



University of
Minnesota

Fall 1984
Commencement

July-December
Graduate School
Candidates for Degrees

Board of Regents

The Honorable Charles H. Casey, D.V.M., West Concord
The Honorable William B. Dosland, Moorhead
The Honorable Willis K. Drake, Edina
The Honorable Erwin L. Goldfine, Duluth
The Honorable Wally Hilke, St. Paul
The Honorable Lauris D. Krenik, Madison Lake
The Honorable David M. Lebedoff, Minneapolis
The Honorable Verne Long, Pipestone
The Honorable Charles F. McGuiggan, D.D.S., Marshall
The Honorable Wenda W. Moore, Minneapolis
The Honorable David K. Roe, St. Paul
The Honorable Mary T. Schertler, St. Paul

Administrative Officers

Kenneth H. Keller, Interim President
David M. Lilly, Vice President for Finance and Operations
Stanley B. Kegler, Vice President for Institutional Relations
Kenneth H. Keller, Vice President for Academic Affairs
Neal Vanselow, Vice President for Health Sciences
Frank B. Wilderson, Vice President for Student Affairs

This book was prepared by University Relations. Additional copies are available from University Relations, 6 Morrill Hall, 100 Church St. S.E., University of Minnesota, Minneapolis, Minnesota 55455.

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

Your University

CHARTERED in 1851 by the Legislative Assembly of the Territory of Minnesota, the University of Minnesota this year celebrated its one hundred and thirty-second birthday. One of the great land-grant universities in the nation, the University of Minnesota is dedicated to training young men and women to be our future leaders. Each year, graduates 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 58,000 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.

Summer Candidates for Degrees

This section lists students who applied for graduation in summer 1984. The month of graduation is noted at the end of each student's listing. Degrees are listed alphabetically.

GRADUATE SCHOOL

Doctor of Education

Richard James Rigg, Oakland, Calif.
B.S. '57, State Teachers College; M.A. '74, Spec. Cert. '74, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: The Relationship Between Female School Board Membership and the Achievement of Equality in Athletic Opportunities for Female Students in Fifty Small Minnesota Public School Districts. Major Adviser: Prof. C.P. Hooker. July Graduate.

Doctor of Musical Arts

Shirley Ann Holzer, St. Cloud
B.A. '58, Emmanuel Missionary College; M.M. '60, Roosevelt University. Major: Music. Minor: Supporting Program. Major Adviser: Prof. D.C. Ware. July Graduate.

Axel Knut Theimer, Collegeville
B.A. '71, Saint John's University; M.F.A. '74, University of Minnesota. Major: Music. Minor: Supporting Program. Major Adviser: Prof. D.C. Ware. July Graduate.

Doctor of Philosophy

Mohamed El-Said Abouelezz,
El-Mansura, Egypt
B.Com. '64, M.S. '70, Cairo University; M.B.A. '77, University of Wisconsin, Oshkosh. Major: Business Administration. Minor: Psychology. Thesis: The Relationship of Incentive Structure and Budget Standard to Performance and Social Normative Influence. Major Adviser: Prof. J.W. Dickhaut. July Graduate.

Kwabena Ofori Amoh, Abaan,
Ghana
B.A. '76, Mount Senario College; M.A. '79, Mankato State University. Major: Educational Administration. Minor: Supporting Program. Thesis: Newly Arrived Foreign Students at a U.S. University: Their Adjustment Difficulties and Coping Strategies. Major Advisers: Profs. W.M. Ammentorp and R.M. Paige. July Graduate.

Murari Lal Agrawal, Payagpur,
India
B.S. first class '66, Banaras Hindu University; M.S. '78, State University of New York College of Environmental Science and Forestry. Major: Forestry. Minor: Chemical Engineering. Thesis: Surface Diffusion in Monomolecular Films. Major Adviser: Prof. R.D. Neuman. August Graduate.

Marcia McGarraugh Andberg,
Golden Valley
B.A. '66, Carleton College; M.A. '81, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Predictive Efficacy of Two Parameter Estimation Procedures in Multiple Regression Analysis. Major Adviser: Prof. R.O. Collier. July Graduate.

James Dana Alexander, Marshfield,
Wis.
B.A. '60, Brooklyn College; M.A. '62, University of Notre Dame; M.A. '80, University of Minnesota. Major: English. Minor: Linguistics. Thesis: Ape-sis in English. Major Adviser: Prof. J.L. Mitchell. August Graduate.

Alden Albert Arndt Jr., Brooklyn
Park
B.E.E. '58, M.A. '76, M.A. '79, University of Minnesota. Major: Ancient Studies. Thesis: A Microprocessor Computer System for Field Capture of Archaeological Data. Major Advisers: Profs. W.D. Coulson and P.C. Patton. July Graduate.

John Christopher Baker, Warren,
Ohio

B.S. '73, M.S. '75, D.V.M. '80, Ohio State University. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Studies on the Bovine Respiratory Syncytial Virus. Major Adviser: Prof. V.L. Larson. July Graduate.

Sue Bridwell Beckham, River Falls,
Wis.

B.A. '60, Georgetown College; M.A. '67, University of Mississippi. Major: American Studies. Thesis: A Gentle Reconstruction: Depression Post Office Murals and Southern Culture. Major Adviser: Prof. K.A. Marling. July Graduate.

Edward John Bedrick, Copiague,
N.Y.

B.A. summa cum laude '76, State University of New York at Buffalo. Major: Statistics. Minor: Supporting Program. Thesis: Adjusted Chi-Squared Tests for Cross-Classified Tables of Survey Data. Major Adviser: Prof. F.K. Lantz. August Graduate.

Gary Benzion, N.Y.

B.S. '74, Cornell University; M.S. '78, University of Florida. Major: Plant Breeding. Minor: Supporting Program. Thesis: Genetic and Cytogenetic Analysis of Maize Tissue Cultures: A Cell Line Pedigree Analysis. Major Adviser: Prof. R.L. Phillips. August Graduate.

Catherine Lynn Bertelson, Long
Lake

B.S. with high distinction '79, M.S. '80, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: An Assessment of Decision Making Styles/Processes of Consumer Education Students. Major Advisers: Profs. C.R. Hopkins and J.J. Lambrecht. July Graduate.

Lauren Braswell, Paris, Tex.

B.A. magna cum laude '78, Rice University. Major: Psychology. Minor: Supporting Program. Thesis: Cognitive-Behavioral Therapy with an Inner-City Sample of Non-Self-Controlled Children. Major Adviser: Prof. P.C. Kendall. July Graduate.

Geoffrey Emmett Brink, Jamestown,
Pa.

B.S. with highest distinction '80, Pennsylvania State University; M.S. '83, University of Minnesota. Major: Agronomy. Minor: Supporting Program. Thesis: Establishment of Alfalfa with and without Barley or Oat Companion Crops--Forage Yield and Quality and Alfalfa Persistence. Major Adviser: Prof. G.C. Marten. July Graduate.

Robert Edward Brooke, Denver,
Colo.

B.A. honors '79, Gonzaga University; M.A. '82, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: Writing and Commitment: Some Psychosocial Functions of College Writing. Major Adviser: Prof. R.L. Brown, Jr. July Graduate.

John Frederick Brug, Mequon, Wis.

B.A. '67, Northwestern College; M.A. '80, University of Minnesota. Major: Ancient Studies. Thesis: A Literary and Archaeological Study of the Philistines. Major Advisers: Profs. W.D. Coulson and J.S. Paradise. July Graduate.

Javier Fernando Campos, Chile

Prof. Esp. '72, Universidad de Concepcion. Major: Spanish. Minor: Supporting Program. Thesis: Poesia Chilena: 1961-1973 (Gonzalo Millan, Waldo Rojas Y Oscar Hahn). Major Adviser: Prof. Hernan Vidal. July Graduate.

Brian Willard Carlson, St. Paul

B.A. '79, Concordia College. Major: Chemistry. Minor: Supporting Program. Thesis: A Study of the Kinetics and Mechanism of the Oxidation of NADH by Ferrocenium Ions and Quinones. Major Adviser: Prof. L.L. Miller. July Graduate.

John Ellert Carlson, Rochester

B.S. summa cum laude '78, University of Minnesota. Major: Biochemistry. Minor: Supporting Program. Thesis: The Use of Bacteriophage M13 in the Analysis of the Ribonucleotide Diphosphate Reductase Operon from *Escherichia coli*. Major Advisers: Profs. J.A. Fuchs and Joachim Messing. August Graduate.

Wayne Douglas Carroll, Colorado
Springs, Colo.

B.A. with honors '75, University of Chicago. Major: Economics. Minor: Supporting Program. Thesis: The Role of Brokers in the Creation of Information-Exchange Networks. Major Adviser: Prof. T.J. Sargent. July Graduate.

Michael D. Carter, LaGrange, Ill.

B.S. magna cum laude '76, University of Cincinnati; M.S. '78, University of Minnesota. Major: Zoology. Minor: Supporting Program. Thesis: The Social Organization and Parasitic Behavior of the Bronzed Cowbird in South Texas. Major Adviser: Prof. D.W. Warner. July Graduate.

Mark Eugene Cavaleri, Roseville

B.S. Geol. '75, University of Minnesota. Major: Mineralogy and Petrology. Minor: Supporting Program. Thesis: Volume and Entropy Systematics of Materials at High Pressures and Temperatures by Heated Diamond-Anvil Energy-Dispersive Techniques. Major Adviser: Prof. J.H. Stout. July Graduate.

Summer

4

Byung-soon Choi, Seoul, Korea
B.S. '74, Seoul National University; M.A. '82, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The Effectiveness of a Simulated Experiment Using the Attributes of the Microcomputer on Student Understanding of the Volume Displacement Concept in the Junior High School. Major Adviser: Prof. E.D. Gennaro. July Graduate.

Gregory Martin Chrysler
B.M.E. with high distinction '77, M.S.M.E. '81, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Convective Heat Transfer Coefficients for Pipe Flow with Curvature Induced Secondary Motion. Major Adviser: Prof. E.M. Sparrow. July Graduate.

Timothy Robert Church, St. Paul
B.A. '74, Augustana College; M.S. '79, University of Minnesota. Major: Biometry and Health Information Systems. Minor: Statistics. Thesis: Biometric Design and Analysis in Trials of Mass Screening for Chronic Disease. Major Adviser: Prof. R.B. McHugh. August Graduate.

Robert Hammond Collins, Minneapolis
B.A. '69, Villanova University. Major: English. Minor: Supporting Program. Thesis: American Realism and the Plays of Sam Shepard: A Study of Theme and Form. Major Adviser: Prof. J.D. Hurrell. July Graduate.

Patricia Anne Copa, St. Paul
B.S. '66, M.A. '75, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The New Teacher as Theory-Maker: Using Teacher-Made Theory To Understand the Thoughts and Actions of Beginning Teachers. Major Advisers: Profs. G.I. Swanson and M.L. Dobbert. August Graduate.

Kevin Dale Cotter, Mishawaka, Ind.
B.S. with honors '78, Purdue University. Major: Economics. Minor: Mathematics. Thesis: Agents' Information as a Market Variable: New Techniques. Major Adviser: Prof. J.S. Jordan. July Graduate.

Dennis Joseph Coyle, Northampton, Mass.
B.S.Ch.E. summa cum laude '79, University of Massachusetts. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Fluid Mechanics of Roll Coating: Steady Flows, Stability, and Rheology. Major Advisers: Profs. C.W. Macosko and L.E. Scriven. July Graduate.

