barclay, Pipestone
Thomas William Baskerville, St. Paul
Mary Abbey Bassett, Minneapolis
Jeff Baysinger, Elgin
Patrick Michael Beardsley, West St. Paul, summa cum laude
Lynette M. Beck, Minneapolis
Gregory Stuart Beeson, Minneapolis
Shirley Dell Mildred Bennett, St. Paul
Gary Michael Berg, Minneapolis
Barbara A. Bezat, Minneapolis
Celeste Laura Birkeland, Minneapolis
Diane Marie Bischoff, Minneapolis
Stephanie Jo Bofferding, Minneapolis
Michael William Bohman, St. Paul
Kevin George Bottila, McGregor
Mark Richard Bowen, Minneapolis
Therese Anne Bowker, St. Paul
Nancy Ann Brandenburg, Faribault

Alexander D. Bravis, Athens, Greece
Gregory D. Breining, Minneapolis
John Hobe Brodie, St. Paul, cum laude
Jerrold William Brosious, Stillwater
Alice Vough Browne, Latrobe, Pa.
Craig Steven Bundlie, Minneapolis
Joseph Richard Burniece, Minneapolis
Michael Alan Bursaw, B.A., Minneapolis
Patrick Cheney Burt, Edina
Thomas Donn Burton, Minneapolis
Barbara Mary Butler, St. Paul
Avis Marie Campbell, Fridley
Jane Winifred Canney, Rochester
Patrick John Cannon, St. Louis Park
Carolyn Catherine Carlquist, Starbuck
Keith Alan Carlson, Minneapolis
Steven David Carr, Bloomington
Linda Sue Christensen, Minneapolis
Rick Clugston, A.A., Minneapolis
Melissa R. Cohen, Minneapolis
Suzanne Patricia Evans Conklin, Cedar Falls, Iowa
Robert William Cooper, St. Paul
Cathleen Terese Coppini, St. Paul
Paul William Cronstrom, A.A., Minneapolis
Terrance Michael Cullen, St. Paul
Agnes Maria De Meyer Daemen, Antwerp, Belgium
Marla Joyce Daharsh, Hutchinson
Gail Lynn Danelius, Minneapolis
Debra Christine Davis, Eden Prairie
Milton Joseph Dehn, Princeton, magna cum laude
Mary Angela De Long, St. Paul

