



University of  
Minnesota

*Fall 1985*  
*Commencement*

July-December  
Graduate School  
Candidates for Degrees

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THE BOARD OF REGENTS requests that the following Northrop Memorial Auditorium procedure be adhered to: Smoking is confined to the outer lobby on the main floor, to the gallery lobbies, and to the lounge rooms.

## *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 thirty-fourth 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 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, business people—to name but a few of the careers for which preparation is offered. Since its founding, the University has awarded over 370,000 degrees, each one in recognition of the successful completion of a challenging academic program.

In addition to giving collegiate instruction to nearly 56,000 students annually on its Twin Cities, Duluth, Morris, Crookston, and Waseca campuses, the University offers special training for those who wish to study part-time through Continuing Education and Extension. 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 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 throughout the state—the Rosemount Research Center, the Cloquet Forestry Center, the Cedar Creek Natural History Area near Bethel, the Horticultural Research Center at Excelsior, the Landscape Arboretum at Chanhassen, the Lake Itasca Forestry and Biological Station, the Sand Plain Experimental Field at Becker, and the Hormel Institute at Austin—and at the University Hospitals, University scientists are at work on 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, health care delivery systems, and computer technology. The progress 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 a cultural center of the Upper Midwest as the home of radio station KUOM, the University Theatre, the Bell Museum of Natural History, and the local performances of the Metropolitan Opera Company.

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 Cancer Center, the Veterans of Foreign Wars Cancer Research Center and Diehl Hall, which houses the biomedical library and medical research facilities.

Generous contributions by corporations, associations, foundations, trade unions, clubs, and individuals have made hundreds of grants and fellowships available to deserving students. 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.

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 committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, religion, color, sex, national origin, handicap, age, or veteran status.**

# Candidates for Degrees

The following students have applied for graduation. The month of graduation is noted at the end of each student's listing for those who have completed graduation requirements. "Graduation Pending" is noted for students who had not completed graduation requirements at the time the book was compiled. Degrees are listed alphabetically.

## GRADUATE SCHOOL

### Doctor of Education

#### Irving Leon Gray, Woodbury

B.S.Ed. '71, Trenton State College; M.S. '74, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: Mounds View Middle School: A Comparison Study of Sixth Graders' Achievement, Attitudes and Attendance at Bel Air Elementary and the New Highview Middle School. The Perceptions of Union and Management Educational Negotiators on the Effect of Wisconsin's Arbitration Law on the Negotiation Process. The Relationship Between Teacher Beliefs About Outcome-Based Instruction and Inservice Training Activities. Major Adviser: Prof. N.C. Nickerson. Graduation Pending.

### Doctor of Philosophy

#### Jose Gerardo AbinMartin, Mexico

Med.Vet.Zoo. '79, Universidad National Autonoma de Mexico; M.S. '83, University of Minnesota. Major: Animal Science. Minor: Supporting Program. Thesis: Studies of the Capability of Young Pigs To Secrete Gastric Acid After Weaning. Major Adviser: Prof. S.G. Cornelius. Graduation Pending.

#### Bader Hamad Al-Eisa, Kuwait

B.S. '76, University of Helwan; M.S.W. '79, Tulane University. Major: Social Work. Minor: Supporting Program. Thesis: A Qualitative Study: The Low and Middle-Income Housing Problem in the State of Kuwait. Major Adviser: Prof. C.D. Hollister. October Graduate.

#### Zayed O.Z. Al-Harethi, Taif, Saudi Arabia

B.A. '76, M.A. '78, King Abdul Aziz University. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Study of Attitudes and Attitude Change of Saudi Students in the United States Toward Some Social Issues. Major Adviser: Prof. C.M. Maruyama. Graduation Pending.

#### Donald Leroy Allen, St. Paul

B.A. '73, St. Olaf College. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Experimental Bias Effect as a Factor in the Fade Out of Skills Following Preschool Intervention. Major Adviser: Prof. J.E. Ysseldyke. July Graduate.

#### John Curtis Almendinger, Marion, Ohio

B.A. magna cum laude '76, Ohio Wesleyan University. Major: Ecology. Minor: Supporting Program. Thesis: The Late-Holocene Development of Jack Pine Forests on Outwash Plains, North Central Minnesota. Major Adviser: Prof. H.E. Wright. Graduation Pending.

#### Candice Marie Ames, Pine City

B.S. with high honors '70, M.S. '74, St. Cloud State University. Major: Educational Administration. Minor: Supporting Program. Thesis: School District Plans: Factors Contributing to Measurable Differences. Major Adviser: Prof. T.L. Mazzoni. June Graduate.

**Edward Charles Anderson**

B.S. '70, Mankato State College. Major: Educational Administration. Minor: Supporting Program. Thesis: Do Rates of Absenteeism for Teachers in the State of Minnesota Vary Relative to Negotiated Contract Language? Major Adviser: Prof. N.C. Nickerson. Graduation Pending.

**Judith Ann Anderson, St. Paul**

B.A. '68, College of St. Catherine; Spec.Cert. '84, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Microcomputer Exposure Related to Elementary Teacher Concerns About the Educational Use of Microcomputers. Major Adviser: Prof. V.D. Mueller. Graduation Pending.

**Urton Liggett Anderson, Hilliard,  
Ohio**

B.A. magna cum laude '74, St. Olaf College; M.A. '77, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: The Auditor's Assessment of Control Risk: The Explanation Phenomenon in Judgments of Event Uncertainty. Major Advisers: Profs. W.F. Wright and R.G. Berryman. August Graduate.

**Miguel Edgar Armacanqui**

Ing.Met. '77, Universidad Nacional de Ingenieria. Major: Metallurgy and Materials Science. Minor: Mineral Engineering. Thesis: Effects of Electrolytic Hydrogen in B.C.C. Metals. Major Adviser: Prof. R.A. Oriani. Graduation Pending.

**Marco Marcelo Avellaneda, Buenos  
Aires, Argentina**

Lic. '81, Universidad de Buenos Aires. Major: Mathematics. Minor: Supporting Program. Thesis: Large Deviation Estimates and the Homological Behavior of Brownian Motion on Manifolds. Major Adviser: Prof. N.C. Jain. July Graduate.

**Luis Fernando Azevedo, Rio de  
Janeiro, Brazil**

Eng.Mec. '79, Pontificia Universidade Catolica. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Natural Convection in Channel Flows. Major Adviser: Prof. E.M. Sparrow. September Graduate.

**Ian Robert Bain, Wimbledon, England**

B.A. '75, University of Cambridge; M.A. '76, McMaster University. Major: Economics. Minor: Supporting Program. Thesis: A Theory of the Cyclical Movements of Inventory Stocks. Major Adviser: Prof. E.C. Prescott. October Graduate.

**Jerome Lee Bakken, Grand Forks,  
N. D.**

B.A. '66, M.A. '69, University of North Dakota. Major: Education. Minor: German. Thesis: Effects of Simultaneous Reading and Listening upon Reading Comprehension of Reading Passages of Differing Difficulty Levels, as Measured by an Immediate Recall Protocol, with First Year German Students in a University Program. Major Adviser: Prof. D.L. Lange. Graduation Pending.

**Jeanne Beverly Barker-Nunn, St. Paul**

B.S. with distinction '68, University of Minnesota; M.A. '77, East Carolina University. Major: American Studies. Thesis: A More Adequate Conception: American Women Writers' Quest for a Female Ethic. Major Advisers: Profs. T.A. McNaron and G.G. Yates. September Graduate.

**Howard Livingstone Barnes, St. Paul**

B.A. '72, Macalester College; M.S. '80, Kansas State University. Major: Family Social Science. Minor: Supporting Program. Thesis: Discrepancy in Family Perceptions: Conceptual and Methodological Issues. Major Adviser: Prof. D.H. Olson. August Graduate.

**Robert Carl Barnett, Minneapolis**

B.A. '77, University of Minnesota. Major: Educational Psychology. Minor: Psychology. Thesis: Dissimulation in Moral Reasoning. Major Advisers: Profs. M.L. Snoke and J.R. Rest. Graduation Pending.

**Colleen Sue Baumtrog**

B.A. '75, M.A. '76, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Effectiveness of Behavior Reduction Procedures Used with Individuals Who Are Severely Handicapped: A Meta-Analysis. Major Advisers: Profs. S.L. Deno and T.I. Thompson. Graduation Pending.

**Driss Benessalah, Morocco**

M.S. '76, International Institute for Aerial Survey and Earth Sciences; M.S. '81, University of Minnesota. Major: Forestry. Minor: Statistics. Thesis: Forest Area Estimation Using Cluster Sampling in Single and Double Phase Sampling Designs. Major Adviser: Prof. A.R. Ek. July Graduate.

**Noel Francis Beninati, Charlton, N.Y.**

B.A. '74, University of New York at Albany; M.S. '82, University of Florida. Major: Plant Breeding. Minor: Supporting Program. Thesis: Inheritance of Grain Protein in Two Hard Red Spring Wheat Crosses. Major Adviser: Prof. R.H. Busch. October Graduate.

**John August Bennek, Minneapolis**  
B.A. magna cum laude '78, College of St. Thomas.  
Major: Chemistry. Minor: Supporting Program.  
Thesis: Mechanistic, Analytical, and Synthetic  
Studies of Glycosidic Reductive Cleavage. Major  
Adviser: Prof. G.R. Gray. Graduation Pending.

**Karl Edward Bennett, Hockessin, Del.**  
B.S.E. with highest honors '76, Princeton Univer-  
sity. Major: Chemical Engineering. Minor: Sup-  
porting Program. Thesis: Microemulsion Phase  
Behavior and Rheology. Major Advisers: Profs.  
H.T. Davis and L.E. Scriven. June Graduate.

**Mark Alan Bennett**  
B.A. '77, St. Olaf College; M.S. '82, University of  
Minnesota. Major: Horticulture. Minor: Sup-  
porting Program. Thesis: Improving Sweet Corn  
Germination and Seedling Growth at Low Temper-  
atures with Seed Hydration Treatments. Major Ad-  
viser: Prof. J.V. Carter. Graduation Pending.

**Robert John Bensen, St. Paul**  
B.A. with high honors '78, St. Cloud State Univer-  
sity. Major: Biochemistry. Minor: Plant Physi-  
ology. Thesis: Uracil-DNA Glycosylase Activity in  
Plants. A Kingdom Survey, the Purification and  
Characterization of Activity from Neurospora  
Crassa Hyphae and Zea Maize Nuclei, Chloroplasts  
and Mitochondria, and a Physiological Model for  
Activity Levels. Major Adviser: Prof. H.R. Warner.  
August Graduate.

**Carol Eve Bezuidenhout**  
B.A. '77, B.S. with honors '78, University of Witwa-  
tersrand. Major: Mathematics. Minor: Statistics.  
Thesis: Small Random Perturbations of Stochastic  
Systems. Major Adviser: Prof. Steven Orey. July  
Graduate.

**Jayaram Bhasker, New Delhi, India**  
B.Tech. E.E. '77, M.Tech. '82, Indian Institute of  
Technology, Delhi. Major: Computer and Informa-  
tion Sciences. Minor: Supporting Program. Thesis:  
Algorithms for Physical Design Automation Prob-  
lems. Major Adviser: Prof. S.K. Sahni. October  
Graduate.

**Diana Jean Bigelow, Minneapolis**  
B.S. '75, University of Iowa. Major: Biochemistry.  
Minor: Chemistry. Thesis: Lipid and Protein Dy-  
namics in Sarcoplasmic Reticulum. Major Adviser:  
Prof. D.D. Thomas. August Graduate.

**Judith Lynn Simms Billings, Kearney,  
Neb.**  
B.S. '65, Fort Hays Kansas State College; M.S. '74,  
University of Minnesota. Major: Educational Ad-  
ministration. Minor: Nursing. Thesis: A Compari-  
son of Roles of Head Nurses According to Hospital  
Size. Major Adviser: Prof. V.D. Mueller. July  
Graduate.

**Joan Eileen Bird**  
B.S. '73, D.V.M. '74, Texas A&M University. Ma-  
jor: Pharmacology. Minor: Supporting Program.  
Thesis: The Protective Effect of Inhibitors of Or-  
ganic Cation Transport on Nephrotoxicity Induced  
by CIS-Diamminedichloroplatinum (II). Major Ad-  
viser: Prof. A.J. Quebbeman. Graduation Pending.

**Mark Edward Braaten, East Aurora,  
N.Y.**  
B.S. summa cum laude '78, M.S. '80, State Univer-  
sity of New York. Major: Mechanical Engineering.  
Minor: Supporting Program. Thesis: Development  
and Evaluation of Iterative and Direct Methods for  
the Solution of the Equations Governing Recircu-  
lating Flows. Major Adviser: Prof. S.V. Patankar.  
June Graduate.

**Terry Neil Brownschidle, Haddon  
Heights, N.J.**  
B.S. '73, Cornell University. Major: Agricultural  
and Applied Economics. Minor: Economics. The-  
sis: An Evaluation of the Economic Incentives of  
Water Use Charges for Producers Under Uncer-  
tainty. Major Adviser: Prof. V.R. Eidman. August  
Graduate.

**Carol Jean Bryant**  
B.S. '63, M.A. '81, Spec.Cert. '82, University of  
Minnesota. Major: Educational Administration.  
Minor: Supporting Program. Thesis: The Decision  
Orientations of Minnesota State Legislators Rela-  
tive to the Issue of Educational Quality and Excel-  
lence. Major Adviser: Prof. T.L. Mazzoni. July  
Graduate.

**Clint Bucher**  
M.Ed. '73, South Dakota State University; M.A.  
'79, University of South Dakota. Major: Vocational  
Education. Minor: Supporting Program. Thesis: A  
Study of Perceptions of Vocational Education Pur-  
poses Associated with Vocational Service Areas in  
Minnesota Area Vocational Technical Institutes.  
Major Adviser: Prof. D.J. Pucel. June Graduate.

**Eugene Harvey Bunnell, Minneapolis**  
A.B. magna cum laude '69, M.A. '70, St. Louis Uni-  
versity. Major: History. Minor: Religious Studies.  
Thesis: Anton Gunther and Johann Emanuel Veith-  
The Theologian and the Preacher: A Study in Hab-  
sburg Roman Catholicism in the Biedermeier Era.  
Major Advisers: Profs. W.E. Wright and J.L. Al-  
tholz. July Graduate.

**Harry Benson Burcalow, Bruce, Wis.**  
B.S. '61, University of Wisconsin, Madison; M.S.  
'65, University of Minnesota. Major: Vocational  
Education. Minor: Supporting Program. Thesis:  
Forecasting the Structure of Minnesota Agriculture  
and the Changes Needed Within the Minnesota  
Agricultural Extension Service by the Year 2000--A  
Delphi Study. Major Adviser: Prof. G.I. Swanson.  
July Graduate.

Leonard Emanuel Burman, Lewiston, Me.

B.A. cum laude '75, Wesleyan University. Major: Economics. Minor: Supporting Program. Thesis: A Dynamic Model of Housing Demand with Transaction Costs. Major Adviser: Prof. C.E. Swan. Graduation Pending.

Cynthia Ruth Busch, St. Paul

B.A. '71, Northwestern University; B.S. '73, University of Michigan. Major: Communication Disorders. Minor: Supporting Program. Thesis: Referential Communication Abilities of Aphasic Speakers. Major Adviser: Prof. R.H. Brookshire. September Graduate.

Dee Dee Christine Carpenter, St. Paul

B.S. '79, University of Wisconsin, Madison; M.S.T. '75, University of Wisconsin, Eau Claire. Major: Educational Administration. Minor: Supporting Program. Thesis: Minnesota Superintendents' Perceptions of Their Role and Influence in School Board Agenda Setting. Major Advisers: Profs. V.D. Mueller and T.L. Mazzoni. Graduation Pending.

Michel Jean Carpentier

Lic. '76, Mait. '76, University de Rennes; Lic. '77, DEA '77 University de Rennes. Major: Mathematics. Minor: Supporting Program. Thesis: P-Adic Cohomology of Generalized Hyperkloosterman Sums. Major Adviser: Prof. S.I. Sperber. August Graduate.

Thomas Paul Carrillo, East Grand Forks

B.A. '75, Moorhead State University; M.A. '79, University of Northern Colorado. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Study of Men Who Batter: Demographic and Psychological Indicators for Prediction of Completion of Treatment. Major Adviser: Prof. A.R. Anderson. July Graduate.

Reba Anne Carruth, Baltimore, Md.

B.A. cum laude '77, University of Baltimore; M.A. '80, The American University. Major: Sociology. Minor: Supporting Program. Thesis: Compliance in Intergovernmental Organizations. The Case of Steel Policy Coordination in the European Economic Community and the Organization for Economic Cooperation and Development. Major Adviser: Prof. David Cooperman. Graduation Pending.

Ada Lou Carson, Big Rapids, Mich.

A.B. magna cum laude '53, University of Pittsburgh. Major: English. Minor: Supporting Program. Thesis: Thomas Pickman Tyler's "Memoirs of Royall Tyler": An Annotated Edition. Major Adviser: Prof. E.M. Griffin. August Graduate.

Amir Chaboki, Teheran, Iran

B.S.M.E. '80, Michigan Technological University; M.S. '83, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Melting in a Cylindrical Capsule Rotating About a Colinear Axis. Major Adviser: Prof. E.M. Sparrow. Graduation Pending.

Katherine Anne Chandler, St. Paul

A.B. '67, Wheaton College; M.A. '76, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Intellectual Freedom and the Use of Trade Books in the Elementary School: Perceptions of Principals. Major Adviser: Prof. R.N. Odland. June Graduate.

Kil Sang Chang, Korea

B.E. '76, Hanyang University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Counter Currently Cooled CSTRs. Major Adviser: Prof. Rutherford Aris. August Graduate.

Yueh-Ing Chang

B.S.Ag. '78, National Taiwan University; M.S. '82, University of Minnesota. Major: Food Science. Minor: Supporting Program. Thesis: Resolution, Quantitation and Reaction of Chiral Flavor Compounds. Major Adviser: Prof. G.A. Reineccius. Graduation Pending.

Phillip Lee Chapman, Los Angeles, Calif.

A.B. '71, University of California, Berkeley. Major: Statistics. Minor: Supporting Program. Thesis: Evaluation of a Pivotal Quantity for Use with the Bootstrap. Major Adviser: Prof. David Hinkley. August Graduate.

Shirmy Yen Chen, St. Paul

B.S.Ag. '66, National Taiwan University; M.Ed. '69, East Stroudsburg State College. Major: Horticulture. Minor: Botany. Thesis: In Vitro Studies on Organogenesis in Leatherleaf Fern (*Rumohra adiantiformis*). Major Adviser: Prof. P.E. Read. Graduation Pending.

Yi-chao Chen, Peking, China

M.S.E. '82, Johns Hopkins University. Major: Mechanics. Minor: Mathematics. Thesis: Some Stability Problems for Elastic Materials. Major Adviser: Prof. J.L. Ericksen. Graduation Pending.

Lin-Lin Cherng

B.S. '74, M.S. '76, National Taiwan University; M.A. '82, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Chinese College Students' Help-Seeking and Receiving Processes. Major Adviser: Prof. T.J. Hummel. September Graduate.



**Stephen Linn Chew, Dallas, Tex.**

B.A. with highest honors '78, University of Texas, Austin. Major: Psychology. Minor: Supporting Program. Thesis: The Use of Traffic Sounds by Blind Pedestrians. Major Adviser: Prof. H. L. Pick. Graduation Pending.

**Martha Carol Chrisman, Berca, Ky.**

B.A. cum laude '76, St. Olaf College; M.A. '80, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Popular Songs of the Genteel Tradition: Their Influence on Music Education in Public Schools of Louisville, Kentucky, from 1850 to 1880. Major Adviser: Prof. E. M. Turrentine. Graduation Pending.

**Linda R. Christensen, Elk River**

B.S. cum laude '74, Bemidji State College; M.Ed. '81, University of Minnesota, Duluth. Major: Educational Administration. Minor: Supporting Program. Thesis: Drug and Alcohol Education in Minnesota K-6 Public Schools. Major Adviser: Prof. N. C. Nickerson. September Graduate.

**Cheng-Chih Chu, Fengyuan, Taiwan**

B.S. '77, National Chiao Tung University; M.S.E.E. '81, University of Minnesota. Major: Control Sciences and Dynamical Systems. Thesis: H-Infinity Optimization and Robust Multivariable Control. Major Adviser: Prof. E. B. Lee. September Graduate.

**In Keun Chung, Korea**

B.S. '70, M.B.A. '73 Seoul National University. Major: Business Administration. Minor: Supporting Program. Thesis: An Investigation of the Relationship Between the Corporate Planner's Personal Characteristics and the Successful Functioning of the Corporate Planning Process. Major Adviser: C. R. Adams. Graduation Pending.

**Mingking K. Chyu, Taiwan**

B.S. '74, National Tsing Hua University; M.S. '77, University of Cincinnati. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Influence of Roughness Elements on Local Mass Transfer from a Flat Surface. Major Advisers: Profs. R. J. Goldstein and S. V. Patankar. Graduation Pending.

**Charles James Clanton, St. Paul**

B.S. Ag. E. '76, B.S. Ag. '77, M.S. '79, University of Nebraska, Lincoln. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Adaptation of the NTRM Model for Land Application of Wastewater. Major Advisers: Profs. D. C. Slack and P. R. Goodrich. October Graduate.

**L. Kirk Clark, Arden Hills**

D.V.M. '65, Purdue University. Major: Veterinary Medicine. Minor: Animal Science. Thesis: Factors That Influence Litter Size in Pigs. Major Adviser: Prof. A. D. Leman. September Graduate.

**Joan Kay Comeau, Blaine**

B.S. with distinction '70, Iowa State University; M.A. '76, Chapman College. Major: Family Social Science. Minor: Supporting Program. Thesis: Family Stressors, Resources, and Perceptions: Impact on the Health Status of the Chronically Ill Child. Major Adviser: Prof. H. I. McCubbin. August Graduate.

**Brian George Conley, New York, N. Y.**

B.A. '74, State University of New York at Binghamton; M.F.A. '82, University of Minnesota. Major: Philosophy. Minor: Supporting Program. Thesis: Goodman and the Similarity Theory of Pictorial Representation. Major Adviser: Prof. D. R. Lewis. Graduation Pending.

**David Carlton Cook**

B. Phys. with distinction '80, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: A Study of 208Pb by Inelastic Proton Scattering at 318 MeV. Major Adviser: Prof. N. M. Hintz. September Graduate.

**Jeffrey Scott Coultas**

B.A. '73, B.S. '77, M.S. '79, University of Wisconsin, Madison. Major: Agronomy. Minor: Supporting Program. Thesis: Growth and Development of Wild Proso Millet (*Panicum Miliaceum* L.) in Three Cropping Systems and Natural Infestations. Major Adviser: Prof. Richard Behrens. Graduation Pending.

**James Stewart Davidson, Moss Point,**

**Miss.**

B.S. '74, United States Military Academy. Major: Physics. Minor: Supporting Program. Thesis: Studies of Thermoelectric Effects in Dimensionally Constrained Systems. Major Adviser: Prof. E. D. Dahlberg. September Graduate.

**Shirley Joy Dawson**

B.A. with honors '69, Wheaton College; M.A. '76, Mankato State University. Major: Physical Education. Minor: Supporting Program. Thesis: Kinematic Analysis of the Stride Characteristics of Male and Female Cross-Country Ski Racers. Major Adviser: Prof. L. J. Stoner. July Graduate.

**Kenneth George DeBono, Holbrook,**

**N. Y.**

A.B. with honors, '80, Grinnell College. Major: Psychology. Minor: Supporting Program. Thesis: Attitudes and Persuasion: Functional Theories Revisited. Major Adviser: Prof. Eugene Borgida. September Graduate.

Christine Jeanne Detournay, Liege,  
Belgium  
Ing. '76, Universite de Liege; M.S.C.E. '80, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Application of Boundary Elements to the Hodograph Method. Major Adviser: Prof. O.D. Strack. Graduation Pending.

Norma Jean Dison  
B.A. '52, Valparaiso University; M.A. '74, M.S. '79, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Dilemmas of Baccalaureate Nursing Students. Major Adviser: Prof. J.R. Rest. July Graduate.

Janet Mihnovecs Dukerich, Akron,  
Ohio  
B.S. '79, M.A. '81, Ohio State University. Major: Business Administration. Minor: Supporting Program. Thesis: Causal Analysis in Managerial Decision Making: An Investigation of Hypothesis Generation and Testing Strategies. Major Adviser: Prof. M.L. Nichols. June Graduate.

Sara Joan Eaton, St. Louis Park  
B.S. '70, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: The Rhetoric of Sexual Revenge in Jacobean Drama. Major Adviser: Prof. M.S. Sprengnether. October Graduate.

Rebecca Ann Eder, Dallas, Tex.  
A.B. '77, Oberlin College. Major: Child Psychology. Minor: Supporting Program. Thesis: Children's and Adults' Concepts of Themselves and Other Persons: The Development of the Semantic and Episodic Components of Person Memory. Major Adviser: Prof. M.A. Perlmutter. July Graduate.

Stephen Gregory Eick, East Lansing,  
Mich.  
B.A. magna cum laude '80, Kalamazoo College; M.A. '81, University of Wisconsin, Madison. Major: Statistics. Minor: Mathematics. Thesis: Sequential Experimentation with Delayed Responses. Major Adviser: Prof. D.A. Berry. August Graduate.

Zina Abboud El-Itaoui, Tripoli,  
Lebanon  
Lic. '79, Lebanese University. Major: Physics. Minor: Supporting Program. Thesis: Effective Operators in Nuclear Reactions. Major Adviser: Prof. P.J. Ellis. September Graduate.

Julie Ann Erfanirezaiansari, Canton,  
Ill.  
B.A. magna cum laude '78, Knox College; M.A. '81, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: State Building and Dependent Industrialization in Mexico. Major Advisers: Profs. R.D. Duvall and G.W. Wynia. June Graduate.

Rita Jane Erickson, White Bear Lake  
A.B. with distinction '70, Smith College; M.A. '73, Columbia University. Major: Anthropology. Minor: Supporting Program. Thesis: Energy Use in Cultural Context: An Ethnographic Comparison of Households in Minnesota and Sweden. Major Adviser: Prof. L.P. Gerlach. July Graduate.

Clark Neil Evans, Watertown, S.D.  
A.B. '72, A.M. '75, University of South Dakota; M.S.Ed. '75, Northern State College. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationship of Preventive Law Practices to Minnesota School Board Legal Problems. Major Adviser: Prof. T.L. Mazzoni. July Graduate.

JoJean Ewart, Northville, S.D.  
B.S. with honors '73, University of South Dakota; M.A. '80, Purdue University. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Dynamics of the Organizational "Engineering" of a Newcomer to Crew Member: A Descriptive Analysis of the Socialization Process in Local Television News Stations. Major Advisers: Profs. C.R. Bantz and G.L. Shapiro. July Graduate.

Bassey Asuquo Eyo  
B.S. '78, M.A. '80, University of Wisconsin, Stevens Point. Major: Speech-Communication. Minor: Supporting Program. Thesis: Quality Circles, Involvement Teams, and Participative Management in Modern Business Culture: A Study of the Rhetorical Visions of Line-Unit Managers, Employees, and Facilitators. Major Adviser: Prof. E.G. Bormann. July Graduate.

Stephen Hudson Farra, Brainerd  
A.B. with honors '73, A.M. with high honors '74, Wheaton College. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Four Different Methods of Counseling and Sex of Counselor on the G.P.A. Performance of Underachieving College Freshmen. Major Adviser: Prof. M.L. Snoko. August Graduate.

Ann Fennell, Council Bluffs, Iowa  
B.S. '79, Iowa State University of Science and Technology; M.S. '82, University of Minnesota. Major: Horticulture. Minor: Plant Physiology. Thesis: Cold Acclimation and Water Relations of *Spinacia Oleracea* L. Major Adviser: Prof. P.H. Li. October Graduate.

Saeed Fereshtehkhou, Tehran, Iran  
B.S. '78, University of Tehran; M.S. '82, University of Minnesota. Major: Forestry. Minor: Mechanical Engineering. Thesis: Electron Microscopic Structure of Monolayers at the Air/Water Interface. Major Adviser: Prof. R.D. Neuman. October Graduate.

**Barbara Anderson Flannery, Duluth**  
B.A. '76, M.S. honors '78, Iowa State University. Major: Home Economics. Minor: Supporting Program. Thesis: Housing Characteristics and Constraints of Adult Households. Major Advisers: Profs. M.J. Hogan and C.C. Cook. Graduation Pending.

**Steven Robert Flom**  
B.A. '74, Trinity College. Major: Chemistry. Minor: Supporting Program. Thesis: The Dynamics of Electronically Excited Molecules in Solution. Major Adviser: Prof. P.F. Barbara. Graduation Pending.

**Irene Maria Fonseca, Lisbon, Portugal**  
Lic. '80, University of Lisbon. Major: Mathematics. Minor: Supporting Program. Thesis: Variational Methods for Elastic Crystals. Major Adviser: Prof. D.S. Kinderlehrer. August Graduate.

**Monika Lehmann Forner, Apple Valley**  
B.A. '72, University of Minnesota. Major: Linguistics. Minor: Child Psychology. Thesis: My Teacher in My House: Discourse and Syntax in Caretaker-Child Interactions. Major Adviser: Prof. G.A. Sanders. June Graduate.

**Glenn Cameron Fox, Hamilton, Ontario**  
B.S. with honors '77, M.S. '79, University of Guelph. Major: Agricultural Economics. Minor: Economics. Thesis: Optimal Public Investment in U.S. Agricultural Research: A Study in the Management of Technical Change. Major Adviser: Prof. V.W. Ruttan. Graduation Pending.

**Scott Herbert Fricke, Bismarck, N.D.**  
B.S. '79, North Dakota State University. Major: Physics. Minor: Supporting Program. Thesis: A Theoretical Study of Anomalous Projectile Fragments Produced in Relativistic Heavy Ion Interactions. Major Adviser: Prof. B.F. Bayman. October Graduate.

**Max LeRoy Fritzier, Alexander, Kan.**  
B.A. '77, University of Kansas; M.A. '81, University of Minnesota. Major: Philosophy. Minor: History. Thesis: Moral Intersubjectivity. Major Adviser: Prof. N.O. Dahl. August Graduate.

**Robert Louis Gambone, Wakefield, Mass.**  
A.B. magna cum laude '71, Boston College; M.A. '82, University of Minnesota. Major: Art History. Minor: American Studies. Thesis: That Old-Time Religion Painting, Drawing and the Culture of Revivalism in America, 1915-1940. Major Adviser: Prof. K.A. Marling. October Graduate.

**Arup Gangopadhyay, Calcutta, India**  
B.E. '79, University of Calcutta; M.Tech '83, Indian Institute of Technology, Kanpur. Major: Mineral Engineering. Minor: Supporting Program. Thesis: The Role of Abrasion and Corrosion on Grinding Media Wear. Major Adviser: Prof. J.J. Moore. Graduation Pending.

**Alfonso Garcia-Gutierrez, Ramos Arizpe, Mexico**  
Ing. Quim. '76, Universidad Autonoma de Coahuila; M.S. '79, University of Salford. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Effect of Spatially Periodic Heating or an Abrupt Contraction at Inlet on Transitional and Turbulent Heat Transfer in a Duct. Major Adviser: Prof. E.M. Sparrow. September Graduate.

**Gregg Thomas Geiger, Pittsburgh, Pa.**  
B.S.M.E. with highest distinction '82, Purdue University; M.S.M.E. '84, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Melting of an Encapsulated Solid, Either Fixed or Free To Fall Under Gravity, with or Without Rotation. Major Adviser: Prof. E.M. Sparrow. October Graduate.

**Robert Louis Geneve, New York, N.Y.**  
B.S. '76, University of Maryland; M.S. '78, Pennsylvania State University. Major: Horticulture. Minor: Plant Physiology. Thesis: The Role of Ethylene in Adventitious Root Initiation in De-Bladed Petioles of the Juvenile and Mature Phase of Hedera Helix L. Major Advisers: Profs. W.P. Hackett and B.T. Swanson. September Graduate.

**Daniel Edward Geraghty, Seattle, Wash.**  
B.S. '77, University of Washington. Major: Genetics. Minor: Supporting Program. Thesis: Structure and Organization of the Zein Multigene Family. Major Adviser: Prof. Irwin Rubenstein. Graduation Pending.

**Anne Heller Goodman, Minneapolis**  
B.A. honors '72, University of Cincinnati. Major: Educational Psychology. Minor: Supporting Program. Thesis: Cotherapists' Status and Perception of Team's Expertness. Major Adviser: Prof. W.F. Shaffer. Graduation Pending.

**Carl Eugene Granrud, St. Paul**  
B.A. '80, Luther College. Major: Child Psychology. Minor: Supporting Program. Thesis: Binocular Vision and Spatial Perception in 4- and 5-Month-Old Infants. Major Adviser: Prof. Albert Yonas. July Graduate.

**Kevin Lorenz Grueber, Traverse City, Mich.**

B.S. '79, Michigan State University. Major: Horticulture. Minor: Plant Physiology. Thesis: Control of Lateral Branching and Reproductive Development in *Euphorbia Pulcherrima* Willd. Ex Klotzch. Major Adviser: Prof. H.F. Wilkins. Graduation Pending.

**Roger John Grusznski, Green Bay, Wis.**

B.A. with distinction '72, University of Wisconsin, Madison; M.S. '76, University of Wisconsin, Oshkosh. Major: Educational Psychology. Minor: Supporting Program. Thesis: Court-Ordered Treatment of Men Who Batter. Major Adviser: Prof. D.R. Loeffler. August Graduate.