James Robert Crum, Denver, Ind.
B.S. '76, M.S. '79, Purdue University. Major: Soil Science. Minor: Supporting Program. Thesis: Soils and Till Stratigraphy of West-Central Minnesota. Major Adviser: Prof. R.H. Rust. July Graduate.

Michael Graham Curry, Hot Springs, Ark.
B.A. '71, New College; B.A. '77, M.A. '80, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: After Nuclear War: Possible Worlds and the Cult of Expertise. Major Adviser: Prof. Y.F. Tuan. July Graduate.

Julie Ann Curtsinger, St. Paul
B.S. magna cum laude '74, University of Dayton; M.S. '80, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: A Study of the Roles of Major Histocompatibility Complex Genes and the Lymphokine Interleukin 3 in the in Vitro Generation of Murine Cytolytic T Lymphocytes. Major Adviser: Prof. D.P. Fan. July Graduate.

David Wiley Deerfield II, Wichita, Kan.
B.S. Chem. '77, University of Kansas. Major: Chemistry. Minor: Supporting Program. Thesis: Approaches Toward the Synthesis of (3S-[3a(2S*, 5R*), 6a(2S*, 5R*)]) -3, 6-BIS-(5-Chloro-2-Piperidinyl)-2, 5-Piperazine-dione-Dihydro Chloride (Cyclo [-Streptolulyl-Streptolulyl], 593A). Major Adviser: Prof. T.R. Hoyer. July Graduate.

Lawrence F. DeNucci, Minneapolis
B.A. '71, M.A. '74, College of St. Thomas. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationship Between Selected Variables and the Success of Handicapped Students in Mainstream Classes. Major Adviser: Prof. W.M. Ammentorp. July Graduate.

Steven Lee Derfler
A.B. '73, Indiana University; M.A. '75, University of Minnesota. Major: Classical Area Studies. Minor: Supporting Program. Thesis: The Hellenistic Temple at Beersheva, Israel. Major Adviser: Prof. W.D. Coulson. July Graduate.

Warren Joseph Dick, Chicago, Ill.
B.S. with distinction '75, University of Illinois. Major: Physics. Minor: Supporting Program. Thesis: Exploring the Early Universe with Laser Spectroscopy. Major Adviser: Prof. G.W. Greenless. August Graduate.

Michael John DiPierro, Milwaukee, Wis.
B.S. '77, University of Wisconsin, Milwaukee. Major: Chemistry. Minor: Supporting Program. Thesis: Synthesis and Characterization of Polydentate Isocyanide Transition Metal Complexes. Major Adviser: Prof. K.R. Mann. August Graduate.

Patrick Michael Doyle, St. Louis Park
B.A. '68, M.S.W. '74, University of Minnesota. Major: Family Social Science. Minor: Supporting Program. Thesis: Child Custody and Mediation: A Two-Year Follow-Up. Major Adviser: Prof. D.H. Olson. July Graduate.

Kuang-Hann Duh, Kaohsiung,

Taiwan

B.S. Eng. '77, National Taiwan University. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Noise in Semiconductor Devices. Major Adviser: Prof. Aldert van der Ziel. August Graduate.

Rose Mary Eggerth, Babbitt

B.S. with distinction '75, University of Minnesota. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Investigation of the Concentration and Time Dependencies of Phenytoin Kinetics During Constant-Rate Infusion in the Rabbit. Major Adviser: Prof. R.J. Sawchuk. August Graduate.

Dan Roland Erwin, New Brighton

B.A. '59, Murray State University; M.A. '70, University of Colorado. Major: Speech-Communication. Minor: Supporting Program. Thesis: A Study in the Preaching of John Claypool: The Rhetorical Function of Narrative. Major Adviser: Prof. R.L. Scott. July Graduate.

**Stephen Edward Finn, Canastota,
N.Y.**

B.A. with high honors '78, Haverford College. Major: Psychology. Minor: Supporting Program. Thesis: A Partial Cross-Sequential Analysis of Personality Ratings on 400 Men. Major Adviser: Prof. Auke Tellegen. July Graduate.

**Timothy Paul Follick, Cincinnati,
Ohio**

B.S. '76, University of Evansville; M.A. '77, Eastern Illinois University. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Survey of Ethical Dilemmas Encountered by Psychologists Treating Outpatients. Major Adviser: Prof. W.F. Shaffer. July Graduate.

Ronald Kent Freund, St. Paul

B.A. magna cum laude '78, Augustana College. Major: Biochemistry. Minor: Supporting Program. Thesis: Pharmacological Characterization of Excitatory Amino Acid Receptors in the Hippocampus. Major Adviser: Prof. J.F. Koerner. August Graduate.

Richard Lewis Freyman, Pa.

B.S. with distinction '76, Pennsylvania State University; M.A. '78, Temple University. Major: Communication Disorders. Minor: Supporting Program. Thesis: Mechanisms of Frequency Discrimination in Listeners with Sensorineural Hearing Loss. Major Adviser: Prof. D.A. Nelson. July Graduate.

Thomas Richard Fritsche, New Ulm

B.S. '73, M.S. '75, University of Minnesota. Major: Zoology. Minor: Supporting Program. Thesis: Host Parasite Interactions of *Cotylurus flabelliformis* (Faust, 1917) (Trematoda: Strigeidae) in Normal and Aberrant Molluscan Hosts. Major Adviser: Prof. D.E. Gilbertson. July Graduate.

John Patrick Glaser

B.A. magna cum laude '76, Duke University; M.S. '82, University of Minnesota. Major: Biometry and Health Information Systems. Minor: Supporting Program. Thesis: An Investigation of the Relationship Between the Introduction of Computer Systems and Coordination in Health Care Organizations. Major Adviser: Prof. L.C. Gatewood. July Graduate.

Janet Lee Graden, Plymouth

B.S. Ed. with highest distinction '77, M.S. Ed. '78, Indiana University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Academic Responding Time and Instructional Ecology as a Function of Student Sex, Teacher-Perceived Academic Competence, and Learning Disabilities Classification. Major Adviser: Prof. J.E. Ysseldyke. July Graduate.

Constance Fritz Gremore, St. Paul

B.A. cum laude '72, M.A. '76, M.A. '79, University of Minnesota. Major: Theater Arts. Minor: Supporting Program. Thesis: Characteristics of Stage Adaptations of Works of Children's Literature. Major Adviser: Prof. K.L. Graham. August Graduate.

**Sutjipto Achmad Hadikusumo, Jawa
Tengah, Indonesia**

Ir. '70, Universitas Gadjah Mada; M.S. '80, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: Stress Development in Acer Saccharum (Marsh) Lumber During Drying in Solar and Steam Heated Kilns. Major Adviser: Prof. R.W. Erickson. July Graduate.

Clark D. Halker, Ashland, Wis.

B.A. summa cum laude '76, College of Idaho; M.A. '78, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: For Democracy, the Working Class, and God: Labor Song-Poems and Working-Class Consciousness, 1865-1895. Major Adviser: Prof. Hyman Berman. July Graduate.

David James Hall, Breckenridge

B.S. '78, University of Minnesota. Major: Pathobiology. Minor: Cell and Developmental Biology. Thesis: The Mechanisms Involved in the Initiation of Lymphocyte Proliferation in Vitro. Major Advisers: Profs. J.S. O'Leary and Andreas Resenberg. July Graduate.

Larry Frederick Hamm, Minneapolis

B.A. '70, Concordia Teachers College; M.A. '71, Michigan State University. Major: Physical Education. Minor: Supporting Program. Thesis: Graded Exercise Testing at Three Time Intervals Soon After Myocardial Infarction. Major Adviser: Prof. R.C. Serfass. August Graduate.

Sangyong Han, Seoul, Korea

B.S. E. '75, Seoul National University. Major: Computer and Information Sciences. Minor: Electrical Engineering. Thesis: PWB Layout Problem: Layering and Routing. Major Adviser: Prof. S.K. Sahni. July Graduate.

Summer

6

Susan Kay Harlander, St. Paul

B.S. *summa cum laude* '71, Wisconsin State University, Eau Claire; M.S. '78, University of Minnesota. Major: Food Science. Minor: Supporting Program. Thesis: Molecular Cloning of the Lactose-Metabolizing Genes from *Streptococcus lactis*. Major Adviser: Prof. L.L. McKay. July Graduate.

Lein Harn, Taipei, Taiwan

B.S.E. '77, National Taiwan University; M.S. '80, State University of New York at Stony Brook. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Design of Two-Dimensional Recursive Digital Filters. Major Adviser: Prof. B.A. Sheno. August Graduate.

Beverly Oliver Hawkins, Kansas City, Mo.

B.A. '71, Kansas State University; M.A. '73, University of Minnesota. Major: Educational Psychology. Minor: Public Affairs. Thesis: The Role of Evaluation in Philanthropic Decision Making. Major Adviser: Prof. W.W. Welch. July Graduate.

Todd Robert Hayes, Burnsville

B.A. *cum laude* '79, Gustavus Adolphus College. Major: Chemistry. Minor: Supporting Program. Thesis: Energetic Ions and Electrons as Probes of Organosilanes Covalently Bonded to Metal Oxide Surfaces. Major Adviser: Prof. J.F. Evans. July Graduate.

Oran Bryce Hesterman, Berkeley, Calif.

B.S. highest honors '79, M.S. '81, University of California, Davis. Major: Agronomy. Minor: Business Administration. Thesis: Contributions of Alfalfa to a Subsequent Corn Crop: Agronomic and Economic Evaluation. Major Adviser: Prof. C.C. Sheaffer. July Graduate.

Michael Antony Hill, England

B.Vet.Med. '71, University of London; M.S. '83, University of Minnesota. Major: Veterinary Medicine. Minor: Veterinary Pathology. Thesis: Observations on the Skeletons of Young Commercial Pigs with Reference to Dyschondroplasias Including That Called Osteochondrosis. Major Advisers: Prof. A.D. Leman and G.R. Ruth. July Graduate.

David Albert Hoeltzel, Brooklyn, N.Y.

B.E. '78, Cooper Union School of Engineering and Science; M.E. '79, Cornell University. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: The Contribution of an Implanted Intramedullary Nail to the Load Carrying Capacity of a Fractured Femur. Major Adviser: Prof. D.A. Frohrib. August Graduate.

Marita R. Hopmann

A.B. '68, University of California, Berkeley; M.A. '72, University of Minnesota. Major: Child Psychology. Minor: Supporting Program. Thesis: Conversations with Young Children: Mothers and Fathers as Playmates and Teachers. Major Adviser: Prof. A.D. Pick. July Graduate.

David Lee Jessen, Mound

B.S. with high distinction '79, University of Minnesota; M.S. '81, Iowa State University of Science and Technology. Major: Plant Breeding. Minor: Supporting Program. Thesis: Selection for Nodule Enzymes of Nitrogen and Carbon Assimilation in Alfalfa (*Medicago Sativa L.*). Major Adviser: Prof. D.K. Barnes. July Graduate.

Arnold Jeffrey Josefowitz, Bronx, N.Y.

B.A. '74, City College of New York; M.A. '77, Michigan State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Management Development Training on Organizational Climate. Major Adviser: Prof. W.W. Welch. August Graduate.

Dong-Hyuk Ju, Seoul, Korea

B.S.E. '74, Seoul National University; M.S. '76, Korea Advanced Institute of Science. Major: Electrical Engineering. Minor: Physics. Thesis: Device Modeling for Advanced Integrated Circuits. Major Adviser: Prof. R.M. Warner, Jr. July Graduate.