- Susan Dianne Dobyms, *Sioux City, Iowa, summa cum laude*
- Rosemarie Iuliano Dolan, Brooklyn, N.Y.
- Lamberta Thecla Doll, A.A., Minneapolis
- Dexter Duane Dose, A.A., Roseville
- Patricia Karen Dowdle, Minneapolis
- John Mitchell Duntley, Jr., Minneapolis
- Robert C. DuPont, Bloomington
- Steven Richard Eckes, Plymouth
- Martin Washington Edwards, Grenada, British West Indies
- Arylce Kay Elsner, Minneapolis
- Daniel John Emerson, Falcon Heights
- Rita Gayle Erickson, A.A., Duluth
- Beth Marie Ewy, St. Paul, magna cum laude*
- Susan Elizabeth Fahlstrom, Minneapolis
- Jon Stanley Falkowski, Minneapolis
- Debra Kay Fleming, St. Paul
- Rosemary Helen Flynn, Minneapolis
- James Scott Foster, Minnetonka
- Kirk Douglas Fowler, Owatonna
- Stephen Herbert Franzen, Minneapolis
- Barbara J. Frost, St. Paul
- Larry Lee Gaalaas, Grand Rapids
- Steven Paul Geiger, Eden Prairie
- Sheila Karen Geller, Minneapolis, summa cum laude*
- Mary Kay Gerstner, Minnetonka
- Thomas Robert Gerten, St. Paul
- Martin Joseph Gervais, Fergus Falls
- Sheila Gail Gniffke, Cottonwood
- Carol Howard Grande, St. Paul
- Marcella R. Grandpre, Minneapolis
- Christine Anne Gravier, A.A., Minneapolis
- Mark William Gray, Brainerd, summa cum laude*
- Jill Jennifer Green, Minneapolis
- Steven Israel Greenberg, Minneapolis
- David Lee Greener, B.A., Bloomington
- Catharine Elizabeth Greenman, Minneapolis
- Carol Rae Grinde, Buffalo
- Lynn Rita Gruber, Crystal
- Mark Stephen Gruenhagen, South St. Paul
- Stanley M. Grunewald, Shoreview
- James Francis Guarnera, Mahtomedi, summa cum laude*
- Ricky Dell Haack, Stewartville
- Vicki Annette Haagenson, A.L.A., New London
- Jack Louis Habeck, Richfield
- Emily Elizabeth Thompson Haddad, White Bear Lake
- Jan Harrison, Minneapolis
- Steven Arnold Hatzung, Edina
- Jonathan Randolph Haugan, Fridley
- Valeria J. Hawkins, A.A., Minneapolis
- Leslie Hayward, Minneapolis
- Michael John Heaton, St. Paul
- Margarét Ann Heisel, New Brighton
- Thomas Paul Heitzman, Bloomington
- Constance Adams Logan Held, Minneapolis
- Susan Jean Helf, Robbinsdale, magna cum laude*
- Joseph Michael Helgeson, Winona
- Gregory Lee Helgeson, Redwood Falls
- Marlyce Shockman Helm, Minneapolis
- Robert Martin Hill, Stillwater
- David Eugene Hobson, Robbinsdale
- Jane Carol Hoffman, A.A., Minneapolis
- Kathleen Ann Hollander, Minneapolis
- Sharon Kay Hoopman, G.D.H., Rochester
- Philip Maynard Horning, Fleetwood, Pa.
- Robert Harold Hostettler, Lake City
- Barbara Joanne Hougdaahl, Minneapolis
- Stephany Houghton, Portage, Wis.
- Roger Michael Hughes, A.A., Deer River
- Chad Richard Hynes, Minneapolis
- John Charles Hyser, Robbinsdale
- Paul Ignatowicz, Jr., Minneapolis
- John Eric Ingulsrud, Minneapolis

Mindy Sue Isaacs, Minneapolis
 Virginia Elaine Isaacs, St. Paul
 Harald Karl Iverson, St. Paul
 Taofeek Babatunde Jaiyesimi,
 Ikorodu, Nigeria
 Michael John Jaruch, Minneapolis
 Scott David Jenkins, New Brighton
*Roger Ernest Jensen, Rochester,
 magna cum laude*
 Sally Druann Jensen, Richfield
 Bradley Steven Johnson, Minne-
 apolis
 David Lawrence Johnson, Duluth
 Dee Ann Johnson, Marshall
 Earl Arthur Johnson, Minnetonka
 Jean Ann Johnson, Edina
 Kent Edward Johnson, Stillwater
 Stanley Elliot Johnson, Evansville
 Victoria Anne Johnson, St. Paul
 Paula Louise Joseph, Minneapolis
 Pamela Sue Kachenmeister, Minne-
 apolis
 Lynn Ann Kallio, Minneapolis
 John Andrew Kancans, White Bear
 Lake
 Jennifer Davies Kennedy, Golden
 Valley
 Rita Rae Kenyon, St. Paul
 Raymond Kepulis, Columbia
 Heights
 Vikki Ranae Key, Oklahoma City,
 Okla.
 Colleen Tonolli Kilgore, A.A.,
 Blooming Prairie
 Linda Marie Kincaid, Rochester
 Michael David Kirk, Burnsville
 Diane Marie Kisch, A.L.A., West
 St. Paul
 Jennifer Cox Klein, Deephaven
 Constance Lee Koch, Minneapolis
 Monica Nadine Kolar, South St.
 Paul
 Joanne Guernsey Kollmann, White
 Bear Lake
*Alan Mark Kotula, Walker, cum
 laude*
 Kenneth V. Kroiss, A.A., St. Paul
 Mary Leone Kucera, International
 Falls
 Dan Bennett Lang, Benson
 Michael Alan Lavelle, St. Paul
 Edith Anne Lawler, Highland Park,
 Ill.
 Jane Meredith Lay, Robbinsdale
 Robert James Leaf, Winona
 Christopher George Legeros, Edina
 Lynda L. Leonard, Minneapolis
*Scott Stanley Lewis, Edina, summa
 cum laude*
 Margaret K. Lickteig, Minneapolis
 Larry Allan Lockway, St. Paul
 Karen Lee Lokensgard, Bloomington
 Larry Allen Lorenz, Minneapolis
 Ethel Mae Love, Waterloo, Iowa
*Suzanne L. Luke, St. Paul, summa
 cum laude*
 Diane Lillian Lynch, St. Paul
 Patricia Lou Mahon, Cedar Rapids,
 Iowa
 Barry Drew Malina, New York, N.Y.
 Robert Allen Mank, Minneapolis
 James Martin Manthe, Minneapolis
 Patricia Mary Marrinan, St. Paul
*Douglas Bruce Marston, Winona,
 summa cum laude*
 Nancy L. Martin, Stillwater
 Scott Arthur Mashek, Rochester
 Leonard Ray Matheny, St. Paul
 Robert Michael Maus, Austin
 Richard David Mayer, B.A., Min-
 neapolis
 Nancy Lynn McCartney, Eden
 Prairie
 Paul Francis McHugh, Minneapolis
 John Wilson McLaughlin, Minne-
 apolis
 Marjory Ruth McPartlin, St. Paul
 Marcia Lynn Meldrum, Minneapolis
 Caren Elizabeth Miles, Norfolk, Va.
 Joseph Robert Milevsky, Minnie-
 apolis
 Debra Jean Minichilli, Edina
 Mae C. Moore, A.A., Minneapolis
 Patricia Suzanne Moore, Fridley
 Margaret Elizabeth Morgan, Cal-
 gary, Alberta, Canada
 Dianne Elizabeth Moritz, Brookings,
 S.D.
 Richard Thomas Mortel, St. Paul
 Robert John Moser, A.A., Richfield
 Lois Ann Moses, Minneapolis