**Aloke Guha, Calcutta, India**

B.Tech '80, Indian Institute of Technology, Kanpur; M.S.E.E. '82, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Science. Thesis: Concurrent Testing of Microprogram Control Units and Combinational Logic. Major Adviser: Prof. L.L. Kinney. Graduation Pending.

**Steven C. Hackett, Sauk Rapids**

B.A. '78, St. Cloud State University. Major: Chemistry. Minor: Supporting Program. Thesis: The Preparation and Utility of the Ketene-O-Methyl, S-Phenyl-Acetal Moiety: An Application to the Partial Synthesis of d,l-Quadron and a Formal Total Synthesis of d,l-Mesembrine. Major Adviser: Prof. T.S. Livinghouse. Graduation Pending.

**Gregory Hall**

B.S. with high scholarship '79, Oregon State University. Major: Physics. Minor: Supporting Program. Thesis: Vibrational Excitation in Molecular Collisions. Major Adviser: Prof. C.F. Giese. June Graduate.

**Kim Jon Hamann, Rock Valley, Iowa**

B.A. magna cum laude '76, Augustana College; M.S. '78, University of Minnesota. Major: Zoology. Minor: Supporting Program. Thesis: In Vitro Aspects of Immunity to Developing *Ascaris Suum* Larvae. Major Adviser: Prof. B.E. Stromberg. Graduation Pending.

**Cheryl Rose Hamilton, Bloomington**

B.S. magna cum laude '75, M.A. '77, Eastern Michigan University. Major: Educational Administration. Minor: Supporting Program. Thesis: Factors Influencing Administrative and Instructional Use of Computers in Independent Schools. Major Adviser: Prof. V.D. Mueller. June Graduate.

**Peter Randall Hamilton**

B.S. with distinction '76, University of Wisconsin, Madison. Major: Economics. Minor: Supporting Program. Thesis: The Applied Welfare Economics of University Registration: A Study in Multiobject Auctions. Major Adviser: Prof. H.D. Mohring. August Graduate.

**Brian Harley Hanson, Deer Creek**

B.A. summa cum laude '78, Moorhead State University; M.A. '80, University of Minnesota. Major: Geography. Minor: Physics. Thesis: Climate Sensitivity of a Numerical Model of Ice-Sheet Dynamics and Thermodynamics. Major Advisers: Profs. R.H. Skaggs and R.L. Hooke. August Graduate.

**David Andrew Hanych, Cleveland, Ohio**

B.S. '74, M.S. '77, M.S. '78, Cleveland State University. Major: Ecology. Minor: Supporting Program. Thesis: Web Site Selection and Cold-Hardiness Physiology in the Spider, *Frontinella pyramitela* (Linyphidae). Major Adviser: Prof. W.D. Schmid. Graduation Pending.

**Moira Ellen Harris, St. Paul**

B.A. magna cum laude '56, M.A. '77, University of Minnesota. Major: Art History. Minor: Supporting Program. Thesis: The Royal Cloth of Cameroon. Major Advisers: Profs. M.J. Nelson and J.B. Eicher. September Graduate.

**Frank L. Hassebrock, Mount Pulaski, Ill.**

A.B. '75, University of Illinois; M.A. '77, California State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Problem Solving Expertise and Cognitive Efficiency in Medical Diagnosis. Major Adviser: Prof. P.E. Johnson. August Graduate.

**Daniel Arthur Haugen, Robbinsdale**

B.A. magna cum laude '77, University of Wisconsin, Eau Claire; M.S.S.W. '78, University of Wisconsin, Madison. Major: Social Work. Minor: Supporting Program. Thesis: An Analysis of Child Commitment and Placement Trends in Minnesota, 1970-1981. Major Advisers: Profs. C.D. Hollister and P.A. AuClaire. June Graduate.

**Adel Elahmadi Heiba, Princeton, N.J.**

B.S.Ch.E. '79, Massachusetts Institute of Technology. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Porous Media: Fluid Distributions and Transport with Applications to Petroleum Recovery. Major Advisers: Profs. H.T. Davis and L.E. Scriven. Graduation Pending.

**Steven John Heilig, St. Paul**

B.S. with honor '79, University of Wyoming. Major: Physics. Minor: Internal. Thesis: A Search for Free Fractional Charge. Major Adviser: Prof. M.A. Shupe. August Graduate.

**Paul Donald Hesterman, Minneapolis**  
B.A. summa cum laude '73, Luther College; M.A. '77, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Interests, Values, and Public Policy for an Urban River: A History of Development Along the Mississippi River in Saint Paul, Minnesota. Major Adviser: Prof. G.D. Green. Graduation Pending.

**Abdelali Hilali, Morocco**  
Dipl. Agron. Gen., Institut Agronomique Generale. Major: Soil Science. Minor: Microbiology. Thesis: Establishment, Survival and Effectiveness of Selected Strains of Rhizobium Phaseoli in a Moroccan Coastal Acidic Soil. Major Adviser: Prof. J.E. Molina. Graduation Pending.

**Abderrahmane Hilali, Morocco**  
Dipl. Agron. Gen. '72, Dipl. Ing. Agron. '75, Institut Agronomique Hassan II. Major: Horticulture. Minor: Supporting Program. Thesis: Reciprocal Differences, Variability and Implication to Potato Production from True Seed of Tuberosum X Phureja Hybrids. Major Adviser: Prof. F.I. Lauer. Graduation Pending.

**In Sung Hoang**  
B.S. Ag. '73, M.S. Ag. '80, Seoul National University. Major: Plant Pathology. Minor: Supporting Program. Thesis: The Dynamics of Stem Rust Epidemics and Wheat Growth in Multivars. Major Advisers: Profs. P.S. Teng and A.P. Roelfs. Graduation Pending.

**James Steven Hodges, Arnprior, Canada**  
B. Math. '79, University of Waterloo. Major: Statistics. Minor: Public Affairs. Thesis: Methods for Assessing the Accuracy of Some Standard Approximations. Major Adviser: Prof. Seymour Geisser. August Graduate.

**Daniel Matthews Hooley, Minneapolis**  
B.A. '76, M.A. '83, University of Minnesota. Major: English. Minor: Latin. Thesis: "The Classics in Paraphrase": Ezra Pound and Modern Translators of Classical Poetry. Major Adviser: Prof. P.E. Firchow. June Graduate.

**Carolyn JoAnn Hovde, Minneapolis**  
B.S. '75, University of Illinois. Major: Microbiology. Minor: Supporting Program. Thesis: Killing of Pseudomonas aeruginosa by a Bactericidal Protein from the Cytoplasmic Granules of Human Polymorphonuclear Leukocytes. Major Adviser: Prof. B.H. Gray. Graduation Pending.

**Yen-Con Hung, Taipei, Taiwan**  
B.E. '77, Taiwan Provincial College of Marine and Oceanic Technology; M.S. '82, University of Minnesota. Major: Food Science. Minor: Supporting Program. Thesis: Pea Quality Change Mechanisms During Freezing and Storage. Major Adviser: Prof. D.R. Thompson. Graduation Pending.

**Mary Holt Hunsperger, St. Paul**  
B.S. '74, University of Iowa; M.S. '81, Michigan State University. Major: Plant Breeding. Minor: Supporting Program. Thesis: Effects of Sugary-1 Locus on Plant and Ear Traits in Corn. Major Adviser: Prof. D.W. Davis. September Graduate.

**Amanda Hyatt, Rochester**  
B.A. '76, St. Olaf College; M.Ed. '78, University of Illinois. Major: Educational Psychology. Minor: Supporting Program. Thesis: Effects of Relationship Tension on the Early Adjustment of Children. Major Adviser: Prof. Byron Egeland. September Graduate.

**Choong Ho Hyun, Minneapolis**  
B.E.E. '80, M.S.E.E. '82, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Analysis and Design of Novel Semiconductor Devices and Integrated Circuits. Major Adviser: Prof. Michael Shur. September Graduate.

**Jan Jeffrey Jackson, Brookings, S.D.**  
B.S. '72, M.S. '73, South Dakota State University. Major: Entomology. Minor: Supporting Program. Thesis: Parasitism of the Western Corn Rootworm with the Nematode, Steinernema Feltiae. Major Adviser: Prof. M.A. Brooks-Wallace. July Graduate.

**Pamala Wood Jacobel, Northfield**  
B.S. '69, University of California, Irvine; M.S. '70, Iowa State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Child Sexual Abuse with and Without Other Physical Abuse: Are They Different Phenomena? Major Adviser: Prof. D.R. Loeffler. June Graduate.

**Jafar Jafari, Menomonie, Wis.**  
B.S. '70, M.S. '73, Cornell University. Major: Anthropology. Minor: Supporting Program. Thesis: The Tourism System: A Theoretical Approach to the Study of Tourism. Major Adviser: Prof. L.P. Gerlach. July Graduate.

**Suzanne Day James**  
B.A. summa cum laude '78, College of St. Benedict; M.S. '81, St. Cloud State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Social Interdependence, Negative Life Stress, Psychological Adjustment, and Marital Satisfaction: Four Variables in the Role-Making Process of Remarried Partners. Major Adviser: Prof. D.W. Johnson. July Graduate.

**Samson Ally Jenekhe, Okpella, Nigeria**  
B.S. high honor '77, Michigan Technological University; M.S.Ch.E. '80, M.A. '81, University of Minnesota. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Studies in Polymers for Microelectronics. Major Advisers: Profs. M.V. Tirrell and S.T. Wellinghoff. August Graduate.

**Gary Russell Jerauld, Bristol, R.I.**

B.S. magna cum laude '80, Rensselaer Polytechnic Institute. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Flow and Transport in Chaotic Media: Four Case Studies. Major Advisers: Profs. H.T. Davis and L.E. Scriven. June Graduate.

**Varghese John**

B.Sc.Tech. '80, University of Bombay. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Molecular Probes for the Inhibitory Site of PGH-Synthase. Major Advisers: Profs. P.S. Portoghese and T.J. Holmes. Graduation Pending.

**James Ralph Johnson, Ainsworth, Neb.**

B.S. '79, University of Nebraska; M.S. '80, University of Chicago. Major: Mathematics. Minor: Supporting Program. Thesis: Some Properties of a Three-Parameter Family of Diffeomorphisms of the Plane. Near a Transcritical Hopf Bifurcation. Major Adviser: Prof. R.P. McGehee. August Graduate.

**Jeffrey Earl Johnson**

B.Math. with distinction '76, M.S. '79, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: Tests of Supersymmetry. Major Adviser: Prof. Serge Rudaz. August Graduate.

**Lane Parker Johnson, Minneapolis**

B.S. '80, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: Molecular Analysis of Group A Streptococcal Pyrogenic Exotoxin Type A. Major Adviser: Prof. P.M. Schlievert. Graduation Pending.

**Patricia Ellen Johnson, Minneapolis**

A.B. with honors '73, Earlham College. Major: English. Minor: Supporting Program. Thesis: The Role of the Middle-Class Woman in the Mid-Nineteenth-Century British Industrial Novel. Major Advisers: Profs. W.A. Madden and M.S. Durham. July Graduate.

**William Edward Jokela, Cannon Falls**

B.A. cum laude '69, Carleton College; M.S. '78, University of Minnesota. Major: Soil Science. Minor: Supporting Program. Thesis: Corn Yield and Fate of Fertilizer Nitrogen as Affected by Time and Rate of Nitrogen Application. Major Advisers: Profs. G.W. Randall and W.E. Larson. Graduation Pending.

**Steven Arnold Kaatz, Eau Claire, Wis.**

B.A. '70, Concordia Teachers College; M.S.Ed. '75, University of Wisconsin, Eau Claire. Major: Educational Administration. Minor: Supporting Program. Thesis: A Description and Analysis of Federal Court Decisions Issued Under the Related Services Provision of the Education for All Handicapped Children Act. Major Advisers: Profs. R.F. Weatherman and C.P. Hooker. July Graduate.

**Harry Mason Kaiser, Marshfield, Wis.**

B.A. magna cum laude '79, University of Wisconsin, Eau Claire; M.S. '81, University of Minnesota. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: An Analysis of Farm Commodity Programs as Risk Management Strategies for Minnesota Corn-Soybean Producers. Major Adviser: Prof. Jeffrey Apland. September Graduate.

**Jakov Karni, Bet-Alfa, Israel**

B.C.E. with distinction '79, M.S.M.E. '82, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Endwall Boundary Layer, Cylinder Diameter, Reynolds Number, and Surface Injection Effects on Local Mass Transfer from a Cylinder in Crossflow. Major Adviser: Prof. R.J. Goldstein. September Graduate.

**Jun Katsuki, Komatsu-shi, Japan**

A.B. magna cum laude '80, Radcliffe College; M.A. '82, University of Minnesota. Major: Communication Disorders. Minor: Supporting Program. Thesis: Comprehension of Narratives and Dialogues by Aphasic and Nonaphasic Listeners. Major Adviser: Prof. R.H. Brookshire. August Graduate.

**Michael Keefe, Minneapolis**

B.S. with highest honors '78, University of Notre Dame; M.S.M.E. '80, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Computer-Assisted Tool to Semi-Automatically Generate Three-Dimensional Facial Soft-Tissue Information. Major Adviser: Prof. D.R. Riley. June Graduate.

**Sue Lynn Keihn, Wausau, Wis.**

B.A. '73, M.S. '75, University of Wisconsin, Madison. Major: Educational Psychology. Minor: Supporting Program. Thesis: College Choice as a Function of Predicted Success. Major Adviser: Prof. T.J. Hummel. Graduation Pending.

**Barbara Jean Keinath, Circle Pines**

B.A. with honors '73, M.A. '76, Michigan State University. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of the Strategic Planning Processes of Six State Universities Using Chafee's Strategy Models. Major Advisers: Profs. W.M. Ammentorp and B.B. Pillinger. Graduation Pending.

**Mohammad Ali Ketabchi, Astara, Iran**

M.S. '81, George Washington University. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: On the Management of Computer Aided Design Databases. Major Advisers: Profs. V.A. Berzins and K.J. Maly. Graduation Pending.

**Jeung Lark Kim, Korea**

B.S.E. '71, Seoul National University; M.S.Ch.E. '75, Massachusetts Institute of Technology. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Demineralization of Calcium Phosphates and Other Minerals. Major Adviser: Prof. E.L. Cussler. Graduation Pending.

**Young Jin Kim, Chonju, Korea**

B.E. '80, Hanyang University; M.S. '83, University of Minnesota. Major: Metallurgy and Materials Science. Minor: Supporting Program. Thesis: Corrosion Reactions of Titanium Alloys in Gamma Radiolysis Environment. Major Adviser: Prof. R.A. Oriani. October Graduate.

**David J. Klein**

B.S. magna cum laude '74, Beloit College; M.D. '77, Yeshiva University. Major: Biochemistry. Minor: Supporting Program. Thesis: Characterization of Glomerular Heparan Sulfate and Dermatan Sulfate Proteoglycans. Major Adviser: Prof. T.R. Oegema. Graduation Pending.

**Peter Chuen-Sun Kong**

B.S. '74, Lincoln University; M.S. '78, University of North Carolina, Greensboro. Major: Metallurgy and Materials Science. Minor: Supporting Program. Thesis: Synthesis of Ultrafine Beta-Silicon Carbide Powders in Thermal Plasmas. Major Advisers: Profs. J.M. Sivertsen and Emil Pfender. September Graduate.

**Joel Kopinsky**

B.S. with distinction '80, University of the Witwatersrand. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Dissolution of Porous Solids. Major Advisers: Profs. E.L. Cussler and Rutherford Aris. August Graduate.

**Susan Kathleen Kovar, Cedar Rapids, Neb.**

B.S. '67, University of Nebraska; M.S. '70, University of Illinois. Major: Physical Education. Minor: Supporting Program. Thesis: Faculty Development in Physical Education in the Big Ten Universities. Major Adviser: Prof. E.M. Jaeger. September Graduate.

**Timothy William Kraft, Kodiak, Alaska**

B.S. '79, Massachusetts Institute of Technology. Major: Physiology. Minor: Supporting Program. Thesis: Anatomical Observations and Physiological Implications of the Fine Structure of the Cone Photoreceptors in the Walleye Retina. Major Adviser: Prof. R.L. Purple. July Graduate.

**Khemais Kraiem, Khniss, Tunisia**

B.S. '76, Institut National Agronomique de Tunis; M.S. '78, University of Minnesota. Major: Animal Science. Minor: Supporting Program. Thesis: Protein and Fiber Utilization by Cattle Fed Alfalfa, Birdsfoot Trefoil or Sainfoin Preserved as Hay Silage. Major Adviser: Prof. J.C. Meiske. August Graduate.

**Mary Louise Krall, Minneapolis**

B.S. '61, College of St. Catherine; M.S. '75, University of Minnesota. Major: Hospital and Health Care Administration. Minor: Supporting Program. Thesis: Interpersonal Quality of Care in Two Ambulatory Surgery Settings. Major Adviser: Prof. T.J. Litman. Graduation Pending.

**Jeffrey Stephan Kueng, St. Paul**

B.E.E. '79, M.S.E.E. '81, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: A Unified MOS Device Model for Circuit Simulation. Major Adviser: Prof. Allen Nussbaum. Graduation Pending.

**Mahmoud Khaled Kullab**

B.S. with honors, '74, Ain Shams University. Major: Physics. Minor: Supporting Program. Thesis: Fundamental Problems in Quantum Field Theory at High Temperature. Major Adviser: Prof. J.I. Kasta. July Graduate.

**Teruo Kurai**

B.S. '76, Tohoku University. Major: Physics. Minor: Supporting Program. Thesis: Application of Generalized String Model. Major Adviser: Prof. Hiroshi Suura. Graduation Pending.

**Dale Alan Larson, Albert Lea**

B.S. '75, M.S. '77, University of Minnesota. Major: Animal Science. Minor: Agronomy. Thesis: Energy Requirements of Beef Cows During Late Gestation and Early Lactation. Major Adviser: Prof. R.D. Goodrich. August Graduate.

**Nancy Jane Latini, Minneapolis**

B.S. '65, University of Minnesota; M.S. '75, St. Cloud State University. Major: Educational Administration. Minor: Supporting Program. Thesis: A Case Study of the Decision Processes by Which Handicapped Junior High School Students Are Referred to More Restrictive Educational Settings. Major Adviser: Prof. R.F. Weatherman. June Graduate.

**Yoav Lavee**

B.A. '72, M.A. magna cum laude '76, Tel-Aviv University. Major: Family Social Science. Minor: Supporting Program. Thesis: Family Types and Family Adaptation to Stress: Integrating the Circumplex Model of Family Systems and the Family Adjustment and Adaptation Response Model. Major Advisers: Profs. R.H. Olson and H.I. McCubbin. Graduation Pending.

**Jongsook Lee**

B.A. '74, M.A. '77, Seoul National University. Major: English. Minor: Supporting Program. Thesis: Ben Johnson's Poesis: A Literary Dialectic of Ideal and History. Major Adviser: Prof. T.S. Clayton. August Graduate.

**Timothy Othmar Lenz, St. Martin**  
B.A. high honors '77, St. Cloud State College; M.A. '79, University of North Dakota. Major: Political Science. Minor: Supporting Program. Thesis: Group Participation in the Politics of Sentencing Reform. Major Adviser: Prof. Samuel Krislov. Graduation Pending.

**Gideon Leonard, Jerusalem, Israel**  
B.Sc. '75, M.Sc. '79, Ben Gurion University of the Negev. Major: Geo-Engineering. Minor: Supporting Program. Thesis: Fracture Mechanics Analysis of the Validity of Hydraulic Fracturing as a Technique of In-Situ Stress Determination. Major Adviser: Prof. Charles Fairhurst. June Graduate.

**Xue Qian Li, Peking, People's Republic of China**  
Dipl. '66, Nankai University. Major: Physics. Minor: Supporting Program. Thesis: A Study of Delta S1 Weak Radiative Decays. Major Adviser: Prof. S.G. Gasiorowicz. August Graduate.

**Fang-Hua Lin, Hangzhou, People's Republic of China**  
Dipl. '81, Zhejiang University. Major: Mathematics. Minor: Supporting Program. Thesis: Regularity for a Class of Parametric Obstacle Problems. Major Adviser: Prof. R.M. Hardt. August Graduate.

**Jaw-Kuan Lin**  
B.S.E. '77, National Cheng-Kung University; M.S. '79, National Chiao Tung University. Major: Civil Engineering. Minor: Supporting Program. Thesis: Modelling and Analysis of Traffic Flow in Complex Transportation Networks. Major Adviser: Prof. Panos Michalopoulos. Graduation Pending.

**Jung-Chang Lin**  
M.A. '75, National Taiwan Normal University. Major: Physical Education. Minor: Supporting Program. Thesis: Serum Creatine Kinase Responses Following Prolonged Exercise Under Different Ambient Temperatures with Special Reference to Fitness Level. Major Adviser: Prof. J.F. Alexander. September Graduate.

**Nai-guo Lin, Fu Jian, China**  
Dipl. '69, Peking University. Major: Physics. Minor: Supporting Program. Thesis: Daytime Long Period Micropulsations Near Geomagnetic Shells L 4.5. Major Adviser: Prof. L.J. Cahill. September Graduate.

**Yeong Ching Lin**  
B.S. '78, National Taiwan University; M.S. Met.S. '83, University of Minnesota. Major: Metallurgy and Materials Science. Minor: Supporting Program. Thesis: The Optimum Deposition, Structure and Properties of Tantalum Oxide Films. Major Adviser: Prof. S.T. Wellinghoff. September Graduate.

**Nancy Susan Lind, Stevens Point, Wis.**  
B.S. with high honors '80, University of Wisconsin, Stevens Point; M.A. '82, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: The Aging of Public Bureaucracies. Major Adviser: Prof. C.E. Walcott. July Graduate.

**Harvey David Linder**  
B.A. cum laude '72, Duke University. Major: Psychology. Minor: Supporting Program. Thesis: A Contextual Life Events Interview as a Measure of Stress: A Comparison of Questionnaire-Based Versus Interview-Based Stress Indices. Major Adviser: Prof. Norman Garnezy. Graduation Pending.

**Donald Jiann-Tyng Liu, Taipei, Taiwan**  
B.Ag. '75, College of Chinese Culture. Major: Agricultural Economics. Minor: Economics. Thesis: The Willingness To Pay of an Individual Fed Cattle Producer for a Better Forecasting Technique: An Evaluation in a Dynamic Economic Setting with Cash and Futures Marketing Alternatives. Major Adviser: Prof. T.L. Roe. July Graduate.

**Charles Henry Long, Cincinnati, Ohio**  
B.A. '74, Yale University; D.M. '80, University of Rochester. Major: Otolaryngology. Minor: Supporting Program. Thesis: Hydrostatic Pressure Differences Across the Intralabyrinthine Membranes of the Guinea Pig. Major Adviser: Prof. Tetsuo Morizono. Graduation Pending.

**Dean Frederick Long**  
B.M.E. '79, University of Minnesota. Major: Fluid Mechanics. Minor: Supporting Program. Thesis: Noise Radiation and Coherent Structure in Turbulent Jets: Viscous and Compressibility Effects. Major Adviser: Prof. R.E. Arndt. Graduation Pending.

**Angelo Joseph Louisa, Bridgeville, Pa.**  
B.A. with high honors '73, Saint Vincent College; M.A. '75, Duquesne University. Major: History. Minor: Supporting Program. Thesis: The Marian Bishops: A Study of the Backgrounds and Ecclesiastical Activities of the Marian Episcopate. Major Adviser: Prof. S.E. Lehmborg. Graduation Pending.

**Francis Tingming Lui, Hong Kong**  
B.A. '75, University of Chicago. Major: Economics. Minor: Supporting Program. Thesis: Essays on the Economics of Corruption. Major Adviser: Prof. J.S. Chipman. July Graduate.

**Deane Myron Lundell, Vasa**  
B.A. '52, Gustavus Adolphus College; M.A. '73, University of Minnesota. Major: American Studies. Minor: Supporting Program. Thesis: The Character of Historical Experience as Cyclical Flux and Teleological Irony—With a Contemporary Focus on the Political and Theological Writings of Reinhold Niebuhr. Major Advisers: Profs. D.W. Noble and M.Q. Sibley. Graduation Pending.



**Dorothy Sharon MacDonald, Fresno, Calif.**

B.A. '66, Fresno State College; M.A. '71, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Parliament and Monetary Affairs in Late Medieval England. Major Adviser: Prof. S.E. Lehmborg. October Graduate.

**Frank Joseph MacDonald**

B.M.E. summa cum laude '79, Catholic University of America; M.S.M.E. '82, University of Minnesota. Major: Mechanical Engineering. Minor: Metallurgy and Materials Science. Thesis: High Temperature Electrolysis: Zinc from Zinc Oxide Using a Solar Furnace. Major Adviser: Prof. E.A. Fletcher. Graduation Pending.

**Ruth Elaine MacDonald, Randolph, N.J.**

B.S. cum laude '79, Western Maryland College; M.S. '81, University of Minnesota. Major: Nutrition. Minor: Food Science. Thesis: The Influence of Metabolic and Dietary Alterations on Rat Cardiac and Skeletal Muscle Peroxisomes. Major Adviser: Prof. P.B. Swan. August Graduate.

**Maureen Ann Mackey, San Francisco, Calif.**

B.S. '78, University of California, Davis; M.S. '81, University of Minnesota. Major: Nutrition. Minor: Supporting Program. Thesis: Development of a Muscle Cell Culture Bioassay for Serum-Borne Growth Factors Affecting Protein Turnover. Major Advisers: Profs. C.E. Allen and W.R. Dayton. Graduation Pending.

**Robert William Mantha, Quebec, Canada**

B.Math. '76, University of Waterloo; M.Sc. '78, University of British Columbia. Major: Business Administration. Minor: Supporting Program. Thesis: An Experimental Investigation of Data Flow Modeling and Data Structure Modeling for Deriving Information System Data Specifications. Major Adviser: Prof. G.B. Davis. Graduation Pending.

**Venkatakrish Reddy Manukonda, India**

B.Tech. '76, Andhra University. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Prevention of Surface Precipitation in Selective Flocculation. Major Adviser: Prof. Iwao Iwasaki. September Graduate.

**Cristina Mazon, Madris, Spain**

Lic. '80, Universidad Complutense de Madrid. Major: Economics. Minor: Supporting Program. Thesis: The Impact of Government Policy on the U.S. Steel and Cigarette Industry. Major Adviser: Prof. H.D. Mohring. Graduation Pending.

**Jennifer Lynn McCoy, Bartlesville, Okla.**

B.A. honors '78, Oklahoma State University. Major: Political Science. Minor: Supporting Program. Thesis: Democratic Dependent Development and State-Labor Relations in Venezuela. Major Advisers: Profs. G.W. Wynia and R.D. Duvall. July Graduate.

**Michael Dean McGinnis, Middle Point, Ohio**

B.S. cum laude '80, Ohio State University. Major: Political Science. Minor: Supporting Program. Thesis: Arms, Aid, and Allies: A Formal Model of the Security Policies of Regional Powers. Major Advisers: Profs. J.H. Aldrich and B.L. Job. August Graduate.

**Sallye Alicia McKee, Smyrna, Ga.**

B.A. '70, Morris Brown College; M.S.T. '70, University of Chicago. Major: Education. Minor: Supporting Program. Thesis: Comprehension of Selected Anaphoric Structures in Written Text by Elementary School Readers. Major Adviser: Prof. R.L. Schreiner. Graduation Pending.

**Mark John McKone, Cresco, Iowa**

B.S.S. '76, Cornell College; M.S. '80, University of Minnesota. Major: Ecology. Minor: Supporting Program. Thesis: Gender in Hermaphrodites: Intraspecific Variation in Some Wind-Pollinated Plants and the Effect of Breeding System. Major Adviser: Prof. E.J. Cushing. October Graduate.

**Amy Mara McNair, Minneapolis**

B.S. magna cum laude '81, University of Cincinnati. Major: Chemistry. Minor: Supporting Program. Thesis: Investigations of Ruthenium and Osmium Arene Complexes. Major Adviser: Prof. K.R. Mann. October Graduate.

**Robert John McNair, Cincinnati, Ohio**

B.S. '81, University of Cincinnati. Major: Chemistry. Minor: Supporting Program. Thesis: Synthesis, Characterization, and Reactivity of Ruthenium Phosphine and Rhodium Heterobimetallic P-N-P Complexes. Major Adviser: Prof. L.H. Pignolet. Graduation Pending.

**Thomas Burns Mega, St. Paul**

B.A. summa cum laude '75, M.A. '78, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Political and Constitutional Development in Pennsylvania: 1739-1780. Major Adviser: Prof. J.R. Howe. Graduation Pending.

**Yusuf Nurraddin Meriwani, Iraq**

B.S. '73, M.S. '76, University of Baghdad. Major: Agronomy. Minor: Supporting Program. Thesis: Effect of Tillage, Glyphosate and Sethoxydim on Quackgrass (*Agropyron Repens*) in a Corn (*Zea Mays*) Soybean (*Glycine Max*) Rotation. Major Adviser: Prof. D.L. Wyse. September Graduate.

Abdelaziz Merzouk, Rabat, Morocco  
Dipl. Agron. Gen. '75, Institut Agronomique et Veterinaire Hassan II; M.S. '77, University of Minnesota. Major: Soil Science. Minor: Agricultural Engineering. Thesis: Relative Erodibility of Nine Selected Moroccan Soils as Related to Their Physical, Chemical and Mineralogical Properties. Major Adviser: Prof. G.R. Blake. October Graduate.

Rayman David Meservy, Provo, Utah  
B.S. '74, B.S. '77, M.Acc. '77, Brigham Young University. Major: Business Administration. Minor: Supporting Program. Thesis: Auditing Internal Controls: A Computational Model of the Review Process. Major Adviser: Prof. A.D. Bailey. August Graduate.

Melissa Lee Meyer, Cincinnati, Ohio  
B.A. magna cum laude '77, University of Cincinnati; M.A. '80, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Tradition and the Market: The Social Relations of the White Earth Anishinaabeg, 1889-1920. Major Adviser: Prof. J.R. Howe. September Graduate.

Verne Allyn Meyer, Sioux Center, Iowa  
A.B. '68, Calvin College; M.A. '76, Marquette University. Major: Theatre Arts. Minor: Supporting Program. Thesis: The Relationship Between Prominent Themes in John Calvin's Theology and Common Arguments in the "Puritan" Critique of English Theatre from 1577 to 1633. Major Adviser: Prof. G.W. Gadberry. September Graduate.

William Kevin Miller, Duluth  
B.A. with high honors '73, Lewis College; M.A. '77, University of Chicago. Major: Ancient Studies. Thesis: The Genealogy and Chronology of the Ramesside Period. Major Advisers: Profs. G.R. Rapp, Jr., and W.D. Coulson. Graduation Pending.

Mohamed Omar Mohamed, Tripoli, Libya  
B.S. '75, Alfateh University; M.S. '80, University of Minnesota. Major: Food Science. Minor: Supporting Program. Thesis: Effects of Soy Protein on Renet-Induced Reconstituted Nonfat Dry Milk Coagulum Properties. Major Adviser: Prof. H.A. Morris. July Graduate.

John Tomlin Moore, Chesapeake, Va.  
B.A. with distinction '81, University of Virginia. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Gene Expression in Guinea Pig Seminal Vesicle. Major Adviser: Prof. T.C. Spelsburg. Graduation Pending.

Malcolm Charles Moos, St. Paul  
B.S. '82, Stanford University. Major: Pharmacology. Minor: Supporting Program. Thesis: Guanylate Cyclase and Regulation of Platelet Function. Major Adviser: Prof. N.D. Goldberg. October Graduate.

Ann Marie Mueting, Norfolk, Neb.  
B.S.Chem. cum laude '78, M.S. '80, Creighton University. Major: Chemistry. Minor: Supporting Program. Thesis: Synthesis, Characterization, and Reactivity of Rhodium and Iridium Phosphine Complexes Containing Sulfur Ligands Resulting from Reactions with H<sub>2</sub>S. Major Adviser: Prof. L.H. Pignolet. September Graduate.

Daniel Mark Murphy  
B.A. '79, Oberlin College; M.S. '80, Stanford University. Major: Physics. Minor: Supporting Program. Thesis: Measurement of Trace Gases in the Stratosphere with a Mass Spectrometer System. Major Adviser: Prof. Konrad Mauersberger. July Graduate.

Bruce Arthur Murray, Bayport  
B.A. '76, Luther College; M.A. '77, Middlebury College. Major: German. Minor: Supporting Program. Thesis: Film and the German Left in the Weimar Republic. Major Adviser: Prof. T.G. Plummer. June Graduate.

Michael About Nader, West Bloomfield, Ind.  
B.S. with distinction '82, Wayne State University. Major: Psychology. Minor: Supporting Program. Thesis: The Interaction of Differential Reinforcement Schedule Histories with the Behavioral Effects of Methadone. Major Adviser: Prof. T.I. Thompson. Graduation Pending.

David Loren Nelson, Silver City, N.M.  
B.S. with honors '80, New Mexico State University; M.S. '82, University of Minnesota. Major: Plant Breeding. Minor: Supporting Program. Thesis: Genetic Variability and Inheritance of Nitrate Reductase Activity in Alfalfa and Its Association with Forage Yield. Major Adviser: Prof. D.K. Barnes. August Graduate.

Jane Merriam Nelson, St. Joseph, Mo.  
B.A. '65, Scripps College; M.F.A. '68, M.A. '72, University of Kansas. Major: History. Minor: Studio Arts. Thesis: Carl Milles in the United State: The Circumstances of His Success. Major Adviser: Prof. M.J. Nelson. Graduation Pending.

John Phillip Nelson  
B.S. '71, M.S.W. '73, Louisiana State University. Major: Social Work. Minor: Supporting Program. Thesis: An Experimental Evaluation of a Home-Based Family-Centered Program Model in a Public Child Protection Agency. Major Adviser: Prof. C.D. Hollister. July Graduate.