Durgaprasad Shripad Kadle, Bombay, India

B.Tech. honors '78, Indian Institute of Technology; M.S. '81, University of Iowa. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Effect of Tip Clearance on Turbulent Heat Transfer from a Shrouded, Longitudinal Fin Array. Major Adviser: Prof. E.M. Sparrow. July Graduate.

Rajiv Dattatraya Kane, India

B.Tech.E.E. '79, Indian Institute of Technology. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Systolic Algorithms for Design Rule Checks. Major Adviser: Prof. S.K. Sahni. July Graduate.

Daryl Ralph Karns, Ill.

B.S. with distinction '72, University of Wisconsin; M.A. '74, University of Kansas. Major: Ecology. Minor: Supporting Program. Thesis: Toxic Bog Water in Northern Minnesota Peatlands: Ecological and Evolutionary Consequences for Breeding Amphibians. Major Adviser: Prof. P.J. Regal. August Graduate.

Panhee Kim, Taegu, Korea

B.A. '74, Keimyung University; M.Ed. '79, Whitworth College. Major: Education. Minor: Supporting Program. Thesis: The Effect of Level of Curiosity and Age of a Peer on the Exploratory Behavior of Young Children. Major Adviser: Prof. H.S. Hansen. August Graduate.

Sung Gyung Kim, Seoul, Korea

B.S. '68, Korea Military Academy; B.A. '72, M.S. '75, Seoul National University. Major: American Studies. Thesis: Chaplains in Two Armies: United States and Korea--A Study in Comparative Ideology. Major Adviser: Prof. R.F. Spencer. July Graduate.

Guilford Gage Kingsbury,
Columbus, Ohio

B.S. '74, Ohio State University. Major: Psychology. Minor: Educational Psychology. Thesis: Adaptive Self-Referenced Testing as a Procedure for the Measurement of Individual Change Due to Instruction: A Comparison of the Reliabilities of Change Estimates Obtained from Conventional and Adaptive Testing Procedure. Major Adviser: Prof. D.J. Weiss. August Graduate.

Naum S. Kipnis, Malin, Soviet
Union

Dip. '60, Jitomir Pedagogical Institute. Major: History of Science and Technology. Minor: Physics. Thesis: History of the Principle of Interference. Major Adviser: Prof. A.E. Shapiro. July Graduate.

Lawrence Klippenstein, Altona,
Canada

B.A. '59, Goshen College; B.D. '62, Biblical Seminary Goshen College. Major: History. Minor: Supporting Program. Thesis: Mennonite Pacifism and State Service in Russia. A Case Study in Church-State Relations: 1759-1936. Major Adviser: Prof. T.G. Stavrou. July Graduate.

Jeffery K. Kondo, Ontario, Ore.

B.S. '79, Oregon State University. Major: Food Science. Minor: Supporting Program. Thesis: Transformation and Gene Cloning in *Streptococcus Lactis*. Major Adviser: Prof. L.L. McKay. July Graduate.

Claire Elaine Kotts, St. Paul

B.A. '69, Hamline University; M.S. '74, University of Minnesota. Major: Nutrition. Minor: Biochemistry. Thesis: Development of a Muscle Cell Culture Bioassay for Measuring Proliferation-Promoting Activity in Swine Serum. Major Advisers: Profs. C.E. Allen and W.R. Dayton. July Graduate.

Melvin Den Kuwahara, Gardena,
Calif.

A.B. '73, Occidental College; M.A.Chem. '75, California State University; M.S. '80, University of Minnesota. Major: Pharmacology. Minor: Supporting Program. Thesis: Perinatal Exposure to Or Withdrawal from the Opiate 1-a-Noracetylmetadone (Nlaam) in the Developing Chicken: Biochemical and Behavioral Studies. Major Adviser: Prof. S.B. Sparber. August Graduate.

Nancy Jeanne Laible, New Brighton

B.A. magna cum laude '67, Gustavus Adolphus College. Major: Microbiology. Minor: Supporting Program. Thesis: Muramidase-Independent Lysozyme Killing of Oral Streptococci. Major Adviser: Prof. G.R. Germaine. July Graduate.

Patricia Lynn Layton, Minneapolis

B.A. '72, University of Iowa. Major: Psychology. Minor: Supporting Program. Thesis: Self-Efficacy, Locus of Control, Career Salience and Women's Career Choice. Major Adviser: Prof. Ellen Betz. July Graduate.

InSook Han Lee, Seoul, Korea

B.S. '74, M.S. '79, Ewha Women's University. Major: Chemistry. Minor: Supporting Program. Thesis: Characterization of Transition State Structures by Using Marcus Theory for Hydride Transfer Reactions. Major Adviser: Prof. M.M. Kreevoy. August Graduate.

Man Woo Lee, Seoul, Korea

B.Econ. '73, Korea University; M.S. '75, State University of New York of Albany; M.S.'78, University of Wisconsin, Madison. Major: Economics. Minor: Supporting Program. Thesis: The Optimal Taxation on Foreign Investment in Growing Economics. Major Adviser: Prof. O.H. Brownlee. July Graduate.

Stephen Craig Lee, Bettendorf,
Iowa

B.S. '78, St. Ambrose College. Major: Microbiology. Minor: Supporting Program. Thesis: Evolution By DNA Rearrangement in a Population of Related Gentamicin Resistance Plasmids. Major Adviser: Prof. P.P. Cleary. August Graduate.

Yung-Cheng Lee, Republic of China

B.S.E. '78, National Taiwan University; M.S.M.E. '82, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Modeling Work in Thermal Plasma Processing. Major Adviser: Prof. Emil Pfender. July Graduate.

Michael Wayne Lesley, Minneapolis

B.S. with highest distinction '79, University of Illinois. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Interaction of Nitric Oxide with Reducing Gases on the (100) Plane of Platinum. Major Adviser: Prof. L.D. Schmidt. August Graduate.

Shui-Chih Alan Lien, Taipei,
Republic of China

B.S. '78, National Taiwan Normal University. Major: Physics. Minor: Supporting Program. Thesis: The Nature of the Smectic A-Smectic C and Smectic A-Chiral Smectic C Transitions of Liquid Crystals. Major Adviser: Prof. C.C. Huang. July Graduate.

Thomas J. Lombard, Rochester,
N.Y.

B.A. summa cum laude '71, Inter American University; M.Ed. '73, Harvard University; Spec. Cert. '75, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Efficacy of Comprehensive Preschool Screening as a System for Identifying Preschool Exceptional Children. Major Adviser: Prof. J.E. Ysseldyke. July Graduate.

Alemayehu Gebre Mariam, Ethiopia
B.A. '74, Augusta College; M.A. '75, University of Northern Iowa. Major: Political Science. Minor: Supporting Program. Thesis: The Politics of United States Immigration Policy: The Case of Recent Undocumented Haitian Entrants. Major Advisers: Profs. A.H. Nintzand G.W. Wynia. July Graduate.

Jeffrey Lawrence Marion, Louisville,
Ky.

B.A. '79, Wittenberg University; M.S. '82, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: Ecological Changes Resulting from Recreational Use: A Study of Backcountry Campsites in the Boundary Waters Canoe Area Wilderness, Minnesota. Major Adviser: Prof. L.C. Merriam. August Graduate.

Patrick Joseph McGinnity, Roseville
B.S. with distinction '77, University of Minnesota; M.S. '79, Southern Illinois University. Major: Soil Science. Minor: Supporting Program. Thesis: Soybean Genotype as a Determinant in Inoculum Recovery. Major Advisers: Profs. E.L. Schmidt and G.W. Ham. July Graduate.

Patrick Vincent McGreevy,
Lockport, N.Y.

B.A. '72, University of Notre Dame; M.A. '79, State University of New York at Buffalo. Major: Geography. Minor: Supporting Program. Thesis: Visions at the Brink: Imagination and the Geography of Niagara Falls. Major Adviser: Prof. Y.F. Tuan. July Graduate.

Beverly Anne McLaughlin
B.S. cum laude '73, M.Ed. '75, Howard University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Sex Role Ideology and Household Task Distribution in Relation to Marital Adjustment Levels in Dual Career, Black, Married Couples. Major Adviser: Prof. L.S. Hansen. July Graduate.

Barbara Jean Meland, Roseville
B.A. cum laude '68, B.S. '69, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Effects of Visual Discrimination Training on Recognition of Training and Non-Training Words. Major Adviser: Prof. J.C. Manning. August Graduate.

Chantal Marguerite Melis, Antwerp,
Belgium

Lic. '73, Universite Catholique de Louvain. Major: Classics. Minor: Supporting Program. Thesis: Naturae Species Ratioque: Myth and Meaning in Lucretius. Major Adviser: Prof. R.P. Sonkowsky. July Graduate.

Bruce Warren Morse, Columbus,
Ohio

B.S.Ag. '80, University of Delaware; M.S. '82, University of Minnesota. Major: Entomology. Minor: Supporting Program. Thesis: Towards Management of the Yellowheaded Spruce Sawfly in White Spruce Plantations. Major Adviser: Prof. H.M. Kulman. July Graduate.

Teena Moy, Elko, Nev.

B.A. magna cum laude '75, University of Utah. Major: Psychology. Minor: Supporting Program. Thesis: An Exploration of the Vocational Values and Needs of Chinese Students. Major Adviser: Prof. Ellen Betz. August Graduate.

Jayathi Y. Murthy, Hyderabad,
India

B.Tech. M.E. with distinction '79, Indian Institute of Technology; M.S.M.E. '81, Washington State University. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Calculation Procedure for the Prediction of Confined Flow Through Irregular Geometries. Major Adviser: Prof. E.A. Fletcher. August Graduate.

James Dennis Neaton, Minneapolis
B.A. cum laude '69, M.S. '70, University of Minnesota. Major: Biometry and Health Information Systems. Minor: Supporting Program. Thesis: The Use of the Logistic Model in the Design of Intervention Studies. Major Adviser: Prof. G.E. Bartsch. July Graduate.

John Stephen Nelson, Minneapolis
B.A. summa cum laude '78, Luther College; M.S.M.E. '82, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Effects of Rotation on Encapsulated Freezing. Major Adviser: Prof. E.M. Sparrow. August Graduate.

Mary Ann Nolterick, Waterloo,
Ohio

B.A. '71, University of Northern Iowa; M.A. '78, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Description of Teacher and Student Behavior Within Single and Multiple Group Teaching Structures in Elementary and General Music Education Classrooms. Major Adviser: Prof. J.A. Jellison. July Graduate.

**Edward Emmanuel Obi-Akatchak,
Agba-Osokom, Nigeria**

B.S. '79, M.S. '79, Bemidji State University. Major: Educational Administration. Minor: Supporting Program. Thesis: A Comparative Analysis of Perceived Job Satisfaction Among Graduate and NCE Post-Primary School Teachers in Ogoja, Nigeria. Major Adviser: Prof. S.H. Popper. August Graduate.

**Howard M. Ottenheimer,
Woodridge, N.Y.**

B.A. '67, M.A. '74, University of Virginia; M.A. '79, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Marital Dyad and Adolescent Substance Abuse Risk. Major Adviser: Prof. W.F. Shaffer. July Graduate.

Patricia Lynn Owen, St. Paul

B.A. summa cum laude '74, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: The Measurement of the Concept of Denial Among Alcoholics. Major Advisers: Profs. Auke Tellegen and A.J. Hafner. July Graduate.