Jocelyn Marie Muggli, B.A., Roscoe
Jeffrey Alden Munson, Moose Lake
Nancy Ann Murzyn, Minneapolis
Gail Ann Myers, Minneapolis
Mary Lepsch Nelson, Minneapolis
*Judith Ann Neren, St. Paul, summa
cum laude*
Mary Elizabeth Nevers, Duluth
Margaret Jolene Nickolay, West St.
Paul
Rita Jeanne Nystrom, Minneapolis
Andrew Michael O'Brien, St. Paul
Bolaji B. Odunsi, Ijebu-Ode, West
Nigeria
David A. Okkelberg, Minneapolis
Sharyl Myrna Olsen, Minneapolis
Wendy Jean Waterston Olson, Min-
neapolis
John Alfred Opsahl, Willmar
Robert James Orescanin, Minne-
apolis
Tania Ostapenko, Minneapolis
*Patricia Lynn Owen, Richfield,
summa cum laude*
*Mary Elizabeth Palm, Minneapolis,
cum laude*
Penny Lynn Parker, Roseville
*Mary Elizabeth Pederson, Apple
Valley, summa cum laude*
Luanne Peters, Minneapolis
Keith J. Petersen, St. Paul
Deborah Ann Peterson, Hopkins
Jay Scott Peterson, Richfield
Jennifer Wrede Peterson, St. Paul
Mary Jeanne Peterson, Edina
Muriel Anne Peterson, Cloquet
Nancy Lynn Peterson, St. Paul
Gail Frances Pettipiece, Minne-
apolis
*Michael John Philipp, Bloom-
ington, cum laude*
Susan Yvette Phillips, Minneapolis
Steve McCoy Pitcher, St. James
John Thomas Potter, B.S., Long
Lake
Sharon Walters Preston, Gainesville,
Fla.
Laury Scott Quackenbush, Minne-
apolis
Stephen Tabor Quackenbush, Albert
Lea