**Gail Mercer Newman, Williamstown,  
Mass.**

B.A. with distinction '76, Northwestern University; M.A. '80, University of Minnesota. Major: German. Minor: Supporting Program. Thesis: "The Visible Soul of Poetry": Women and the Poet in Novalis's Heinrich Von Ofterdingen. Major Adviser: Prof. Jochen Schulte-Sasse. June Graduate.

**Raymond Melvin Newman**

B.S. magna cum laude '78, Slippery Rock State College; M.S. '82, University of Minnesota. Major: Fisheries. Minor: Supporting Program. Thesis: Production Dynamics of Brown Trout in South Branch Creek, Minnesota. Major Adviser: Prof. T.F. Waters. Graduation Pending.

**Angela Ourivio Nieckeke, Brazil**

Ing. Mec. '79, M.Eng. Mec. '81, Pontificia Universidade Catolica do Rio de Janeiro. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Development and Evaluation of Numerical Schemes for the Solution of Convection-Diffusion Problems. Major Adviser: Prof. S.V. Patankar. October Graduate.

**Sally Lee Noll, Beaver Dam, Wis.**

B.S. '74, M.S. '78, University of Minnesota. Major: Animal Science. Minor: Animal Physiology. Thesis: Effect of Different Environmental Temperatures on the Lysine Requirement of Growing Turkeys. Major Adviser: Prof. P.E. Waibel. June Graduate.

**John Matthew Norris, Reston, Va.**

A.B. '68, Whitman College; A.M. '73, University of Illinois. Major: Political Science. Minor: Supporting Program. Thesis: Discretionary Authority in Federal Executive Agencies. Major Adviser: Prof. R.B. Eyestone. August Graduate.

**John Robert O'Brien, Sydney,  
Australia**

B.S. '73, University of Sydney. Major: Business Administration. Minor: Supporting Program. Thesis: Private Information, Communication and the Incentive Properties of Capital Structure. Major Adviser: Prof. C.S. Kanodia. July Graduate.

**Patrick John O'Brien, Chicago, Ill.**

B.A. '69, Lawrence University; A.M. '78, Loyola University of Chicago. Major: French. Minor: Supporting Program. Thesis: Shimmering Space: Theatricality in Pierre Corneille's L'illusion Comique and Le Cid. Major Adviser: Prof. Tom Conley. Graduation Pending.

**Peter James O'Brien, Toronto, Canada**

B.S. '77, York University. Major: Veterinary Physiology and Pharmacology. Minor: Biochemistry. Thesis: Membrane Defect in Porcine Malignant Hyperthermia. Major Adviser: Prof. C.F. Louis. August Graduate.

**Francis Gerard Ogrinc, Cleveland,  
Ohio**

B.S. cum laude '77, John Carroll University; M.A.S. '79, Ohio State University. Major: Biometry and Health Information Systems. Minor: Statistics. Thesis: The General Linear Model with Logistic Errors. Major Adviser: Prof. E.A. Johnson. Graduation Pending.

**Thomas Howard Oliphant,  
Youngstown, Ohio**

B.S. magna cum laude '76, Kent State University; M.S. '79, University of Minnesota. Major: Biometry and Health Information Systems. Minor: Statistics. Thesis: Sequential Analysis of Clinical Trials Using the Cox Proportional Hazards Regression Approach for Covariate Adjustment. Major Adviser: Prof. E.A. Johnson. Graduation Pending.

**Geary Wayne Olsen, Minneapolis**

B.S. '74, D.V.M. '76, University of Illinois. Major: Epidemiology. Minor: Supporting Program. Thesis: Epidemiologic Study of Dietary Factors in the Etiology of Pancreatic Cancer. Major Adviser: Prof. J.S. Mandel. October Graduate.

**John Stephen Onapito, Kampala,  
Uganda**

B.V.M. '73, University of Nairobi; M.S. '76, University of Pennsylvania. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Supporting Program. Thesis: An Evaluation of the Role of Intramuscular Compartmental Pressure in the Pathogenesis of the Downer Cow Syndrome. Major Adviser: Prof. L.J. Wallace. August Graduate.

**Marc Philip Ondrechen, Bethlehem,  
Pa.**

B.S. with high distinction '79, University of Virginia. Major: Astrophysics. Minor: Supporting Program. Thesis: The Distribution and Kinematics of Neutral Hydrogen Gas and the Radio Continuum Emission in Barred Spiral Galaxies. Major Adviser: Prof. R.C. Kennicutt. July Graduate.

**Michael John Opitz, Rice**

B.S. with honors '70, M.A. '72, St. Cloud State University. Major: English. Minor: Supporting Program. Thesis: Poetry as Appropriate Epistemology: Gregory Bateson and W. B. Yeats. Major Adviser: Prof. C.G. Anderson. September Graduate.

**Bradford Grant Orr, Minneapolis**

B.Phys. with high distinction '80, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: Electrical Transport Properties of Ultra-Thin Metallic Films: Percolation, Localization and Superconductivity. Major Adviser: Prof. A.M. Goldman. October Graduate.

**Drazen Ostovic, Zagreb, Yugoslavia**  
Dipl. '79, University of Zagreb. Major: Chemistry. Minor: Supporting Program. Thesis: Hydride Transfer Between NAD<sup>+</sup> Analogues. Major Adviser: Prof. M.M. Kreevoy. August Graduate.

**Said Ouattar, Morocco**  
Dipl. Ing. Agron. '75, Institut Agronomique et Veterinaire Hassan II. Major: Agronomy. Minor: Supporting Program. Thesis: Adaptation of Corn to Water and Thermal Stress Conditions During Grain Filling Period. Major Advisers: Profs. R.K. Crookston and R.J. Jones. Graduation Pending.

**Judith Ann Overmier, Columbus, Ohio**  
B.A. '61, B.S. '62, Bowling Green State University; M.S. '65, Drexel University. Major: Library Science. Minor: Supporting Program. Thesis: Scientific Rare Book Collections in Academic and Research Libraries in Twentieth Century America. Major Advisers: Profs. W.C. Simonton and M.N. Maack. September Graduate.

**Michael Abueg Palis, Manila, Philippines**

B.S. E.E. cum laude '79, B.S. magna cum laude '80, University of the Philippines. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Techniques for Design and Analysis of Systolic Systems. Major Adviser: Prof. O.H. Ibarra. July Graduate.

**Unto Erkki Pallonen, Kuopio, Finland**  
B.A. '72, University of Jyväskylä; M.Soc.Sci '78, University of Helsinki. Major: Physiological Hygiene. Minor: Supporting Program. Thesis: Prevention of Smoking Onset Among an East Finland Adolescent Population. Major Adviser: Prof. H.W. Blackburn. Graduation Pending.

**George Papapolymerou**  
B.S. '79, University of California, Berkeley. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Kinetics of Small Molecules on Pt Group Metals. Major Adviser: Prof. L.D. Schmidt. Graduation Pending.

**Panayote Miltiades Pardalos, Greece**  
Dipl. '77, National and Capodistrian University of Athens; M.A. '83, University of Minnesota. Major: Computer and Information Sciences. Minor: Mathematics. Thesis: Integer and Separable Programming Techniques for Large Scale Global Optimization Problems. Major Adviser: Prof. J.B. Rosen. July Graduate.

**Bonnie Jean Pechtel, New Ulm**  
B.A. '71, University of Minnesota; M.A. '72, College of St. Thomas. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Role of Experience and Specialization in Lawyer Problem Solving. Major Adviser: Prof. P.E. Johnson. October Graduate.

**Sharon Gail Penner, Winnipeg, Canada**

B.S. '76, University of Winnipeg; M.A. '79, University of Minnesota. Major: Communication Disorders. Minor: Supporting Program. Thesis: Parental Responses to Grammatically Correct and Incorrect Child Utterances. Major Adviser: Prof. P.A. Broen. July Graduate.

**Kathy Lynn Perkins, Minneapolis**  
B.S. with honors '78, University of California, Riverside. Major: Genetics. Minor: Supporting Program. Thesis: Cytogenetic Analysis of Human Testicular Cancer. Major Adviser: Prof. N.M. Wang. Graduation Pending.

**Robert Brock Petersen, St. Paul**  
B.S. magna cum laude '81, University of Minnesota. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Selection of Initiation Sites for Protein Synthesis on Rous Sarcoma Virus RNA. Major Adviser: Prof. P.B. Hackett. July Graduate.

**Steven Walfred Peterson, Minneapolis**  
B.A. cum laude '79, Macalester College. Major: Mechanical Engineering. Minor: Biomedical Engineering. Thesis: Measurement and Analysis of Human Joint Motion. Major Adviser: Prof. A.G. Erdman. Graduation Pending.

**William Cleveland Phelps, Minneapolis**

B.S. with honors '77, Southwestern at Memphis; M.S. '80, Virginia Polytechnic Institute and State University. Major: Microbiology. Minor: Supporting Program. Thesis: Transcription of Shope Papillomavirus in Benign and Malignant Rabbit Tumors. Major Adviser: Prof. A.J. Faras. June Graduate.

**Glenn Scott Pickering, Columbia Heights**

B.E.E. with distinction '76, University of Minnesota; M.Div. '80, United Theological Seminary. Major: Psychology. Minor: Supporting Program. Thesis: An Empirical Study of a Sample of Reentry Women. Major Adviser: Prof. R.V. Dawis. October Graduate.

**Nancy Jane Poindexter, Minneapolis**  
A.B. '75, University of Michigan; M.S. '77, North Dakota State University. Major: Microbiology. Minor: Supporting Program. Thesis: Toxic Shock Syndrome Toxin-1 Induced Alterations in T Lymphocyte Function. Major Adviser: Prof. P.M. Schlievert. Graduation Pending.

**Kwai-Shing Poon, Hong Kong**  
B.A. '66, National Taiwan Normal University; M.A. '75, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: The Impact of Confucianism on Spatial Organization. Major Adviser: Prof. Y.F. Tuan. June Graduate.

**Scott Edward Pratt**

B.S. '80, University of Kansas. Major: Physics. Minor: Supporting Program. Thesis: Pion Pictures of Heavy Ion Collisions. Major Adviser: Prof. J.I. Kapusta. Graduation Pending.

**Charlotte Pratt-Aryiku, Accra, Ghana**

B.S. honors '76, University of Ghana; M.S. '80, University of Minnesota. Major: Nutrition. Minor: Supporting Program. Thesis: The Effects of Different Energy Sources on the Lipoprotein Lipase Activity and Triglyceride Concentration in Rat Skeletal and Cardiac Muscles. Major Adviser: Prof. P.B. Swan. September Graduate.

**David Allan Preves, Minneapolis**

B.S.E.E. '63, M.S.E.E. '65, University of Illinois. Major: Biomedical Engineering. Minor: Electrical Engineering. Thesis: Evaluation of Phase Compensation for Enhancing the Signal Processing Capabilities of Hearing Aids in Situ. Major Adviser: Prof. R.E. Poppele. October Graduate.

**Stephen Lyle Quarles, Oakland, Calif.**

B.S. '76, Virginia Polytechnic Institute and State University; M.S. '78, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: Explanation of Mechanisms Involved in the Ceiling-Floor Partition Separation Phenomenon. Major Adviser: Prof. R.W. Erickson. Graduation Pending.

**Daniel J. Rader, Morgan Hill, Calif.**

B.S. with honor '78, California Institute of Technology. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Theoretical and Experimental Investigations of the Tandem Differential Mobility Analyzer: A Method for the Measurement of Small Changes in Particle Diameter. Major Adviser: Prof. P.H. McMurry. Graduation Pending.

**Donald Francis Rahe, Dyersville, Iowa**

B.S. '72, M.A. '75, University of Iowa. Major: Child Psychology. Minor: Supporting Program. Thesis: Interaction Patterns Between Children and Mothers on Teaching Tasks at Age 42 Months: Antecedents in Attachment History, Intellectual Correlates, and Consequences on Children's Socio-Emotional Functioning. Major Adviser: Prof. L.A. Sroufe. Graduation Pending.

**Robert Alan Rapaport, Willingboro,**

**N.J.**

B.S. high honors '75, M.S. '77, Rutgers State University. Major: Civil Engineering. Minor: Supporting Program. Thesis: Chlorinated Hydrocarbons in Peat. Major Adviser: Prof. S.J. Eisenreich. Graduation Pending.

**Theresa Ruth Reik, Roseville**

B.S. '78, M.S. '81, University of Minnesota. Major: Animal Science. Minor: Animal Physiology. Thesis: Effects of Breed and Stress Susceptibility on Production and Carcass Traits in Swine. Major Adviser: Prof. W.E. Rempel. Graduation Pending.

**Sue Crowell Reitan, Roseville**

B.S. with distinction '60, M.A. '66, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Student Teacher's Letter of Recommendation as an Indicator of the Cooperating Teacher's Conceptual Level. Major Advisers: Profs. E.M. Anderson and K.R. Howey. August Graduate.

**Sebastian C. Reyes**

Mag.Cien.Ing. '80, Universidad De Concepcion. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Applications of Percolation Theory to Modeling of Noncatalytic Gas-Solid Reactions. Major Adviser: Prof. K.F. Jensen. August Graduate.

**Marianne Rice, Centreville, Mich.**

A.B. cum laude '80, Hope College. Major: Microbiology. Minor: Supporting Program. Thesis: Healing Immune Response of the Rabbit to Primary Infection with *Treponema Pallidum*. Major Adviser: Prof. T.J. Fitzgerald. August Graduate.

**Richard Edward Ridgewell, Duluth**

B.A. '80, University of Minnesota. Major: Medicinal Chemistry. Minor: Supporting Program. Thesis: Mechanisms of Catalysis by the Glutathione S-Transferases: Chiral Alkyl and Aralkyl Halides. Major Adviser: Prof. M.M. Abdel-Monem. August Graduate.

**Hani Louis Rizkalla, Cairo, Egypt**

B.S. with high honors '76, M.S. '81, American University at Cairo. Major: Metallurgy and Materials Science. Minor: Supporting Program. Thesis: Investigation into the Mechanism of Ductility of Thin Amorphous Ta<sub>2</sub>O<sub>5</sub> Films. Major Adviser: Prof. S.T. Wellinghoff. June Graduate.

**Michael Byrne Robinson, Laconia,**

**N.H.**

B.S. '80, Bates College. Major: Biochemistry. Minor: Supporting Program. Thesis: Characterization of Excitatory Amino Acid Transmitter Systems in the Rat Central Nervous System. Major Adviser: Prof. J.F. Koerner. September Graduate.

**Leonard Nathan Rosenberg,**

**Bergenfield, N.J.**

B.S.Pharm. '80, Philadelphia College of Pharmacy and Science; M.S. '83 University of Minnesota. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: A Case Control Investigation of the Association Between Drug Treatment Patterns and Diabetic Ketoacidosis. Major Advisers: Profs. A.I. Wertheimer and C.E. Daniels. Graduation Pending.

**Ajit Kumar Roy, West Bengal, India**  
B.S. honors '73, University of North Bengal;  
B. Tech. first class honors '80, Indian Institute of  
Technology; M.S. '83, University of Minnesota.  
Major: Mechanics. Minor: Mathematics. Thesis:  
Wave Attenuation in Periodic Structures. Major  
Adviser: Prof. Robert Plunkett. September Gradu-  
ate.

**Robert Lee Russell**  
B.A. '66, California Luther College; M.A. '77, Cali-  
fornia State University. Major: Education. Minor:  
Supporting Program. Thesis: Philosophy in the Art  
Classroom: The Effects of Instruction on Verbal  
Reasoning of Fifth and Sixth Grade Children About  
the Nature of Art. Major Adviser: Prof. M. K.  
DiBlasio. Graduation Pending.

**Helieh Saatara Oz, Turkey**  
D.V.M. '76, University of Tehran; M.S. '80, Uni-  
versity of Illinois. Major: Veterinary Parasitology.  
Minor: Supporting Program. Thesis: Studies on the  
Immunity and Induced Altered Morphological  
Characteristics of Various Species of the Apicom-  
plexan Genus Eimeria. Major Advisers: Profs. W.J.  
Bemrick and B.E. Stromberg. July Graduate.

**Tatsuyoshi Saijo, Kagawa, Japan**  
M.Econ. '78, Hitotsubashi University. Major: Eco-  
nomics. Minor: Supporting Program. Thesis: Nash  
Implementation Theory. Major Adviser: Prof.  
Leonid Hurwicz. Graduation Pending.

**Gregory Colin Sales, Sitka, Alaska**  
B.Ed. '74, University of Alaska, M.Ed. '79, Miami  
University. Major: Education. Minor: Supporting  
Program. Thesis: The Effect of Learning Style and  
Type of Feedback on the Achievement of Pre-Ser-  
vice Teachers in a Computer-Based Lesson. Major  
Adviser: Prof. C.A. Carrier. August Graduate.

**Athanasios Sambanis, Athens, Greece**  
Dipl. '79, National Technical University of Athens.  
Major: Chemical Engineering. Minor: Supporting  
Program. Thesis: Experimental and Modeling  
Studies on the Dynamics of Cultures of the Ciliate  
Tetrahymena Pyriformis Grown on Several Bacter-  
ial Species. Major Adviser: Prof. A.G. Fredrick-  
son. September Graduate.

**Kari Ann Sandven, St. Paul**  
B.A. '66, M.A. '75, University of Minnesota. Major:  
Educational Psychology. Minor: Supporting Pro-  
gram. Thesis: Characteristics of Black Adolescent  
Mothers Who Choose Informal Adoption. Major  
Adviser: Prof. Byron Egeland. Graduation Pend-  
ing.

**Donna Marie Schlagheck, Cincinnati,  
Ohio**  
B.A. summa cum laude '79, University of Minne-  
sota. Major: Political Science. Minor: Supporting  
Program. Thesis: Contextual and Conceptual Con-  
tent Analysis in the Study of Foreign Policy Deci-  
sion-Making. Major Adviser: Prof. P.T. Hopmann.  
September Graduate.

**Marcia Larson Schmehl, Arden Hills**  
B.S. '64, M.S. '70, University of Minnesota. Major:  
Animal Physiology. Minor: Supporting Program.  
Thesis: Studies on the Structural Properties and  
Chemistry of the Zona Radiata of Salmoniformes  
Fish Ova. Major Adviser: Prof. E.F. Graham.  
Graduation Pending.

**Paul Henry Schmidt, Superior, Wis.**  
B.A. summa cum laude '78, University of Wiscon-  
sin, Superior. Major: English. Minor: Supporting  
Program. Thesis: Newman and Post-Modernism: A  
Study of Newman's Prose Non-fiction and Its Rela-  
tion to Poststructuralist Literary Theory. Major Ad-  
visers: Profs. W.A. Madden and M.S. Durham.  
August Graduate.

**Janet Lynn Schrenk, Minneapolis**  
B.A. '80, Carleton College. Major: Chemistry. Mi-  
nor: Supporting Program. Thesis: Photochemical  
Arene Replacement Reactions of n5-Cyclopentadi-  
enyl Iron(II) n6-Arene Cations. Major Adviser:  
Prof. K.R. Mann. August Graduate.

**Alayne Laura Schroll, Saranac Lake,  
N.Y.**  
B.A. cum laude '78, Russell Sage College. Major:  
Chemistry. Minor: Supporting Program. Thesis: A  
New Protecting Group for the Sulfhydryl Function  
of Cysteine. Major Adviser: Prof. George Barany.  
Graduation Pending.

**Linda Schiele Schulte-Sasse,  
Minneapolis**  
B.A. magna cum laude '69, M.A. '78, University of  
Minnesota. Major: German. Minor: Supporting  
Program. Thesis: The Never Was as History Por-  
trayals of the 18th Century in the National Socialist  
Film. Major Adviser: Prof. T.G. Plummer. Gradu-  
ation Pending.

**David Winston Schwenke, Walla  
Walla, Wash.**  
B.A. cum laude '80, Whitman College. Major:  
Chemistry. Minor: Supporting Program. Thesis:  
Interaction Potentials and Quantum Mechanical  
Dynamics Calculations for Electron, Atom, and  
Molecule Scattering. Major Adviser: Prof. D.G.  
Truhlar. July Graduate.

Jonathan Fletcher Scott, Chilmark,  
Mass.

B.A. '62, Amherst College; M.A. '67, University of Kansas. Major: Art History. Minor: Supporting Program. Thesis: The Early Colonial Houses of Martha's Vineyard. Major Advisers: Profs. Carl Sheppard and Melvin Waldfogel. October Graduate.

Miguel Sebastian, Madrid, Spain

Lic. '79, Universidad Complutense de Madrid. Major: Economics. Minor: Supporting Program. Thesis: Fixed Exchange Rates and Non-Cooperative Monetary Policies. Major Adviser: Prof. Neil Wallace. October Graduate.

Nitin A. Shah, Ahmedabad, India

B. Tech '77, Indian Institute of Technology; M.S. '83, University of Minnesota. Major: Mineral Engineering. Minor: Metallurgy and Materials Science. Thesis: A Study of Solidification and Segregation in Fe-C-Ni-Cr Alloy. Major Adviser: Prof. J.J. Moore. Graduation Pending.

William Winthrop Shane

B.S. '77, Michigan State University; M.S. '80, North Carolina State University. Major: Plant Pathology. Minor: Supporting Program. Thesis: Population Dynamics of *Pseudomonas Syringae* Pv. *Syringae* and Crop Losses Associated with *Xanthomonas Campestris* on Spring Wheat. Major Adviser: Prof. P.S. Teng. October Graduate.

Peng Nian Shen, Shanghai, People's  
Republic of China

Dipl. '67, NanKai University. Major: Physics. Minor: Supporting Program. Thesis: Pseudo-State Method in Light Systems. Major Adviser: Prof. Y.C. Tang. Graduation Pending.

Wanda Kay Sieben, Hastings

B.S. '67, East Carolina College; M.S. '69, University of Minnesota. Major: Design, Housing and Apparel. Minor: Supporting Program. Thesis: Economic Analysis of the Impact of Imperfect Consumer Information Regarding Performance of Textile Products. Major Adviser: Prof. R.F. Johnson. Graduation Pending.

Geoffrey Michael Sirc, Minneapolis

B.A. summa cum laude '75, M.A. '77, John Carroll University. Major: English. Minor: Supporting Program. Thesis: Composing Processes in Writing: A Critical Review of Paradigms in Theory and Research. Major Adviser: Prof. Donald Ross. Graduation Pending.

William Liddell Smith, Niagara Falls,  
N.Y.

B. Mus. '72, University of Michigan; M. Div. '76, Luther Theological Seminary. Major: Music. Minor: Supporting Program. Thesis: The Burial Agenda and Associated Music in Pre-Reformation England. Major Adviser: Prof. Johannes Riedel. August Graduate.

Donald Richard Sprowl

B.A. cum laude '78, Houghton College. Major: Geophysics. Minor: Supporting Program. Thesis: The Paleomagnetic Record from Elk Lake, Minnesota, and Its Implications. Major Adviser: Prof. S.K. Banerjee. August Graduate.

Thomas Comey Squier, Toledo, Ohio

B.A. '79, Oberlin College. Major: Biochemistry. Minor: Chemistry. Thesis: ST-EPR Studies on the CA-ATPase in Sarcoplasmic Reticulum: Correlation of Protein Mobility and Enzymatic Activity. Major Adviser: Prof. D.D. Thomas. Graduation Pending.

Michael Wagner Stirens, Minneapolis

B.A. '68, M.A. '69, University of Minnesota. Major: History. Minor: Mass Communication. Thesis: First Earl of Clare--John Holles. Major Adviser: Prof. S.E. Lehmborg. June Graduate.

Ann Marie Stout

B.A. '65, University of Alaska; M.A. '81, University of Minnesota. Major: Art History. Minor: Supporting Program. Thesis: Mosaic Glass Face Beads: Their Significance in Northern Europe During the Later Roman Empire. Major Advisers: Profs. S.J. McNally and M.J. Nelson. October Graduate.

Andrew Jacob Groes Strandjord,  
Midland, Mich.

B.A. cum laude '79, Luther College. Major: Chemistry. Minor: Supporting Program. Thesis: Excited State Dynamics of 3-Hydroxyflavone. Major Adviser: Prof. P.F. Barbara. October Graduate.

Joseph Carl Suhadolnik, Stanhope,  
N.J.

B.A. '80, University of Pennsylvania. Major: Chemistry. Minor: Supporting Program. Thesis: Epoxy Cascade Approach to Uvaricin. Major Adviser: Prof. T.R. Hoyer. Graduation Pending.

Jean Cecele Sussman, Ann Arbor,  
Mich.

A.B. '73, University of Michigan; M.A. '77, University of Texas. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: A Comparison of Part-Time and Full-Time Agricultural Operations in Dodge County, Minnesota. Major Advisers: Profs. W.L. Peterson and P.M. Raup. September Graduate.

**Isaac Shun-Yan Sze, Hong Kong**

B.S. with honors '80, Chinese University of Hong Kong. Major: Biochemistry. Minor: Chemistry. Thesis: Novel Oxygenases and Metabolic Pathways Used by Soil Yeast and Bacteria for the Degradation of Aromatic Compounds. Major Adviser: Prof. Stanley Dagley. Graduation Pending.

**Reza Taghavi, Iran**

Dipl. Ing. '80, Ecole Nationale des Ponts et Chaussées. Major: Fluid Mechanics. Minor: Supporting Program. Thesis: Cavitation Inception in Axisymmetric Turbulent Jets. Major Adviser: Prof. R.E. Arndt. July Graduate.

**Vicki Lynn Templin, Eden Prairie**

B.A. '74, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: A Comparative Study of State and Provincial Legislators in Canada and the United States: Predicting Public Policy Decisions. Major Adviser: Prof. J.E. Turner. August Graduate.

**Zlatko Bosko Tesanovic, Sarajevo,  
Yugoslavia**

Dipl. '79, University of Sarajevo. Major: Physics. Minor: Supporting Program. Thesis: Topics in Physics of Superfluid  $^3\text{He}$  Films. Major Advisers: Profs. C.E. Campbell and O.T. Valls. October Graduate.

**Brad Jay Thacker, New Glavus, Wis.**

D.V.M. '78, M.S. '82, University of Minnesota. Major: Theriogenology. Minor: Supporting Program. Thesis: Observations on Porcine Parvovirus Infection and Immunity. Major Adviser: Prof. A.D. Leman. Graduation Pending.

**Hemant Sadashiv Thatte, Maharashtra,  
India**

M.S. '81, University of Mysore. Major: Food Science. Minor: Supporting Program. Thesis: Erythrocyte Membrane Defects in Porcine Malignant Hyperthermia. Major Adviser: Prof. P.B. Addis. September Graduate.

**Stephen Joseph Thoma, Cambridge,  
Mass.**

B.A. cum laude '77, University of Massachusetts, Amherst. Major: Educational Psychology. Minor: Supporting Program. Thesis: On the Relationship Between Moral Judgment and External Criteria: The Utilizer and Nonutilizer Dimension. Major Advisers: Profs. J.R. Rest and M.L. Davison. Graduation Pending.

**Kathryn Ann Thomas, Minneapolis**

B.A. cum laude '63, Macalester College; M.A. '74 University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparison of Counseling Strategies Reflective of Cultural Value Orientations. Major Adviser: Prof. M.L. Snoke. Graduation Pending.

**Peter Keim Trumper, Putney, Vt.**

B.A. '79, St. Olaf College. Major: Chemistry. Minor: Supporting Program. Thesis: Synthesis Towards Venturicidin. Major Adviser: Prof. T.R. Hoye. June Graduate.

**Wendy Sue Trumper, Rochester**

B.A. '80, St. Olaf College. Major: Chemistry. Minor: Supporting Program. Thesis: Total Synthesis of d, l-Sarracenin and Synthetic Progress Towards Sesbanimide. Major Adviser: Prof. T.R. Hoye. Graduation Pending.

**Ding-ren Tsao, Tainan, Taiwan**

B.A. '74, National Taiwan University; M.A. '78, University of Minnesota. Major: Speech Communication. Minor: Supporting Program. Thesis: The Persuasion of Kuei Ku Tzu. Major Advisers: Profs. R.B. Mather and R.L. Scott. Graduation Pending.

**Claudia Frances Tysdal-Crawford,  
Minneapolis**

B.A. '77, M.A. '81, University of Minnesota. Major: Comparative Literature. Thesis: The Beginnings of Nietzsche's Theory of Language. Major Adviser: Prof. L.L. Duroche. August Graduate.

**Raghurama Alaya Udupa**

B.E. '74, M.E. '76, University of Mysore, India. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Reduction Roasting of Copper, Nickel and Iron Sulfides in Conventional and Plasma Reactors. Major Advisers: Profs. J.J. Moore and K.A. Smith. August Graduate.

**Anne Martinson Utschig, Appleton,  
Wis.**

B.A. with honors '73, University of Wisconsin, Milwaukee; M.A. '75, University of Minnesota. Major: Linguistics. Minor: Supporting Program. Thesis: Main and Subordinate Clause Word Order. Major Adviser: Prof. G.A. Sanders. July Graduate.

**Anthony Joseph Valois, Roseville**

B.E.E. with high distinction '79, M.S.E.E. '81, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: An Investigation of Deep Levels in Aluminum Gallium Arsenide/Gallium Arsenide Modulation-Doped Heterojunction Structures. Major Adviser: Prof. G.Y. Robinson. September Graduate.

**James Michael Van Hove, Luverne**

B.E.E. with distinction '80, M.S.E.E. '82, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Examination of the Growth and Evaporation of Gallium Arsenide (001) Using Reflection High Energy Electron Diffraction. Major Adviser: Prof. P.I. Cohen. Graduation Pending.



**Michael Don Van Norstrand,  
Rochester**

B.S. '74, University of Minnesota. Major: Zoology. Minor: Supporting Program. Thesis: Peptides with Hyperglycemic Activity from the Cephalic Neuroendocrine System of *Apis mellifera*: Biochemical Characterization and Comparison with Prawn Red Pigment-Concentrating Hormone and Locust Adipokinetic Hormone. Major Adviser: Prof. W.S. Herman. Graduation Pending.

**Jonathan Lee Vennerstrom, St. Paul**

B.S. '79, University of Minnesota. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: The Design and Synthesis of Potential Inhibitors of Prostaglandin Synthetase. Major Advisers: Profs. P.S. Portoghese and T.J. Holmes. October Graduate.

**David Allen Vick, St. Peter**

B.S. '67, M.A. '73, Spec.Cert. '77, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Delphi Study Identifying Standards for Accredited Elementary Schools. Major Adviser: Prof. G.F. Alkire. Graduation Pending.

**Dilip Ramchandra Vishwasrao,  
Bombay, India**

B.Pharm. '69, M.Pharm. '71, University of Bombay. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Retention and Dispersion Characteristics of a 'Flow-Through' Packed Bed Dissolution Apparatus. Major Adviser: Prof. E.G. Rippie. October Graduate.

**Frederick Wolfer Vollmer, New York,  
N.Y.**

B.S. '77, University of California, Davis. Major: Geology. Minor: Supporting Program. Thesis: A Structural Study of the Grovdal Fold-Nappe, Northern Dovrefjell, Central Norway. Major Adviser: Prof. P.J. Hudleston. August Graduate.

**David Soren Wahl, New Brighton**

B.A. cum laude '79, St. Olaf College. Major: Physics. Minor: Supporting Program. Thesis: Inclusive Hadron Production Near an Xt of One. Major Adviser: Prof. Marvin Marshak. September Graduate.

**Suzanne Mary Walfoord, Milwaukee,  
Wis.**

B.S. summa cum laude '73, University of Wisconsin; M.A. '74, Ohio State University. Major: Speech-Communication. Minor: Supporting Program. Thesis: Status and Sex Links of Communication Control in the Corporate Chain of Command. Major Adviser: Prof. G.L. Shapiro. Graduation Pending.

**William James Wallace, Monmouth,  
Ill.**

B.F.A. '74, Quincy College; M.S. '76, Indiana State University. Major: Theatre Arts. Minor: Business Administration. Thesis: An Analysis of Selected Marketing Concepts and Their Application to the Nonprofit Theatre. Major Advisers: Profs. M.K. Neely and Wendall Josal. Graduation Pending.

**David Alan Walsh, Minneapolis**

B.A. '69, Mount Carmel College; M.A. '77, College of St. Thomas. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Family Treatment on the Psychological Functioning of Chemically Dependent and Co-Dependent Adults. Major Adviser: Prof. W.F. Shaffer. Graduation Pending.

**Hong Wang, Shanghai, China**

M.E.E. '81, Northwest Telecommunication Engineering Institute. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Multiple-Target Direction Finding. Major Adviser: Prof. Mostafa Kaveh. August Graduate.

**Robert Thompson Weaver, Blaine**

B.S. '71, M.B.A. with distinction '72, California State University, Fresno. Major: Educational Administration. Minor: Supporting Program. Thesis: Structural Analysis and Comparison of Faculty Perceptions and Student Perceptions of an Area of Study with Implications for Curriculum Management. Major Adviser: Prof. W.M. Ammentorp. Graduation Pending.

**Carla Sue Weidman, Pittsburgh, Pa.**

B.A. '67, Goucher College; M.A. '70, University of Chicago. Major: Educational Psychology. Minor: Social Work. Thesis: Inventions or Reflections: Getting Students to Tell Us What They Know. Major Adviser: Prof. D.W. Johnson. Graduation Pending.

**David Warren Werst, Kansas City,  
Mo.**

B.S. magna cum laude '80, University of Missouri. Major: Chemistry. Minor: Supporting Program. Thesis: Torsional Vibrations in Substituted Anthracenes Studied by Laser Induced Fluorescence Free Jet Spectroscopy. Major Advisers: Profs. P.F. Barbara and W.R. Gentry. Graduation Pending.