Prashant Palvia, New Delhi, India

B.Sc. '72, University of Delhi; M.S. '73, M.B.A. '74, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: An Analytical Investigation into Record Structuring and Physical Database Design of Generalized Logical Data Structures. Major Adviser: Prof. T.R. Hoffmann. July Graduate.

Eric Karl Peterson, Lewiston, Idaho

B.S. '77, M.S. '79, University of Idaho. Major: Anatomy. Minor: Supporting Program. Thesis: Prolactin and Seasonal Reproduction in Wolves. Major Adviser: Prof. J.A. Parsons. July Graduate.

**Francis John Pierce, Rochester,
N.Y.**

B.S. magna cum laude '76, State University of New York College at Brockport; M.S. '80, University of Minnesota. Major: Soil Science. Minor: Statistics. Thesis: Assessing Soil Productivity in Relation to Land Use and Conservation. Major Advisers: Profs. W.E. Larson and R.H. Dowdy. July Graduate.

Gordon Gust Plorin, Jr., St. Paul

B.S. '75, University of Minnesota. Major: Zoology. Minor: Biometry and Health Information Systems. Thesis: Statistical Analysis and Computer Modeling of the Swimming of Miracidia of the Human Blood Fluke, Schistosoma Mansoni. Major Adviser: Prof. D.E. Gilbertson. July Graduate.

**Stephen Fairfield Poland,
Minneapolis**

A.B. '64, University of California, Berkeley; M.S. '67, Pennsylvania State University. Major: Psychology. Minor: Supporting Program. Thesis: Views of Parents and Professionals Regarding Parental Participation in Assessment and Decision Making Using Delphi Methods. Major Adviser: Prof. R.A. Weinberg. August Graduate.

Jim David Povlis, Jefferson, Ohio

B.S. summa cum laude '76, M.A. '76, Kent State University; M.S. '78, California Institute of Technology. Major: Physics. Minor: Supporting Program. Thesis: A Measurement of Neutral Meson and Direct Photon Production at Large Transverse Momentum. Major Adviser: Prof. Kenneth Heller. July Graduate.

George William Prohaska

B.S. '79, University of Pittsburgh. Major: Chemistry. Minor: Supporting Program. Thesis: Studies of the Plasma Polymerization of Styrene and Vinyl-dimethylethoxysilane. Major Adviser: Prof. J.F. Evans. August Graduate.

Steven James Rakow, St. Paul

B.S. with honors '75, Illinois State University; M.A. '80, College of St. Thomas. Major: Education. Minor: Supporting Program. Thesis: Prediction of the Science Inquiry Skill of Seventeen-Year-Olds: A Test of the Educational Productivity Model. Major Adviser: Prof. E.D. Gennaro. July Graduate.

**Roberto de la Fuente Ranola, Jr.,
Philippines**

B.S. '73, University of the Philippines at Los Banos; M.Agr. '78, Australian National University. Major: Agricultural Economics. Minor: Supporting Program. Thesis: Cropping Systems and Determinants: Factors Influencing Cropping Patterns, Fertilizer-Use and Resource-Use Efficiency. Major Adviser: Prof. V.W. Ruttan. July Graduate.

Brad B. Richardson, Omaha, Neb.

B.A. '76, Mount Mercy College; M.A. '78, University of Nebraska. Major: Sociology. Minor: Supporting Program. Thesis: Social Response to Technological Disaster: The Accident at Three Mile Island. Major Adviser: Prof. R.K. Leik. August Graduate.

Manuel Oliveira Ricou, Portugal

Lic. '75, Universidade Tecnica de Lisbon. Major: Mathematics. Minor: Supporting Program. Thesis: Energy, Entropy and the Laws of Thermodynamics. Major Adviser: Prof. J.B. Serrin. July Graduate.

Deborah Meg Rosenberg, Peoria, Ill.

B.A. summa cum laude '75, University of Colorado. Major: Psychology. Minor: Supporting Program. Thesis: The Quality and Content of Preschool Fantasy Play: Correlates in Concurrent Social-Personality Function and Early Mother-Child Attachment Relationships. Major Adviser: Prof. L.A. Sroufe. August Graduate.

Gary Alan Sailes

B.A. '73, State University of New York at Buffalo; M.A. '76, Mankato State University. Major: Physical Education. Minor: Sociology. Thesis: Sport Socialization Comparisons Among Black and White Adult Male Athletes and Nonathletes. Major Adviser: Prof. G.A. Stull. July Graduate.

Farzad Samie, Tehran, Iran

B.M.E. '77, Tehran Polytechnic; M.S.M.E. '81, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Effect of Inclination, Transverse Intertip Spacing, and Longitudinal Pitch on Crossflow Heat Transfer from an Array of Finned Tubes. Major Adviser: Prof. E.M. Sparrow. July Graduate.

Brenton Scott Sharratt, Petaluma, Calif.

B.S. '78, Utah State University. Major: Soil Science. Minor: Supporting Program. Thesis: Influence of the Winter and Growing Season Environments in the Production of Alfalfa. Major Adviser: Prof. D.G. Baker. July Graduate.

Mari C. Shaw, Willmar

B.S.Ed. honors '71, Valley City State College; M.S. '77, Mankato State University. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationships Between Perceptions of Different Groups of Minnesota AVTI and Community College Instructional Staff Regarding Selected Issues Rising from a Possible Merger of the Systems. Major Advisers: Profs. D.A. Morgan and N.C. Nickerson. July Graduate.

Meir Shemesh, Tel Aviv, Israel

B.Sc. '69, M.Sc. '70, Hebrew University of Jerusalem. Major: Mathematics. Minor: Statistics. Thesis: Clustering and Weak Convergence of a Sequence of Stochastic Processes. Major Adviser: Prof. N.C. Jain. July Graduate.

Olalekan Ola-Olu Shobowale, Nigeria

B.Sc. second class honors '70, University of Ibadan; B.A. '73, M.A. '75, University of Minnesota. Major: Mass Communication. Minor: Supporting Program. Thesis: The Professionalization of Nigerian Media Staffers. Major Adviser: Prof. R.G. Lindsay. July Graduate.

Ruth Marie Shuman, Minneapolis

B.S. with distinction '76, M.S. '81, University of Minnesota. Major: Genetics. Minor: Supporting Program. Thesis: The Avian Retrovirus as a Potential Vector for Gene Transfer in the Chicken. Major Adviser: Prof. R.N. Shoffner. August Graduate.

Robert Frank Silzer, Harvey, Ill.

B.A. '72, Southern Illinois University; M.S. '74, Florida State University. Major: Psychology. Minor: Supporting Program. Thesis: Clinical and Statistical Prediction in a Management Assessment Center. Major Adviser: Prof. M.D. Dunnette. July Graduate.

Craig W. Slinkman, Emporium, Pa.

B.S.B.A. '74, M.B.A. '75, Bowling Green State University. Major: Business Administration. Minor: Statistics. Thesis: An Empirical Comparison of Data Analytic Regression Model Building Procedures. Major Adviser: Prof. N.L. Chervany. August Graduate.

John Lewis Smith, Gloucester, N.J.

A.B. with high honors '74, Rutgers University. Major: Chemistry. Minor: Supporting Program. Thesis: Part I: Polarity Effects in Olefin Metathesis Catalysis. Part II: Photochemically Induced Free-Radical Additions to Strained Polycyclic Hydrocarbons. Major Adviser: Prof. P.G. Gassman. July Graduate.

Louisa Stokes Smith, Bloomington, Ill.

B.A. '60, Hamline University; M.A. '69, M.A. '75, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Rereading: A Response to Literature. Major Adviser: Prof. R.N. Odland. July Graduate.

Marjorie Jane Smith, Ashland, Wis.

B.S. '59, University of Wisconsin; M.S. '75, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Comparison of Cooperative and Individualistic Learning in Associate Degree Nursing Students. Major Adviser: Prof. H.Y. Williams. August Graduate.

Richard N. Spivey, Visalia, Calif.

Pharm.D. '78, University of Southern California. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: The Relationship of Locus of Control and Reinforcement Value Within Two Health Education Methods. Major Adviser: Prof. A.I. Wertheimer. July Graduate.

Constantine Spyarakos, Greece

Dip. '78, National Technical University of Athens; M.S.C.E. '80, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Dynamic Response of Strip Foundations by the Time Domain Bem-Fem Method. Major Adviser: Prof. Ioannis Vardoulakis. July Graduate.

Suzanne Mary Sturn, Neenah, Wis.
B.A. '74, M.A. '76, University of Wisconsin, Madison. Major: Theater Arts. Minor: Supporting Program. Thesis: Federico Garcia Lorca and La Barraca: The Influence of Classical Spanish Theatrical Form and the Puppet on the Repertory of La Barraca and on Lorca's Approach to a Popular Stage. Major Adviser: Prof. J.D. Hurrell. July Graduate.

Jose Torres Suarez, Ecuador
M.D. '73, Universidad Central del Ecuador; M.P.H. '78, University of Minnesota. Major: Epidemiology. Minor: Supporting Program. Thesis: Health Needs Assessment in Specific Population Groups in the Cayambe Region, Pichincha Province, Ecuador: An Epidemiologic Study of the Impact of Agricultural Development on Health Status. Major Adviser: Prof. L.M. Schuman. July Graduate.

Hussein Yassin Taha, Baghdad, Iraq
B.A. '73, Al-Mustansiriyah University; M.S.Ed. '79, University of Southern California. Major: Education. Minor: Supporting Program. Thesis: A Comparative Analysis of College Students' Satisfaction as Perceived by Selected Foreign and American Students at the University of Minnesota. Major Adviser: Prof. R.H. Beck. July Graduate.

Dene Kay Thomas, St. Paul
B.A. '78, Southwest State University. Major: English. Minor: Supporting Program. Thesis: A Transition from Speaking to Writing: Small-Group Writing Conferences. Major Adviser: Prof. R.L. Brown, Jr. August Graduate.

Joseph Milton Tillman, Calif.
B.A. '72, California State College, Dominguez Hills; M.S.W. '76, Washington University. Major: Social Work. Minor: Supporting Program. Thesis: A Faustian Example of Betrayal: The Ramsey County Citizens Committee for Economic Opportunity. Major Adviser: Prof. C.A. Chambers. July Graduate.

Luis Horacio Toledo-Pereyra,
Detroit, Mich.
M.D. '67, La Universidad Nacional Autonomade Mexico; Ph.D. '76, University of Minnesota. Major: History of Medicine. Minor: Supporting Program. Thesis: A Study of the Historical Origins of Cardioplegia. Major Adviser: Prof. L.G. Wilson. July Graduate.

Dennis van Uitert, St. Paul
B.A. '74, Brigham Young University; M.A.Ed. '77, Arizona State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Factors Related to the Adjustment of Wives Following Their Husbands' Strokes. Major Adviser: Prof. A.R. Anderson. July Graduate.

Rodney Harold Vargo, Clifton, N.J.
B.S. '73, Davis and Elkins College; M.S. '76, Pennsylvania State University. Major: Plant Pathology. Minor: Supporting Program. Thesis: An Enzyme-Linked Immunosorbent Assay (ELISA, EIA) for *Bipolaris sorokiniana* (Sacc. in Sorok.) Shoem. in Leaves of Hard Red Spring Wheat, *Triticum aestivum* L. Major Adviser: Prof. D.W. French. July Graduate.

Fernando Vega-Redondo, Madrid,
Spain
Lic. '79, Universidad Complutense de Madrid. Major: Economics. Minor: Supporting Program. Thesis: On the Optimal Allocation of Public Goods and Externalities: Statics, Dynamics and Incentives. Major Adviser: Prof. Leonid Hurwicz. August Graduate.