Thomas Charles Racette, St. Louis
Park
Helene Marie Ranweiler, New Ulm
Cathleen Jo Ray, Chicopee, Mass.
Dana Marie Rebelein, Kiester
Janice H. Reedstrom, Minneapolis
Elizabeth Reedy, St. Paul
Charlotte Christine Rehnke, Mil-
bank, S.D.
Jeffrey Allen Reier, Minneapolis
Roberta Alexis Revling, Grand
Rapids, Mich.
Roselyn Ann Rezac, Minneapolis
Margaret Mathilde Rice, St. Paul
*Sydney Sue Rice, Columbia Heights,
summa cum laude*
Michelle Ann Richardson, Minne-
apolis
Richard Kohler Roberts, Minnetonka
Audrey Strandli Robertson, North
St. Paul
Todd William Rofuth, Minneapolis
Luis Eduardo Romo, Mexico City,
Mexico
Loren John Rosenthal, Sheboygan,
Wis.
Gordon Lee Rutman, St. Louis Park
Richard William Rylel, Minneapolis
Michael Dean Saarela, Duluth
Patricia Helen Sampson, Austin
Steven Sanderson, Fergus Falls
Robert G. Sandquist, A.A., St. Paul
Barbara Jean Sanft, St. Paul
Moreau Jerry Sankey, B.S., Minne-
apolis
Joanne Margaret Saunders, Golden
Valley
Steven Raymond Savage, Eau
Claire, Wis.
Suzanne Rose Schilling, Stillwater
Scott Allen Schneider, Minneapolis
Bonnie M. Schulke, Minneapolis
Barbara Lynn Seibert, Minnetonka
Jeanette Anderson Sharpless, Glen-
dale, Ariz.
Joan Elizabeth Shervey, Minneapolis
Sandra Marie Sidla, St. Louis Park
Susan Carol Silber, Minneapolis
James Patrick Simmer, St. Paul
John Stanton Simonson, Minneapolis
Suzanne Sinner, Redwood Falls

James Henry Sipkins, Minneapolis
 Thomas Fredrik Slechta, Minneapolis
 Diane Gail Snustad, Moorhead
 Jenelle May Soderquist, Minneapolis
 Linda Ann Solberg, Richfield
 Don David Sorenson, A.A., St. Paul
 Glen Joseph Stadler, Cottage Grove
 Robert Joseph Stehlin, Jr., Hibbing
 Lucia May Stubbs, Long Lake
 Michele Jo Studer, St. Paul
 Cynthia Jean Swan, Rochester
 Judith Shea Swanholm, A.L.A., Le Sueur
 Randy Judd Swanson, Rochester
 Marta Cole Tarbell, Minneapolis
 Mary Katherine Tegeder, Golden Valley
 Patricia Jean Theobald, St. Paul
 Dagmar Agnes Theobald, Minneapolis
 Elizabeth Ann Thompson, Minnetonka
 Carol Lee Thomssen, St. Paul
 Ronald Dean Thoreson, Minneapolis
 Kristine Lynn Bakkum Titsworth, Mountain Iron
 Michael John Tollefson, A.A., Brainerd
 Robin Lynn Tomlinson, Morris
 David Clair Truax, Rochester
 Alan Robert Van Overbeke, Marshall
Gretchen J. Van Slyke, Marble, summa cum laude
 Sharon Lee Vegoe, St. Paul

Bernard Joseph Vertnik, Minneapolis
 William John Votava, A.A., Alhambra, Calif.
 Barbara Jean Wagner, Moorhead
 Patricia Elaine Wake, St. Paul
 Trent Lee Walden, Minneapolis
John Timothy Walkup, Minneapolis, cum laude
 Michael Joseph Walsh, Hopkins
 Timothy J. Walsh, Lonsdale
 Darrel E. Walters, A.A., Richfield
 Kam Fong Helen Wan, Hong Kong
 Nancy L. Weigenant, North St. Paul
 Carol Jeanne Weiner, St. Paul
 Joanne W. Weiner, A.A., Minneapolis
 James Deighton West, Lake Geneva, Wis.
 Janet Marie Whitcraft, Minneapolis
 Ruth Susanna Wilkman, Walters
 Sheryl Mary Williamson, Minneapolis
Pamela Ellen Windhorst, Edina, summa cum laude
 Karla Jo Winther, Golden Valley
 Christina With, Robbinsdale
 Linda Deborah Witt, Minneapolis
 Thomas James Wittman, St. Paul
 Robert Edward Woods, St. Paul
 Kathleen R. Workman, St. Paul
 David Brian Zander, London, England
 Richard Edward Zaun, Minneapolis
 John Ernest Zimmer, Minneapolis
 Linda Joyce Zuidema, Minneapolis
 Gary Steven Zumberge, Minneapolis
 Laurie Jenene Zwicner, Rochester