**Dexter Lyle Westrum, Albert Lea**

B.A. '67, Sioux Falls College; M.A. '81, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: The Art of Survival in the Contemporary West: The Fictions of Thomas McGuane, James Welch, and Edward Abbey. Major Adviser: Prof. R.D. Solotaroff. July Graduate.

Gary Leonard Wilkes, Shoreview  
B.S. with high distinction '76, University of Minnesota. Major: Vocational Education. Minor: Supporting Program. Thesis: A Comparison of the Impacts of Individualized and Traditional Teaching Methods on Post Secondary Vocational Education. Major Adviser: Prof. D.J. Pucel. Graduation Pending.

Michael George Williams, Butte,  
Mont.

B.S. '77, Montana State University. Major: Microbiology. Minor: Supporting Program. Thesis: The Effect of ppGpp on the Transcription and Translation of the argECBH Gene Cluster by Arginine-limited *Escherichia coli*. Major Adviser: Prof. Palmer Rogers. October Graduate.

Delmar Roy Wolfe, College Park, Md.

B.S. '72, University of Maryland; M.S. '75, University of Kentucky. Major: Physical Education. Minor: Supporting Program. Thesis: Use of the Bioluminescence Technique for Determination of Exercise-Induced Creatine Kinase Elevation in Human Blood. Major Adviser: Prof. C.A. Stull. August Graduate.

Sara Elizabeth Wright, St. Paul

B.S.Ed. '72, M.Ed. '75, University of Texas. Major: Family Social Science. Minor: Supporting Program. Thesis: Premenstrual Syndrome (PMS) and Perceived Marital Inequity. Major Adviser: Prof. Gerhard Neubeck. October Graduate.

Alberto Al Yanezmoreno

M.S.M.E. '82, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Heat Transfer and Pressure Drop in a Tube Bank Inclined with Respect to the Flow. Major Adviser: Prof. E.M. Sparrow. Graduation Pending.

Gary Lynn Yarrow, Sioux Falls, S.D.

B.S. '77, South Dakota State University; M.S. '79, Ohio State University. Major: Plant Physiology. Minor: Supporting Program. Thesis: The Involvement of Abscisic Acid in Correlative Control of Flower Abscission in Soybean. Major Adviser: Prof. W.A. Brun. October Graduate.

Mary Ellen Young, St. Paul

B.A. '58, Gustavus Adolphus College; M.A. '66, University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: Tashi Gomang, Pauline Oliveros: A Biography and Descriptive Catalog of Compositions. Major Adviser: Prof. Johannes Riedel. Graduation Pending.

Tak Sun Yuen, Hong Kong

B.C.Sci. with high distinction '74, M.S. '77, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: A Study of Hashing-Based Dynamic File Structures for Associative Retrieval. Major Advisers: Profs. D.H. Du and W.D. Munro. September Graduate.

Beverley Lois Zakaluk, Winnipeg,  
Canada

B.A. '69, M.Ed. '74, M.Ed. '77, University of Manitoba. Major: Education. Minor: Supporting Program. Thesis: Toward a New Approach to Predicting Text Comprehensibility Using Inside-and Outside-The-Head Information and a Nomograph. Major Advisers: Profs. B.M. Taylor and S.J. Samuels. July Graduate.

Lynn Barry Zastoupil, Dickinson,  
N.D.

B.A. '75, Dickinson State College; M.A. '77, University of Texas, Austin. Major: History. Minor: Supporting Program. Thesis: J.S. Mill and the British Empire: An Intellectual Biography. Major Adviser: Prof. J.L. Altholz. Graduation Pending.

Frank Anthony Zelko, Cleveland, Ohio

B.A. summa cum laude '77, Case Western Reserve University. Major: Psychology. Minor: Supporting Program. Thesis: Strategies of Visual Search in Attention Deficit Disorder. Major Adviser: Prof. M.J. Meier. August Graduate.

## Doctor of Philosophy in Otolaryngology

Edward Henry Szachowicz II,  
Minneapolis

B.A. '75, Northwestern University. Major: Otolaryngology. Minor: Supporting Program. Thesis: A Morphologic Study of the Chinchilla Stria Vascularis After Repeated Intravenous Ethacrynic Acid Administration. Major Adviser: Prof. A.J. Duvall. July Graduate.

## Doctor of Philosophy in Physical Medicine & Rehabilitation

### James Courtland Agre

B.A. magna cum laude '71, Augsburg College; M.D. '76, University of Minnesota. Major: Physical Medicine and Rehabilitation. Minor: Supporting Program. Thesis: The Effects of Methylodopa and Propranolol on Exercise Capacity, Pressor Response to Dynamic and Isometric Exercise, and Plasma Lipids in Patients with Mild to Moderate Hypertension: A Double-Blind Comparison. Major Adviser: Prof. F.J. Kottke. October Graduate.

## Doctor of Philosophy in Surgery

### Nancy Louise Ascher

A.B. with high distinction '70, M.D. '74, University of Michigan, Ann Arbor. Major: Surgery. Minor: Pathology. Thesis: Effector Mechanisms in Allograft Rejection. Major Adviser: Prof. R.L. Simmons. June Graduate.

### Michael William Mulholland, Decatur, Ill.

B.A. '77, M.D. with distinction '78, Northwestern University. Major: Surgery. Minor: Physiology. Thesis: Gastrin Cell and Somatostatin Cell Populations of the Stomach. Major Adviser: Prof. J.P. Delaney. July Graduate.

## Master of Architecture

**Bahman Amir Adibzadeh, Tehran, Iran**  
B.S. Arch. E. '82, University of Kansas. Major: Architecture. Thesis: Tehran's Greater Mosalla. Major Adviser: Prof. R.D. Clemence. August Graduate.

### Richard Benton Aschman, Evanston, Ill.

B.S. '78, University of Illinois. Major: Architecture. Thesis: Monuments and Memory: The Woodrow Wilson Center. Major Adviser: Prof. M.H. Thompson. September Graduate.

### Jeffrey Robert Johnson

B. Design with honors '81, University of Florida. Major: Architecture. Thesis: Symbolism in Design: A Liturgical Expression. Major Adviser: Prof. G.C. Rockcastle. Graduation Pending.

### Karin Linnerooth Johnson, Minneapolis

B.A. '76, Carleton College. Major: Architecture. Thesis: Educational Facilities for Chadashay, Inc. Major Adviser: Prof. R.D. Clemence. Graduation Pending.

### John Reid Kurzawa, Milwaukee, Wis.

B.A. '72, University of Wisconsin, Madison. Major: Architecture. Thesis: A Hospitable Workplace for Twin Cities Public Television. Major Adviser: Prof. J.G. Rauma. Graduation Pending.

### Fiona May Larsen, Pell City, Ala.

B.Env.D. '81, University of Colorado. Major: Architecture. Thesis: An Interpretation of Architectural Space. Major Adviser: Prof. G.S. Parker. Graduation Pending.

### Jyunyun Jenny Lin, Taiwan

B.S. '81, National Cheng Kung University. Major: Architecture. Thesis: How Does Architecture Communicate? Major Adviser: Prof. G.C. Rockcastle. July Graduate.

### Jonathan Mark Miller, Minneapolis

B.S. Design '80, Clemson University. Major: Architecture. Thesis: "Home and the Act of Dwelling" Village of Hawthorne Broome Co., N.Y. Major Adviser: Prof. M.H. Thompson. Graduation Pending.

### Sujatha Nagojirao

B. Arch. '82, University of Madras. Major: Architecture. Major Adviser: Prof. V.L. Michelson. Graduation Pending.

### Hanzada S.E. Salem, Minot, N.D.

B. Arch. E. '73, Ain Shams University; M.Com. Reg. Plan. '82, North Dakota State University. Major: Architecture. Thesis: Minot Heritage Plaza (Center). Major Adviser: Prof. L.S. Parker. July Graduate.

### James Jody Schulman, Menomonie, Wis.

B.A. '81, Carleton College. Major: Architecture. Thesis: Creating an Architecture of Modest Desire: A Midwestern Challenge. Major Adviser: Prof. R.D. Clemence. Graduation Pending.

**Burton Scott Visnick, Malden, Mass.**  
B.S. with honors '81, Northeastern University, Massachusetts. Major: Architecture. Thesis: Skyscrapers: Can an Object Create Context?. Major Adviser: Prof. D.M. Mullinger. August Graduate.

**Jing-Hua Yeh**  
B.S. '79, Chinese Culture University. Major: Architecture. Thesis: Spirit of Home and Welcome, Chicago, Chinatown. Major Adviser: Prof. L.S. Parker. October Graduate.

## Master of Arts

**Thomas Lee Aarrestad, Brainerd**  
B.A. '83, University of Minnesota. Major: Physical Education. Minor: Related Fields. Thesis: Effects of Graded Immersion on Cardiorespiratory Response to Exercise. Major Adviser: Prof. G.A. Stull. October Graduate.

**Pamela Lou Ahrens, Mahtomedi**  
B.S. '71, Mankato State University. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Alan Edward Anderson**  
B.S. with distinction '78, University of Minnesota. Major: Agricultural Education. Minor: Related Fields. Major Adviser: Prof. R.L. Peterson. October Graduate.

**Beth Marie Anderson, Bloomington**  
B.A. cum laude '79, St. Olaf College. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.D. Tennyson. Graduation Pending.

**Kristin Margaret Anderson, St. Paul**  
B.A. '79, Oberlin College. Major: Art History. Minor: Related Fields. Major Adviser: Prof. Sidney Simon. September Graduate.

**Michael William Anderson, St. Paul**  
B.S. with distinction '79, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. R.T. Kudrle. August Graduate.

**Neil Dudley Anderson, Rush City**  
B.S. with distinction '76, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. C.A. Carrier. Graduation Pending.

**Shirley Mae Anderson, Canby**  
B.A. '76, St. Cloud State University. Major: Communication Disorders. Minor: Related Fields. Thesis: A Comparison of Speech Perception Skills Between Young and Old Adults. Major Adviser: Prof. J.L. Yanz. June Graduate.

**Mary Anne Ashmore, Williston, N.D.**  
B.S. cum laude '79, Moorhead State University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.O. Arvey. Graduation Pending.

**Nancy Ann Ausman, Eau Claire, Wis.**  
B.A. '72, University of Wisconsin, Eau Claire. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Felicia Beth Baker, State College, Pa.**  
B.A. '80, Mount Holyoke College. Major: Geography. Minor: Related Fields. Major Adviser: Prof. E.P. Scott. Graduation Pending.

**Martha Jane Barnum, St. Paul**  
B.A. magna cum laude '83, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. G.L. Piche. Graduation Pending.

**Janet Gail Bartz, St. Paul**  
B.A. '71, University of Northern Iowa. Major: Home Economics. Minor: Related Fields. Thesis: Post Occupancy Evaluation of Attitudes and Housing Satisfaction of Consumers of Single- and Multi-Family Earth Sheltered Housing. Major Adviser: Prof. C.C. Cook. August Graduate.

**David Thomas Bastien, Minneapolis**  
B.A. '82, University of Minnesota. Major: Speech-Communication. Minor: Business Administration. Major Adviser: Prof. W.S. Howell. Graduation Pending.

**Maureen C. Beck, Minneapolis**  
B.A. magna cum laude '58, University of Minnesota. Major: Museology. Minor: Related Fields. Major Adviser: Prof. M.W. Stoughton. September Graduate.

**Yeong Ki Beck**  
B.A. '82, M.A. '82, Seoul National University. Major: Geography. Minor: Related Fields. Major Adviser: Prof. E.S. Sheppard. June Graduate.

**John Robert Bennett, Minneapolis**  
B.A. '71, Stanford University; M.A.T. '72, Northwestern University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. T.J. Hummel. August Graduate.

**Margaret Lucile Bergh, Minneapolis**  
B.A. '69, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

**Ann Christina Bevis, Minneapolis**  
B.A. '78, University of Denver. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. I.E. Fang. August Graduate.

**Louis Goode Bileydi, Eden Prairie**  
B.A. '75, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. W.C. Simonton. Graduation Pending.

**Lucy Pamela Bloedoorn, St. Paul**  
B.F.A. '74, Boston University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.G. Force, Jr. Graduation Pending.

**M. Caryl Lyon Bloem, Blaine**  
B.A. '72, Bethel College. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. R.N. Odland. June Graduate.

**Karna Jo Bloomquist, Trimont**  
B.A. '79, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Teresa Lynn Boe, Minneapolis**  
B.A. '67, College of St. Catherine. Major: Business Education. Minor: Related Fields. Major Adviser: Prof. C.R. Hopkins. Graduation Pending.

**Jeanne Ellyn Bous, Minneapolis**  
B.A. '69, University of Minnesota. Major: English. Minor: Related Fields. Major Adviser: Prof. W.A. Madden. Graduation Pending.

**Kenneth Earl Boyd, Jacksonville, Fla.**  
B.A. '83, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Thesis: The Effects of Self-Efficacy and Goals on Performance: A Partial Replication of the Locke, Frederick, Lee, and Bobko Study (1984). Major Adviser: Prof. P.L. Schumman. July Graduate.

**Becky Jo Boyum Brass**  
B.A. '69, University of Minnesota; M.A.T. '70, University of New York at Binghamton. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. G.P. D'Elia. June Graduate.

**Janet Breidegam, Rockford, Ill.**  
B.A. cum laude '83, Augustana College. Major: American Studies. Major Adviser: Prof. A.I. Gefen. Graduation Pending.

**Susan Lee Breun, Apple Valley**  
B.S. with distinction '74, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. Graduation Pending.

**Andrew Chappell Brod, Minneapolis**  
B.A. cum laude '81, University of Illinois. Major: Economics. Minor: Related Fields. Major Adviser: Prof. J.S. Chipman. October Graduate.

**Lee Alan Buckman, Highland Park, Ill.**  
B.A. with highest honors '82, University of Michigan. Major: Psychology. Minor: Educational Psychology. Thesis: The Effects of Electronic Media Coverage on Witness Testimony in a Criminal Trial. Major Adviser: Prof. Eugene Borgida. Graduation Pending.

**Janice Lynn Buikema**  
B.A. cum laude '78, Augustana College. Major: Education. Minor: Related Fields. Major Adviser: Prof. M.F. Graves. July Graduate.

**LouAnn Bunker, St. Paul**  
B.S. '81, University of Minnesota. Major: Home Economics. Minor: Related Fields. Thesis: Future Expectations and Life Cycle Stage as Determinants of Residential Satisfaction Among Female Single Parent Households. Major Advisers: Profs. E.M. Franklin and C.C. Cook. July Graduate.

**Michele Lorraine Burniece, Minneapolis**  
B.S. with distinction '75, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. August Graduate.

**Susan Kathleen Cahn, Santa Cruz, Calif.**  
B.A. '81, University of California, Santa Cruz. Major: History. Minor: Related Fields. Major Adviser: Prof. S.M. Evans. June Graduate.

**Trudi Ann Campbell, Minneapolis**  
B.A. '74, Winona State University. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Ann Elizabeth Carey, St. Paul**  
B.S. '74, University of Illinois. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. D.A. Ahlburg. June Graduate.

**Ellen Britton Carey**  
B.A. cum laude '76, Western Washington State College; M.A. '79, University of Northern Colorado. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.A. Fossum. Graduation Pending.

**Patrice Mae Carlson, Hoffman**  
B.A. '80, University of Minnesota, Morris. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Kathleen Mary Carroll, Boston, Mass.**  
B.S. summa cum laude '80, Duke University. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. G.R. Leon. September Graduate.

**Francoise Casse**

B.A. cum laude '79, Macalester College. Major: Spanish. Minor: Related Fields. Major Adviser: Prof. Rene Jara. Graduation Pending.

**Francoise Casse**

B.A. cum laude '79, Macalester College. Major: French. Minor: Related Fields. Major Adviser: Prof. E.B. Sivert. Graduation Pending.

**Laura Virginia Castor, St. Paul**

B.A. cum laude '79, Muhlenberg College. Major: American Studies. Major Adviser: Prof. A.I. Geffen. July Graduate.

**Mary Elizabeth Cavert, Minnetonka**

B.A. cum laude '71, St. Olaf College. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. G.F. Alkire. September Graduate.

**Mario Cesario, Buenos Aires,**

**Argentina**

B.A. magna cum laude '83, University of California, Irvine. Major: Spanish. Minor: Related Fields. Major Adviser: Prof. Hernan Vidal. October Graduate.

**Pamela Dee Chaffee, Minneapolis**

B.A. '75, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. P.L. Schumann. Graduation Pending.

**Nancy Anne Chalmers, Manitoba,**

**Canada**

B.A. with highest distinction '83, University of Winnipeg. Major: Communication Disorders. Minor: Related Fields. Thesis: A Hearing Impaired Child's Use of Vowel Duration to Cue Word Final Voicing Contrasts. Major Adviser: Prof. P.A. Broen. September Graduate.

**Elaine Beth Christensen, Northfield**

B.M. with high honors '76, Illinois State University; M.S. '77, University of Illinois. Major: Music. Minor: Art History. Thesis: Pulcinella: A Documentary Study of the Premiere Performances. Major Adviser: Prof. D.C. Jackson. September Graduate.

**Elaine Ann Coglitore, Richfield**

B.S. magna cum laude '78, Mankato State University. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. S.S. Petronio. June Graduate.

**Kathryn Louise Combs, Minneapolis**

B.A. cum laude '78, Washington State University. Major: Economics. Minor: Related Fields. Major Adviser: Prof. H.D. Mohring. July Graduate.

**Daniel James Conway, Willmar**

B.A. '79, Gustavus Adolphus College. Major: Theatre Arts. Minor: Speech-Communication. Major Adviser: Prof. A.H. Ballet. June Graduate.

**Gary Scott Corwin, St. Paul**

B.A. '82, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. Arthur Naftalin. August Graduate.

**Martha Lucille Cosgrove, Minneapolis**

B.S. with distinction '73, University of Minnesota. Major: Secondary Education. Minor: Related Fields. Major Adviser: Prof. M.F. Graves. July Graduate.

**Cynthia Breckenridge Cummings**

Major: French. Minor: Related Fields. Thesis: Des Concepts de la femme et sa representation sur scene dans trois oeuvres de Marquerite Duras. Major Adviser: Prof. M.M. Brewer. Graduation Pending.

**Allison Michele David, Brooklyn, N. Y.**

B.A. '82, New York University. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Hancher. August Graduate.

**Virginia Katharine Davis, Ontario,**

**Canada**

B.A. magna cum laude '54, The Woman's College of the University of North Carolina; M.A. '55, Peabody College for Teachers. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. July Graduate.

**Randolph Warren Dawdy, Edina**

B.A. '75, University of Illinois; J.D. '77, Southern Illinois University at Carbondale. Major: English. Minor: Related Fields. Major Adviser: Prof. R.D. Solotaroff. October Graduate.

**Dione Marie Des Lauriers, Eden**

**Prairie**

B.S. summa cum laude '83, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Listeners' Perceptions and Acoustic Analysis of the Voiced Oral-Nasal Stop Contrast in a Child with Velopharyngeal Incompetence: A Case Study. Major Adviser: Prof. P.A. Broen. August Graduate.

**Frank Augustus Dewey**

B.A. '77, B.S. '78, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Kevin Bruce Diaz, Washington, D.C.**

B.A. with distinction '80, George Washington University. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. A.H. Ismach. July Graduate.

**Jackie Roslyn Donath, Bowling Green,**

**Ohio**

B.A. '74, Austin College. Major: American Studies. Major Adviser: Prof. A.I. Geffen. June Graduate.

**Patricia Louis Dooley**

B.A. '75, University of Minnesota. Major: Mass Communication. Minor: Related Fields. Thesis: Minnesota Journalists as Elected Officials, 1923-1938: An Historical Study of an Ethical/Conflict of Interest Question. Major Adviser: Prof. Hazel Dicken-Garcia. Graduation Pending.

**Kristy Lundstrom Dunlap, Lincoln, Neb.**

B.A. cum laude '74, St. Olaf College. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. R.L. Schreiner. September Graduate.

**Thomas Lynn Dunlap**

B.A. summa cum laude '74, Hastings College, Nebraska. Major: English. Minor: Related Fields. Major Adviser: Prof. R.D. Solotaroff. August Graduate.

**Nancy Jane Dunlavy, Minneapolis**

B.A. '83, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. Graduation Pending.

**Kay Pauline Dusenbery, Minneapolis**

B.S. '66, Iowa State University. Major: Public Affairs. Major Adviser: Prof. Arthur Naftalin. Graduation Pending.

**William Ebot Ebot, Cameroon**

B.A. '82, Viterbo College. Major: Mass Communication. Minor: Related Fields. Thesis: The Impact of French and British Colonialism on African Broadcasting. Major Adviser: Prof. C.C. Lee. Graduation Pending.

**Jane Brown Eguez, Paullina, Iowa**

B.S. '72, Iowa State University. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.J. Park. September Graduate.

**Alan Glade Ellingson, Portland, Ore.**

B.S. magna cum laude '83, Brigham Young University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.R. Zander. September Graduate.

**John Lucien Ellington, Chattanooga, Tenn.**

B.S.E. '72, M.A. '73, Ed.D. '78, Mississippi State University. Major: Education. Minor: Related Fields. Major Advisers: Profs. B.R. Dalgaard and A.D. Glenn. August Graduate.

**Donna Puddister Eoff, Durango, Colo.**

B.A. summa cum laude '82, Fort Lewis College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.R. Loeffler. Graduation Pending.

**Christy Novak Erickson, New Berlin, Wis.**

B.S. with distinction '76, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. L.E. Olson. June Graduate.

**Mary Elaine Estrem, Minneapolis**

B.A. magna cum laude '81, Concordia College. Major: French. Minor: Related Fields. Major Adviser: Prof. M.F. Paganini. June Graduate.

**Wende Jenson Farrow, St. Louis Park**

B.A. with honors '74, Drake University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.E. Azevedo. May Graduate.

**William Elliott Fifer, Minneapolis**

B.A. '78, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. W.D. Philipson. Graduation Pending.

**June Ann Fleeson, Minneapolis**

B.A. cum laude '69, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. L.J. Fiedler. Graduation Pending.

**Shirley Ann Flittie, Roseville**

B.A. '71, University of Washington. Major: Secondary Education. Minor: French. Major Adviser: Prof. D.L. Lange. October Graduate.

**Scherrie Ann Foster, Minneapolis**

B.A. cum laude '73, St. Mary's College; B.S. '76, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.J. Park. August Graduate.

**Terry Leland Fredrickson, Northfield**

B.A. '68, Stanford University. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. George Yule. June Graduate.

**Marsha Ann Frey, Minneapolis**

B.C.E. with distinction '76, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.R. Loeffler. September Graduate.

**Sari Jo Fried, Minneapolis**

B.A. '81, University of Minnesota. Major: Sociology. Minor: Related Fields. Major Adviser: Prof. R.K. Leik. June Graduate.

**Charlene Kim Gabler, Minneapolis**

B.A. '79, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Rachel Pauline Gade, St. Paul**

B.A. '72, University of Iowa. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Megan Lee Gangl, St. Paul**

B.S. '78, University of Minnesota. Major: Home Economics Education. Minor: Related Fields. Major Adviser: Prof. R.G. Thomas. Graduation Pending.

**Margo Marie Gauthier**

B.A. summa cum laude '77, Concordia College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. September Graduate.

**Patricia Marie Gerlach, Burnsville**

B.A. '69, College of St. Catherine. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Sharon Ann Goergen, Edina**

B.S. '66, St. Cloud State University. Major: Communication Disorders. Minor: Related Fields. Thesis: A Description of the Phonological Development of Children with and Without Cleft Palate During the Year Following Acquisition of Their First Fifty Words. Major Adviser: Prof. K.T. Moller. August Graduate.

**Sherry Lynn Goetze, Minneapolis**

B.S. '81, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. P.L. Schumann. June Graduate.

**Mary Lynn Gookins, International Falls**

B.A. magna cum laude '68, Concordia College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. L.E. Olson. June Graduate.

**Frederic Michael Gordon, Loudonville, N.Y.**

B.A. with honors '81, Stanford University. Major: Political Science. Minor: Related Fields. Major Adviser: Prof. J.A. Aldrich. Graduation Pending.

**Sharon Kay Joopman Grayden, Excelsior**

G.D.H. '74, B.A. '74, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.W. Burris. Graduation Pending.

**Virginia Marie Greecher, Johnstown, Pa.**

B.S. '71, University of Pittsburgh. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. J.C. Manning. September Graduate.

**Thomas Keith Gulbrandson, Minneapolis**

B.S. cum laude '80, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. D.R. Browne. June Graduate.

**Donna Mae Jenon Gustafson, Minneapolis**

B.S. '61, University of Minnesota. Major: Music. Minor: Related Fields. Major Adviser: Prof. Alex Lubet. June Graduate.

**Nancy Johnson Haggmark, Apple Valley**

B.A. cum laude '69, Concordia College. Major: Public Affairs. Major Adviser: Prof. J.E. Brandl. Graduation Pending.

**Dianne S. Hahn, Minneapolis**

B.S.C. '79, Ohio University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.F. Bognanno. Graduation Pending.

**Joanne Pontius Halatsis, St. Paul**

B.S. '72, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. Sheldon Goldstein. July Graduate.

**Lisa L. Beadle Hannon**

B.A. '76, Gustavus Adolphus College. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. R.N. Odland. July Graduate.

**Linda Anne Harklau**

B.A. '81, University of Minnesota. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. A.L. Sheldon. August Graduate.

**Leo Vernon Harman, Jr.**

B.A. '63, University of Colorado. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Susan Myhre Hayes, Minneapolis**

B.A. cum laude '71, St. Olaf College. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.W. Beach. Graduation Pending.

**John Peter Heintz II**

B.A. cum laude '83, Carleton College. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. August Graduate.

**Judy G. Hemenway, Austin**

B.S. '82, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Frequency Resolution in Noise and Sensorineural Hearing Loss. Major Adviser: Prof. D.A. Nelson. June Graduate.

**Laura Renee Herr**

B.S. '82, University of Minnesota. Major: Communication Disorders. Minor: Educational Psychology. Thesis: Cochlear Melanin and Susceptibility to Noise-Induced Hearing Loss. Major Adviser: Prof. J.L. Yanz. Graduation Pending.

**Sheryl Diane Herwig**

B.S. '70, Iowa State University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. F.H. Wood. June Graduate.



**Linda Ann Heyne, St. Paul**  
B.A. '72, University of California, Berkeley. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Prof. S.J. Schleien. June Graduate.

**Christine Marie Hoffman, Rhineland, Wis.**  
B.A. magna cum laude '83, University of Wisconsin, Eau Claire. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.D. Arvey. July Graduate.

**Daniel Hoffman, Minneapolis**  
B.A. '77, Rutgers State University. Major: Public Affairs. Major Adviser: Prof. C.P. Bradford. August Graduate.

**Katherine Louise Holmes, Minneapolis**  
B.A. magna cum laude '76, St. Olaf College. Major: English. Minor: Related Fields. Major Adviser: Prof. W.A. Madden. October Graduate.

**Amy Viann Hooley, Stillwater**  
B.A. '77, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. George Seltzer. June Graduate.

**Patricia Marie Hoolihan, Grand Rapids**  
B.A. with honors '76, St. Cloud State University. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Hancher. August Graduate.

**Hai Yin Huang, China**  
Dipl. '75; Postgraduate Dipl. '81, Xiamen University. Major: Mass Communication. Minor: Related Fields. Thesis: Gatekeeping: A Structural Constraint in the International Wire News Flow. Major Adviser: Prof. F.G. Kline. Graduation Pending.

**Daniel C. Hughes, Missoula, Mont.**  
B.A. with honors '75, B.B.A. '77, University of Montana. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. George Seltzer. June Graduate.

**Janet Marie Hughes, Minneapolis**  
B.S. '74, St. John's University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.A. Fossum. Graduation Pending.

**Johnette M. Jackson, Chicago, Ill.**  
B.A. '81, University of Minnesota, Morris. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. July Graduate.

**Linda Rae Jacobson, Owatonna**  
B.S. with honor '77, North Dakota State University. Major: Home Economics Education. Minor: Public Affairs. Major Adviser: Prof. J.E. Plihal. Graduation Pending.

**Sharon Elizabeth Jaeger, Denver, Colo.**  
B.A. magna cum laude '82, University of Denver. Major: Communication Disorders. Minor: Related Fields. Thesis: Vocal Intensity Changes Related to Visual Acuity and Interpersonal Distance. Major Adviser: Prof. G.M. Siegel. July Graduate.

**Marlene Moulton Janssen, Rush City**  
B.S. with honors '77, St. Cloud State University. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**John Gilmond Jenstad, Minneapolis**  
B.A. cum laude '65, University of Minnesota. Major: Religious Studies. Minor: Related Fields. Major Adviser: Prof. R.B. Tapp. June Graduate.

**Claudia Jean Johnson, Minneapolis**  
B.A. '79, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. L.E. Olson. July Graduate.

**Daryl Lee Johnson, Minneapolis**  
B.A. '83, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.R. Zander. August Graduate.

**Meredith Kay Johnson, New Hope**  
B.S. with high distinction '84, University of Minnesota. Major: Family Social Science. Minor: Related Fields. Major Adviser: Prof. M.J. Hogan. Graduation Pending.

**Paul Arthur Johnson**  
B.A. '74, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. D.P. Geesaman. July Graduate.

**Ralph Michael Johnson, Minneapolis**  
B.M. cum laude '78, St. Olaf College. Major: Music. Minor: Related Fields. Thesis: "...in the deep heart's core" Five Songs on Poems of W.B. Yeats. Major Adviser: Prof. Paul Fetler. September Graduate.

**Wendelin Kaye Johnson, Detroit Lakes**  
B.A. '82, University of Minnesota. Major: South Asian Languages. Minor: Related Fields. Major Adviser: Prof. S.S. Alvi. July Graduate.

**Ronald Trent Judy**  
B.A. '82, University of Minnesota. Major: Comparative Literature. Major Adviser: Prof. Wladyslaw Godzich. Graduation Pending.

**Avis Anne Julien, Minneapolis**  
B.A. '81, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. J.N. Martin. June Graduate.

**Daniel David Kallman, River Falls, Wis.**

B.A. '80, Luther College. Major: Music. Minor: Related Fields. Thesis: A Spring Overture: For Chamber Orchestra. Major Adviser: Prof. R.J. Argento. Graduation Pending.

**Jane Harrington Keyes, St. Paul**

B.S. with high distinction '70, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. L.E. Olson. June Graduate.

**Sheila Kingston**

B.A. '76, State University College, New York. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. J.E. Ysseldyke. August Graduate.

**Lois Nokleby Kittelson, Randolph**

B.A. '75, College of St. Catherine. Major: Education. Minor: Related Fields. Major Adviser: Prof. E.D. Gennaro. Graduation Pending.

**Majda Kodric, Trieste, Italy**

Laurea '82, University of Trieste. Major: History. Minor: Related Fields. Major Adviser: Prof. R.J. Vecoli. June Graduate.

**Carole Anne Koehn, Little Chute,**

**Wis.**

B.S. '81, University of Wisconsin, Oshkosh. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. L.S. Hansen. September Graduate.

**Solvina Konrads, Iceland**

B.A. '83, University of Iceland. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. R.V. Dawis. July Graduate.

**Mary Val-Rae Kroshus, Wahpeton,**

**N.D.**

B.S. '59, State Teachers College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

**Virginia Kass Kruse, Duluth**

B.S. '71, University of Minnesota, Duluth. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. E.G. Bormann. Graduation Pending.

**Gary Joseph Kurtz, Minneapolis**

B.A. '73, Pennsylvania State University; B.A. '79, College of Steubenville. Major: Industrial Relations. Minor: Related Fields. Thesis: Some Variables Impacting upon Attitude Toward Quality Circle Participation. Major Advisers: Profs. H.E. Miller and G.N. McLean. June Graduate.

**Hsio-Pi Rosemary Lai, Taiwan**

B.Ed. '80, National Taiwan Normal University. Major: Education. Minor: Related Fields. Major Adviser: Prof. S.R. Trollip. October Graduate.

**Shu-Chuan Anny Lan, Taipei, Taiwan**

B.A. '78, Providence College. Major: Mass Communication. Minor: Related Fields. Thesis: Translational Advertising and National Development. Major Adviser: Prof. R.G. Lindsay. July Graduate.

**Kristie Jean Lange, Minneapolis**

B.A. '75, College of St. Catherine. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. Graduation Pending.

**Rowena Lee Lauterbach, Chatham,**

**Mass.**

B.A. magna cum laude '76, Rider College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rhode. June Graduate.

**Sue M. Lawson**

B.A. '77, State University of New York at Binghamton. Major: Geography. Minor: Related Fields. Major Adviser: Prof. S.K. Andrews. Graduation Pending.

**Juan Miguel Le-Bert**

Major: Hispanic Literature. Minor: Anthropology. Major Adviser: Prof. Hernan Vidal. Graduation Pending.

**Karen Sue Leigh, Lake Elmo**

B.A. cum laude '78, Bethel College. Major: Physical Education. Minor: Related Fields. Thesis: The Effects of High-Repetition, Low-Resistance Training on Strength and Fatigability of College Women. Major Adviser: Prof. C.A. Stull. Graduation Pending.

**Jane Elizabeth Leonard, Waukon**

B.S. '79, University of Maryland, College Park. Major: Mass Communication. Minor: Related Fields. Thesis: The Agricultural Press and the Establishment of the United States Department of Agriculture. Major Adviser: Prof. G.S. Hage. July Graduate.

**Christine LeRoy**

Lic. '82, Universite de Paris VII. Major: Comparative Literature. Minor: Chinese. Major Adviser: Prof. R.W. Sousa. Graduation Pending.

**William Whitley Leslie, Minneapolis**

B.A. '74, Beloit College; B.S. '77, University of Minnesota. Major: Geography. Minor: Related Fields. Major Adviser: Prof. J.R. Borchert. October Graduate.