Jerrold Lee Vitek, Meadowlands
B.A. cum laude '73, University of Minnesota, Duluth. Major: Physiology. Minor: Supporting Program. Thesis: The Effects of Dentate Nuclear Output via Pathways Not Involving the Sensorimotor Cortex on the Amplitude and Organization of the Stretch Reflex in Decerebrate Cats. Major Adviser: Prof. J.R. Bloedel. July Graduate.

Camille L. Wainwright, Cottage
Grove
B.A. cum laude '67, Concordia College; M.S. '77, Purdue University. Major: Education. Minor: Supporting Program. Thesis: The Effectiveness of a Computer-Assisted Instruction Package in Supplementing Teaching of Selected Concepts in High School Chemistry: Writing Formulas and Balancing Chemical Equations. Major Adviser: Prof. E.D. Gennaro. July Graduate.

Mark Allen Waldecker, Comstock
Park, Mich.
B.S. '80, Michigan State University; M.S. '82, University of Minnesota. Major: Agronomy. Minor: Supporting Program. Thesis: Soil Moisture, Chemical, and Physical Effects on Glyphosate Absorption and Translocation in Common Milkweed (*Asclepias Syriaca* L.). Major Adviser: Prof. D.L. Wyse. July Graduate.

Patrick John Walsh, Wellington,
New Zealand
B.A. '74, M.A. '75, University of Canterbury. Major: Political Science. Minor: Supporting Program. Thesis: The Rejection of Corporatism: Trade Unions, Employers and the State in New Zealand, 1960-1977. Major Adviser: Prof. R.W. Benjamin. August Graduate.

**Jia-Yi Wang, Taipei, Republic of
China**

B.S.Pharm. '76, National Taiwan University. Major: Pharmacology. Minor: Physiology. Thesis: Physiological and Pharmacological Characterization of the Release of Vasoactive Intestinal Polypeptide (VIP) from Selected Brain Regions In Vivo. Major Adviser: Prof. T.L. Yaksh. July Graduate.

**Chenkou Wei, Taipei, Republic of
China**

B.S.E. '75, National Taiwan University; M.S. '78, Polytechnic Institute of New York. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Heat and Mass Transfer in Porous Media in Convective Heating and/or Microwave Heating. Major Advisers: Profs. H.T. Davis and E.A. Davis. July Graduate.

**Patrick Joseph Weicherding, Sleepy
Eye**

B.S. '72, M.S. '78, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: Socio-Psychological Determinants of Attitudes Toward Natural Resources. Major Adviser: Prof. C.A. Mohn. July Graduate.

Hal David Werner, Staples

B.S. '70, M.S. '71, South Dakota State University. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Infrared Thermometry To Evaluate Crop Water Status in a Subhumid Climate. Major Advisers: Profs. E.R. Allred and D.C. Slack. August Graduate.

**Hongren Zhou, People's Republic of
China**

Dip. '62, Beijing Aeronautical and Astronautical Institute. Major: Control Sciences and Dynamical Systems. Thesis: Tracking of Maneuvering Targets. Major Adviser: Prof. K.S. Kumar. July Graduate.

Julie Magno Zito

B.S.Pharm. '66, St. John's University; M.S. '72, University of Connecticut. Major: Social and Administrative Pharmacy. Minor: Epidemiology. Thesis: Clinical Characteristics of Psychotic Patients Who Refuse Antipsychotic Drug Therapy. Major Adviser: Prof. A.I. Wertheimer. July Graduate.

**Debby Ruth Zweig, Toronto,
Canada**

B.S. '79, University of Toronto; M.A. '81, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: A Comparison of Attitude Change Techniques Within a Cognitive-Therapy Context. Major Adviser: Prof. S.D. Brown. August Graduate.

Master of Agricultural Engineering

Mark Albert Killen, Minneapolis

B.Ch.E. '74, University of Minnesota. Major: Agricultural Engineering. Minor: Related Fields. Major Adviser: Prof. D.C. Slack. August Graduate.

Master of Architecture

Hani Shehata Ayad, Cairo, Egypt

B.S. '77, Cairo University. Major: Architecture. Thesis: Computer for Architects. Major Adviser: Prof. R.D. Clemence. August Graduate.

Russell Elmer Blume, Iola, Wis.

B.Arch. '72, Illinois Institute of Technology. Major: Architecture. Major Adviser: Prof. L.A. Lavine. July Graduate.

Valerie Joan Carr, Minneapolis

B.A. '81, University of Minnesota. Major: Architecture. Thesis: Design and Placemaking in a Campus Environment: A New Facility for the Computer/Electrical Engineering Departments at the University of Minnesota. Major Adviser: Prof. J.G. Rauma. July Graduate.

Robert Bruce Cornwall, Mich.

B.A. '78, Kalamazoo College. Major: Architecture. Thesis: An Architectural Center and Museum (A Vehicle to Explore Drawing and Architecture). Major Adviser: Prof. J.G. Rauma. July Graduate.

Habib Amin El Masry, Egypt

B.Arch.E. '81, Cairo University. Major: Architecture. Thesis: Luxor General Hospital, Egypt. Major Adviser: Prof. V.L. Michelson. July Graduate.

**Eino Santosh Mehta, New Delhi,
India**

B.Arch. '82, School of Planning and Architecture. Major: Architecture. Major Adviser: Prof. V.L. Michelson. August Graduate.

Oliver Ka-Kuen Ng, Hong Kong
B.E.S. '81, University of Manitoba. Major: Architecture. Thesis: Library Extension in Nanjing Institute of Technology, Nanjing, PRC. Major Adviser: Prof. J.G. Rauma. August Graduate.

Master of Arts

Lauren M. Abraham, Lake Elmo
B.S. summa cum laude '82, College of St. Thomas. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.D. Arvey. July Graduate.

Brad Edward Ambarian, Alaska
B.A. '77, Western Washington University. Major: Museology. Minor: Related Fields. Major Adviser: Prof. F.T. Smith. July Graduate.

Blaine Milton Arneson, Austin
B.S. with distinction '71, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. July Graduate.

Marilynn Britta Atsatt, Minneapolis
B.A. summa cum laude '80, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. R.T. Kudrle. August Graduate.

Moya Ann Ball, England
B.A. summa cum laude '82, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Thesis: A Descriptive and Interpretive Analysis of the Small Group Communication Dynamics of President Lyndon B. Johnson and His Key Advisers in the Decision-Making Relating to the Escalation of the Vietnam War. Major Adviser: Prof. E.G. Bormann. August Graduate.

Khaleda Banu, Bangladesh
M.A. '76, University of Dacca. Major: History. Minor: Related Fields. Major Adviser: Prof. David Kopf. July Graduate.

Mary Susan Battis, Eagan
B.A. '82, College of St. Theresa. Major: Communication Disorders. Minor: Related Fields. Thesis: The Effects of Extended Speaking on Nasal Resonance, Vocal Quality, and Articulations in Individuals with Cleft Palates. Major Adviser: Prof. C.D. Starr. July Graduate.

Faith Bronwen Benson
B.A. '79, University of Minnesota. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. N.J. Stenson. August Graduate.

Jeanne Eleanor Benson, Riverside, Calif.
B.A. with high honors '75, California State College, San Bernardino. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

Mary Lou Bents, Little Canada
B.A. cum laude '69, Luther College. Major: Education. Minor: Related Fields. Major Adviser: Prof. H.Y. Williams. August Graduate.

Mark Elvin Bernhardson, Golden Valley
B.A. '71, Gustavus Adolphus College. Major: Public Affairs. Major Adviser: Prof. G.A. Warp. July Graduate.

Betsy Kay Betker, Chicago, Ill.
B.S. '74, Valparaiso University. Major: Home Economics Education. Minor: Related Fields. Major Adviser: Prof. R.G. Thomas. July Graduate.

Susan Elizabeth Blackshear, Hopewell Junction, N.Y.
B.A. '80, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. August Graduate.

Michele Ann Brouse, White Bear Lake
B.S. with distinction '71, University of Minnesota. Major: Art Education. Minor: Related Fields. Major Adviser: Prof. M.K. DiBlasio. August Graduate.

Christopher J. Canelake, Virginia
B.A.S. cum laude '78, University of Minnesota. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. G.F. Alkire. August Graduate.

Robert John Caspersen, Stevens Point, Wis.
B.M. '70, Wisconsin State University, Stevens Point. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. Stephen Schultz. August Graduate.

Kate Theresa Cassady, Minneapolis
B.S. with distinction '74, University of Minnesota. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. H.W. Wilson. July Graduate.

Richard Mark Chapman, Minneapolis
B.A. summa cum laude '79, Bethel College. Major: History. Minor: Related Fields. Major Adviser: Prof. C.A. Chambers. July Graduate.

- Janith Sue Choi, Elgin, Ill.**
B.A. '67, Northern Illinois University. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. J.C. Manning. July Graduate.
- Marilyn Hall Christianson, Bloomington**
B.S.N. with distinction '77, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.W. Johnson. July Graduate.
- Lazaros Christoforides, Kavala, Greece**
B.A. '74, Deree College. Major: Sociology. Minor: Related Fields. Major Adviser: Prof. David Cooperman. August Graduate.
- Peter F. Ciborowski, St. Paul**
B.A. '79, State University of New York, Albany. Major: Public Affairs. Major Adviser: Prof. D.E. Abrahamson. August Graduate.
- Joy Marie Corneliussen, Exton, Pa.**
B.A. magna cum laude '80, St. Olaf College. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.F. Bognanno. August Graduate.
- Hung Quang Dam, Vietnam**
Lic. '80, University of Saigon. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. H.H. Gershenson. August Graduate.
- Steven Rey Danielson, Sandstone**
B.A.'81, University of Minnesota. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. H.H. Gershenson. July Graduate.
- Katherine Lee Dennis**
B.A. summa cum laude '79, Bethel College. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. N.J. Stenson. August Graduate.
- Colette Ann Diegel, Limerick, Ireland**
B.S. '82, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Parental Preferences and Severity Ratings for Hypernasal and Compensatory Patterns of Articulation in the Speech of Children with Cleft Palate. Major Adviser: Prof. P.A. Broen. July Graduate.
- Annette C. Dowdy, St. Paul**
B.S. '60, Berea College. Major: Home Economics Education. Minor: Related Fields. Major Adviser: Prof. M.M. Rossmann. July Graduate.
- Kay Ellen Drache, Fargo, N.D.**
B.A. magna cum laude '76, Concordia College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.
- Karla Jean Eastling, Atherton, Calif.**
B.A. '65, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. July Graduate.
- Paul David Eastwold, St. Paul**
B.A. cum laude '75, St. Olaf College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. S.L. Deno. July Graduate.
- Michael David Finch, Minneapolis**
B.A. '76, Western Washington State College. Major: Sociology. Minor: Related Fields. Major Adviser: Prof. J.T. Mortimer. July Graduate.
- Lisa Marie Fish, Minneapolis**
B.A. magna cum laude '78, Concordia College. Major: Education. Minor: Related Fields. Major Adviser: Prof. H.L. Jorstad. July Graduate.
- Joan Kinsel Flood, Neb.**
B.S. with honor '63, Mankato State Teachers College. Major: Business Education. Minor: Related Fields. Major Adviser: Prof. C.R. Hopkins. August Graduate.
- Todd William Fortune**
B.A. '80, Macalester College. Major: Communication Disorders. Minor: Related Fields. Thesis: Region Specificity of the Auditory Brainstem Response: A Comparison of Derived and Nondrived Techniques. Major Adviser: Prof. J.L. Yanz. July Graduate.
- Patricia Ann Frazier, Minneapolis**
B.A. '79, St. Olaf College. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. S.D. Brown. July Graduate.
- Mary Ann George, R.I.**
B.A. '77, University of Rhode Island. Major: English. Minor: Related Fields. Major Adviser: Prof. W.A. Madden. August Graduate.
- Caroline Marie Gilbert, Arden Hills**
B.A. '71, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. H.Y. Williams. July Graduate.
- Keiko Goto, Japan**
B.A. '79, Chiba University. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. J.A. Jellison. July Graduate.
- Anne Marie Hare, Hastings**
B.A. '63, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. D.P. Geesaman. August Graduate.
- Sapar Bin Hasim, Kuala Lumpur, Malaysia**
B.A. with honors '77, Universiti Sains Malaysia. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. R.E. Carter. July Graduate.