Bachelor of Elected Studies

Sarah Bates Antin, Minneapolis
 Joseph Easton Benson, Minneapolis
 Michael Anthony Borre, St. Paul
 Pamela Ann Brady, Minneapolis
Richard Allen Chase, St. Paul, magna cum laude
 Sandra Lynn Danielson, Minneapolis
 John Jacob Daubney, St. Paul
 David Allan Eggen, Minneapolis
 Susan Charlotte Eha, St. Paul
 Patricia Ann Farnham, Bloomington
 Charles Edward Fitze, Bloomington

Thomas Joseph Gaughan, Minneapolis
 Linda Marie Gibbs, Dodge Center
 Mark Kermit Helgeson, Bricelyn
 Shelley Nannette Holl, Minneapolis
 Elizabeth Jane Huebner, Minneapolis
 Douglas Harris Jensen, White Bear Lake
 Robert Neil Juster, Minneapolis
 Ralph Reeder Kilby, Rochester
 Carolyn Ann Knowles, St. Paul

Larry Richard Larson, White Bear
Lake
Richard Brenton Leekley, Wayzata
Esther Marilyn Lerman, St. Paul
Mary Kristine Manlove, Cannon
Falls
Jeannine McCormick, Fergus Falls
Jacqueline Helene Meyer, St. Paul
Carol Marie Miller, West Concord
Robert James Peiffer, St. Paul
Ronald John Raasch, Jackson
Michael Jon Raaum, Jamestown,
N.D.
Steven Curtis Renquist, Jeffers

Dagny J. Sailand, St. Paul
William Arthur Sander, St. Louis
Park
Janet Lynn Silverstein, St. Paul
Nanci Kristen Smaby, Minneapolis
Richard William Topel, Coon
Rapids
Janet Ann Wessling, Golden Valley
Wendy Joan Williamson, Mound
Martha Ann Winslow, Minneapolis
John Frederick Ziehlsdorff, Lilydale
Michael David Zurbey, A.A., Min-
neapolis

Bachelor of Fine Arts

Judith Louise Bingaman, Minne-
apolis
Steven Paul Feinberg, Minnetonka
Rafael Garza, Minneapolis
Robert William Krumholz, Austin
Dale Wayne Lee, Alexandria
Gary John Mandel, St. Paul
Thomas James McCoy, Minneapolis
Twyla Madonna Meyer, St. Cloud
Murray Stephen Nelson, Minne-
apolis

John Arthur Olson, A.A., Rochester
Claire Helene Ouellette, St. Paul,
summa cum laude
Fred Pinkard, Chicago, Ill.
William Richard Ploetz, Minneapolis
Mary Lee Rath, Minneapolis
James William Schiller, Minneapolis
Patricia Mary Trombley, Minne-
apolis

Bachelor of Science

Kenneth Kai-Fai Chan, Hong Kong
Steven Kent Millar, Bloomington
George Daniel Patten, Minneapolis,
magna cum laude

Michael Jay Stutzer, St. Louis Park
Abdul Ghaffar Vayani, Karachi,
Pakistan
Adrienne Lee Wright, St. Paul

MEDICAL SCHOOL

MEDICAL TECHNOLOGY

Bachelor of Science

Steven Alan Carlson, White Bear
Lake

Patricia Lee Merritt Miles, B.A., St.
Paul, with distinction^o

^oConferred subject to the completion of practical work prior to March 21, 1975

MEDICINE

Bachelor of Science

Dale Warren Bohlke, St. Clair

Alan Marvin Johns, Duluth

Doctor of Medicine

Robert James Beck, B.A., St. Paul

Theodore Martin Berman, B.A.,
Minneapolis

Joseph Glenn Bohlen, Ph.D.,
Moweaqua, Ill.

Joseph Benjamin Carter, B.E.E.,
Minneapolis

John Edward Doyle, Jr., B.S., St.
Paul

Terrence Malcolm Dunklee, B.A.,
Minneapolis

Alexandra Hurt Filipovich, Min-
neapolis

Charles LeRoy Folkestad, B.A.,
Wadena

Vicki Danker Hastings, B.S.,
Campbell, Neb.