**Kai Lieber**

B.A. '80, State University of New York at Albany. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. D.A. Ahlburg. June Graduate.

**David Roy Lieberman, Minneapolis**

B.A. with distinction '78, Swarthmore College. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Hancher. Graduation Pending.

**Craig Howard Lincoln, Minneapolis**

B.A. '73, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. Geoffrey Maruyama. July Graduate.

**Linda Phelps Lindamood, Minneapolis**

B.S. with distinction '65, Cornell University. Major: Communication Disorders. Minor: Related Fields. Thesis: Teaching Autistic Children to Provide Information: The Influence of Prior Requesting Intervention. Major Adviser: Prof. J.E. Reichle. August Graduate.

**Patricia Susan Lindberg, Minneapolis**

B.A. summa cum laude '82, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. L.S. Hansen. October Graduate.

**Laurie Lou Little**

B.A. '78, Hamline University. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Daniel Jacques Loewenson,  
Minneapolis**

B.S. '69, Moorhead State College. Major: Educational Psychology. Minor: Child Psychology. Major Adviser: Prof. F.H. Wood. October Graduate.

**Mary Louise Pusch Lose, Brooklyn  
Park**

B.A. '78, College of St. Catherine. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Marion Delephene Louck, St. Paul**

B.S. with distinction '74, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. Graduation Pending.

**Chung-Wei Lu, Republic of China**

B.A. '77, National Taiwan University; M.A. '82, University of Kansas. Major: English. Minor: Related Fields. Major Adviser: Prof. M.C. Hancher. Graduation Pending.

**Shirley Marie Luttio, Aomori City,  
Japan**

B.A. with honor '80, Wheaton College. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. N.J. Stenson. June Graduate.

**Charles Peter Lyons, Hibbing**

B.S. '73, Mankato State College; B.S. '77, University of Minnesota. Major: Marketing Education. Minor: Related Fields. Major Adviser: Prof. R.D. Ashmun. September Graduate.

**Kathleen Marie Mackay, Minneapolis**

B.A. '73, St. Louis University. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Lois Ellen Malcolm, Minneapolis**

B.A. magna cum laude '81, Bethel College. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. E.E. Tarone. July Graduate.

**Joelyn Kathleen Malone**

B.A. '72, University of Nebraska. Major: Public Affairs. Major Adviser: Prof. N.N. Eustis. June Graduate.

**James Brent Malveaux, Youngsville,  
La.**

B.A. '78, M.A. '80, University of Southwestern Louisiana. Major: Political Science. Minor: Related Fields. Major Adviser: Prof. A.H. Nimtz. August Graduate.

**MaryJo Papatola Manzey, Sherburn**

B.S. summa cum laude '78, Mankato State University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. J.E. Rynders. Graduation Pending.

**John Amos Marston**

B.A. with high distinction '74, University of Michigan. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. J.K. Gundel. July Graduate.

**Elizabeth Mary Martin, St. Paul**

B.A. '71, College of St. Catherine. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

**Kenneth James Martin, San Francisco,  
Calif.**

B.A. summa cum laude '78, Columbia University. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. Auke Tellegen. June Graduate.

**Cindy Rae Matson, Minneapolis**

B.A. '78, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. J.V. Jensen. June Graduate.

**Maria Adamma Mbaezue, Ihiala,  
Nigeria**

B.S. Journ. '81, Suffolk University. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. R.L. Jones. August Graduate.

- Karen Stella McGovern, St. Louis Park**  
B.S. '71, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. June Graduate.
- Marlys Ann McGuire, St. Paul**  
B.A. '76, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Judith Ann McKay, Winnebago**  
B.S. '70, Mankato State University. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. V.D. Mueller. October Graduate.
- Patricia Ann McKee, Brainerd**  
B.A. '80, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. T.R. Dewar. June Graduate.
- Colleen Marie McLaughlin, St. Paul**  
B.S. magna cum laude '83, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Dichotic Recognition of Complex Sounds. Major Adviser: Prof. C.E. Speaks. Graduation Pending.
- Terrance John Metz, St. Paul**  
B.A. magna cum laude '80, Gustavus Adolphus College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Sheila Anne McMahon Meyer, St. Paul**  
B.A. '73, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Peggy A. Michels-Peterson, St. Paul**  
B.A. '68, University of Minnesota, Morris. Major: History. Minor: Related Fields. Thesis: St. Malachy's of Clontarf: Focal Point for Irish Adaptation on the American Frontier. Major Adviser: Prof. R.J. Vecoli. Graduation Pending.
- Annemarie Mikulich**  
B.A. cum laude '74, Gustavus Adolphus College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Daryl Howard Miller, Mindota, Ill.**  
B.S. with honors '83, University of Illinois, Urbana. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. A.H. Ballet. July Graduate.
- Jane Eldridge Miller, Northbrook, Ill.**  
B.A. cum laude '76, Macalester College. Major: English. Minor: Related Fields. Major Adviser: Prof. P.G. Furia. Graduation Pending.
- Cynthia Louise Miner, Duluth**  
B.S. with distinction '78, University of Minnesota. Major: Mass Communication. Minor: Related Fields. Thesis: "The Adoption of High-Tech Forestry" A Case Study of the Computer Growth and Yield Programs Stems and Twigs. Major Adviser: Prof. T.L. Glasser. Graduation Pending.
- Georgia Rae Minton, Merrill, Wis.**  
B.S. '77, University of Wisconsin, Madison. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. S.L. Lindborg. August Graduate.
- Elizabeth Ruth Mittman, Eugene, Ore.**  
B.A. magna cum laude '81, St. Olaf College. Major: German. Minor: French. Thesis: The Articulation of Muteness: Women Writing in the GDR. Major Adviser: Prof. R.E. Joeres. Graduation Pending.
- Margaret Patricia Moffett, Minneapolis**  
B.A. '77, College of St. Catherine. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Judy Mae Monroe**  
B.S. cum laude '76, University of Minnesota, Duluth. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. August Graduate.
- Bradley Russell Moore, Minneapolis**  
B.A. cum laude '83, St. Olaf College. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. September Graduate.
- Joan Rita Moyer, Inver Grove Heights**  
B.S. with honor '71, Winona State College. Major: Physical Education. Minor: Related Fields. Major Adviser: Prof. M.L. Young. October Graduate.
- DeVonna Kae Murrin, Edina**  
B.A. magna cum laude '79, St. Olaf College. Major: Music. Minor: Related Fields. Major Adviser: Prof. Alex Lubet. June Graduate.
- Nancy McClure Narigon, Minneapolis**  
B.A. '78, Iowa State University. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. Graduation Pending.
- Joseph Herman Neisen, Minneapolis**  
B.A. '76, St. John's University. Major: Family Social Science. Minor: Related Fields. Major Adviser: Prof. Gerhard Neubeck. June Graduate.
- Lynda Carol Nelson, Minneapolis**  
B.E.S. summa cum laude '79, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. A.R. Anderson. Graduation Pending.

**Muriel Anne Nelson, Minneapolis**  
B.S. '74, University of Minnesota. Major: Industrial Education. Minor: Related Fields. Major Adviser: Prof. R.A. Swanson. August Graduate.

**Lori Jo Noel, Minneapolis**  
B.S. '80, University of Minnesota. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. D.B. Wackman. August Graduate.

**Paul Vivret Norman**  
B.A. '73, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.W. Johnson. Graduation Pending.

**Colleen Kay Nuese, Excelsior**  
B.A. '70, College of St. Catherine. Major: Education. Minor: Related Fields. Major Adviser: Prof. C.A. Carrier. Graduation Pending.

**Kathleen Sue Larson O'Brien, Denver, Colo.**  
B.A. magna cum laude '75, Carleton College. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Prof. R.P. McDermott. August Graduate.

**Diane M. Odeen, Black River Falls, Wis.**  
B.A. magna cum laude '82, Lawrence University. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. M.K. Neely. June Graduate.

**Cynthia Lee Osborn, Minneapolis**  
B.S. '77, Mankato State University. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. W.L. Thompson. Graduation Pending.

**Claire Ellen Pavlik, Minneapolis**  
B.A. '81, University of Minnesota. Major: Geography. Minor: Related Fields. Major Adviser: Prof. E.S. Sheppard. June Graduate.

**Kathryn Marlyce Pearce, Coon Rapids**  
B.S. with high distinction '77, University of Minnesota. Major: Business Education. Minor: Related Fields. Major Adviser: Prof. C.R. Hopkins. July Graduate.

**Elizabeth Mary Perry, Minneapolis**  
B.A. '73, Grand Valley State College; M.A. '84, University of Minnesota. Major: French. Minor: Related Fields. Thesis: MEANING, NARRATIVE, AND THE SILENT READER: The Characterization of the Reader in Fiction. Major Adviser: Prof. M.M. Brewer. July Graduate.

**Helena Peskova, Minneapolis**  
B.A. '80, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Glenn Eric Peterson, Minneapolis**  
B.A. magna cum laude '78, Carleton College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Catherine Clare Petroski, Minneapolis**  
B.A. summa cum laude '83, University of Minnesota. Major: History. Minor: Related Fields. Major Adviser: Prof. D.O. Kieft. July Graduate.

**Caryl Anne Pfaff, Hayward, Wis.**  
B.S. '71, University of Wisconsin, Madison. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. L.E. Olson. July Graduate.

**Stephen Wayne Phelps, Colorado Springs, Colo.**  
B.A. '76, Indiana University. Major: English. Minor: Related Fields. Major Adviser: Prof. R.D. Solotaroff. August Graduate.

**Robert Gene Pierce, Stillwater**  
B.A. '53, Iowa State University. Major: Secondary Education. Minor: Related Fields. Major Adviser: Prof. R.W. Beach. September Graduate.

**Mary Jane Plunkett, St. Paul**  
B.A. '43, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. G.L. Shapiro. Graduation Pending.

**Carol Ann Carlson Pogue, St. Paul**  
B.A. '80, College of St. Catherine. Major: Sociology. Minor: Related Fields. Major Adviser: Prof. R.K. Leik. Graduation Pending.

**Barbara Louise Pokela**  
B.A. '80, University of Minnesota. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. A.H. Ismach. July Graduate.

**Joanna Kay Pucel, St. Cloud**  
B.S. with honors '74, St. Cloud State University. Major: Speech-Communication. Minor: Related Fields. Thesis: A Gender Analysis of Self-Reported Stress Behaviors Perceived in Public Speaking Situations. Major Adviser: Prof. C.R. Bantz. July Graduate.

**Zhining Qin, People's Republic of China**  
Dipl. '82, Naning Teacher's College. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.K. Kimpston. June Graduate.

**James Cameron Ramnaraine, Minneapolis**  
B.S. summa cum laude '80, Macalester College. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. H.E. Miller. July Graduate.

- Cynthia Litman Raver, Minneapolis**  
B.S. with distinction '59, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Evaluation of Electrodes for the Measurement of the Human Auditory Brain Stem Response. Major Adviser: Prof. J.L. Yanz. Graduation Pending.
- Abdur Razzaque, Bogra, Bangladesh**  
M.A. '66, University of Rajshahi. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. R.V. Dawis. Graduation Pending.
- Carol Mae Reinagle, Rice Lake, Wis.**  
B.S. cum laude '77, University of Wisconsin, Eau Claire. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Judy Louise Remington**  
B.A. '79, University of Minnesota. Major: American Studies. Major Adviser: Prof. A.I. Geffen. July Graduate.
- Elisha Piller Renne, Arcadia, Fla.**  
B.A. '70, New College. Major: Home Economics. Minor: Anthropology. Thesis: Pelete Bite: Motifs and Meaning. Major Adviser: Prof. J.B. Eieher. June Graduate.
- Lucille Harold Rice, Burnsville**  
B.A. '56, Aurora College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. Graduation Pending.
- Mary Patricia Roberts, St. Paul**  
B.A. '72, College of St. Catherine. Major: Mathematics Education. Minor: Related Fields. Major Adviser: Prof. T.R. Post. Graduation Pending.
- Sharon Anne Roden Grosshardt, Winona**  
B.A. '72, Gustavus Adolphus College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Carter Alan Roeber, Minneapolis**  
B.A. magna cum laude '81, University of Minnesota. Major: Anthropology. Minor: Related Fields. Major Adviser: Prof. W.L. Rowe. October Graduate.
- Russell Dale Rothe, Cannon Falls**  
B.S. magna cum laude '82, Mankato State College. Major: Ancient Studies. Major Adviser: Prof. D.D. Reisman. June Graduate.
- Allison C. Rudolph, Coon Lake**  
B.A. '80, University of Minnesota. Major: Speech Communication. Minor: Related Fields. Major Adviser: Prof. Charles Bantz. Graduation Pending.
- Suellen Olson Rundquist, Arden Hills**  
B.A. '66, St. Olaf College. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. J.K. Gundel. August Graduate.
- Mary Lena Samoszuk, St. Paul**  
B.A. '78, Carleton College. Major: Public Affairs. Major Adviser: Prof. R.T. Kudrle. June Graduate.
- Angel Sanchez**  
Major: Spanish. Minor: Related Fields. Major Adviser: Prof. Rene Jara. June Graduate.
- Francisco Jose Sanchez, Madrid, Spain**  
Lic. '82, Universidad Autonoma de Madrid. Major: Hispanic Literature. Minor: Related Fields. Thesis: The Elaboration of Traditional Theories in Cervantes' Byzantine Novel: Persiles Y Sigismunda. Major Adviser: Prof. A.N. Zahareas. Graduation Pending.
- Amy Elizabeth Sandberg, Storrs, Conn.**  
B.A. cum laude '79, University of Massachusetts. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. September Graduate.
- Gregory Joseph Sands, St. Paul**  
B.A. '72, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.G. Scoville. August Graduate.
- Mayra Carlota Santiago, Minneapolis**  
B.A. '74, Hollins College; M.Ed. '79, Harvard University. Major: Physical Education. Minor: Educational Psychology. Thesis: Comparison of the Effects of Walking or Jogging Twelve Miles Per Week for Twenty Weeks on Cardiorespiratory Variables in Sedentary Women. Major Adviser: Prof. G.A. Stull. Graduation Pending.
- Patricia Anne Satzer, New Brighton**  
B.A. '79, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Mary Ann Saurino**  
B.A. summa cum laude '83, Mount Holyoke College. Major: Geography. Minor: Related Fields. Thesis: 'The White City': Urban Space and Social Order at the Columbian Exposition. Major Adviser: Prof. E.S. Sheppard. August Graduate.
- John William Sayer, Minneapolis**  
B.S. '66, University of Wisconsin, Madison; J.D. '70, University of Houston. Major: History. Minor: Related Fields. Major Adviser: Prof. P.L. Murphy. September Graduate.
- Sharon Leigh Schindele, Maple Grove**  
B.A. magna cum laude '61, Concordia College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. M.C. Reynolds. September Graduate.

- Theresa Marie Schmitz**  
B.A. '75, College of St. Catherine. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.
- Susan Irene Scull, Rochester, N.Y.**  
B.A. cum laude '78, State University of New York, Buffalo. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. G.L. Shapiro. August Graduate.
- Vanessa Lorene Seljeskig, Minneapolis**  
B.A. '78, St. Olaf College; M.A. '83, College of St. Thomas. Major: Physical Education. Minor: Related Fields. Major Adviser: Prof. R.C. Serfass. Graduation Pending.
- Mai-Heng Shen, People's Republic of China**  
Dipl. '82, Beijing Language Institute. Major: Chinese. Minor: Related Fields. Major Adviser: Prof. Chun-Jo Liu. July Graduate.
- Brigid Fagan Shields, St. Paul**  
B.A. '76, College of St. Catherine. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Todd Aaron Sibert**  
B.A. summa cum laude '84, Bethel College. Major: Education. Minor: Related Fields. Major Adviser: Prof. S.M. Clark. Graduation Pending.
- Barbara Jean Simmons, Robbinsdale**  
B.A. '75, University of Iowa. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. M.N. Maack. June Graduate.
- Mark Stanley Simmons, Edina**  
B.A. '70, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.D. Tennyson. July Graduate.
- Laura Jean Smith, Charleston, Ill.**  
B.S. with honors '83, University of Iowa. Major: Communication Disorders. Minor: Related Fields. Thesis: The Effects of Communication Success and Failure on the Referential Communication of Preschool Children: A Reexamination. Major Adviser: Prof. G.M. Siegel. October Graduate.
- Marvin LaVerne Smith, Eagan**  
B.A. '75, North Central Bible College; M.A.Theol.St. '77, Bethel Theological Seminary. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.
- Elizabeth Helen Starr, Minneapolis**  
B.A. '80, University of Minnesota. Major: English. Minor: Related Fields. Major Adviser: Prof. R.D. Solotaroff. September Graduate.
- Virginia I. Steinhagen, St. Paul**  
B.A. '80, College of St. Catherine. Major: History. Minor: Related Fields. Major Adviser: Prof. J.D. Tracy. October Graduate.
- Julie Christine Stitt, San Bernardino, Calif.**  
B.S. magna cum laude '80, Bemidji State University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. F.H. Wood. September Graduate.
- Monika Teufel Stumpf, Minneapolis**  
B.A. with distinction '77, University of Missouri. Major: Communication Disorders. Minor: Related Fields. Thesis: "What is Operativity?" An Examination of Stimulus Characteristics and Their Effect on Naming Responses of Aphasic and Non-Aphasic Subjects. Major Adviser: Prof. R.H. Brookshire. Graduation Pending.
- Karen Jane Swanson, Mountain Iron**  
B.S. magna cum laude '83, University of Minnesota. Major: Physical Education. Minor: Related Fields. Thesis: Comparison of Running History, Dietary Intake, and Menstrual Characteristics of Oligo/Amenorrheic and Regularly Menstruating Track/Cross-Country Athletes Who Have Experienced Stress Fractures/Reactions. Major Adviser: Prof. G.A. Stull. August Graduate.
- Rebecca Rice Tetlie, St. Paul**  
B.A. magna cum laude '80, Concordia College. Major: Communication Disorders. Minor: Related Fields. Thesis: Match Between Signed Request and Object Selection in Four Learners With Severe Disabilities. Major Adviser: Prof. J.E. Reichle. October Graduate.
- Edith Janet Thorstensson, St. Peter**  
B.A. cum laude '66, St. Olaf College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. June Graduate.
- Mary Margaret Thuente, St. Paul**  
B.A. '72, College of St. Catherine. Major: English. Minor: Related Fields. Major Adviser: Prof. J.L. Mitchell. Graduation Pending.
- Richard Ernest Thurlow, Eagan**  
B.S. with distinction '74, University of Minnesota. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. E.A. Turrentine. Graduation Pending.
- John Reeves Tocho III**  
B.A. magna cum laude '83, Macalester College. Major: Geography. Minor: Related Fields. Major Adviser: Prof. E.S. Sheppard. August Graduate.
- Charlaine Evel Tolkien, Minneapolis**  
B.A. '68, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. P.R. Pinto. Graduation Pending.

**Wendy Thomas Treadwell,  
Minneapolis**

B.A. '78, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

**Lucia Moburg Ulrich, Woodbury**

B.A. magna cum laude '80, Luther College. Major: Scandinavian. Minor: Related Fields. Major Adviser: Prof. Poul Houe. October Graduate.

**Kristi Ann Vagstad**

B.E.S. '75, University of Minnesota. Major: English. Minor: Related Fields. Major Adviser: Prof. W.A. Madden. June Graduate.

**Paul Anthony Vinopal, Park Ridge, Ill.**

B.A. '80, University of Illinois. Major: Economics. Minor: Related Fields. Major Adviser: Prof. Neil Wallace. June Graduate.

**Carolyn Mae Wahl, Cary, Ill.**

B.A. cum laude '74, St. Olaf College. Major: Mathematics Education. Minor: Related Fields. Major Adviser: Prof. P.A. House. August Graduate.

**Barbara Leone Walden, Minneapolis**

B.A. '64, Oberlin College; M.A. '66, University of Denver. Major: History. Minor: Related Fields. Major Adviser: Prof. J.K. Munholland. October Graduate.

**Wan Sarah Binte Wan Abdullah**

B.S. '74, Louisiana State University and A & M College. Major: Home Economics Education. Minor: Related Fields. Major Advisers: Profs. R.G. Thomas and Jerry McClelland. July Graduate.

**Anna Marie Wasescha, St. Paul**

B.A. '73, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. D.R. Lewis. June Graduate.

**Charles Wayne Waterfield, St. Paul**

B.S.E.E. '79, University of Iowa. Major: Public Affairs. Major Adviser: Prof. R.T. Kudrle. October Graduate.

**Carley Bjugan Watts, Minneapolis**

B.A. '69, Gustavus Adolphus College. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. G.L. Shapiro. August Graduate.

**Matthew Karl Weber, Elgin, Ill.**

B.A. magna cum laude '81, Bethel College. Major: English. Minor: Related Fields. Major Adviser: Prof. J.L. Mitchell. Graduation Pending.

**Dorian Beth Weissman**

B.A. cum laude '83, University of Denver. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. R.V. Dawis. Graduation Pending

**Suzanne Jane Wickham, St. Paul**

B.A. '73, University of Minnesota. Major: English. Minor: Related Fields. Major Adviser: Prof. R.D. Solotaroff. July Graduate.

**Alissa L. Wiener, St. Paul**

B.A. '68, Mills College; M.A. '75, University of Illinois. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Nancy Rae Huseeth Wisser, Burnsville**

B.A. '74, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. June Graduate.

**Larry L. Witherell**

B.A. '71, University of Northern Colorado; J.D. '76, University of Baltimore. Major: History. Minor: Related Fields. Major Adviser: Prof. J.K. Munholland. September Graduate.

**Samuel Walter Wolfe**

B.S. '75, Winona State University. Major: Mathematics Education. Minor: Related Fields. Major Adviser: Prof. P.A. House. August Graduate.

**Theresa Jean Wolner, St. Paul**

B.S. '73, Mankato State College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

**David Leonard Wondra, Edina**

B.S. summa cum laude '81, Mankato State University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. D.A. Ahlburg. July Graduate.

**Dean Lee Woodbeck, Minneapolis**

B.A. with honor '78, Michigan State University. Major: Mass Communication. Minor: Related Fields. Thesis: Discovery in Libel Cases: Is 'Discovered' Information Publishable Under the First Amendment? Major Adviser: Prof. T.L. Glasser. October Graduate.

**Sharon Kaye Young**

B.A. '80, University of Minnesota. Major: History. Minor: Related Fields. Thesis: The Development of the Doctrine of the Will in the Theology of Philip Melancthon from 1519 to 1535. Major Adviser: Prof. J.D. Tracy. August Graduate.



## Master of Arts

### UNIVERSITY OF MINNESOTA, DULUTH

#### Cynthia Eve Adelson

B.S. '75, University of Minnesota, Duluth. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. M.H. Smabey. Graduation Pending.

#### Rachel Ann Anderson, Brainerd

B.A. magna cum laude '83, University of Wisconsin, Eau Claire. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

#### LouAnn Marie Bonine, Fridley

B.S. '84, St. Cloud State University. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. September Graduate.

#### Kristie Rae Brungardt, International Falls

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#### Gail Ann Burns, Duluth

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#### Patricia Lynn Felegy, Minneapolis

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#### Julie Marie Heisler, Duluth

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#### Karol Lue Jensen, Minneapolis

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#### Ramelle R. Johannsen, Duluth

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#### Jayne Carol F. Johnson, Minneapolis

B.F.A. summa cum laude '83, Mankato State University. Major: Art. Minor: Related Fields. Major Adviser: Prof. P.K. Meany. June Graduate.

#### Patricia Marie Joyal

B.A. '65, University of Minnesota, Duluth. Major: Art. Minor: Related Fields. Major Adviser: Prof. P.K. Meany. June Graduate.

#### Therese Marie Keown, Ashland, Wis.

B.S. '79, Indiana State University. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

#### Linda Louise Leali, Duluth

B.A.S. '84, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

#### Cindy Biss McArthur, Duluth

B.A. '83, San Diego State University. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

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B.B.A. '80, University of Wisconsin, Madison. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Douglas Shirley Lundell, Ortonville**  
B.S.B. with distinction '75, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Thomas Gerard Lydon, St. Paul**  
B.A. '84, University of Minnesota, Morris. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**John Theodore MacDonald, Aitkin**  
B.S. '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Kevin Francis Marinan, Albert Lea**  
B.A. '79, St. John's University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.

**John Stephen Mathias, Hyattsville, Md.**  
B.A. '76, St. John's University. Major: Business Administration. Major Adviser: Prof. R.B. Upson. June Graduate.

- Denise Sue Maxwell, Minnetonka**  
B.S. with distinction, Iowa State University. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.
- James Michael McCarthy, Lynn, Mass.**  
B.S. with high honors '76, Bentley College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- John Bird McElwain**  
B.A. '71, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.
- Constance Jeanne McGeorge, Falcon Heights**  
B.A. '68, Carnegie-Mellon University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Harriet Keener Meetz, Minneapolis**  
D.D.S. '79, Marquette University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Sunil Mehta, Bombay, India**  
B.Tech. '82, Indian Institute of Technology. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- James Clinton Melville, Minneapolis**  
B.S.B. '82, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Ronald John Merbler, Edina**  
B.S.B. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Mary Louise Miller, St. Paul**  
B.A. '82, Northwestern University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Cheryl Marie Mills, Minneapolis**  
B.A. '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. June Graduate.
- Ronald Barry Minegar, LaCrescent**  
B.S. '82, University of Wisconsin. La Crosse. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Erik J. Moe**  
B.A. '80, Carleton College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.
- Cynthia Ann Moeller, St. Paul**  
B.S.B. with distinction '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Mary Catherine Molyneux**  
B.A. '80, College of St. Catherine. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.
- Peter Arthur Moscatelli, Aurora**  
B.S.M.E. with high honor '76, Michigan Technological University; M.S.M.E. '77, Stanford University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Kathleen Erin Murphy, Minneapolis**  
B.S. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Raymond H. Murray**  
B.S. with high honors '76, St. Cloud State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Kathryn Kay Nelson, Minneapolis**  
B.S. '68, Briar Cliff College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. August Graduate.
- Richard Steven Nelson, Minneapolis**  
B.S.B. '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Scott Alan Nelson, St. Paul**  
B.A. '84, University of Minnesota, Morris. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Lisa Carol Nemer, Crystal**  
B.A. magna cum laude '84, Hamline University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- John Edward Nicolay, Minneapolis**  
B.A. '78, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.
- Lizbeth Ellen Olson, Minneapolis**  
B.A. cum laude '82, St. Olaf College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Rosemarie Frances Orehek, Riverside, Ill.**  
B.S. with honors '80, University of Illinois. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Eric Joseph Osiecki, Louisville, Ky.**  
B.B.A. '84, University of Louisville. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Todd Allen Palmer, New Brighton**  
B.A. '84, Moorhead State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.



**Karen Kyong-Ai Park, Minneapolis**  
B.A. '82, Northwestern University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Sangchan Park, Seoul, Korea**  
B.B.A. '84, Seoul National University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Douglas James Peterson, Edina**  
B.Ch.E. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Marjorie Joan Peterson, North Oaks**  
B.A. '55, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Michael Gene Peterson, La Crosse, Wis.**  
B.A. '74, St. Olaf College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Robert M. Phillips, Chicago, Ill.**  
B.A. '77, St. Mary's College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.

**Bernadette Gloria Piacek-Llanes**  
B.S. '72, Concordia University; M.S. '79, Ph.D. '82, Massachusetts Institute of Technology. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Arlene Scherr Pine, Minneapolis**  
B.S. '68, University of Maryland. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Janet Elaine Porter, St. Paul**  
B.S. '75, M.S. '77, Ohio State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Susan Minasian Proctor, St. Paul**  
B.B.A. '79, University of Wisconsin, Madison. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Donald Michael Pusch, Austin**  
B.A. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Paul Jacobson Quie, St. Paul**  
B.S. '82, Whittemore School of Business and Economics. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Scott Thomas Rabehl, Champlin**  
B.S.B. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Donna Jane Radford, Shoreview**  
B.S.B. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Kattil K. Rajeevan, Kodungallur, India**  
B.Tech. '79, Indian Institute of Technology. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Alan Dean Raymond, Minneapolis**  
B.Arch. '74, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Michael Joseph Ready, Edina**  
B.S.B. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Laurie Ann Reding, Austin**  
B.S.B. '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.

**Jeanmarie Rehberg, Burlington, Wis.**  
B.A. cum laude '79, Lawrence University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Robin Susan Reid, Minneapolis**  
B.A. '70, Bowling Green State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Gerald Dennis Rice, Minneapolis**  
B.S.B. '67, University of Minnesota. Major: Business Administration. Major Adviser: Prof. G.N. Dickson. Graduation Pending.

**Ross Norman Rifkin**  
B.E.S. '74, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Lina-Beth Johnson Riggs, Wayzata**  
B.A. '65, University of Kansas. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.

**Syliva Giebler Robinson, Roseville**  
B.S.N. summa cum laude '77, Fort Hays Kansas State College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.

**William A. Rodriguez, New York, N.Y.**  
B.S. magna cum laude '80, St. John's University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Jane Carla Roettger, Duluth**  
B.A. with distinction '84, University of Minnesota, Morris. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

- Mary Elizabeth Rolf, Edina**  
B.S.B.A. '75, Kansas State College of Pittsburg. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Roger Harold Rose**  
B.B.A. '79, University of Wisconsin, Madison. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.
- Donnis Louise Rosenwinkel, Minneapolis**  
B.A. '74, Southwest Minnesota State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.
- Lauren Lee Ross, Duluth**  
B.A. cum laude '80, Gustavus Adolphus College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- William Patrick Rothstein, Grand Rapids**  
B.B.A. '82, University of Notre Dame. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Eric Matthew Ruotsi**  
B.Acc'tg. '78, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.
- Andrew Thomas Rupprecht**  
B.S. '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.
- John Vincent Russell, St. Paul**  
B.A. '83, Carleton College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.
- Richard Tanner Sachse**  
B.S. Ch.E. with honors '82, Lehigh University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.
- Ronald Orville Schettle**  
B.S.B. with distinction '75, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Margaret Smith Schwantes, Minneapolis**  
B.S.B. with distinction '66, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.
- Cheryl Kay Schwichtenberg, Roseau**  
B.A. '72, M.A. '75, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.
- Frederick Morris Scagren, Bloomington**  
B.A. '65, College of St. Thomas. Major: Business Administration. Major Adviser: Prof. R.B. Upson. October Graduate.
- Kevin Edward Sevcik, Cottage Grove**  
B.A. cum laude '79, St. Olaf College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Mark William Sherwin, Edina**  
B.A. magna cum laude '81, Luther College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Gaylen Satoshi Shintaku, Aliea, Hawaii**  
B.A. '77, University of Puget Sound. Major: Business Administration. Major Adviser: Prof. J.W. Dickhaut. June Graduate.
- Thomas John Simser, St. Paul**  
B.S. '71, B.S. '72, Mankato State University. Major: Business Administration. Major Adviser: Prof. R.B. Upson. June Graduate.
- Jeffrey Scott Sjolander, Edina**  
B.S.B. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Timothy Jon Smart**  
B.S.M.E. '81, University of Wisconsin, Madison. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Dave George Smilonich, Brainerd**  
B.S.C.E. with honor '64, Michigan College of Mining and Technology; M.S. '68, Oklahoma State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.
- Cynthia Anne Smith, St. Paul**  
B.A. '74, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. June Graduate.
- Anthony Joseph Spano, St. Paul**  
B.S. '83, Marquette University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.
- Victoria Ann Stadler, Clearwater, Fla.**  
B.S.B. with honors '82, University of Florida. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Teresa Lynn Stanek, St. Paul**  
B.S.B. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.
- Robin Gay Stegner, Redwood Falls**  
B.A. '72, Macalester College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.
- Kent Vernon Stone, Roseville**  
B.A. '80, Gustavus Adolphus College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.

**Andrew John Sukawaty, Minneapolis**  
B.B.A. '77, University of Wisconsin, Madison. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.

**Burt Timothy Swanson**  
B.A. cum laude '81, Gustavus Adolphus College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.

**Craig Virgil Swedberg, Bloomington**  
B.A. '75, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

**John Brock Syverud, Minneapolis**  
B.S. '77, University of Iowa; M.S. '81, Utah State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Peggy Siu-Kuen Tang, Hong Kong**  
B.S. with distinction '75, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. October Graduate.

**Joseph Keith Taylor**  
B.A. '72, Virginia Polytechnic Institute and State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Michael McCoy Taylor, Winnetka, Ill.**  
B.A. magna cum laude '79, Macalester College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Kenneth Louis Thiede, Bloomington**  
B.S.B. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Betty Jill Thompson, St. Paul**  
B.A. cum laude '70, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. June Graduate.

**Noreen M. Walen Thompson, Minneapolis**  
B.A. magna cum laude '78, Augsburg College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Martha Boyd Tickle**  
B.S. '52, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

**Robert Henry Torgerson**  
B.A. magna cum laude '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. September Graduate.

**Lisa Diane Tovin, Plymouth**  
B.S.Mgt. '79, Tulane University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**John Crawford Trautz, St. Paul**  
B.S.B. '82, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Susan Jo Valandra, Minneapolis**  
B.S.B.A. with highest honors '78, University of South Dakota. Major: Business Administration. Major Adviser: Prof. C.A. Williams. September Graduate.

**Monica Ann Vogel, Mankato**  
B.S. magna cum laude '79, Mankato State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Richard Eugene Volkmann, Arden Hills**  
B.A. '64, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Philip Scott von Fischer, Denver, Colo.**  
B.S.B.A. '80, Drake University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Radleigh Douglas Wakefield, Edina**  
B.A. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.

**Sharon Diane Walters, Burnsville**  
B.S.B. with distinction '78, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. June Graduate.