Kay Frances Hendrikson

B.S. '77, University of Wisconsin, Madison. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. R.F. Weatherman. August Graduate.

Nancy Alice Hereid, St. Paul

B.A. '62, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. E.D. Gennaro. July Graduate.

**Susan Diane Price Herndl, St. Jo,
Tex.**

B.A. magna cum laude '81, Texas Christian University. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Hancher. August Graduate.

Verna Ann Higson

B.A. '71, University of California, Berkeley. Major: Education. Minor: Related Fields. Major Adviser: Prof. C.A. Carrier. July Graduate.

Shirley Dianne Hoffmann, Silver

Bay
B.S. with distinction '77, University of Minnesota. Major: Geography. Minor: Related Fields. Major Adviser: Prof. C.H. Weil. July Graduate.

Linda Sue Houge, Chaska

B.A. cum laude '79, Luther College. Major: Communication Disorders. Minor: Related Fields. Thesis: A Phonological Analysis of Twins Discordant for Clefting of the Palate: Pre- and Post-Pharyngeal Flap Surgery. Major Adviser: Prof. K.T. Moller. July Graduate.

Colette Anne Hyman

B.A. '79, Brown University. Major: History. Minor: Related Fields. Thesis: The Chicago Women's Trade Union League: Labor Organizing and Female Institution Building, 1904-1924. Major Adviser: Prof. S.M. Evans. August Graduate.

Vaughn Robert Jefferson, St. Paul

B.A. '73, Bethel College; M.Div. '77, Bethel Theological Seminary. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. T.J. Hummel. July Graduate.

Chris Robert Jensen, Minneapolis

B.A. cum laude '76, Augsburg College. Major: Education. Minor: Related Fields. Major Adviser: Prof. E.D. Gennaro. August Graduate.

Polly Princell Johnson, Mankato

B.S. cum laude '81, Mankato State University. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. July Graduate.

**Jonathan Brett Kalstrom,
Montevideo**

B.A. '79, Moorhead State University. Major: Philosophy. Minor: Related Fields. Thesis: The Cartesian Circle. Major Adviser: Prof. D.E. Lewis. July Graduate.

**Karen Lee Kelleher, Westmont,
N.J.**

B.M.E. '76, University of Delaware; B.S. '81, University of Minnesota. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. J.A. Jellison. August Graduate.

Neal Kiehar, Minneapolis

B.A. '77, Kent State University. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. T.L. Glasser. August Graduate.

Mi-Ock Kim, Seoul, Korea

B.M. '78, Seoul National University. Major: Music. Minor: Related Fields. Major Adviser: Prof. R.T. Laudon. July Graduate.

Mary Kathryn King, Madison, Wis.

B.S. with honors '78, University of Wisconsin, Madison. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. P.J. Tichenor. July Graduate.

Naomi Louise King-Smith,

Minneapolis

B.A. '80, University of Minnesota. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. H.W. Wilson. July Graduate.

Patricia Ann Krezowski

B.A. '73, College of St. Catherine. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. July Graduate.

Colette Colleen Kuhn

B.A. '79, North Dakota State University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. A.R. Anderson. July Graduate.

Roberta Wurden LaFleur,

Minneapolis

B.A. '76, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

Jere Wyre Lamp, Pittsburgh, Pa.

B.A. cum laude '76, Kenyon College. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. C.M. Nolte. August Graduate.

Odd Langaas, Norway

Cand. Juris '78, University of Oslo. Major: Public Affairs. Major Adviser: Prof. R.C. Einsweiler. August Graduate.

Kais Laouiti, Tunisia

Lic. '81, Universitate de Tunis. Major: Economics. Minor: Related Fields. Thesis: Money Supply in Tunisia: An Empirical Study. Major Adviser: Prof. O.H. Brownlee. July Graduate.

Barbara Ann Larsen, Rochester

B.A. cum laude '77, Luther College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

Ernest David Larson

B.S. '62, United States Merchant Marine Academy; M.D. '77, Bethel Theological Seminary. Major: Ancient Studies. Thesis: Oracular Speakers and Mari Society. Major Adviser: Prof. J.S. Paradise. July Graduate.

Loralie Lawson, Minneapolis

B.S. cum laude '79, Boise State University. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. R.V. Dawis. July Graduate.

Jerald Richard Lee

B.S. '68, Minot College. Major: English. Minor: Related Fields. Major Adviser: Prof. J.T. Mitchell. July Graduate.

Jan Anthony LeSuer, Minneapolis

B.A. '76, Pennsylvania State University. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. August Graduate.

Lance Edward Leupold, Edina

B.A. magna cum laude '75, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Thesis: The Microcomputer in Radio Automation: Accessing Broadcasting's State of the Art. Major Adviser: Prof. L.D. Bart. July Graduate.

Terri Lynn Liestman, Minneapolis

B.A. magna cum laude '81, University of Minnesota. Major: Anthropology. Minor: Related Fields. Thesis: Archeological Excavations at the Pontiac Pit Site: A Multi-Component Campsite in the Rocky Mountains. Major Adviser: Prof. G.E. Gibbon. August Graduate.

Bernadine Bloom Lortis, St. Paul

B.S. with distinction '69, University of Minnesota. Major: Home Economics Education. Minor: Related Fields. Major Adviser: Prof. J.E. Plihal. August Graduate.

**Andrew David Mason, Sussex,
England**

B.A. '81, University of Bristol. Major: Philosophy. Minor: Related Fields. Thesis: Essential Contestability and the Explanation of Political Disagreement. Major Adviser: Prof. N.B. Scheman. July Graduate.

John Kevin McMillan, Austin, Tex.

B.A. '79, University of Texas. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. Hazel Dicken-Garcia. July Graduate.

**George Michael Mellinger,
Minneapolis**

B.A. '68, University of Minnesota. Major: History. Minor: Related Fields. Major Adviser: Prof. T.G. Stavrou. July Graduate.

David Melloh, Minneapolis

B.A. '82, Carleton College. Major: Political Science. Minor: Related Fields. Major Adviser: Prof. S.M. Olson. July Graduate.

Timothy Scott Mieuse, St. Paul

B.A. with honor '77, Hamline University. Major: Physical Education. Minor: Related Fields. Thesis: A Study of the Value and Usage of Present Recruitment Procedures and Practices as Defined by College Basketball Coaches Located in NCAA, Division III. Major Adviser: Prof. E.M. Jaeger. July Graduate.

William Gerald Miller, Belle Plaine

B.A. '72, St. John's University; J.D. cum laude '75, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. D.P. Geesaman. July Graduate.

**Gayle Ann Momchilovich,
Minneapolis**

B.E.S. '76, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

Dale Allan Moss, New Brighton

B.A. cum laude '77, Concordia College. Major: Physical Education. Minor: Related Fields. Major Adviser: Prof. E.M. Jaeger. July Graduate.

**Catherine McCann Murphy, Lynn,
Mass.**

B.A. '71, Nazareth College of Rochester. Major: Public Affairs. Major Adviser: Prof. J.S. Adams. July Graduate.

Lili Baum Naveh, Israel

B.A. '80, B.S.W. '80, University of Haifa. Major: Family Social Science. Minor: Related Fields. Major Adviser: Prof. P.G. Boss. July Graduate.

**John Frederick Nelson, Eden
Prairie**

B.A. '70, University of Minnesota. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. W.E. Emery. July Graduate.

**Judith Dianne Nelson, Rice Lake,
Wis.**

B.S. '70, University of Wisconsin, Eau Claire. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

David Adelbert Noble, Excelsior

B.S. '77, St. John's University. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Hancher. July Graduate.

Krisanne Novak, Minneapolis

B.A. '79, University of Minnesota. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. E.E. Tarone. August Graduate.

Jack Eldon Nybakken, Minot, N.D.
B.S. '69, Minot State College. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. T.L. Mazzoni. August Graduate.

Eric James Nyquist, St. Paul
B.S.B. '81, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. P.L. Schumann. July Graduate.

Barbara Joyce Olson, Brighton, Iowa
B.A. with honors and distinction '81, Iowa State University. Major: Speech-Communication. Minor: English as a Second Language. Major Adviser: Prof. W.S. Howell. July Graduate.

Gary Lee Olson, Minneapolis
B.A. '71, University of Oregon. Major: Education. Minor: Related Fields. Major Adviser: Prof. H.Y. Williams. July Graduate.

Peter Eric Olson, Minneapolis
B.A. '80, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. W.F. Shaffer. July Graduate.

Linda Sharon Omizo, Waimanalo,
Hawaii
B.A. '76, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.R. Zander. July Graduate.

John Michael Padgett, Frankfort,
Ky.
B.A. with high distinction '75, University of Kentucky. Major: Museology. Minor: Related Fields. Major Adviser: Prof. F.T. Smith. July Graduate.

David Pearlman, New York, N.Y.
B.A. '80, University of Cincinnati. Major: Ancient Studies. Thesis: Threshing Sledges in the East Mediterranean: Ethnoarchaeology with Chert Knappers and Dhokanes in Cyprus. Major Adviser: Prof. C.R. Rapp. July Graduate.

Elizabeth Mary Perry
B.A. with high honors '73, Grand Valley State College. Major: Comparative Literature. Minor: French. Major Adviser: Prof. Wladislaw Godzich. August Graduate.

Phyllis P. Pesola-Krumholz, Buffalo
B.S. with distinction '71, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. C.A. Carrier. August Graduate.

Sue Louise Pierson, Minot, N.D.
B.A. magna cum laude '79, Concordia College. Major: Art Education. Minor: Related Fields. Major Adviser: Prof. M.K. DiBlasio. July Graduate.

Linda Polka, Vandergrift, Pa.
B.A. summa cum laude '80, Slippery Rock College. Major: Psychology. Minor: Related Fields. Thesis: Perceptual Integration of Acoustic Cues That Differentiate /r/ and /l/. Major Adviser: Prof. J.J. Jenkins. August Graduate.

Carlos Eduardo Puga, Ecuador
Lic. '78, Universidad Central del Ecuador. Major: Geography. Minor: Related Fields. Major Adviser: Prof. E.S. Sheppard. August Graduate.

Susan Margaret Redpath,
Minneapolis
B.A. cum laude '79, St. Olaf College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. M.N. Maack. July Graduate.

Thomas Charles Richards, St. Louis
Park
B.A. '78, University of Minnesota. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. N.J. Stenson. July Graduate.

Beverly Jane Ricker, Chanhassen
B.S. with distinction '77, University of Minnesota. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. S.D. Brown. July Graduate.