Robert Gray Haxby, B.A., Minne-
apolis

Monte Alan Hoffman, B.A., Lan-
caster

Robert John Ingli, B.S., Ellsworth,
Wis.

Dean Clark Lohse, B.A., Minne-
apolis

John Robert Markeson, B.A.,
Brigham City, Utah

Allen Evans Nord, B.A., M.A.,
Sioux Falls, S.D.

MORTUARY SCIENCE

Bachelor of Science

James Alan Halverson, St. Paul

OCCUPATIONAL THERAPY

Bachelor of Science

*These degrees are conferred subject to the completion of
practical work prior to March 21, 1975*

Constance Ann Bauer, South St.
Paul

Kathleen Gay Bodding, Ada, with
high distinction

Cheryl Evelyn Copeland, Fergus
Falls, with *distinction*

Sarah Margaret Evert, Moorhead,
with *high distinction*

Beverly Adler Juengel, A.A.,
Minneapolis, with *distinction*

Carol Bonnie Rae Knutson, A.A.,
Brooten, with *high distinction*

Christine Marie Perry, Minneapolis,
with *high distinction*

Joan Mary Peterson, Minneapolis,
with *distinction*

Carol Ann Schneider, Inver Grove
Heights, with *distinction*

Susan Laraine Wong, Rochester
Kathleen C. Zawislak, St. Paul,
with *high distinction*

SCHOOL OF NURSING

Bachelor of Science in Nursing

- | | |
|--|--|
| <i>Ann Louise Heath Findlay, Baldwin, Wis., with distinction</i> | Alicia V. Rosales Olson, St. Paul |
| Donna Kaye Franck, Prior Lake | Jean Marie Pekarek, A.A., St. Paul |
| <i>Rosemary Kay Hussa, New Brighton, with distinction</i> | <i>Vicki Ayn Romero, Denver, Colo., with distinction</i> |
| Darlene Ann Maresch, Bird Island | Donna Marie Seitz, Minneapolis |

SCHOOL OF PUBLIC HEALTH

Master of Public Health

- | | |
|--|--|
| Elizabeth Allis Herman, B.S., Minneapolis | Michael Vincent O'Brien, B.A., Minneapolis |
| Edith Bernice Johnson, B.A., Mondovi, Wis. | Erica Bjugstad Phelps, B.S.N., Thatcher, Ariz. |
| Edward Robert Landa, B.S., M.S., Bronx, N.Y. | Nani Sawarni, D.V.M., Bogor, Indonesia |
| Roger W. Mustalish, B.A., M.S., Minneapolis | David Charles Zanick, B.A., M.D., St. Paul |
| Elizabeth Worcester Numrich, B.A., St. Paul | |

INSTITUTE OF TECHNOLOGY

Bachelor of Aerospace Engineering and Mechanics

- | | |
|----------------------------------|------------------------------------|
| Philip Mark Hinke, Bloomington | Larry Dale Jahnke, Parkers Prairie |
| Gregory Jeppesen Holt, Richfield | Lloyd Steven Matson, Minneapolis |

Bachelor of Agricultural Engineering

- Harlan Morris Legare, Farmington

Bachelor of Architecture

- | | |
|---|---|
| <i>William Jeffrey Campbell, Minneapolis, with distinction</i> | <i>Linda Louise Mahle, Minneapolis, with distinction</i> |
| Duane Royce Day, Raymond | Larry Curtis Malmin, Peterson |
| Glenn Allen Eckstrom, St. Louis Park | William James Minnehan, Hopkins |
| <i>Daniel Heskett Feidt, Minneapolis, with distinction</i> | A. John Olson, Virginia |
| Carl John Gramentz, A.L.A., B.E.D., Minneapolis | <i>Richard Lee Rasmussen, B.E.D., Minneapolis, with distinction</i> |
| <i>Rodney Keith Henmi, Kirkwood, Mo., with high distinction</i> | Dennis E. Sachs, St. Paul Park |
| Larry Sanford Isdahl, Stillwater | Mark George Sopko, Wayzata |
| Curtis R. Johanson, Cloquet | <i>Mark Nicholas Soroko, Minneapolis, with distinction</i> |
| Dean Alan Johnson, St. Paul | Stacy Leon Strand, Elbow Lake |
| David Bruce Komar, Elk River | <i>Scott Thomas Thorpe, St. Paul, with distinction</i> |
| | Richard John Warrick, Minneapolis |