**John Anthony Warren, Minneapolis**  
B.A. '70, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. June Graduate.

**Warren John Wasescha**  
B.S.B. with distinction '78, University of Minnesota. Major: Business Administration. Major Adviser: Prof. J.C. Schreiner. July Graduate.

**Dorothea Maria Weisman, Golden Valley**  
B.A. '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. June Graduate.

**Joseph Michael Welle, Roseville**  
B.S. with honors '77, St. Cloud State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Teresa Marie Welscher, St. Paul**  
B.A. '79, College of St. Teresa. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Todd Alan Werner, Plymouth**  
B.S. '81, University of Michigan. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.

**Lolomari Eldred Whyte, Nigeria**

B.S.C. '82, Bradley University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.

**James Russell Wick, Duluth**

B.A. '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Michael John Wier, St. Paul**

B.S.B. '82, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Wade W. Williams**

B.S. with honors '76, Rochester Institute of Technology. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Michele Williams-Abbott, Plymouth**

B.B.A. with honors '80, University of Notre Dame. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.

**Duane Edward Willms, Cottage Grove**

B.S. '78, University of Wisconsin, River Falls. Major: Business Administration. Major Adviser: Prof. R.B. Upton. June Graduate.

**Robert George Wilson, Cincinnati, Ohio**

B.S. '77, United States Naval Academy. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Susan Tina Wilson**

B.A. '70, University of California, Berkeley. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Jeffrey Michael Wong**

B.A. cum laude '82, University of California, Los Angeles. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. June Graduate.

**Russell Holt Yaucher, St. Louis Park**

B.B.A. magna cum laude '81, University of Wisconsin, Eau Claire. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.

**Mark Steven Zelinski, Fargo, N. D.**

B.S. '78, North Dakota State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Joseph John Zieminski**

B.S. with high distinction '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Jacqueline Rosalie Zondag, Kaukauna, Wis.**

B.A. '83, University of Wisconsin, Madison. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.

## **Master of Business Administration**

UNIVERSITY OF MINNESOTA, DULUTH

**Pramod Amarchand Kapoor, Baroda, India**

B.Acctg. '83, University of Minnesota, Duluth. Major: Business Administration. Major Adviser: Prof. D.W. Ireland. August Graduate.

**Ilhwan Kim**

B.S. '75, Seoul National University. Major: Business Administration. Major Adviser: Prof. D.W. Ireland. Graduation Pending.

**Chiu Shing Joshua Ku, Hong Kong**

B.A. '84, University of Minnesota, Duluth. Major: Business Administration. Major Adviser: Prof. D. N. Steinnes. Graduation Pending.

**Frederick Lawrence Shusterich, Gilbert**

B.S. magna cum laude '77, University of Minnesota, Duluth. Major: Business Administration. Major Adviser: Prof. T. M. Breu. Graduation Pending.

## **Master of Business Taxation**

**Robert Alan Baker, Minneapolis**

B.S.B. '80, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

**Mark Thomas Bakko, Bloomington**

B.S.B. '83, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. August Graduate.

**John Patrick Carew, Minneapolis**

B.B.A. '82, University of Wisconsin, Madison. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

**Alan B. Deglmann**

B.S. with honors '74, St. Cloud State University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. August Graduate.

**Shirley Ann Evans, Northfield**  
B.A. '67, College of St. Teresa. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

**Sheryl Johnson**  
B.S. '80, Iowa State University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

**Ramona Jean Nelson, New Hope**  
B.A. magna cum laude '75, Luther College. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

**Jacqueline Ann Nesbit, St. Paul**  
B.S.B. magna cum laude '80, Northern Michigan University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. August Graduate.

**Bruce Russell Nolan, Minneapolis**  
B.A. magna cum laude '76, St. John's University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. September Graduate.

**Margaret Ann Osborne, Minneapolis**  
B.S.B. with high distinction '77, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

**Diane L. Tverg-Bina, Bloomington**  
B.A. '75, Luther College. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. June Graduate.

### **Master of Civil Engineering**

**Tony Sassine Fares, St. Paul**  
B.C.E. '83, University of Minnesota. Major: Civil Engineering. Minor: Industrial Engineering. Project: Membrane Action Enhancement in Reinforced Concrete Slabs with Application for RC Box-Type Culverts. Major Adviser: Prof. Theodore Krauthammer. June Graduate.

**James Donald Freichels, Blaine**  
B.C.E. '83, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Project: Analysis of Curved Guideway Structure. Major Adviser: Prof. T.V. Galambos. Graduation Pending.

**Thomas Carl Lund, Pueblo, Colo.**  
B.C.E. with distinction '74, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Project: Computer Program for Land Development Using Coordinate Geometry Calculations. Major Adviser: Prof. G.W. Johnson. July Graduate.

**Nicholas Pitera**  
B.C.E. '83, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Project: Investigation of the Experimental Structural Strong Wall Using the Finite Element Method at the University of Minnesota and the Design of an Experimental Loading System to Test Steel Columns Horizontally Under Biaxial Bending. Major Adviser: Prof. R.T. Leon. August Graduate.

### **Master of Electrical Engineering**

**Gary David Havey**  
B.S.E.E. with high honors '79, University of Wisconsin, Madison. Major: Electrical Engineering. Minor: Related Fields. Project: Modeling of Single-Event Upsets in Integrated Schottky Logic. Major Adviser: Prof. R.M. Warner. August Graduate.

**Dave L. Munch, Kenmare, N.D.**  
B.S. '83, North Dakota State University. Major: Electrical Engineering. Minor: Related Fields. Project: An Instantaneous Heart Rate Processor. Major Adviser: Prof. J.E. Holte. Graduation Pending.

**Vy Van Nguyen**  
B.E.E. '83, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Project: Systematic Design Approach for Aircraft Electronics Power Supplies. Major Adviser: Prof. J.E. Holte. September Graduate.

**Gordon Frederick Rouse, Maplewood**  
B.S. '78, Michigan State University. Major: Electrical Engineering. Minor: Related Fields. Project: Feasibility of Digital Control for Ring Laser Stabilization. Major Adviser: Prof. K.S. Kumar. October Graduate.

## Master of Fine Arts

### Patrick Sidney Almonrode

B.A. '77, University of Dallas. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. J.A. Krepps. July Graduate.

### Victoria Dawn Christen, Glendive, Mont.

B.S. cum laude '81, Valley City State College. Major: Studio Arts. Minor: Art History. Major Adviser: Prof. T.J. Lane. July Graduate.

### Nancy Anne Erhard, Hopkins

B.A. '79, University of Minnesota, Morris. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. H.L. Adey. Graduation Pending.

### German Rudy Espinoza, Costa Rica

Lic. '76, La Universidad de Costa Rica. Major: Studio Arts. Minor: Art History. Major Adviser: Prof. K.E. Bethke. June Graduate.

### Timothy Paul Fox, Austin, Tex.

B.A. '81, Austin College. Major: Studio Arts. Minor: Art History. Major Adviser: Prof. C.C. Hoard. June Graduate.

### Todd Matthew Hensley, Independence, Ky

B.A. magna cum laude '82, Morehead State University. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. J.A. Montgomery. August Graduate.

### Patrick Michael Mealey, Minneapolis

B.F.A. '82, University of Minnesota. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. T.R. Cowette. June Graduate.

### Constance Jeanne Oksol, Iowa City, Iowa

B.A. magna cum laude '71, Augustana College. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. David Feinberg. June Graduate.

### Kevin Wayne Olson, New York, N.Y.

B.S. with high honors '82, State University of New York, Oneonta. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. H.L. Adey. June Graduate.

### Randy L. Reeves

B.F.A. '74, Kansas City Art Institute. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. C.C. Hoard. June Graduate.

### Valerie Kay Salter, Minneapolis

B.S. '74, South Dakota State University. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. Victor Caglioti. Graduation Pending.

## Master of Geo-Technology

### Douglas Spencer Hanson, Manitoba, Canada

B.E. '73, University of Saskatchewan. Major: Geo-Technology. Minor: Related Fields. Project: Rock Mechanics Feasibility of the Vertical Crater Retreat Mining Method-Trout Lake Mine. Major Adviser: Prof. S.L. Crouch. September Graduate.

## Master of Mechanical Engineering

### Hossein Aliaghai

B.C.E. '81, University of Minnesota. Major: Mechanical Engineering. Minor: Industrial Engineering. Major Adviser: Prof. B.Y. Liu. Graduation Pending.

## Master of Mineral Engineering

### James F. Eggert, St. Paul

B.Met.E. '83, University of Minnesota. Major: Mineral Engineering. Minor: Metallurgy and Materials Science. Project: The Role of Corrosion and Abrasion in Grinding Media Wear. Major Adviser: Prof. J.J. Moore. June Graduate.

## Master of Music

### Kathryn Harriet Bakke

B.S.E.Ed. '67, Dr. Martin Luther College. Major: Music. Major Adviser: Prof. B.D. Weiser. July Graduate.

### Richard Joel Dworsky

B.A. '70, Columbia University. Major: Music. Major Adviser: Prof. D.L. Jorgenson. June Graduate.

### Mark Robert Erbes, Okemos, Mich.

B.M. summa cum laude '83, Western Michigan University. Major: Music. Major Adviser: Prof. D.B. Baldwin. June Graduate.

### Daniel Joel Geary, Minneapolis

B.M. '80, Mankato State University. Major: Music. Major Adviser: Prof. P.W. Freed. Graduation Pending.

### Joanne Catherine Higgins

B.S. '52, University of Minnesota. Major: Music. Major Adviser: Prof. T.S. Lancaster. Graduation Pending.

### Timothy John Holmes, St. Paul

B.A. '80, North Central Bible College; B.M. '82, University of Minnesota. Major: Music. Major Adviser: Prof. R.T. Laudon. Graduation Pending.

### Christopher S. Kachian, Waukesha, Wis.

B.A. '80, University of Minnesota. Major: Music. Major Adviser: Prof. Johannes Riedel. July Graduate.

### Jayne Lorene Traynor, St. Cloud

B.A. cum laude '82, College of St. Benedict. Major: Music. Major Adviser: Prof. P.W. Freed. July Graduate.

## Master of Planning

### Karen M. Ellingboe, San Francisco, Calif.

B.A. magna cum laude '81, University of Colorado. Major: Planning. Major Adviser: Prof. S.M. Fass. June Graduate.

### David Robert Siburg, Puyallup, Wash.

B.A. cum laude '80, Pacific Lutheran University. Major: Planning. Major Adviser: Prof. J.M. Bryson. August Graduate.

## Master of Science

### Saado Yonis Abboud, Damascus, Syria

Lic. '77, Damascus University. Major: Animal Science. Minor: Related Fields. Thesis: The Inheritance of Litter Size in Sheep. Major Adviser: Prof. W.J. Boylan. July Graduate.

### Marilee Affeldt, St. Cloud

B.A. with honors '77, St. Cloud State University; B.S. '82, University of Minnesota. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. O.R. Ruschmeyer. June Graduate.

### Ijaz Ahmad, Sheikhpura, Pakistan

D.V.M. '75, University of Agriculture, Lyallpur. Major: Theriognology. Minor: Related Fields. Major Adviser: Prof. M.L. Fahning. October Graduate.

### Julie Ann Albrecht, Wimbledon, N.D.

B.S. '71, North Dakota State University. Major: Food Science. Minor: Related Fields. Major Adviser: Prof. E.H. Asp. Graduation Pending.

### Phyllis Marie Anderson, Braham

B.S. with distinction '83, University of Minnesota. Major: Agronomy. Minor: Related Fields. Thesis: Leaf and Apex Development of Six-Rowed Barley Genotypes (*Hordeum vulgare* L.) Differing in Pre-Anthesis and Leaf Initiation Durations. Major Adviser: Prof. S.R. Simmons. July Graduate.

### Loreli Ann Arland, Minneapolis

B.A. '83, University of Minnesota. Major: Medical Microbiology. Minor: Related Fields. Major Adviser: Prof. C.L. Wells. June Graduate.

### Lynn Avon Baasch

B.A. '60, Hastings College. Major: Nursing. Minor: Related Fields. Thesis: Anxiety of Families on the Day of Surgery: A Study of the Relationship Between Information Giving, Reminiscing and Anxiety Reduction. Major Adviser: Prof. E.C. Egan. June Graduate.

### Brian Leroy Bachelder

B.A. cum laude '76, Dartmouth College; M.D. '81, University of Cincinnati. Major: Family Practice and Community Health. Minor: Sociology. Major Adviser: Prof. V.E. Weckworth. August Graduate.

**Karoline Lisa Bagent, Kerkhoven**  
B.S.N. '74, University of Maryland, Baltimore.  
Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.C. Dineen. June Graduate.

**Abboud Bali**  
B.S. Phys.S. '81, Aleppo University. Major: Physics. Minor: Mathematics. Major Adviser: Prof. J.M. Blair. Graduation Pending.

**Lee James Barrington, Wausau, Wis.**  
B.S. '83, University of Wisconsin, Madison. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Maria Gini. Graduation Pending.

**Paul Kevin Barten, Kingston, N. Y.**  
B.S. magna cum laude '83, State University of New York College of Environmental Science and Forestry. Major: Forestry. Minor: Agricultural Engineering. Major Adviser: Prof. K.N. Brooks. October Graduate.

**Linda Kay Bauck, Anoka**  
B.S.N. with high distinction '79, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.

**Gregory Alan Bauer, Fort Atkinson, Wis.**  
B.S. with honor '81, University of Wisconsin, Madison. Major: Agricultural Economics. Minor: Related Fields. Thesis: Agricultural Interest Rate Risk. Major Adviser: Prof. V.R. Eidman. Graduation Pending.

**Andrew Fraser Behrend, Skaneateles, N. Y.**  
B.S. magna cum laude '81, State University of New York College of Environmental Science and Forestry. Major: Ecology. Minor: Statistics. Thesis: Aspects of the Feeding Ecology of the Plains Pocket Gopher (*Geomys bursarius*) at Cedar Creek Natural History Area, Minnesota. Major Adviser: Prof. J.R. Tester. September Graduate.

**Daniel Lincoln Berman, St. Louis Park**  
B. Phys. with high distinction '80, University of Minnesota. Major: Physics. Minor: Related Fields. Major Adviser: Prof. A.M. Goldman. September Graduate.

**Jean Marie Blazey, Minneapolis**  
B.S. with honor '79, South Dakota State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. September Graduate.

**Diane Trennepohl Bouley**  
B.S. '68, D.V.M. '70, University of Minnesota. Major: Medical Microbiology. Minor: Related Fields. Major Adviser: Prof. C.L. Wells. September Graduate.

**Jane Ellen Braun, Columbia Heights**  
B.S. '83, University of Minnesota. Major: Environmental Health. Minor: Epidemiology, Biometry and Health Information Systems. Major Adviser: Prof. Donald Vesley. September Graduate.

**Paul Phillip Bregitzer**  
B.S. with distinction '83, Iowa State University of Science and Technology. Major: Plant Breeding. Minor: Related Fields. Thesis: Effect of Recurrent Selection for Yield on Morphological Characters in Oats. Major Adviser: Prof. D.D. Stuthman. August Graduate.

**Shelley Lynn Bundy, Missoula, Mont.**  
D.D.S. magna cum laude '83, Creighton University. Major: Dentistry. Minor: Related Fields. Thesis: Phagocytosis of Oral Spirochetes by Polymorphonuclear Leukocytes. Major Adviser: Prof. B.L. Philstrom. September Graduate.

**Jane Ellen Bush, Ray Brook, N. Y.**  
B.A. '82, Wittenberg University. Major: Fisheries. Minor: Ecology. Thesis: Determination of Fertility in Two- and Three-Year-Old Pink Salmon in a Minnesota Tributary to Lake Superior. Major Adviser: Prof. G.R. Spangler. Graduation Pending.

**Anthony Charles Caputa, Grafton, Wis.**  
B.S. '81, University of Wisconsin, Madison. Major: Food Science. Minor: Biochemistry. Thesis: Influence of Certain Environmental Factors on the Synthesis and Release of Staphylococcal Enterotoxins. Major Adviser: Prof. S.R. Tatini. Graduation Pending.

**Dennis Everett Carlson, Grand Rapids**  
B.S. with distinction '76, University of Minnesota. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. E.L. Schmidt. July Graduate.

**Kelley Elaine Carlson, Elgin, Tex.**  
B.S. summa cum laude '83, Texas A&M University. Major: Geophysics. Minor: Related Fields. Thesis: A Combined Analysis of Gravity and Magnetic Anomalies in East Central Minnesota. Major Adviser: Prof. V.W. Chandler. Graduation Pending.

**Jane Mary Chatterjee, West Midlands, England**  
B.S. with second class honors '70, Imperial College of Science and Technology. Major: Chemistry. Minor: Education. Major Adviser: Prof. R.C. Brasted. June Graduate.

**Shin-Lin Chen, Taiwan**  
B.S. Agr. '75, National Taiwan University. Major: Food Science. Minor: Related Fields. Thesis: Effect of Growth Regulators on Yield and Quality of Mungbean Sprouts Grown in an Automatically Controlled Chamber. Major Adviser: Prof. W.M. Breene. July Graduate.



**Janell Lynn Christenson, Spring Valley**  
B.S. '82, College of St. Teresa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. V.C. Gordon. June Graduate.

**Catherine Diane Chronister,  
Manitoba, Canada**

B.S. with special distinction '77, B.S. with highest honors '78, University of Oklahoma. Major: Ecology. Minor: Related Fields. Thesis: Egg-Laying and Incubation Behavior of Black-Bellied Whistling Ducks. Major Adviser: Prof. D.F. McKinney. August Graduate.

**Jay Steven Coggins, Ladysmith, Wis.**  
B.S. '83, University of Wisconsin, River Falls. Major: Agricultural and Applied Economics. Minor: Statistics. Major Adviser: Prof. J.W. Hammond. October Graduate.

**Krista Ann Coleman, Charleston, Ill.**  
B.S. '78, Eastern Illinois University; B.S. Phys. Therapy '80, University of Illinois. Major: Physical Therapy. Minor: Related Fields. Thesis: The Effect of Selected Modalities on Transthoracic Electrical Impedance Measurements. Major Adviser: Prof. R.P. Patterson. Graduation Pending.

**John Edgar Collins, Hudson, Wis.**  
B.S. with distinction '69, Iowa State University. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Interactive Graphics for Computer Systems Modeling Using Petri Nets. Major Adviser: Prof. S.C. Bruell. September Graduate.

**John Patrick Conry, Ireland**  
B.Dent.S. '80, University of Dublin. Major: Dentistry. Minor: Related Fields. Thesis: Assessment of Recovery From Nitrous Oxide-Oxygen Sedation Using Neuropsychometry. Major Adviser: Prof. R.J. Feigal. September Graduate.

**William Flavis Cooper, Shawnee,  
Okla.**  
B.S. '79, Oklahoma State University. Major: Chemistry. Minor: Related Fields. Thesis: The Effect of Perfluorocarbons on the Photochemical Production and Decay of Wurster's Blue (N,N,N',N' Tetramethyl-P-Phenylenediamine Cation) in 2,2,4 Trimethyl Pentane. Major Adviser: Prof. Sanford Lipsky. June Graduate.

**Gregory C. Critchfield, Salt Lake City,  
Utah**  
B.S. '76, Brigham Young University; M.D. '80, University of Utah. Major: Biophysical Sciences. Minor: Related Fields. Major Advisers: Profs. Eugene Ackerman and D.P. Connelly. July Graduate.

**Lynn Sherwood Cudlip, Detroit,  
Mich.**  
B.A. '82, University of Colorado. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. J.A. Perry II. June Graduate.

**Elizabeth Ann Culver, Milwaukee,  
Wis.**

B.A. cum laude, with distinction '83, Carleton College. Major: Botany. Minor: Related Fields. Major Adviser: Prof. I.D. Charvat. Graduation Pending.

**Julia Marie Dady, St. Paul**  
B.S. magna cum laude '82, Bemidji State University. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. J.B. Stevens. October Graduate.

**Robert Frank Dahlen, Minneapolis**  
B.S. '75, United States Naval Academy; B.S. Nuc.E. '79, University of Arizona. Major: Computer and Information Sciences. Minor: Electrical Engineering. Major Adviser: Prof. W.D. Munro. Graduation Pending.

**Janet Blair Dagleish, Minneapolis**  
B.A. '75, Trinity University. Major: Geology. Minor: Related Fields. Thesis: Sinkhole Distribution in Winona County, Minnesota. Major Adviser: Prof. E.C. Alexander, Jr. August Graduate.

**Lisa Gruenewald Darling, Worthington**  
B.A. magna cum laude '80, Western State College. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. K.M. Chaloner. September Graduate.

**Deborah Jean De Jong, Altoona, Iowa**  
B.A. '77, William Penn College, B.S.N. '79, Coe College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. B.M. Feldman. July Graduate.

**Kevin Lee Denis, LaSalle, Mich.**  
D.D.S. '83, University of Michigan. Major: Dentistry. Minor: Related Fields. Thesis: A Multivariate Analysis of Soft Tissue Facial Profile Changes Coincident with Adult Orthodontic Treatment. Major Adviser: Prof. T.M. Speidel. September Graduate.

**Jose Andres Diaz, Mexico**  
Ing. '77, Escuela Nacional de Agricultura. Major: Food Science. Minor: Related Fields. Major Adviser: Prof. W.M. Breene. September Graduate.

**Robert Arthur Dietrich, Mount Huron,  
Wis.**  
B.S. '75, University of Wisconsin, Madison. Major: Plant Pathology. Minor: Related Fields. Thesis: Studies on Pine-Oak and Pine-Pine Rust on Jack Pine. Major Adviser: Prof. R.A. Blanchette. July Graduate.

**Janet I. Donlea**  
B.A. '73, State College of Iowa. Major: Nursing. Minor: Related Fields. Thesis: Relaxation Methods Compared for Effectiveness in Reducing Job Stress Among Health Care Personnel. Major Adviser: Prof. V.G. Gordon. Graduation Pending.

- Rajkumar Suresh Doshi, Bombay, India**  
B.Chem. '81, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. M. Gini. September Graduate.
- Denise Ann Downing**  
B.S. cum laude '79, Texas Woman's University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. September Graduate.
- Judith Elaine Doyle, Des Moines, Iowa**  
B.S. cum laude '81, University of Dubuque. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.A. Corcoran. September Graduate.
- Mary Kathryn Duma, Excelsior**  
B.A. '83, College of St. Catherine. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. J.B. Stevens. June Graduate.
- Ruben Gerardo Echeverria, Montevideo, Uruguay**  
Ing.Agron. '81, Universidad de la Republica. Major: Agricultural Economics. Minor: Related Fields. Major Adviser: Prof. V.W. Ruttan. August Graduate.
- Bruce Kevin Edgar, Iowa City, Iowa**  
B.S. with high distinction '81, University of Iowa. Major: Astronomy. Minor: Related Fields. Thesis: Surface Photometry of Spiral Arms. Major Adviser: Prof. R.C. Kennicutt. August Graduate.
- Thomas John Eisenreich**  
B.S. '81, University of Wisconsin. Eau Claire. Major: Mechanics. Minor: Related Fields. Major Adviser: Prof. Robert Plunkett. May Graduate.
- Dean Alan Elledge**  
B.S. magna cum laude '79, Missouri Southern State College. Major: Dentistry. Minor: Related Fields. Thesis: An Evaluation of the Effects of Three Separating Medias on the Processing of Softic 49 Dental Resin. Major Adviser: Prof. R.J. Goodkind. September Graduate.
- Timothy Ray Ellsworth, Grand View, Idaho**  
B.S. '83, Brigham Young University. Major: Soil Science. Minor: Related Fields. Thesis: Soil Physical and Chemical Properties as Affected by Corn and Soybeans. Major Adviser: Prof. G.R. Blake. June Graduate.
- Jacinta Emblom**  
B.S.N. cum laude '77, University of Miami. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.
- Carolyn Jane Emerson, Lake Forest, Ill.**  
B.A. '82, Colorado College. Major: Agricultural Economics. Minor: Related Fields. Major Adviser: Prof. P.M. Raup. Graduation Pending.
- Fe Serapio Evangelista, Quezon City, Philippines**  
B.S.Chem. '80, Ateneo de Manila University. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. L.F. Gray. June Graduate.
- Frank Karl Fager, Worthington**  
D.D.S. '83, University of Minnesota. Major: Dentistry. Minor: Related Fields. Thesis: Systemic Distribution of CMCP from Cotton Pellets Sealed in Pulp Chambers. Major Adviser: Prof. H.H. Messer. September Graduate.
- George Anthony Fall, Carlton**  
B.S. '82, University of Minnesota, Duluth. Major: Physiology. Minor: Related Fields. Thesis: The Effect of Ethyl Alcohol on the Diving Reflex in Man. Major Adviser: Prof. L.E. Wittmers, Jr. Graduation Pending.
- Chad Elliott Finn, Potomac, Md.**  
B.S. '83, Purdue University. Major: Horticulture. Minor: Related Fields. Thesis: Inheritance of and Relationships Between Bloom Date, Ripe Date, Fruit Filling Period, and Fruit Size in Blueberry Progenies. Major Adviser: Prof. J.J. Luby. September Graduate.
- William Virgil Fowler, Minneapolis**  
B.A. magna cum laude '80, Augsburg College. Major: Genetics. Minor: Related Fields. Major Adviser: Prof. B.L. Shapiro. June Graduate.
- Mary Margaret Funk, St. Paul**  
B.S. with highest honors '83, University of Illinois, Urbana. Major: Animal Science. Minor: Related Fields. Thesis: The Growth of Environmental Mastitis Pathogens in Various Bedding Materials. Major Adviser: Prof. R.D. Appleman. August Graduate.
- Mary Ann Gannon, Iowa City, Iowa**  
B.S. '81, Iowa State University of Science and Technology. Major: Nutrition. Minor: Related Fields. Major Adviser: Prof. A.S. Levine. June Graduate.
- Andrea Gargas, Minneapolis**  
B.A. '82, Carleton College. Major: Botany. Minor: Plant Pathology. Thesis: The Effects of Bacterial Pathogens on the Leaf Movements of Phaseolus vulgaris. Major Adviser: Prof. W.L. Koukkari. Graduation Pending.
- Philip Bernard Gavin, Los Angeles, Calif.**  
B.S. Physics magna cum laude '69, University of Notre Dame. Major: Physics. Minor: Related Fields. Major Adviser: Prof. N.M. Hintz. October Graduate.

**Tamar Bilha Gavrieli, Israel**  
B.A. '78, Haifa University; M.S. '82, Israel Institute of Technology. Major: Home Economics. Minor: Related Fields. Thesis: Single Parent Female Headed Families—Patterns of Residential Mobility. Major Advisers: Profs. E.M. Franklin and C.C. Cook. July Graduate.

**Sharon Ann Gay, Green Bay, Wis.**  
B.S. '82, University of Wisconsin, Madison. Major: Food Science. Minor: Related Fields. Thesis: Effect of Sweetener-Stabilizer Combinations on the Physical Properties and Sensory Qualities of a Minimum Fat Ice Cream Formulation. Major Adviser: Prof. D.E. Smith. October Graduate.

**Anna Maria Gaylord, St. Paul**  
B.A. '82, University of Minnesota. Major: Food Science. Minor: Related Fields. Thesis: The Light Stability of Vitamin A and Riboflavin in Lowfat Milks. Major Adviser: Prof. J.J. Warthesen. August Graduate.

**Subbarao Ghanta**  
B.Tech. '81, Jawaharlal Nehru Technological University; Ph.D. '85, University of Minnesota. Major: Computer and Information Sciences. Minor: Electrical Engineering. Major Adviser: Prof. S.C. Bruell. Graduation Pending.

**Eric Edward Gill, Dodge Center**  
B.A.B.A. '82, University of Minnesota. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. V.R. Eidman. October Graduate.

**John Henry Glick III, Roaland Park, Kan.**  
B.S.Ch.E. with distinction '79, University of Kansas. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.B. Rosen. Graduation Pending.

**Paul Richard Goudreault, Olivet, Mich.**  
B.S. '80, Western Michigan University. Major: Geology. Minor: Civil Engineering. Thesis: A Two-Dimensional, Finite-Difference Groundwater Flow Model of the Minneapolis Chain of Lakes and Surrounding Water Table Aquifer. Major Adviser: Prof. H.O. Pfannkuch. September Graduate.

**Mark Alan Graham**  
B.S. '80, University of Massachusetts, Amherst. Major: Forestry. Minor: Related Fields. Thesis: Process Variables in the Production of Densified Wood Fuel with the Addition of Coal Fines. Major Adviser: Prof. J.C. Haygreen. Graduation Pending.

**Linda Atwood Graif, Mankato**  
B.S.N. cum laude '78, Mankato State University. Major: Nursing. Minor: Related Fields. Thesis: Preschool Children's Perception of the Nurse Before and After They Receive a Specially Selected Literature Intervention Program. Major Adviser: Prof. F.E. King. June Graduate.

**Mary Elizabeth Gresser, Cold Spring**  
B.A. magna cum laude '83, St. Cloud State University. Major: Medical Microbiology. Minor: Related Fields. Major Adviser: Prof. J.T. Prince. June Graduate.

**Paul Rudolf Grossl, Monmouth, Ill.**  
B.S. '81, University of Illinois. Major: Soil Science. Minor: Related Fields. Thesis: Phosphorus Nutrition of Soybeans Grown on Compacted Soils. Major Adviser: Prof. R.H. Dowdy. October Graduate.

**Kim R. Grossman**  
B.A. '80, University of Nebraska. Major: Nursing. Minor: Related Fields. Thesis: A Measure of Attitudinal Autonomy in Nurses in Positions of High Authority vs. Low Authority. Major Adviser: Prof. A.M. Sime. August Graduate.

**Marilouise Hagenberg, Niles, Mich.**  
B.A. '73, Western Michigan University; B.S.N. '75, University of Kansas, M.A. '81, Western Michigan University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. E.C. Egan. Graduation Pending.

**Ihab Adel Hammad, Alexandria, Egypt**  
B.D.M.Surg. '80, Alexandria University, Egypt. Major: Dentistry. Minor: Related Fields. Thesis: The Effects of Firing Cycles, Surface Textures and Metal Types on the Bond Strength of the Ceramometal Complex Using Shear Testing. Major Adviser: Prof. R.J. Goodkind. September Graduate.

**Janet Sue Hartin, Redlands, Calif.**  
B.S. with distinction '80, University of Minnesota. Major: Horticulture. Minor: Related Fields. Thesis: Allelopathic Potential of *Pisum sativum*. Major Adviser: Prof. A.H. Markhart III. Graduation Pending.

**Nancy Louise Haugen, North Oaks**  
B.S. '69, College of St. Catherine. Major: Nursing. Minor: Related Fields. Thesis: Attitudes of Registered Nurses in Minnesota Toward Women: Implications for Practice. Major Adviser: Prof. V.C. Gordon. Graduation Pending.

**Asa Suzanne Hedin, Gothenburg, Sweden**  
B.A. '83, Gustavus Adolphus College. Major: Biophysical Sciences. Major Adviser: Prof. Eugene Ackerman. July Graduate.

**Dennis Martin Heisey**  
B.S. with high distinction '73, Pennsylvania State University; M.S. '75, University of Michigan. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. D.A. Berry. Graduation Pending.

**Russell Carl Holpuch, Minneapolis**  
D.D.S. with honors '79, University of Illinois. Major: Dentistry. Minor: Related Fields. Thesis: Effectiveness of Chlorhexidine in the Prevention of Stomatitis During Chemotherapy. Major Adviser: Prof. B.L. Pihlstrom. September Graduate.

**Yeongching Hong, Republic of China**  
B.S. '80, National Chung-Hsing University. Major: Food Science. Minor: Chemical Engineering. Thesis: Finite Element Modeling of Moisture Transfer During the Storage of Well Mixed Multicomponent Dried Foods. Major Adviser: Prof. A.S. Bakshi. September Graduate.

**Judy Lachmund Hovelson, Lewiston**  
B.S. '77, University of Vermont. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.

**Mingjue Huang, Republic of China**  
B.S. '70, National Taiwan Normal University; M.S. '72, National Tsing Huan University. Major: Astronomy. Minor: Related Fields. Major Adviser: Prof. Lawrence Rudnik. September Graduate.

**Debra Susan Huntrods, Canton**  
B.S. '76, University of Minnesota. Major: Animal Physiology. Minor: Related Fields. Thesis: Factors Influencing the Size Distribution of Turkey Spermatozoa and Its Possible Application in Assaying Semen Quality. Major Adviser: Prof. E.F. Graham. August Graduate.

**Dennis J. Jacobsen, Omaha, Neb.**  
B.S. '82, Kearney State College. Major: Physiology. Minor: Biochemistry. Thesis: The Effects of Simulated Cross-Country Skiing on Physical Fitness. Major Adviser: Prof. A.S. Leon. October Graduate.

**Gordon Ray Jacobsen, Froid, Mont.**  
B.S. '81, Montana State University. Major: Biometry and Health Information Systems. Minor: Related Fields. Major Adviser: Prof. J.R. Boen. June Graduate.

**Ibrahim Bin Jantan**  
B.Pharm.S. '81, University of Mansoura. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Heterocyclic Analogs of N-Hydroxy-4-Acetamidobiphenyl and N-Hydroxy-a-Acetamidofluorene as Substrates for N-Arylhydroxamic Acid N,O-Acyltransferase. Major Adviser: Prof. P.E. Hanna. Graduation Pending.

**Kenneth Melvin Johnson, Grand Rapids, Mich.**  
B.S. with honor '82, Michigan State University. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: The Minnesota Budgetary Process: A Simulation Model. Major Adviser: Prof. W.R. Maki. October Graduate.

**Neal Wallbridge Johnson, Rochester, Mich.**  
B.A. '82, Wesleyan University. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. L.F. Gray. July Graduate.