Stephen James Root, Robbinsdale
B.A. '75, Augsburg College. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. N.C. Nickerson. August Graduate.

Anton B. Rosenthal, Los Angeles,
Calif.
B.A. '73, University of California, Berkeley. Major: History. Minor: Related Fields. Thesis: From Strangers to Conquerors: The Chikunda of 19th-Century Mozambique. Major Adviser: Prof. A.F. Isaacman. July Graduate.

Nancy Ann Roth, Minneapolis
B.A. '73, University of Minnesota. Major: Art History. Minor: Related Fields. Major Adviser: Prof. Melvin Waldfogel. July Graduate.

Jane Elizabeth Sangalis
B.A. cum laude '78, Indiana University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.F. Bognanno. July Graduate.

Martine Sauret
Lic. '80, Universite de la Sorbonne Nouvelle (Paris III). Major: French. Minor: Related Fields. Major Adviser: Prof. T.C. Conley. July Graduate.

Stephen James Schneider,
Minneapolis
B.A. '71, Macalester College. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. D.B. Schwartz. July Graduate.

**John Hoosic Serunian, Worcester,
Mass.**

B.A. with honors '75, University of North Carolina. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. R.W. Burris. August Graduate.

Mary Elizabeth Shallman, Wayzata

B.A. with distinction '80, Stanford University. Major: Public Affairs. Major Adviser: Prof. D.P. Geesaman. August Graduate.

Charles Borden Shaw, Savage

B.S. '75, De Paul University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.G. Scoville. July Graduate.

Colleen J. Sheehy, Minncapolis

B.A. '78, University of Minnesota. Major: American Studies. Major Adviser: Prof. A.I. Geffen. August Graduate.

Jean Berger Smith, Chili, Wis.

B.A. '79, University of Minnesota. Major: History. Minor: Related Fields. Major Adviser: Prof. T.G. Stavrou. July Graduate.

Linda Jane Solie, Minneapolis

B.A. summa cum laude '79, North Park College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. L.J. Fiedler. July Graduate.

**Sigrun Stefansdottir, Reykjavik,
Iceland**

B.A. '83, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Thesis: The Icelandic Broadcasting System. Major Adviser: Prof. D.R. Browne. August Graduate.

**Douglas Richard Stein, Hudson,
Wis.**

B.S. '80, University of Wisconsin, River Falls. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. M.K. Neely. August Graduate.

John Fred Stone, Richfield

B.A. cum laude '80, Gustavus Adolphus College. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. J.V. Jensen. August Graduate.

**Rebecca Elaine Strandlund,
Minncapolis**

B.S. '57, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. F.H. Wood. July Graduate.

Joel Allen Sutter

B.A. magna cum laude '75, Carleton College. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. July Graduate.

**Finnur Sveinbjornsson, Reykjavik,
Iceland**

B.S. '81, University of Leicester. Major: Public Affairs. Major Adviser: Prof. S.A. Hoenack. July Graduate.

Wendy Syer, Minneapolis

B.S. '71, Tufts University. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. W.S. Howell. July Graduate.

**Claudia Lorraine Tornblom,
Washington, D.C.**

B.S. '69, Iowa State University. Major: Public Affairs. Major Adviser: Prof. D.E. Abrahamson. August Graduate.

Atsuko Tsuda, Kyoto, Japan

B.A. '79, Osaka University of Foreign Studies. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. George Yule. July Graduate.

Nadia Venturini, Torino, Italy

Laur. '79, Universita Degli Studi de Torino. Major: History. Minor: Related Fields. Thesis: From Roosevelt and Mussolini to Truman and De Gasperi: The Politics of Italian American Leadership, 1930-1950. Major Adviser: Prof. R.J. Vecoli. August Graduate.

**Ann Frances Walsh, Kaukauna,
Wis.**

B.S. '82, University of Minnesota. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. J.A. Jellison. July Graduate.

**Susana Warman, Mexico City,
Mexico**

B.A. '81, University of Minnesota. Major: History. Minor: Anthropology. Thesis: Education in Revolutionary Mexico (1910-1935). Major Adviser: Prof. S.B. Schwartz. July Graduate.

**Diane E. Ogdie Wartchow,
Minneapolis**

B.A.S. '79, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. J.E. Brandl. July Graduate.

Jennifer Nielle Webb

B.A. '69, St. Cloud State University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.G. Force, Jr. July Graduate.

Kathleen Mary Woods, Minneapolis

B.A. '68, Dickinson College; M.A. '74, University of South Carolina. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. July Graduate.

Gretchen Elise Wrobel, Roseville
B.A. summa cum laude '80, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. R.A. Weinberg. July Graduate.

Gretchen Marie Wronka,
Bloomington
B.A. '66, College of St. Catherine. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. August Graduate.

Master of Arts

UNIVERSITY OF MINNESOTA, DULUTH

Michelle Ann Bertrang
B.A.S. '83, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. R. F. Pierce. August Graduate.

Ann Margaret Beste, Virginia
B.A.S. '83, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

Kathy Mary Bombera, Palatine, Ill.
B.S. with highest honor '77, De Paul University. Major: Art. Minor: Related Fields. Major Adviser: Prof. T.L. Kerrigan. July Graduate.

Susan Elizabeth Brown, Bemidji
B.S. '82, Brigham Young University. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

Cheryl Kay Diem, Mendota Heights
B.A.S. '83, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

Laurie Jean Freundsuh
B.S. '83, B.A.S. '83, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

Elizabeth Jane Goldfarb, Duluth
B.A.S. '80, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

Nancy Ellen Johnson, Virginia
B.A.S. '83, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. R.F. Pierce. August Graduate.

Linda Marie Katauskas
B.A. '83, College of St. Teresa. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. R.F. Pierce. August Graduate.

Charisse Diane Marrin, Minneapolis
B.A.S. '83, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

Tamara Anne Paulson, Duluth
B.A.S. cum laude '83, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

Caroline Frances Slanina, Rapid
City, S.D.
B.S. magna cum laude '83, Mankato State University. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. August Graduate.

Master of Business Administration

Blaine Graham Barkley, Annandale
B.S. '69, University of Minnesota. Major: Business Administration. Major Adviser: Prof. P.V. Grambsch. August Graduate.

Sophie Harris Bell, Minneapolis
B.A. '74, Mount Holyoke College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

David James Biemesderfer,
Minneapolis
B.A. magna cum laude '81, Gustavus Adolphus College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Jean Marie Charley, Minneapolis
B.A. summa cum laude '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. J.M. Gahlon. July Graduate.

Summer

20

Kathy Wai Hui Cheng, Hong Kong
B.A. magna cum laude '77, Brigham Young University. Major: Business Administration. Major Adviser: Prof. R.G. Berryman. August Graduate.

**Kim M. Erickson Cornell,
Minneapolis**

B.A. magna cum laude '76, Gustavus Adolphus College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. August Graduate.

Gianna Jean Dekko, Edina
B.A. cum laude '81, Carleton College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Rienk Ruurt De Vries, Wageningen,
Netherlands**

B.C.E. '82, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.

Mary Jean Diesen, Coon Rapids
B.S. '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Edward Albert Ebbers, Burlington,
Wis.**

B.B.A. '79, University of Wisconsin, Eau Claire. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Dan H. Elron, Israel
B.S. '82, Tel-Aviv University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.

Brian Dean Frevort, Edina
B.A. with honors '79, University of Northern Iowa. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Dara Elwyn Gault, Canada
B.E. '76, Nova Scotia Technical College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

Patrick Frank Gorham, Mora
B.S.M.E. '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Karen Kay Hagmann, Fridley
B.A. '82, Northwestern University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

James Alan Hairc, Minneapolis
B.A. magna cum laude '76, Colorado College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Shawn Delancy Hartfeldt,
Minneapolis**
B.A. with distinction '62, Stanford University; M.A. '64, University of Chicago. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

David Jon Honkanen, Gilbert
B.Min.E. '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

David Lee Johnson, Aberdeen, S.D.
B.S. cum laude '82, Northern State College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

John Michael Kelberer, Minneapolis
B.A. with honors '74, Haverford College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

Mary Kathryn Kerrigan, Wis.
B.A. cum laude '82, University of Wisconsin, Green Bay. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

Susan Lynn Koch, Massillon, Ohio
B.S. magna cum laude '82, University of Cincinnati. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Mark James Kochevar, St. Paul
B.S. '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Madine Beth Koelsch, Hopkins
B.A. '77, Augsburg College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

Kenneth James Krieter, Minneapolis
B.E. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. August Graduate.

Roger Eliot Lambert, St. Paul
B.S. '83, University of Wisconsin, River Falls. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**John Theodore Lamers, Beaver
Dam, Wis.**
B.S. '76, University of Wisconsin, Milwaukee. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

**Dolores Ann Landowski, Stevens
Point, Wis.**
B.S. '82, University of Wisconsin, Stevens Point. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Carolyn Martha Larson, Havre,
Mont.

B.A. summa cum laude '83, Concordia College.
Major: Business Administration. Major Adviser:
Prof. N.L. Chervany. July Graduate.

Douglas Carl Lund, Minneapolis

B.S. with distinction '77, University of Minnesota.
Major: Business Administration. Major Adviser:
Prof. R.B. Upson. July Graduate.

Kevin John McCarthy, Plymouth

B.S.B. '81, University of Minnesota. Major: Business
Administration. Major Adviser: Prof. N.L.
Chervany. July Graduate.

Dean Robert Mitchell, Maple Grove

B.A. magna cum laude '83, Hamline University.
Major: Business Administration. Major Adviser:
Prof. N.L. Chervany. July Graduate.

Mary Annette Mohrenweiser,

Minneapolis

B.A. '77, University of Minnesota. Major: Business
Administration. Major Adviser: Prof. R.B. Upson.
July Graduate.

JoAnn Stephanie Morse, St. Paul

B.A. with distinction '75, Stanford University;
Ph.D. '81, Princeton University. Major: Business
Administration. Major Adviser: Prof. N.L.
Chervany. August Graduate.

Cynthia Jo Mueller, Minneapolis

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

David Thomas Myhr, Minneapolis

B.S. '80, Iowa State University of Science and
Technology. Major: Business Administration. Major
Adviser: Prof. N.L. Chervany. July Graduate.

Charles Robert Nuckles,

Steubenville, Ohio

B.S.B.A. '68, Wayne State University; M.A. '75,
Eastern Michigan University. Major: Business Ad-
ministration. Major Adviser: Prof. R.B. Upson.
August Graduate.

Anne Elizabeth Obert, Fargo, N.D.

B.B.A. '82, College of St. Catherine. Major: Business
Administration. Major Adviser: Prof. N.L.
Chervany. July Graduate.

Douglas L. Olson, Ortonville

B.S.B. '76, University of Minnesota. Major: Business
Administration. Major Adviser: Prof. J.C.
Anderson. July Graduate.

Gary Leroy Olson, St. Paul

B.A. '69, Augsburg College. Major: Business Ad-
ministration. Major Adviser: Prof. R.B. Upson.
July Graduate.

Pamela Faith Olson, Farmington

B.A. magna cum laude '76, University of Minne-
sota. Major: Business Administration. Major Ad-
viser: Prof. A.F. Whitman. July Graduate.

Thomas Roger Ormand, Rochester

B.S.B. with distinction '83, University of Minne-
sota. Major: Business Administration. Major Ad-
viser: Prof. N.L. Chervany. July Graduate.

James Roland Parker, Shawano,

Wis.

B.B.A. '77, University of Wisconsin, Madison.
Major: Business Administration. Major Adviser:
Prof. N.L. Chervany. July Graduate.