Bachelor of Chemical Engineering

Robert Joseph Carland, Minneapolis	Abdul Ghaffar Vayani, Karachi, Pakistan
Mark James Kachelmyer, St. Paul	Amit Bhagwandas Wadhwaney, Bombay, India
Russell Harlan Oelfke, Glencoe	
Udo Akpan Udokang, Ndiya, Itu, Nigeria	

Bachelor of Chemistry

Alfred Alyeshmerni, Shiraz, Iran	Gregory Dean Garlough, Bloomington
Eric William Ditlevson, St. Paul	

Bachelor of Civil Engineering

<i>Gregory Howard Albjerg, Bloomington, with high distinction</i>	<i>Thomas George Moll, Jr., Bloomington, with high distinction</i>
<i>Keith Jeffrey Anderson, Albert Lea, with high distinction</i>	Gene R. Nelson, Coon Rapids
James Mark Bullert, Glencoe	<i>Michael William Pliml, A.A., Cook, with high distinction</i>
Robert Edwin Erikson, White Bear Lake	<i>Winston Paul Riedesel, Rockford, Ill., with distinction</i>
<i>Kim Sau Leung, Hong Kong, with distinction</i>	<i>Marvin LeRoy Sohlo, St. Paul, with distinction</i>
Gary Robert Lewerer, Minneapolis	<i>Dana Frank Soroko, Minneapolis, with high distinction</i>
Erland O. Lukanen, North St. Paul	David John Swenson, Minneapolis
<i>Thomas Carl Lund, North Mankato, with distinction</i>	<i>James Francis Weingartz, Mankato, with distinction</i>
Pak-Wing Roger Mak, Hong Kong	Jaroslav Zavitkovski, St. Louis Park
David Michael McKenzie, Roseville	
Fredrick A. Micke, Gibbon	

Bachelor of Computer Science

Karl Michael Fant, Minneapolis	Glenn C. Miller, North St. Paul
Terese Anne Kuduk, Minneapolis	Joseph Edward Scheitlin, St. Paul
David John Lunzer, Brooklyn Center	<i>Tak-Sun Yuen, Hong Kong, with high distinction</i>

Bachelor of Electrical Engineering

<i>Richard Charles Booth, Minneapolis, with high distinction</i>	John Lloyd Neslund, Gilbert
Thomas Warren Carlson, Minneapolis	Lewis Evan O'Hara, Jr., Bloomington
David Henry DeMars, New Brighton	<i>Jay Roy Peterson, Minneapolis, with distinction</i>
John Deneka, Minneapolis	Harold John Schaefer, St. Cloud
Robert C. Halverson, Duluth	Scott Ronald Storrar, St. Paul
<i>Wesley Delaine Johnson, Golden Valley, with distinction</i>	George Augustus Sweezy, St. Louis Park
Scott Taylor Krogstad, Minneapolis	John Paul Wieggers, Brooklyn Center
<i>David Edward Manahan, Chatfield, with distinction</i>	<i>Paul Willemsen, Richfield, with high distinction</i>
Kenneth Matthew Mattsen, St. Michael	

Bachelor of Environmental Design

Earl Stanley Bakken, St. Louis Park	Mark Edward Hagedorn, Rochester
Thomas Lanham Collins, Edina	<i>Rolf Mark Kemen, Rochester, with high distinction</i>
Timothy Joel Dray, Elmore	Michael David Pederson, Minnetonka
Richard Alan Ed, Minneapolis	Eduardo Arenas Petil, Richfield
Lyle Gary Folkestad, Pine Island	John Edward Ward, Circle Pines
Frederick Thomas Gelbmann, St. Paul	

Bachelor of Geo-Engineering

Larry Roger Beyer, Stacy	<i>Michael W. Smith, A.A., Austin, with distinction</i>
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Bachelor of Landscape Architecture