**Douglas Taylor Jonak, Columbia Heights**  
B.A. '79, D.D.S. '83, University of Minnesota. Major: Dentistry. Minor: Related Fields. Thesis: A Comparison of Abrasive Etching and Acid Etching of Enamel. Major Adviser: Prof. R.R. Bevis. July Graduate.

**Chu Jong**  
B.Arch.E. '77, College of Chinese Culture. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. September Graduate.

**Joseph Patrick Jurasek, Flint, Mich.**  
B.S. '83, Michigan State University. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. C.E. McJilton. October Graduate.

**Nicholas Anthony Kalambokidis, St. Paul**  
B.S. '83, University of Minnesota. Major: Agricultural Economics. Minor: Related Fields. Major Adviser: Prof. K.M. Brooks. October Graduate.

**Iraj Kani**  
B.Math. with distinction '81, B.Physics with distinction '84, University of Minnesota. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. L.F. Gray. August Graduate.

**Richard Chao-Chung Kao, River Falls, Wis.**  
B.A. '83, Carleton College. Major: Microbiology. Minor: Related Fields. Thesis: Studies of Leukocyte Granule Proteins in Pulmonary Inflammation and Emphysema. Major Adviser: Prof. B.H. Gray. August Graduate.

**Brian Joseph Keefe, Minneapolis**  
B.S. '83, B.S. with high distinction '83, University of Minnesota. Major: Agricultural Economics. Minor: Statistics. Major Adviser: Prof. D.E. Welsch. Graduation Pending.

**Marilyn Lee Keeler, Spokane, Wash.**  
B.S. '76, University of Washington. Major: Biochemistry. Minor: Chemistry. Thesis: Mechanistic Studies of Ribonucleotide Reductase. Major Adviser: Prof. H.P. Hogenkamp. Graduation Pending.

**Jeyanthi Kernik, Malaysia**  
B.A.E.M. '83, University of Minnesota. Major: Mechanics. Minor: Mathematics. Major Adviser: Prof. G.S. Beavers. September Graduate.

**Debra Lynn Kielty, Plymouth**  
B.S. '81, College of St. Francis. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.A. Corcoran. June Graduate.

**Mary Joan Kiernan, Minneapolis**  
B.S.N. '81, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. V.C. Gordon. July Graduate.

**Young Ho Kim**

B.S. '82, Yonsei University. Major: Physics. Minor: Related Fields. Major Adviser: Prof. C.C. Huang. October Graduate.

**Sally C. Klein, Bloomington**

B.S. cum laude '76, St. John's University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Patricia Crisham. June Graduate.

**Marvin John Knoeck, Jr., Wausau, Wis.**

B.S. '74, University of Wisconsin, Madison. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. R.M. Giese. August Graduate.

**Lawrence Robert Koenig, Peru**

B.S. '76, Tulane University; Cir.Dent. '82, Universidad Peruana Cayetano Heredia. Major: Dentistry. Minor: Related Fields. Thesis: Assessment of Clinical Feasibility of a Three-Dimensional Stereophotogrammetrical System. Major Adviser: Prof. T.M. Speidel. September Graduate.

**Diane Mae Kolquist**

B.A. '71, College of St. Scholastica. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. June Graduate.

**Barbara Wood Krabek, St. Louis Park**

B.A. '67, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. B.M. Feldman. July Graduate.

**Betty A. Kramek, New York City, N. Y.**

B.S. '77, D.V.M. '81, Cornell University. Major: Veterinary Surgery, Radiology and Anesthesiology. Minor: Related Fields. Major Adviser: Prof. L.J. Wallace. July Graduate.

**Gregory Alan Larson, South Wayne, Wis.**

B.S. '73, University of Wisconsin, Stevens Point. Major: Soil Science. Minor: Related Fields. Major Adviser: Prof. R.S. Farnham. July Graduate.

**Ronald Brian Larson, Montevideo**

B.S. with high distinction '81, University of Minnesota. Major: Agricultural Economics. Minor: Related Fields. Thesis: Discount Coupons and Consumers. Major Adviser: Prof. J.D. Kinsey. September Graduate.

**David Craig Leding, Cook**

B.S. with distinction '78, University of Minnesota. Major: Forestry. Minor: Industrial Relations. Thesis: Assessing the Transferability of Japanese Manufacturing and Management Techniques into the United States Forest Products Industry. Major Adviser: Prof. J.L. Bowyer. September Graduate.

**Jeffrey Peter Lee, Fridley**

B.A. cum laude '77, Augsburg College. Major: Computer and Information Sciences. Minor: Business Administration. Major Adviser: Prof. W.D. Munro. October Graduate.

**Ronald Jay LeMaster, Denver, Colo.**

B.S. '79, University of Colorado. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Maria Gini. October Graduate.

**WingNing Li, Hong Kong**

B.S. with highest distinction '82, University of Iowa. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. S.K. Sahni. Graduation Pending.

**Dean R. Lillquist**

B.A. '81, Augsburg College. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. R.D. Singer. September Graduate.

**Judy Ann Limberg, LaCrescent**

B.S.N. '74, Viterbo College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. June Graduate.

**Lois Lucile Linden, Fremont, Neb.**

B.S. '72, Midland Lutheran College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Patricia Crisham. August Graduate.

**Bruce Barnes Loehle**

B.S. cum laude '79, University of Georgia. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. S.C. Bruell. June Graduate.

**Lynn Alanna Lundgren, Minneapolis**

B.S. '76, South Dakota State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K. Sodergren. September Graduate.

**James Russell Lundy, Minneapolis**

B.A. '81, Gustavus Adolphus College. Major: Geology. Minor: Related Fields. Thesis: Clues to Structural History in the Minor Folds of the Soudan Iron Formation, Northeast Minnesota. Major Adviser: Prof. P.J. Hudleston. Graduation Pending.

**Sonja Lee Maki, Hudson, Wis.**

B.S.Agr. '82, University of Wisconsin, River Falls. Major: Horticulture. Minor: Plant Physiology. Thesis: Identification of Pea Gibberellins by Studying [14C]GA12-Aldehyde Metabolism. Major Adviser: Prof. M.L. Brenner. August Graduate.

**Argyrios Malapanis, Kalamata, Greece**

Dipl. '83, National University of Athens. Major: Physics. Minor: History Science and Technology. Major Adviser: Prof. W.A. Johnson. September Graduate.

**Kathryn Jo Malody, Burnsville**

B.A. '82, Macalester College. Major: Botany. Minor: Related Fields. Thesis: The Effects of Fertilizers on Lichens. Major Adviser: Prof. C.M. Wetmore. June Graduate.

**Carl Richard Manson, St. Paul**

B.S.B. '79, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. L.L. Kinney. July Graduate.

**Judy Charlene Martin, Thunder Bay,  
Ontario, Canada**

D.M.D. '80, University of Manitoba. Major: Dentistry. Minor: Child Psychology. Thesis: The Efficacy of a Regularly Applied, Comprehensive Caries Preventive Program in a Fluoridated Community. Major Adviser: Prof. L.B. Messer. September Graduate.

**Pamela Anne Matsch**

B.S. '82, University of Arizona. Major: Chemistry. Minor: Related Fields. Thesis: The Electrochemistry of Diphosphine, Diisocyanide Rhodium(I) Dimers. Major Adviser: Prof. K.R. Mann. September Graduate.

**Barbara Ann McDermott, Owatonna**

B.S.N. with high distinction '76, University of Minnesota. Major: Nursing. Minor: Related Fields. Thesis: Effect of Oral Fluid Intake in Viscoelastic Properties of Sputum in the Individual with Chronic Airflow Limitation. Major Adviser: Prof. A.M. Sime. August Graduate.

**Timothy Rea McDermott, Grand  
Island, Neb.**

B.S.Agr. with highest distinction '82, University of Nebraska. Major: Soil Science. Minor: Microbiology. Thesis: Bacteroid Viability of Bradyrhizobium Japonicum: Influence of Strain and Host and Effect of Persistence. Major Adviser: Prof. P.H. Graham. August Graduate.

**Susan Louise McDonald**

B.S. '81, University of Wisconsin, Superior. Major: Fisheries. Minor: Related Fields. Major Adviser: Prof. G.R. Spangler. July Graduate.

**Lezley Patricia McIlveen, North  
Ireland**

B.D.S. '81, The Queen's University of Belfast. Major: Dentistry. Minor: Related Fields. Thesis: Quantitative and Qualitative Analysis of the Acids Produced in the Dental Plaque of Children. Major Adviser: Prof. R.J. Feigal. October Graduate.

**Roman Stefan Melnyk, Utica, N.Y.**

B.S. '79, D.D.S. '81, Case Western Reserve University. Major: Dentistry. Minor: Related Fields. Thesis: A Clinical and Microbiological Evaluation of Sodium Hypochlorite Gingival Curettage. Major Adviser: Prof. B.L. Pihlstrom. October Graduate.

**Kurt Christopher Meyer, Minneapolis**

B.S. '84, St. John's University. Major: Mechanics. Minor: Mathematics. Major Adviser: Prof. B.S. Liebst. Graduation Pending.

**Mark David Meyer, Keyesport, Ill.**

B.S. with honors '80, University of Illinois. Major: Agricultural Economics. Minor: Economics. Major Adviser: Prof. P.R. Hasbargen. September Graduate.

**Michael L. Meyer**

B.S. '66, Wisconsin State University, Stevens Point; M.S. '79, University of Wisconsin, Madison. Major: Soil Science. Minor: Related Fields. Thesis: Nitrogen Transformations and Losses in a Minnesota Wild Rice Paddy Histosol. Major Adviser: Prof. P.R. Bloom. August Graduate.

**William James Mills, Anchorage,  
Alaska**

B.S. '79, University of Michigan. Major: Physiology. Minor: Related Fields. Thesis: The Effect of Topical Anesthetic on Large Amplitude Tremors and Clonus. Major Adviser: Prof. R.S. Pozos. August Graduate.

**Barbara Lynn Milne, Eagan**

B.S.N. '81, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. B.H. Canedy. Graduation Pending.

**Raji Hussain Mohammed, Iraq**

M.B. '76, Ch.B. '76, University of Baghdad. Major: Laboratory Medicine. Minor: Pathobiology. Thesis: Studies on Estrogen Receptors, Progesterone Receptors and Creatine Kinase (BB Form) in Breast Cancer. Major Adviser: Prof. Walid Yasmineh. August Graduate.

**Bethany Sue Neal, LaFontaine, Ind.**

B.S. Pharm. '80, Purdue University. Major: Pharmacology. Minor: Related Fields. Thesis: Blockade of Opiate Withdrawal by Serotonin Receptor Antagonists. Major Adviser: Prof. S.B. Sparber. Graduation Pending.

**Bonnie Mae Nelson, Richmond, Ind.**

B.S. with distinction '73, Purdue University. Major: Horticulture. Minor: Plant Breeding. Thesis: Interspecific Hybridization Between Phaseolus vulgaris and Phaseolus acutifolius. Major Adviser: Prof. P.D. Ascher. Graduation Pending.

**Deborah L. Newquist, La Crosse, Wis.**

B.S.N. '75, M.Ed. '78, University of Missouri. Major: Nursing. Minor: Related Fields. Thesis: A Comparison of Three Forms of Feedback on the Acquisition of Psychomotor Skill in Nursing. Major Adviser: Prof. S.A. Corcoran. August Graduate.

**Steven Edward Nizielski, St. Anthony**

B.S. '79, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Regulation of Food Intake in Wild Species Which Exhibit Seasonal Periods of Hyper- and Hypophagia. Major Adviser: Prof. A.S. Levine. Graduation Pending.

**Evarista Christiana Nnadi, Anambra State, Nigeria**

B.S. cum laude '81, St. Mary College. Major: Laboratory Medicine. Minor: Pathobiology. Thesis: Solubility and Co-Polymerization of In Vitro Carbamylated Human Hemoglobin S. Major Adviser: Prof. Andreas Rosenberg. Graduation Pending.

**Charles Robert Ojala, Great Falls, Mont.**

B.S. summa cum laude '79, College of Great Falls. Major: Chemistry. Minor: Related Fields. Thesis: Crystallographic Aspects of Some Isosteric Molecules. Major Adviser: Prof. J.Z. Gougoutas. Graduation Pending.

**James John Olson**

B.S. '61 with distinction, M.S. '63, University of Minnesota. Major: Mineral Engineering. Minor: Related Fields. Major Adviser: Prof. D.H. Yardley. June Graduate.

**Rochelle Alyce Olson, Bemidji**

B.A. '70, College of St. Catherine; M.A. '76, College of St. Thomas. Major: Nursing. Minor: Related Fields. Thesis: Self-Esteem and Sex-Role Identity in Female Undergraduate R.N. Students: A Correlational Study. Major Adviser: Prof. V.C. Gordon. August Graduate.

**Raymond K. Omwami, Kenya**

B.S. '80, University of Nairobi; Kand. '83, University of Helsinki. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. H.M. Gregersen. Graduation Pending.

**Monica May Overkamp**

B.S. '78, College of St. Teresa. Major: Public Health. Minor: Epidemiology. Major Adviser: Prof. M.S. White. Graduation Pending.

**Chung Hi Paik, Seoul, Korea**

B.Comp.S. '82, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. Graduation Pending.

**Bruce D. Patterson, Murdo, S.D.**

B.S. '71, South Dakota State University. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. R.M. Giese. July Graduate.

**Steven Ernest Paulson, Eagan**

B.S. cum laude '82, Northern Illinois University. Major: Geology. Minor: Related Fields. Thesis: Experimental Basalt-Solution Interaction at Elevated Temperatures and Pressures: Chemistry and Mineralogy of Alteration Phases and Application to the Geothermal System. Major Adviser: Prof. W.E. Seyfried, Jr. Graduation Pending.

**David William Pedicord, Oklahoma City, Okla.**

B.S. cum laude '69, Wichita State University; D.D.S. '72, University of Missouri. Major: Dentistry. Minor: Related Fields. Thesis: Endosonic Versus Hand Instrumentation: Their Effects on the Final Canal Shape and Instrumentation Time. Major Adviser: Prof. M.E. Eldeeb. June Graduate.

**John Michael Penko**

B.S. summa cum laude '77, State University of New York at Buffalo. Major: Ecology. Minor: Related Fields. Thesis: Ecological Studies of Typha in Minnesota: Typha-Insect Interactions, and the Productivity of Floating Stands. Major Adviser: Prof. Eville Gorham. September Graduate.

**Dean Edward Peterson**

B.S. '67, University of Minnesota. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Related Fields. Major Adviser: Prof. E.A. Usenik. Graduation Pending.

**Karen Elizabeth Peterson, Eagan**

B.S. cum laude '81, University of Wisconsin, Eau Claire. Major: Biometry and Health Information Systems. Minor: Related Fields. Major Adviser: Prof. S.S. Rich. Graduation Pending.

**Christopher John Piazza, Johnstown, N.Y.**

B.S. with honors '83, Northeastern University. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. C.E. Daniels. August Graduate.

**Patrick Francois Rabau, Brussels, Belgium**

Lic. '81, Universite Catholique de Louvain. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. C.E. Kenig. August Graduate.

**Joan Helen Rambeck**

B.A. '77, College of St. Catherine. Major: Public Health. Minor: Related Fields. Major Adviser: Prof. E.C. Pflug. June Graduate.

**John Frederick Reed**

B.S. '82, Cornell University. Major: Metallurgy and Materials Science. Minor: Related Fields. Thesis: Polymerization of Conducting Carbazole Compounds in Liquid Iodine. Major Adviser: Prof. S.T. Wellinghoff. June Graduate.

**Susan Camilla Reiersgard, Minneapolis**

B.A. magna cum laude '84, University of Minnesota. Major: Biometry and Health Information Systems. Minor: Related Fields. Major Adviser: Prof. S.M. Finkelstein. Graduation Pending.

**Pamela Mary Reilly, Minneapolis**

B.A. '79, College of St. Catherine. Major: Microbiology. Minor: Related Fields. Thesis: A Protoplast Regeneration System for Use in Genetic Studies of Clostridium acetobutylicum. Major Adviser: Prof. Palmer Rogers. Graduation Pending.

**Kathleen Marion Renfroe, Poplar Bluff, Mo.**

B.S. '74, Southern Illinois University. Major: Nursing. Minor: Related Fields. Thesis: Effect of Progressive Relaxation on Dyspnea and State Anxiety in Patients With Chronic Obstructive Lung Disease (COPD). Major Adviser: Prof. Mariah Snyder. Graduation Pending.

**William Forrester Rice, Minneapolis**

B.S. '73, University of Minnesota. Major: Geology. Minor: Related Fields. Thesis: The Systematics and Biostratigraphy of the Brachiopoda of the Decorah Shale at St. Paul, Minnesota. Major Adviser: Prof. R.E. Sloan. July Graduate.

**Michele Marie Ritter**

B.A. cum laude '82, Gustavus Adolphus College. Major: Statistics. Minor: Biometry and Health Information Systems. Major Adviser: Prof. F.K. Larnitz. June Graduate.

**Mark Thomas Rivard**

B.S. with high honor '83, Michigan State University. Major: Mathematics. Minor: Statistics. Major Adviser: Prof. J.R. Baxter. June Graduate.

**Donald Orville Rosenberry, Walker**

B.S. magna cum laude '81, Bemidji State University. Major: Geology. Minor: Civil Engineering. Thesis: Factors Contributing to the Formation of Transient Water-Table Mounds on the Outflow Side of a Seepage Lake, Williams Lake, Central Minnesota. Major Adviser: Prof. H.O. Pfannkuch. June Graduate.

**Renee Jan Roy, Shoreview**

B.S. Life S. '78, Massachusetts Institute of Technology. Major: Food Science. Minor: Related Fields. Thesis: Thermal Inactivation of *Clostridium Perfringens* After Growth at Several Constant and Linearly Rising Temperatures. Major Adviser: Prof. F.F. Busta. September Graduate.

**Joel D. Rudney, Cincinnati, Ohio**

B.A. cum laude '74, University of Cincinnati; M.A. '75, Ph.D. '80, University of Colorado. Major: Oral Biology. Minor: Epidemiology. Thesis: Patterns of Intrapopulation Variation in Salivary Antibacterial Defense Systems. Major Adviser: Prof. Q.T. Smith. August Graduate.

**Delores Mae Ryan, White Bear Lake**

B.S. Pharm. cum laude '78, Drake University. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. C.E. Daniels. July Graduate.

**Bahram Saghari**

B.A. '81, University of Minnesota. Major: Computer and Information Sciences. Minor: Business Administration. Major Adviser: Prof. S.C. Bruell. July Graduate.

**Nazifa Sajady, Fridley**

B.A. '81, University of Minnesota. Major: Physiology. Minor: Biochemistry. Thesis: Determination of the Reflection Coefficient, Permeability Coefficient and Elastic Coefficient in Rabbit Heart Capillaries Using Renograffin-76. Major Adviser: Prof. J.A. Johnson. October Graduate.

**Ahmed Ali Salem**

B.S. '78, Alfateh University. Major: Food Science. Minor: Related Fields. Major Adviser: Prof. T.P. Labuza. Graduation Pending.

**Salvador Alfonso Sanchez de la Pena**

M.D. '73, Universidad Nacional Autonoma de Mexico. Major: Laboratory Medicine. Minor: Related Fields. Thesis: About-7-Day (Circaseptan) Interactions With Circadian Rythms in Vivo and in Vitro. Major Adviser: Prof. Franz Halberg. Graduation Pending.

**Pamela Joy Schaefer, Fargo, N.D.**

B.A. '74, Jamestown College. Major: Nursing. Minor: Related Fields. Thesis: Individual Perceptions as a Basis for a Health Promotion Needs Assessment. Major Adviser: Prof. Mariah Snyder. July Graduate.

**Martha Elvira Schmitz, Fort Atkinson, Iowa**

B.A. cum laude '78, Luther College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.S. Sodergren. Graduation Pending.

**Frances Lynn Schurter, Plover, Wis.**

B.A. '76, Sangamon State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.R. Edwardson. October Graduate.

**James Paul Schuster, St. Paul**

B.A. '81, Hamline University. Major: Botany. Minor: Related Fields. Thesis: The Lichens of Pine County, Minnesota. Major Adviser: Prof. C.M. Wetmore. June Graduate.

**Mark William Schwartz, Minneapolis**

B.A. cum laude '80, College of St. Thomas. Major: Ecology. Minor: Botany. Thesis: Refining Regression Techniques and Data Collection Methods to Improve Estimates of the Pollen/Tree Relationship. Major Adviser: Prof. M.B. Davis. Graduation Pending.

**John Karl Seaberg, Baraboo, Wis.**

B.S. '80, University of Wisconsin, Madison. Major: Geology. Minor: Civil Engineering. Thesis: Geohydrologic Interpretation of Glacial Geology Near Williams Lake, Central Minnesota, With Emphasis on Lake-Groundwater Interaction. Major Adviser: Prof. H.O. Pfannkuch. June Graduate.



**Awa Faye Seck, Senegal**

Dipl. '81, Institut Agronomique et Veterinaire Hassan II. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. Villis Kurmis. August Graduate.

**Moussa Seck**

Dipl. '81, Institut Agronomique et Veterinaire Hassan II. Major: Plant Pathology. Minor: Related Fields. Thesis: Modeling the Effect of Leaf Rust (*Puccinia recondita tritici*) on Wheat Yield, as Affected by Leaf Position and Host Resistance. Major Adviser: Prof. P.S. Teng. October Graduate.

**Hassan A. Selim**

B.D.S. '73, University of Cairo. Major: Dentistry. Minor: Related Fields. Thesis: Blood Loss During Endodontic Surgery. Major Adviser: Prof. H.H. Messer. September Graduate.

**Celia Beckman Shapland, Shoreview**

B.A. '79, Stephens College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Patricia Crisham. Graduation Pending.

**Scott Roy Sherman, Austin**

B.A. '78, Hamline University. Major: Biophysical Sciences. Minor: Related Fields. Major Adviser: Prof. R.L. Morin. August Graduate.

**Kaye Celeste K. Shriver, Stillwater**

B.S.N. *summa cum laude* '67, Jamestown College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Jean Kintgen-Andrews. July Graduate.

**Sarah Siddiqi, Karachi, Pakistan**

M.S. '78, University of Karachi. Major: Physics. Minor: Related Fields. Thesis: Characterization of Liquid Crystal Components With Chiral Smectic C Phase. Major Adviser: Prof. C.C. Huang. Graduation Pending.

**Elizabeth Anne Sidwell, Salem, Ohio**

B.A. '69, Ohio State University. Major: Laboratory Medicine. Minor: Biochemistry. Thesis: Analysis of Gamma-Ray-Induced HLA Class I Loss Mutants at the RNA Level Using an HLA-A Locus Specific Probe. Major Adviser: Prof. H.T. Orr. Graduation Pending.

**Ellen Marie Simon, Superior, Wis.**

B.S. '80, College of St. Francis. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Mariah Snyder. July Graduate.

**Scott Steven Sindelar, Bloomington**

B.A. *cum laude* '79, St. Olaf College. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. H.M. Gregersen. October Graduate.

**Bonnie Ketchum Smola, Monona,**

**Iowa**

B.S.N. '76, University of Kansas; M.S.Ed. '73, Old Dominion University. Major: Nursing. Minor: Related Fields. Thesis: Derivation of a Self Assessment Scale from a Previous Study of Leadership Characteristics of Baccalaureate Nursing Students. Major Adviser: Prof. Jean Kintgen-Andrews. Graduation Pending.

**Brad Allen Sockness, St. Paul**

B.S. with distinction '84, University of Minnesota. Major: Plant Breeding. Minor: Plant Physiology. Thesis: Red Endosperm in Alfalfa: Its Inheritance and Effect on Color, Size, and Viability of Seed. Major Adviser: Prof. D.K. Barnes. July Graduate.

**John Michael Spielmann, Maple Lake**

B.S. '82, University of Minnesota, Duluth. Major: Physiology. Minor: Related Fields. Thesis: Morphological Observations of Motor Units Connected In-Series to Golgi Tendon Organs. Major Adviser: Prof. E.K. Stauffer. July Graduate.

**Karyn Joy Steere, Brooklyn Center**

B.S. '82, University of Minnesota. Major: Genetics. Minor: Biochemistry. Thesis: Characterization of the HLA-B Locus with Restriction Fragment Length Polymorphisms Specific for the HLA-B Gene. Major Adviser: Prof. P.B. Hackett. Graduation Pending.

**Mary Alice Stein, Minneapolis**

B.S. '74, College of St. Benedict. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.A. Corcoran. July Graduate.

**Lynn Marie Steiner, Stillwater**

B.S. '80, University of Wisconsin, Madison. Major: Horticulture. Minor: Related Fields. Major Adviser: Prof. J.P. McKinnon. September Graduate.

**Elizabeth Ann Stenglein, Minneapolis**

B.S.N. with distinction '76, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.G. Corcoran. Graduation Pending.

**David Eric Stoltenberg, Waseca**

B.S. '80, University of Minnesota. Major: Agronomy. Minor: Related Fields. Thesis: Regrowth of Quackgrass (*Agropyron repens*) Following Postemergence Applications of Haloxypol and Sethoxydim. Major Adviser: Prof. D.L. Wyse. September Graduate.

- Donna Ketchum Story, West Union, Iowa**  
 B.S. '63, Upper Iowa University; M.A.Ed. '72, University of Northern Iowa; Ph.D. '80, Iowa State University of Science and Technology. Major: Nursing. Minor: Related Fields. Thesis: Derivation of Psychometric Data for an Adaptation of an Existing Instrument for the Measurement of Attitudes of Nursing Students Toward Nursing Care Planning. Major Adviser: Prof. Jean Kintgen-Andrews. June Graduate.
- Michael Stanley Strayer, St. Paul**  
 D.D.S. '76, Ohio State University. Major: Dentistry. Minor: Related Fields. Thesis: Dentists' Stereotyped Knowledge of the Elderly in Relationship to Perceived Problems in Patient Management. Major Adviser: Prof. A.J. DiAngelis. Graduation Pending.
- Barbara Jo Streifel, St. Paul**  
 B.S. cum laude '74, University of South Dakota. Major: Laboratory Medicine. Minor: Pathobiology. Thesis: Sister Chromatid Exchange Analysis of Patients With Epilepsy: A Study of the Possible Mutagenic Effects of Anticonvulsant Therapy. Major Adviser: Prof. D.C. Arthur. August Graduate.
- Glenn Kenneth Strid, Richfield**  
 B.A. '79, St. Olaf College. Major: Family Planning Administration. Minor: Related Fields. Major Adviser: Prof. Harry Foreman. July Graduate.
- Terry Franklin Strong, Rhineland, Wis.**  
 B.S. '72, University of Minnesota. Major: Forestry. Minor: Soil Science. Thesis: Site-Biomass Relationships of Selected Jack Pine Seed Sources. Major Adviser: Prof. D.F. Grigal. Graduation Pending.
- Kyung-Won Suh, Korea**  
 B.S. '83, Yonsei University. Major: Astronomy. Minor: Related Fields. Major Adviser: Prof. Lawrence Rudnick. Graduation Pending.
- Chongmi Kim Suk, Seoul, Korea**  
 B.S. '80, Yonsei University. Major: Geophysics. Minor: Related Fields. Major Adviser: Prof. H.M. Mooney. July Graduate.
- Dongwoo Suk, Seoul, Korea**  
 B.S. '80, Yonsei University. Major: Geophysics. Minor: Related Fields. Major Adviser: Prof. S.K. Banerjee. August Graduate.
- James Michael Sultz, Minneapolis**  
 B.A. '77, University of Minnesota. Major: Physiological Hygiene. Minor: Related Fields. Thesis: A Cardiovascular Health Curriculum for High School Students. Major Adviser: Prof. M.B. Mittelmark. Graduation Pending.
- Chi-Ping Sze, Hong Kong**  
 B.Comp.S. with distinction '83, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.A. Larson. September Graduate.
- Teh-Yi Tao, Republic of China**  
 B.S.Agr. '82, National Taiwan University. Major: Biochemistry. Minor: Related Fields. Thesis: Hormonal and Nutritional Regulation of Rat Hepatic Gene Expression. Major Adviser: Prof. H.C. Towle. September Graduate.
- Petros Savvas Taoukis, Athens, Greece**  
 Dipl. '83, National Technical University, Athens. Major: Food Science. Minor: Related Fields. Thesis: Isotherm Micration Method Applied to Microwave Thawing of Food Systems. Major Adviser: Prof. E.A. Davis. June Graduate.
- Jeffrey L. Tate, Lauderdale**  
 B.S. '80, University of Minnesota. Major: Plant Pathology. Minor: Related Fields. Thesis: The Interaction Between Plant Disease and the Internal Biological Rythms of Glycine Maxmerr. Major Adviser: Prof. B.W. Kennedy. Graduation Pending.
- Erica Mary TenBroek, Minneapolis**  
 B.A. summacum laude '81, St. Olaf College. Major: Nutrition. Minor: Pathobiology. Thesis: The Effects of Chronic Calorie Restriction on Carnitine Concentration and Carnitine Palmitoyl Transferase Activity in the Aging Rat. Major Adviser: Prof. P.B. Swan. Graduation Pending.
- Mahalakshmi Thiruvankadam, Kerala, India**  
 Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. July Graduate.
- Gregory Joseph Traxler, Le Center**  
 B.B.A. '77, University of Portland. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: The Contribution of World Bank Assistance to Agricultural and Rural Development in Pakistan. Major Adviser: Prof. V.W. Ruttan. Graduation Pending.
- Lee Ross Tunglund, Devils Lake, N. D.**  
 B.S. '83, North Dakota State University. Major: Plant Breeding. Minor: Related Fields. Thesis: Erect Leaf Angle and Yield in Spring Barley. Major Adviser: Prof. D.C. Rasmusson. September Graduate.
- Estrella Bugarin Urbi**  
 B.S.N. '57, University of Santo Tomas. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. Graduation Pending.
- Rosalie Anne Utley, St. Paul**  
 B.S.N. '81, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. A.M. Sime. August Graduate.

**Jose Luis Valdes, Spain**

Lic. '81, Universidad Autonoma de Madrid. Major: Soil Science. Minor: Related Fields. Thesis: Effect of Composted Sludge on Corn Yield and the Carbon-Nitrogen Cycle. Major Adviser: Prof. J.A. Molina. Graduation Pending.

**Katherine Van Cleve, Fairbanks,  
Alaska**

B.S. '84, Oregon State University. Major: Agronomy. Minor: Related Fields. Thesis: The Effect of Light on Cotyledon Cell Number and Seed Growth in Soybean. Major Adviser: Prof. W.A. Brun. July Graduate.

**Patricia Ann Walter, Rosemount**

B.A. cum laude '71, University of Massachusetts; Cand. Med. Vet. '79, Royal Veterinary and Agricultural University, Denmark. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Related Fields. Thesis: Ultrasonography of the Normal Feline Kidney. Major Adviser: Prof. G.R. Johnston. August Graduate.

**Mark Jeffrey Weber, Hibbing**

B.S. '80, University of Minnesota. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. Vilis Kurmis. July Graduate.

**Pamela Nagaji White, Honolulu,  
Hawaii**

B.A. '82, Carleton College. Major: Medical Microbiology. Minor: Related Fields. Major Adviser: Prof. J.T. Prince. June Graduate.

**Dawn Renee Fluharty Willey, St. Paul**

B.S. with distinction '75, University of Minnesota, Duluth. Major: Nutrition. Minor: Related Fields. Major Adviser: Prof. J.L. Slavin. July Graduate.

**John Ermin Windschill, Monticello**

B.A. '75, St. John's University. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. D.E. Barber. June Graduate.

**Sanford Allen Wolgel, Chicago, Ill.**

B.A. '78, Evergreen State College. Major: Biochemistry. Minor: Chemistry. Thesis: Purification and Properties of Protocatechuate 2,3 Dioxygenase from *Bacillus Macerans*. Major Adviser: Prof. J.D. Lipscomb. Graduation Pending.

**Young-Tu Won, Seoul, Korea**

B.S. '81, Korea Military Academy. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. Graduation Pending.

**Janice Lee Workman, St. Paul**

B.S. '76, Winona State College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. July Graduate.

**Rita Yang Wu**

B.S. Agr. '77, National Taiwan University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. July Graduate.

**Xianpin Zhang, People's Republic of  
China**

Dipl. '82, Agricultural University of Zhejiang-Ningbo. Major: Agronomy. Minor: Related Fields. Thesis: Distribution of Nitrate and Reduced Nitrogen During the Grain Filling Period in Spring Wheat. Major Adviser: Prof. S.R. Simmons. July Graduate.

**Barbara Jean Zylema, Grand Rapids,  
Mich.**

B.S. with honor '82, Michigan State University. Major: Food Science. Minor: Related Fields. Thesis: Effects of Microwave Irradiation on Wheat Starch-Water Systems. Major Adviser: Prof. Joan Gordon. September Graduate.

## Master of Science

### UNIVERSITY OF MINNESOTA, DULUTH

**Henry Francis Corcoran**

B.S. '83, Worcester State College. Major: Chemistry. Minor: Related Fields. Thesis: Investigation of P-N,N, Dimethyl Aminophenyl-isothiocyanate as Post Column Label for HPLC Analysis of Amino Acids Using Electrochemical Detection. Major Adviser: Prof. Donald Poe. Graduation Pending.

**Donna Mae Gadbois, Scotland, S.D.**

B.S. '83, University of South Dakota. Major: Chemistry. Minor: Related Fields. Thesis: Isolation and Translation of mRNA From the Hagfish, *Eptatretus stouti*, Slime Gland. Major Adviser: Prof. W. L. Saylor. Graduation Pending.

**James Kenneth Huber, Albia, Iowa**

B.A. '79, B.S. '80, University of Iowa. Major: Geology. Minor: Biology. Thesis: A Late Holocene Vegetational Sequence from the Southeast Missouri Ozarks. Major Adviser: Prof. George Rapp, Jr. Graduation Pending.

**Joseph John Korte, Duluth**

B.S. '82, B.A. '82, University of Minnesota, Duluth. Major: Chemistry. Minor: Related Fields. Thesis: Effect of Copper Deficiency on Protein and Lipid Composition of Murine Pymphocyte Plasma Membranes. Major Adviser: Prof. J. R. Prohaska. Graduation Pending.

**Scott Nelson Neumann**

B.S. '78, University of Wisconsin, Madison. Major: Geology. Minor: Related Fields. Thesis: Lower and Middle Precambrian Geology of the Denham Area, Northern Pine County, East Central Minnesota. Major Adviser: Prof. R.W. Ojakangas. September Graduate.

**David John Ongaro, Hibbing**

B.S. '81, University of Minnesota. Major: Biology. Minor: Related Fields. Major Adviser: Prof. G.E. Ahlgren. September Graduate.

**Steven Arvid Osterberg, Aurora, Wis.**

B.S. magna cum laude '82, University of Wisconsin, Oshkosh. Major: Geology. Minor: Related Fields. Thesis: Stratigraphy and Hydrothermal Alteration of Archean Volcanic Rocks at the Headway-Coulee Massive Sulfide Prospect, Northern Onaman Lake Area, Northwestern Ontario. Major Adviser: Prof. R.L. Morton. October Graduate.

**Timoth Joseph Perala, Duluth**

B.S. '84, University of Minnesota. Major: Physics. Minor: Related Fields. Major Adviser: Prof. B. R. Casserberg. Graduation Pending.

**Nancy Rusinko, Hindsdale, Ill.**

B.A. '80, Northwestern University. Major: Biology. Minor: Chemistry. Thesis: The Effects of Copper Deficiency on Energy Metabolism. Major Adviser: Prof. J.R. Prohaska. June Graduate.

**Ingrid Joyce Verhagen, Zeeland, Mich.**

B.S. '82, Grand Valley State Colleges. Major: Geology. Minor: Chemistry. Thesis: Hydrothermal Alteration and Metamorphism of a Metadiabase Sill, Lake Michigan, Northern Michigan. Major Adviser: Prof. J.A. Grant. June Graduate.

### **Master of Science in Aerospace Engineering**

**Sampath Pavithran, Madras, India**

B.Tech. '83, Indian Institute of Technology. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Prof. T.S. Lundgren. June Graduate.

**Jayne Ellen Yerka, Oxbridge, Mass.**

B.S. '82, University of Massachusetts. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Prof. B.S. Liebst. August Graduate.

### **Master of Science in Agricultural Engineering**

**Paul Bradley Diers, Howard Lake**

B.Agr. E. '83, University of Minnesota. Major: Agricultural Engineering. Minor: Mechanical Engineering. Major Adviser: Prof. D.R. Thompson. July Graduate.

**Rimfiel Bin Janius, Selangor, Malaysia**

B.E. '82, Universiti Pertanian Malaysia. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Ethanol Fumigation of a Compression-Ignition Engine Using Advanced Injection of Diesel Fuel. Major Adviser: Prof. Johnathan Chaplin. Graduation Pending.

**Hongming Jiang, Guangdong Province, China**

B.E. '82, South China Agricultural College. Major: Agricultural Engineering. Minor: Related Fields. Thesis: A Numerical Simulation of Precooling of Fresh Market Broccoli. Major Adviser: Prof. D.R. Thompson. August Graduate.

**Nitin Ashok Phadke, Maharashtra State, India**

B.Tech. '83, Mahatma Phule Agricultural University. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Water, Microwave and Vacuum Blanching of Green Peas. Major Adviser: Prof. D.R. Thompson. August Graduate.

**Kitti Wichettapong, Khonkaen, Thailand**

B.E. with honors '77, Khon Kaen University. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Effects of Combine Cylinder Speed and Concave Setting on Spike Tooth Cylinder Performance in Wild Rice Harvest. Major Advisers: Profs. C.E. Schertz and J.J. Boedicker. August Graduate.

## Master of Science in Chemical Engineering

### Gerald Peter Andrews, Duluth

B.A. '81, University of Minnesota, Duluth. Major: Chemical Engineering. Minor: Related Fields. Thesis: The Effect of Crosslinking on Extractions Using Polyacrylamide Gels. Major Adviser: Prof. E.L. Cussler. June Graduate.

### Nancy Ann D'Elia, San Mateo, Calif.

B.S. with honors '80, University of California, Davis. Major: Chemical Engineering. Minor: Related Fields. Thesis: Liquid-Liquid Extraction in Hollow Fiber Modules. Major Adviser: Prof. E.L. Cussler. August Graduate.

### Timothy Charles Dodge, Jackson, Mich.

B.S.E. summa cum laude '83, University of Michigan. Major: Chemical Engineering. Minor: Related Fields. Thesis: The Kinetics of Hybridoma Cell Growth and Monoclonal Antibody Production in Batch Suspension Culture. Major Adviser: Prof. W.S. Hu. June Graduate.

### Devesh Kapur, Calcutta, India

B.Tech. '83, Banaras Hindu University. Major: Chemical Engineering. Minor: Related Fields. Thesis: Metal Organic Chemical Vapor Deposition (MOCVD) of Gallium Arsenide. Major Adviser: Prof. K.F. Jensen. October Graduate.

### Joel Raphael Racchini, Shorewood, Ill.

B.S.Ch.E. cum laude '83, University of Illinois, Urbana. Major: Chemical Engineering. Minor: Related Fields. Thesis: Synthesis, Characterization, and Physical Property Studies of Electrically Conductive Complexes of Poly(3,9-Carbazoly) and Poly(3,6-Carbazoly). Major Adviser: Prof. S.T. Wellinghoff. June Graduate.

### Jhy-Jer Shieh

B.S. '79, National Chung-Hsing University. Major: Chemical Engineering. Minor: Related Fields. Thesis: Dynamic Sensitivity Analysis of Chemical Reaction Kinetics. Major Adviser: Prof. R.W. Carr. June Graduate.

## Master of Science in Civil Engineering

### Craig Jeffrey Baldrige

B.Aero.E. '69, B.C.E. '78, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Thesis: Distribution of Lateral Forces in Loadbearing Masonry Systems. Major Adviser: Prof. Ladislav Cerny. September Graduate.

### Yohchia Chen, Taiwan

B.S. '79, National Cheng Kung University. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. Theodor Krauthammer. June Graduate.

### Ekaterini Ioannis Daniil-Margariti, Athens, Greece

Dipl. '83, National Technical University of Athens. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. J.S. Culliver. September Graduate.

### Alan Thomas Forsberg, Wabasha

B.C.E. with high distinction '70, B.S. '72, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Thesis: Development and Evaluation of Barge Fleeting Strategies. Major Adviser: Prof. M.J. Huber. Graduation Pending.

### Marcelo Horacio Garcia, Santa Fe, Argentina

Ing. '82, Universidad Nacional del Litoral. Major: Civil Engineering. Minor: Related Fields. Thesis: Experimental Study of Turbidity Currents. Major Adviser: Prof. Gary Parker. October Graduate.

### John Hillmen Holler, Drayton, N.D.

B.S. '76, United States Military Academy. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. Andrzej Drescher. June Graduate.

### Helgi Johannesson, Reykjavik, Iceland

B.S.E. '83, University of Iceland. Major: Civil Engineering. Minor: Related Fields. Thesis: Computer Simulated Migration of Meandering Rivers. Major Adviser: Prof. Gary Parker. October Graduate.

### Nacem Qureshi, Lahore, Pakistan

B.S.E. '67, West Pakistan University of Engineering and Technology. Major: Civil Engineering. Minor: Related Fields. Thesis: The Effect of Backwash Water Temperature on Filter Performance. Major Adviser: Prof. W.J. Maier. June Graduate.

### Likourgos Stamatelatos, Patras City, Greece

Dipl. '83, University of Patras. Major: Civil Engineering. Minor: Related Fields. Thesis: On Line Prediction of Freeway Entrance Ramp Demands. Major Adviser: Prof. Panos Michalopoulos. September Graduate.

### Terry Ross Zien, St. Paul

B.S.Geol. '83, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. C.E. Bowers. Graduation Pending.

**Master of Science in Dentistry**  
MAYO GRADUATE SCHOOL OF MEDICINE

**Thomas Patrick Rose**  
B.A. '71, California State College at Fullerton;  
D.D.S. '76, Creighton University. Major: Den-  
tistry. Minor: Biometry. Thesis: The Relationship  
of Bonding Base Size of Directly Bonded Orthodon-  
tic Brackets to Bond Strength and to Bending Prop-  
erties of Orthodontic Wires. Major Advisers: Profs.  
A.H. Sather and E.Y. Chao. August Graduate.

**Master of Science in Electrical Engineering**

**Robert Duanne Ahmann, Rochester**  
B.S. '77, North Dakota State University. Major:  
Electrical Engineering. Minor: Related Fields.  
Major Adviser: Prof. L.L. Kinney. Graduation  
Pending.

**Fakhreddine Ayachi, Gabes, Tunisia**  
Dipl. '83, Ecole Nationale Supérieure de  
l'Enseignement de Tunis. Major: Electrical Engi-  
neering. Minor: Related Fields. Major Adviser:  
Prof. L.L. Kinney. September Graduate.

**Randy Paul Bass**  
B.S.E.E. '77, Iowa State University. Major: Elec-  
trical Engineering. Minor: Related Fields. Major  
Adviser: Prof. L.L. Kinney. September Graduate.

**Dimitrios Dokos**  
B.E.E. with distinction '72, University of Minne-  
sota. Major: Electrical Engineering. Minor: Re-  
lated Fields. Thesis: Theoretical and Experimental  
Verification of Spice Mos Level 3 Model for Submi-  
cron Mos Devices. Major Adviser: Prof. Allen  
Nussbaum. September Graduate.

**Mohammad Reza Fareghzadeh,  
Tehran, Iran**  
B.S.E.E. '81, Purdue University. Major: Electrical  
Engineering. Minor: Computer and Information  
Sciences. Major Adviser: Prof. L.L. Kinney. July  
Graduate.

**Per Nils Forssell, Minneapolis**  
Dipl. '83, Helsinki University of Technology.  
Major: Electrical Engineering. Minor: Computer  
and Information Sciences. Thesis: Interconnection  
Networks for Wafer Scale Integration. Major Ad-  
viser: Prof. R.Y. Kain. October Graduate.

**Guoxiang Gu, People's Republic of  
China**  
Dipl. '82, East China Institute of Textile Science  
and Technology. Major: Electrical Engineering.  
Minor: Related Fields. Major Adviser: Prof. F.N.  
Bailey. September Graduate.

**Richard Eugene Hester, Eden Prairie**  
B.E.E. with distinction '76, University of Minne-  
sota. Major: Electrical Engineering. Minor: Re-  
lated Fields. Major Adviser: Prof. A.A. Tuszynski.  
June Graduate.

**Richard Chen Hua Hu, Bloomington**  
B.E.E. '83, University of Minnesota. Major: Elec-  
trical Engineering. Minor: Related Fields. Major  
Adviser: Prof. B.A. Shenoi. Graduation Pending.

**Terrance Rudolph Hudrlik**  
B.E.E. '75, University of Minnesota. Major: Elec-  
trical Engineering. Minor: Related Fields. Thesis:  
Matrix Analysis of Small Signal BJT Differential,  
Amplifier Performance. Major Adviser: Prof. A.A.  
Tuszynski. September Graduate.

**Igor Kammer, St. Paul**  
B.E.E. '83, University of Minnesota. Major: Elec-  
trical Engineering. Minor: Related Fields. Major  
Adviser: Prof. E.B. Lee. July Graduate.

**Sue Woon Kim, Korea**  
B.S.E. '74, M.S. '79, Seoul National University.  
Major: Electrical Engineering. Minor: Related  
Fields. Thesis: Design of the AC Permanent Mag-  
net Machine. Major Adviser: Prof. Narendra Mo-  
han. August Graduate.

**Nissim Nasrollah Nassimi, Minneapolis**  
B.E.E. '77, University of Minnesota. Major: Elec-  
trical Engineering. Minor: Related Fields. Thesis:  
Filter Optimization for a 4800 BPS Differential  
QPSK Voiceband Modem Utilizing a Hard Limiter.  
Major Adviser: Prof. Mostafa Kaveh. June Gradu-  
ate.

**Gary Lee Nelson, Apple Valley**  
B.E.E. '76, University of Minnesota. Major: Elec-  
trical Engineering. Minor: Related Fields. Thesis:  
Data Coding in Self-Structured Bubble Memories  
Using Orthorhombic Anisotropy Garnets. Major  
Adviser: Prof. S.L. David. Graduation Pending.

**Phong Xuan Nguyen, Excelsior**  
B.E.E. '83, University of Minnesota. Major: Elec-  
trical Engineering. Minor: Related Fields. Thesis:  
Testing Microprocessors. Major Adviser: Prof.  
A.A. Tuszynski. July Graduate.

**Daniel Arvid Olson, St. Paul**  
B.E.E. '83, University of Minnesota. Major: Elec-  
trical Engineering. Minor: Related Fields. Major  
Adviser: Prof. W.P. Robbins. September Gradu-  
ate.

**Phuc Cong Pham**

B.E.E. '84, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. A.A. Tuszynski. Graduation Pending.

**Timothy Joseph Schmerbeck,  
Rochester**

B.E.E. '77, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. L.L. Kinney. June Graduate.

**Matthew Alan Schroeder, Plymouth,  
Mich.**

B.S.M.E. with honor '82, Michigan Technological University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. A.A. Tuszynski. July Graduate.

**Dietrich Richard Schulze, Eagan**

B.A. '83, Cornell University. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. R.Y. Kain. Graduation Pending.

**Chul Gyun Shin**

Eng. '78, Mestre '81, Escola Federal de Engenharia de Itajuba. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. Narendra Mohan. October Graduate.

**Thomas John Skaar, Kenyon**

B.A. magna cum laude '83, St. Olaf College. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. W.P. Robbins. July Graduate.

**Jianjian Song, People's Republic of  
China**

Dipl. '82, Huazhong University of Science and Technology. Major: Electrical Engineering. Minor: Mathematics. Thesis: Analysis of Random Test Vector Generation and Signature Analysis. Major Adviser: Prof. L.L. Kinney. Graduation Pending.

**Benhoor Soumekh, Minneapolis**

B.E.E. with high distinction '83, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Advisers: Profs. R.K. Mueller and W.P. Robbins. September Graduate.

**Jeffrey Edwin Stahmann, Maple Grove**

B.S.E.E. '78, University of Wisconsin, Madison. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. W.P. Robbins. July Graduate.

**Wenyi Su, People's Republic of China**

Dipl. '68, Qinghua University. Major: Electrical Engineering. Minor: Mathematics. Thesis: Long-Spark Heating Through a Metal Plate. Major Adviser: Prof. T.S. Lee. July Graduate.

**Joseph Scott Tesar, Rapid City, S.D.**

B.M.E. '83, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: An Experimental Investigation of the Normal Incidence, Surface Acoustic Admittance of a Finely Fibered Material. Major Adviser: Prof. R.F. Lambert. August Graduate.

**Jon Robert Tetzloff, Minneapolis**

B.A. cum laude '83, St. Olaf College. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. W.P. Robbins. July Graduate.

**Zhijun Tong**

B.E. '82, Zhejiang University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. R.Y. Kain. June Graduate.

**Kevin Dale Vanderwerf, Sleepy Eye**

B.E.E. with distinction '80, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. K.S.P. Kumar. Graduation Pending.

### Master of Science in Geo-Engineering

**Mikko Peter Ahola, Hibbing**

B.Geo-E. '84, University of Minnesota. Major: Geo-Engineering. Minor: Related Fields. Major Adviser: Prof. S.L. Crouch. Graduation Pending.

**William Ellis Holman, Overland Park,  
Kan.**

B.S. '79, University of Illinois. Major: Geo-Engineering. Minor: Related Fields. Major Adviser: Prof. S.L. Crouch. June Graduate.

**James Michael Sellner, Rosemount**

B.M.E. '82, University of Minnesota. Major: Geo-Engineering. Minor: Geophysics. Major Adviser: Prof. D.H. Yardley. July Graduate.

**James Allen Watson, Detroit Lakes**

B.S. '79, University of Minnesota. Major: Geo-Engineering. Minor: Related Fields. Major Adviser: Prof. S.L. Crouch. Graduation Pending.

**Ying Zhang, People's Republic of  
China**

B.S. '82, Northeast Institute of Technology. Major: Geo-Engineering. Minor: Related Fields. Thesis: Approximate Analysis of Bearing Capacity of Prismatic Rock Pillars. Major Adviser: Prof. A.J. Drescher. September Graduate.

## Master of Science in Industrial Engineering

Maria Dolores Geronimo, Minneapolis  
B.A. '75, University of Toledo. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Prof. T.O. Kralseth. Graduation Pending.

## Master of Science in Mechanical Engineering

Scott Anthony Fruin, Minneapolis

B.M.E. with high distinction '83, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Experimental Studies of Unipolar Diffusion Charging of Ultrafine Aerosols. Major Adviser: Prof. P.H. McMurry. September Graduate.

Michael Thomas Harber, Fort Wayne, Ind.

B.S.M.E. with highest distinction '79, Purdue University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Computer-Aided Synthesis of Four Bar Linkages for Three Prescribed Positions. Major Adviser: Prof. A.G. Erdman. Graduation Pending.

Alan Robert Hauser, New Ulm

B.A. magna cum laude '82, St. John's University. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Prof. D.B. Kittelson. September Graduate.

David Harold Hultgren, St. Paul

B.M.E. with distinction '69, University of Minnesota. Major: Mechanical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. D.R. Riley. Graduation Pending.

Todd Arthur Kappauf, Rochester

B.M.E. '80, University of Minnesota. Major: Mechanical Engineering. Minor: Chemical Engineering. Thesis: Rate of Weight Loss of Iridium in H<sub>2</sub>-H<sub>2</sub>O Atmospheres at High Temperatures. Major Adviser: Prof. E.A. Fletcher. Graduation Pending.

Mirng-Ji Lii

B.S.E. '80, National Taiwan University. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Prof. J.D. Lee. June Graduate.

Michael James McDonald, Minneapolis

B.M.E. '83, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Constraint Based Design of Mechanical Systems. Major Adviser: Prof. K.A. Stelson. October Graduate.

Dean Leroy Misterek, Lakewood, Colo.

B.S.M.E. with special honors '83, University of Colorado. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Heat and Mass Transfer from the Bottom Surface of a Recessed Cavity. Major Adviser: Prof. E.M. Sparrow. July Graduate.

William Arthur Mittelstadt, Minneapolis

B.A.E.M. '82, University of Minnesota. Major: Mechanical Engineering. Minor: Aerospace Engineering. Thesis: Integrated Mechanism Design. Major Adviser: Prof. D.R. Riley. Graduation Pending.

Hakan Lutfu Polatoglu, Istanbul, Turkey

B.S.M.E. '83, Bogazici University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Methodizing Single Spherical Particle Impact Experiments for Ductile Erosion Studies. Major Adviser: Prof. Subbiah Ramalingam. Graduation Pending.

S.M. Reza Sadjadi, Iran

B.M.E. '83 with distinction, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Prof. B.Y. Liu. July Graduate.

Ting Shi

Dipl. '82, Fuxin College of Mining. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Prof. Subbia Ramalingam. June Graduate.

Sean Dillon Smith, Roseville

B.M.E. '80, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: A High Altitude Inertial Impactor: A Problem in Particle Dynamics and Control. Major Advisers: Profs. K.A. Stelson and J.C. Wilson. July Graduate.

Randall Walter Smith-Kent, Willmar

B.A.E.M. '82, University of Minnesota. Major: Mechanical Engineering. Minor: Chemical Engineering. Thesis: Chemical Composition of the Gases from a Fixed-Bed Coal Gasifier. Major Adviser: Prof. D.B. Kittelson. Graduation Pending.

Thomas Richard Thompson, Edina

B.M.E. '81, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: An Interactive Computer Program for the Type Synthesis of Mechanisms. Major Adviser: Prof. D.R. Riley. Graduation Pending.

Jeffrey Harold Vogel, St. Louis Park

B.M.E. '84, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: On Tool Vibration Modeling for Wear Identification. Major Adviser: Prof. K.A. Ramalingam. Graduation Pending.



Gholamreza Vossoughi, Tehran, Iran  
B.M.E. with distinction '82, University of Minnesota. Major: Mechanical Engineering. Minor: Electrical Engineering. Thesis: Robot Hand Stiffness Control in the Presence of Mechanical Nonlinearities. Major Adviser: Prof. Max Donath. Graduation Pending.

Zhixin Xu, People's Republic of China  
B.S. '82, Xi'an Jiaotong University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Impingement of a Circular Jet on a Confined Disk with Annular Collection of the Spent Air. Major Adviser: Prof. E.M. Sparrow. Graduation Pending.

### **Master of Science in Medicine**

MAYO GRADUATE SCHOOL OF MEDICINE

**Robert Stock Schwartz**

B.S. '73, M.S. '75, M.D. '79, Colorado University. Major: Medicine. Minor: Related Fields. Thesis: Description of Post-Infraction Left Ventricular Aneurysms by DSR. Major Adviser: Prof. E.L. Ritman. September Graduate.

### **Master of Science in Orthopedic Surgery**

MAYO GRADUATE SCHOOL OF MEDICINE

**George West Brindley**

B.A. with honor '75, University of Texas, Austin; B.S. '76, Texas A&M University; M.D. '81, University of Texas Medical School at Galveston. Major: Orthopedic Surgery. Minor: Related Fields. Thesis: The Relationship of the Plasma and Skeletal Exchangeable Calcium Ion Pools. Major Adviser: Prof. P.J. Kelly. October Graduate.

**Thomas Edward Kaiser**

B.S. with distinction '71, M.D. '75, University of Minnesota. Major: Orthopedic Surgery. Minor: Related Fields. Thesis: The Detection of Tritiated Thymidine Labeled Cells in the Peripheral Blood of Sarcoma Patients and the Nature of These Cells Bearing Prognostic Significance for Sarcoma Patients. Major Adviser: Prof. D.J. Pritchard. June Graduate.

**Kurt Dwight Merkel, Seattle, Wash.**

B.S. cum laude '74, University of Washington; M.D. '80, St. Louis University School of Medicine. Major: Orthopedic Surgery. Minor: Related Fields. Thesis: Comparison of III Indium-Labeled-Leukocyte and Gallium-67-Citrate Imaging of Reactive Non-Infected Granulation Tissue and Infected Bone in Dogs. Major Adviser: Prof. R.H. Fitzgerald. August Graduate.

**Gregg McLaren Strathy, Edina**

B.A. cum laude '76, St. Olaf College; M.D. '80, Mayo Medical School. Major: Orthopedic Surgery. Minor: Related Fields. Thesis: Effects of Anti-Rheumatoid Drugs on Cartilage Recovery from Catabolin-Induced Degradation. Major Adviser: Prof. P.J. Kelly. August Graduate.

### **Master of Science in Otolaryngology**

**Rene Boothby**

M.D. '78, University of Puerto Rico. Major: Otolaryngology. Minor: Anatomy. Thesis: The Ototoxicity of Locally Applied Chlorhexidine. Major Adviser: Prof. Tetsuo Morizono. June Graduate.

### **Master of Science in Radiology**

MAYO GRADUATE SCHOOL OF MEDICINE

**William Dean Zimmer, Pittsburgh, Pa.,**

B.S.Ch.E. magna cum laude '76, Rice University; M.D. '81, University of Texas Health Science Center at Dallas. Major: Radiology. Minor: Biometry. Thesis: Impact of New Diagnostic Technologies on Medical Costs: The Effects of CT and Ultrasound on Renal Mass Evaluation. Major Adviser: Prof. R.R. Hattery. June Graduate.

## Master of Social Work

Anita Marianne Boucher, Rockville,  
Md.

B.A. with honors '79, Grinnell College. Major: Social Work. Major Adviser: Prof. J.L. Edleson. June Graduate.

Lester Robert Collins

B.A. '73, Macalester College. Major: Social Work. Major Adviser: Prof. Annalee Stewart. June Graduate.

Jan Dropik Dorn, Minneapolis

B.A. '79, Northwestern University. Major: Social Work. Major Adviser: Prof. M.R. Carter. August Graduate.

Steven Craig Forsberg, Sandstone

B.A. '72, University of Minnesota. Major: Social Work. Major Adviser: Prof. M.R. Cohn. June Graduate.

Marsha Jean Gunstad

B.A. '80, University of Minnesota. Major: Social Work. Major Adviser: Prof. J.F. Gilgun. June Graduate.

Walter Jourdain, Red Lake

B.S. '83, Augsburg College. Major: Social Work. Major Adviser: Prof. J.K. Quam. August Graduate.

Lynn Phillips Larkin-Bellin, St. Paul

B.A. '81, St. Olaf College. Major: Social Work. Major Adviser: Prof. J.L. Edleson. July Graduate.

Craig Martin Nakken, Minneapolis

B.A. '79, Metropolitan State University. Major: Social Work. Major Adviser: Prof. L.E. Jones. Graduation Pending.

Beth Joy Nelson, Buffalo

B.A. cum laude '80, St. Cloud State University. Major: Social Work. Major Adviser: Prof. J.K. Quam. July Graduate.

Kathryn Sue Pearson, Marquette,  
Mich.

B.A. '81, St. Olaf College. Major: Social Work. Major Adviser: Prof. C.D. Hollister. Graduation Pending.

Sandra Zidel Swirnoff

B.A. '74, University of Minnesota. Major: Social Work. Major Adviser: Prof. M.R. Cohn. July Graduate.

## Master of Social Work

### UNIVERSITY OF MINNESOTA, DULUTH

Esther Jane Bogda, Cass Lake

B.S. '73, M.S. '74, M.S. '75, M.S. '79. Bemidji State University. Major: Social Work. Major Adviser: Prof. J.M. Kramer. June Graduate.

Jeanette Marilyn Brick, Hudson, Ohio

B.S. '56, University of Minnesota. Major: Social Work. Major Adviser: Prof. D.R. Falk. September Graduate.

Kathleen Vera Cahill, Duluth

B.A. '70, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. R.E. Woehle. June Graduate.

William Boyd Dallos, Duluth

B.A. '81, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. D.R. Falk. June Graduate.

Carolyn Ruth Dimneen, Duluth

B.A. '67, University of Minnesota. Major: Social Work. Major Adviser: Prof. D.R. Falk. June Graduate.

Larthia Renard Dunham, Houston,  
Tex.

B.A. '79, University of Northern Iowa. Major: Social Work. Major Adviser: Prof. D.R. Falk. Graduation Pending.

James Michael Erchul, Gilbert

B.S.D. '80, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. D.R. Falk. Graduation Pending.

Jeanne Phyllis Gillen, Brainerd

B.A. '70, Bemidji State University. Major: Social Work. Major Adviser: Prof. D.R. Falk. Graduation Pending.

Steven J. Goldstein, Salem

B.A. '71, Antioch College. Major: Social Work. Major Adviser: Prof. D.R. Falk. August Graduate.

Jeffrey Holde Jenswold, Madison, Wis.

B.S. '76, University of Wisconsin, Stevens Point. Major: Social Work. Major Adviser: Prof. D.R. Falk. Graduation Pending.

Eugene Floyd Johnson, Superior, Wis.

B.A. '68, Gustavus Adolphus College. Major: Social Work. Major Adviser: Prof. R.E. Woehle. July Graduate.

Linda Kay Johnston, Minneapolis

B.A. '77, Augustana College. Major: Social Work. Major Adviser: Prof. D.R. Falk. June Graduate.

Susan Margaret Jutz

B.A. '75, College of St. Catherine. Major: Social Work. Major Adviser: Prof. W.K. Dodge. October Graduate.

**Nancy Lynn Kalke, Albert Lea**  
B.S.W. '83, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. D.R. Falk. Graduation Pending.

**Bill E. Kays**  
B.S.Dev. '83, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. J.M. Kramer. June Graduate.

**William Gerard Maloney, Duluth**  
B.A. '82, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. D.R. Falk. Graduation Pending.

**Thomas Raymond Martin, Duluth**  
B.S.W. '84, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. R.E. Woehle. August Graduate.

**Edward Earl McGregor, International Falls**  
B.S.W. '82, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. J.M. Kramer. Graduation Pending.

**Patricia Ann Meyer, Moose Lake**  
B.S. cum laude '72, Mankato State College. Major: Social Work. Major Adviser: Prof. R.E. Woehle. July Graduate.

**Shashi Bala Pandey, Minneapolis**  
B.S.D. '80, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. J.M. Kramer. Graduation Pending.

**Connie Josette Saaristo**  
B.S.W. '83, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. J.M. Kramer. June Graduate.

**Alton James Smart, Odanah, Wis.**  
B.S. '79, University of Wisconsin, Milwaukee. Major: Social Work. Major Adviser: Prof. J.M. Kramer. Graduation Pending.

**Carol Marie Steinberg, Tracy**  
B.A. magna cum laude '64, St. Olaf College. Major: Social Work. Major Adviser: Prof. R.S. Pandey. July Graduate.

**Mary Jo Suagee, Adelphi, Md.**  
B.S. '78, University of Maryland. Major: Social Work. Major Adviser: Prof. J.M. Kramer. September Graduate.

**Mark Allen Swenson, Barnesville**  
B.A. '76, Moorhead State University. Major: Social Work. Major Adviser: Prof. R.E. Woehle. August Graduate.

**Karen Arnold Trela, Duluth**  
B.S. '74, College of Arts and Science at Plattsburgh. Major: Social Work. Major Adviser: Prof. R.E. Woehle. Graduation Pending.

**Gale E. Van Engen, Rock Valley, Iowa**  
B.A. '69, Dordt College. Major: Social Work. Major Adviser: Prof. D.R. Falk. October Graduate.

**MarySue Wiedemer, Duluth**  
B.S.Ed. '72, University of Dayton. Major: Social Work. Major Adviser: Prof. D.R. Falk. June Graduate.

### Specialist Certificate in Education

**Barbara Elaine Anderson, Minneapolis**  
B.S. with distinction '66, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. R.T. Lambert. Graduation Pending.

**Vicki Rose Arundel, Minnetonka**  
B.S. '70, M.A. '84, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. G.F. Alkire. June Graduate.

**Suzanne K. Burley, Minneapolis**  
B.A. '80, Gallaudet College. Field: School Psychology. Major Adviser: Prof. R.A. Weinberg. July Graduate.

**Christopher J. Canelake, Virginia**  
B.A.S. cum laude '78, University of Minnesota, Duluth; M.A. '84, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. G.F. Alkire. August Graduate.

**Pamela Joan Chickett**  
B.A. '70, College of St. Catherine; M.E.D. '77, University of Minnesota. Field: Elementary School Administration. Major Adviser: Prof. G.F. Alkire. Graduation Pending.

**Curtis Seward Connaughty, Eden Prairie**  
B.S. '55, Winona State Teachers College. Field: General Educational Administration. Major Adviser: Prof. N.C. Nickerson. June Graduate.

**Mary Ann Harvey Hanna, Moorhead**  
B.A. magna cum laude '69, M.S. '77, Moorhead State University. Field: Counseling. Major Adviser: Prof. W.W. Tennyson. Graduation Pending.

**Sheila Kingston**  
B.A. '76, State University College of New York. Field: School Psychology. Major Adviser: Prof. J.E. Ysseldyke. August Graduate.

Georgia Rae Minton, Merrill, Wis.  
B.S. '77, University of Wisconsin, Madison. Field:  
School Psychology. Major Adviser: Prof. S.L. Lind-  
borg. August Graduate.

Julie Anne Chanin Olson  
B.S. with distinction '75, University of Minnesota.  
Field: General Educational Administration. Major  
Adviser: Prof. G.F. Alkire. June Graduate.

Louis Anthony Parisien, Biddeford,  
Me.  
B.A. magna cum laude '66, Walsh College; M.A.  
'73, Kent State University. Field: Special Educa-  
tion. Major Adviser: Prof. B.E. Balow. October  
Graduate.

Marjorie Ann Richardson, Hector  
B.S.Ed. '65. M.Ed. '65, University of Cincinnati.  
Field: General Educational Administration. Major  
Adviser: Prof. N.C. Nickerson. July Graduate.

Shirley A. Trossen  
B.S. '67, M.S. '72, Wisconsin State University.  
Field: Elementary School Administration. Major  
Adviser: Prof. R.T. Lambert. July Graduate.

### **Specialist Certificate in Library Science**

Earl Marcel Belisle  
B.A. '63, St. John's University. Field: Library  
Science. Major Adviser: Prof. N.J. Rohde. July  
Graduate.

## 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:

College of Agriculture	maize
College of Biological Sciences	golden yellow
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
School of Management	drab
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

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

After receiving their degrees, holders may wear the academic costume on any appropriate occasion, but they always wear the black tassel, and omit the shoulder insignia. Appropriate academic costumes can be obtained anywhere that academic ceremonies are conducted.

## ***Fall 1985 Graduation Events***

**College of Agriculture**, 7 p.m. December 5  
Northrop Memorial Auditorium

**College of Education**, 7:30 p.m. December 9  
Northrop Memorial Auditorium

**College of Forestry**, 5:30 p.m. December 5  
Theater, St. Paul Student Center

**General College**, 7 p.m. December 6  
Theater-lecture hall, Coffman Memorial Union

**Graduate School**, 7 p.m. December 7  
Northrop Memorial Auditorium

**College of Home Economics**, 7 p.m. December 6  
North Star Ballroom, St. Paul Student Center

**College of Liberal Arts**, 1 p.m. December 8  
Northrop Memorial Auditorium

**School of Management**, 2 p.m. December 15  
Auditorium, Willey Hall