Richard Alan Ed, Minneapolis	Robert Avon Lees, Bloomington
Daniel Victor Engstrand, Bloomington	David Sherwood Owen, Minneapolis
Lyle Gary Folkestad, Pine Island	John Stephen Torborg, Minneapolis

Bachelor of Mathematics

<i>Dennis Dion Hamlin, Minneapolis, with high distinction</i>	<i>Lowell Dean Palecek, Winona, with high distinction</i>
Marvin William Lenoble, St. Paul	Amit Bhagwandas Wadhwaney, Bombay, India

Bachelor of Mechanical Engineering

William James Allen, Minneapolis	<i>Mark Allan Linne, Billings, Mont., with distinction</i>
<i>Gordon Louis Anderson, Center City, with distinction</i>	<i>Jerome Avery Malmquist, Cokato, with distinction</i>
<i>Wayne Richard Anderson, B.A., Tracy, with distinction</i>	<i>Wesley Guy Marquette, Jr., Minneapolis, with distinction</i>
Christian Glen Brand, Richfield	Mark McCoy, Hastings
John Richard Crist, Excelsior	Paul Evans Moyer, Duluth
<i>Gerald Wayne Gilson, Little Falls, with distinction</i>	Edward Thomas Mueller, Excelsior
<i>David Roy Holm, A.A., Thief River Falls, with distinction</i>	David Jeffrey Petron, B.A., Long Prairie
Thomas A. Johnson, Hibbing	Jane Elizabeth Rothman, St. Paul
William Joseph Kinney, St. Paul	<i>Warren Lee Samuelson, Hudson, Wis., with high distinction</i>
David John Larson, Duluth	Robert Des Lauriers Shiely, White Bear Lake
<i>Donald Howard Larson, Jr., St. Paul, with distinction</i>	Thomas Brian Steele, Hibbing
Duane Kenneth Larson, Minneapolis	Brian Darwin Weist, Minneapolis

Bachelor of Metallurgical Engineering

Thomas Edward Johnson, Edina	Scott Edward Shjefte, Edina
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Bachelor of Physics

Terrence Harold Joyce, Hopkins
Thomas Michael Kowalsky, Fair-
field, N.J.

*Patrick John McCabe, Golden
Valley, with high distinction*

Bachelor of Science in Geology

Brian John Wagstrom, Fergus Falls

UNIVERSITY COLLEGE

Bachelor of Arts

Kyoko Milligan Andrusesky, Fir-
enze, Italy
Stephen Phillip Conover, Wayzata
David Rogers Edgerton, Washing-
ton, D.C.

James E. Graham, Minneapolis
Paul David Stark, Minneapolis
Rhona LaVerne Wetherille, Min-
neapolis

Bachelor of Science

James Vance Barry, A.A., Brainerd
Susan Alyce Bastien, G.D.H.,
Hastings
*Paul Daniel Burtness, Spring Grove,
with high distinction*
Gregg Alan Donnelly, Fairmont
Richard Allan Grobovsky, St. Paul
Norma Jean Hackett, A.A.,
Minneapolis
Nancy Turk McFeters, G.D.H.,
Minneapolis
*Estelle Rose Meskin, Minnetonka,
with distinction*
*Janine Lynne Pierson, St. Paul, with
high distinction*

Colleen Anne Proffitt, Pleasantville,
Iowa
Gail Suzanne Rippberger, G.D.H.,
Minneapolis
*Nancy Ann Saatzer, Burnsville,
with distinction*
Mary Therese Schuba, St. Paul
Charles Leo Smith, Jr., Minneapolis
*Deborah Ann Smith, White Bear
Lake, with distinction*
Stephen Thomas Spence, Denver,
Colo.
*Mary Joan Thielen, G.D.H., Racine,
Wis., with high distinction*
Barbara Beth Victor, A.A., Min-
neapolis

Candidates for Commissions

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

DEPARTMENT OF NAVAL SCIENCE

Ensign, USN

Larry D. Jahnke, Parkers Prairie
Leonard R. Matheny, St. Paul

Eduardo A. Petil, Richfield

Ensign, USNR

Paul E. Moyer, Duluth

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.

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 fourrageres 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

The members of the graduating class, their families, and friends are invited to attend the President's Reception immediately after the commencement exercises on December 12, 1974. The Reception will be held in the Main Ballroom of 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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