Sabine Philippe, France

Lic. '79, Universite de Paris X Nanterre; Mait. '80,
DEA '81, Universite de Paris I-Sorbonne. Major:
Business Administration. Major Adviser: Prof.
R.B. Upson. July Graduate.

Jeffrey J. Prohofskey, St. Louis Park

B.A. '82, Carleton College. Major: Business Ad-
ministration. Major Adviser: Prof. N.L. Chervany.
July Graduate.

Cynthia Ann Prust, Abrams, Wis.

B.B.A. magna cum laude '82, St. Norbert College.
Major: Business Administration. Major Adviser:
Prof. N.L. Chervany. August Graduate.

Catherine M. Sloyan Quealy,

Plymouth

B.A. '75, College of St. Catherine. Major: Business
Administration. Major Adviser: Prof. R.B. Upson.
August Graduate.

W.G. Ted Roberts, Jr.

B.S.B. '80, University of Minnesota. Major: Business
Administration. Major Adviser: Prof. R.B.
Upson. August Graduate.

Deborah Irene Rubbelke, St. Paul

B.S. '80, Marquette University. Major: Business
Administration. Major Adviser: Prof. R.B. Upson.
August Graduate.

Linda Divilbiss Rux, Minneapolis

B.S. with distinction '77, Purdue University. Major:
Business Administration. Major Adviser: Prof.
R.B. Upson. July Graduate.

Randall Lee Schiestl, Brooklyn Park

B.M.E. with high distinction '77, University of
Minnesota. Major: Business Administration. Major
Adviser: Prof. R.B. Upson. July Graduate.

David Peter Sell, Delano

B.A. cum laude '71, M.A. '77, University of Minne-
sota. Major: Business Administration. Major Ad-
viser: Prof. R.B. Upson. July Graduate.

James Christopher Sergeant,
Minneapolis
B.S. '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Keith Leon Shannon, Oakdale
B.S.E. '76, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

Paul Brink Sisler, Roseville
B.S.E. with distinction '82, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Martin Andrew Speltz, Minneapolis
B.S.B. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Marilyn Anne Underwood, San
Carlos, Calif.
B.A. '72, University of California, Santa Barbara. Major: Business Administration. Major Adviser: Prof. R.B. Upson. August Graduate.

Steven Willard Virnig, Morris
B.A. with distinction '80, University of Minnesota, Morris. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Mary Lee Ward, Robbinsdale
B.S. cum laude '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. July Graduate.

Stephan Lee Zinn, Mound
B.S. '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. July Graduate.

Master of Business Administration

UNIVERSITY OF MINNESOTA, DULUTH

Samuel Christian Allotey, Ghana
B.S. with honors '78, University of Ghana. Major: Business Administration. Major Adviser: Prof. H.K. Kim. July Graduate.

Chandrasekaran Subramaniam,
Malaysia
B.S. with honors '79, University of Malaya. Major: Business Administration. Major Adviser: Prof. J.M. Peterson. July Graduate.

Master of Business Taxation

Loubelle Margarita Davenport,
Minneapolis
B.S.B. with high distinction '73, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. July Graduate.

Gary A. Derfus, Green Bay, Wis.
B.B.A. '81, University of Wisconsin, Madison. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. July Graduate.

Mary Jo Johnson, Minneapolis
B.S.B. '78, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. July Graduate.

Mark A. Schneibel, Minneapolis
B.S.B. '79, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. July Graduate.

Dennis Floyd Weible, Winslow,
Ariz.
B.S.B.A. '68, University of Arizona. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. July Graduate.

Master of Fine Arts

Linda Ann Cameron, Paynesville
B.A. cum laude '78, Gustavus Adolphus College. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. J.A. Montgomery. July Graduate.

Sarah Marie Eschweiler, Fergus
Falls
B.A. '80, Lawrence University. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. Barbara Reid. July Graduate.

Steve Douglas Estenson, Fergus
Falls
B.S. magna cum laude '69, Bemidji State University. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. Barbara Reid. July Graduate.

Jennifer Mary Hecker, Ill.
B.F.A. with honors '80, University of Illinois. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. S.M. Lucey. July Graduate.

John Martin Hicks, Bloomington,
Ind.

B.F.A. '82, Drake University. Major: Studio Arts.
Minor: Art History. Major Adviser: Prof. T.A.
Rose. July Graduate.

Mark Edward Krause, St. Paul

B.A. '70, Concordia College. Major: Music. Minor:
Music Education. Major Adviser: Prof. T.S.
Lancaster. July Graduate.

Peter John Lommen, St. Paul

B.F.A. '79, University of Minnesota. Major: Studio
Arts. Minor: Related Fields. Major Adviser: Prof.
David Feinberg. July Graduate.

Gary Hugh MacDonald, La Crosse,
Wis.

B.F.A. '75, M.A. '79, Wayne State University.
Major: Studio Arts. Minor: Related Fields. Major
Adviser: Prof. G.L. Hallman. July Graduate.

Carol Brixius McNamara,
Minneapolis

B.M.Ed. magna cum laude '66, Viterbo College.
Major: Music. Minor: Related Fields. Major Ad-
viser: Prof. D.R. McNab. July Graduate.

Michael C. Riley, N.Y.

B.S. '79, Nazareth College of Rochester. Major:
Studio Arts. Minor: Related Fields. Major Adviser:
Prof. C.C. Hoard. July Graduate.

Juliana Schmidt, Wis.

B.M. '77, Lawrence University. Major: Music.
Minor: Related Fields. Major Adviser: Prof. D.C.
Ware. August Graduate.

Master of Forestry

Dague Byron Clark, Wayzata

B.S. '72, University of Minnesota. Major: Forestry.
Minor: Related Fields. Major Adviser: Prof. Vilis
Kurmis. July Graduate.

Master of Metallurgy and Materials Science

Royce Layne Richter, Windom

B.A. '82, University of Minnesota. Major: Metal-
lurgy and Materials Science. Minor: Related
Fields. Project: High Temperature Aluminum Ox-
ide Formation in $H_2-H_2O-H_2S$ Gaseous Envi-
ronments. Major Adviser: Prof. T.T. Huang. July
Graduate.

Master of Music

Dawn Helene Paulson, McIntosh

B.M. summa cum laude '81, University of North
Dakota. Major: Music. Major Adviser: Prof. P.W.
Freed. July Graduate.

Master of Planning

Nancy Ann Edwardson, Richfield

B.A. magna cum laude '75, Augsburg College.
Major: Planning. Major Adviser: Prof. R.C.
Einsweiler. July Graduate.

Daniel Rogness, Casper, Wyo.

B.A. cum laude '79, Augustana College. Major:
Planning. Major Adviser: Prof. R.C. Einsweiler.
July Graduate.

Tod Neil Tappert, Detroit, Mich.

B.C.S. with distinction '79, University of Michi-
gan. Major: Planning. Major Adviser: Prof. J.M.
Bryson. July Graduate.

Master of Science

Byron Andrew Adams, Shoreview
B.S. '80, University of Minnesota. Major: Soil Science. Minor: Statistics. Thesis: Comparison of Subsoil Fertility for Three Soil Mapping Units and Their Associated Taxonomic Units To Determine Effects on Crop Productivity. Major Adviser: Prof. J.L. Anderson. August Graduate.

**Charles Lester Armstrong,
Washington, Ill.**

B.S. with highest honors '81, University of Illinois. Major: Plant Breeding. Minor: Related Fields. Thesis: Genetic and Environmental Factors Affecting the Initiation of Friable Maize Callus Capable of Somatic Embryogenesis. Major Adviser: Prof. C.E. Green. July Graduate.

Mohammed Badri, Damascus, Syria

B.S. '75, Damascus University. Major: Geophysics. Minor: Related Fields. Major Adviser: Prof. H.M. Mooney. August Graduate.

Thomas Kimberly Baird, Lino Lakes

B.S. '76, South Dakota State University. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. R.M. Giese. July Graduate.

**Sarah Louise Bardenwerper,
Minneapolis**

B.S. with distinction '75, University of Virginia. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. D.K. Kjervik. July Graduate.

**Sharon Anne Barman, Lafayette,
Ind.**

B.S. '82, Purdue University. Major: Physics. Minor: Internal. Thesis: High Pressure Gas Expansion System. Major Adviser: Prof. Konrad Mauersberger. July Graduate.

**John Alpheus Bartholow, Belle
Plaine**

B.A. '79, University of Nebraska. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. Donald Vesley. July Graduate.

Indre Julija Bildusas, St. Paul

B.S. '80, University of Minnesota. Major: Plant Pathology. Minor: Related Fields. Thesis: Growth and Water Relations of *Bromus inermis* as Influenced by Vesicular-Arbuscular Mycorrhizae, Potassium Nutrition, and Drought Stress in Two Soil Types. Major Advisers: Profs. E.L. Stewart and F.L. Pflieger. July Graduate.

Geza Andras Bodor, Romania

Dipl. '66, Polytechnical Institute of Cluj. Major: Mineral Engineering. Minor: Related Fields. Major Adviser: Prof. J.J. Moore. August Graduate.

Roger Eugene Brannian, Iowa

D.V.M. '72, Iowa State University. Major: Veterinary Medicine. Minor: Related Fields. Thesis: A Technique for the Surgical Sexing of Monomorphic Turtles. Major Adviser: Prof. R.T. Farnsworth. August Graduate.

Robert Ray Brown, Winona

B.S. summa cum laude '54, St. Mary's College. Major: Computer and Information Sciences. Minor: Mathematics. Major Adviser: Prof. W.D. Mumro. July Graduate.

**Shew-Jih Yen Chen, Republic of
China**

B.S. '77, National Central University, Taiwan. Major: Biometry and Health Information Systems. Minor: Related Fields. Major Adviser: Prof. E.A. Johnson. July Graduate.

James Peter Coffey, Minneapolis

B.S. magna cum laude '77, University of Minnesota, Duluth; D.D.S. '82, University of Minnesota. Major: Dentistry. Minor: Related Fields. Thesis: An in Vitro Study of the Wear Characteristics of Natural and Prosthetic Teeth. Major Adviser: Prof. R.J. Goodkind. August Graduate.

Lon A. Couillard, Eau Claire, Wis.

B.S.E.P.H. magna cum laude '76, University of Wisconsin, Eau Claire. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. R.D. Singer. August Graduate.

Sally Jean Couser, St. Paul

B.A. cum laude '76, Gustavus Adolphus College. Major: Public Health. Minor: Related Fields. Major Adviser: Prof. E.C. Pflug. July Graduate.

Judy Lynn Crane, Ames, Iowa

B.S. with distinction '81, Iowa State University of Science and Technology. Major: Ecology. Minor: Related Fields. Thesis: Effects of Toxaphene on Gross Productivity in Lake Superior. Major Adviser: Prof. D.C. McNaught. July Graduate.

**Richard Henry Crook III, Toledo,
Ohio**

B.A. magna cum laude '82, Kenyon College. Major: Physics. Minor: Electrical Engineering. Thesis: Magnetoresistance Studies of Amorphous Alloys. Major Adviser: Prof. E.D. Dahlberg. July Graduate.

Kathryn Helen Davis, Minneapolis

B.S.N. magna cum laude '79, Northern Michigan University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.A. Corcoran. July Graduate.

Lynn Marie Decker, Minneapolis

B.S. '82, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. July Graduate.

William Paul Doley, Pa.

B.S. with high distinction '81, Pennsylvania State University. Major: Plant Breeding. Minor: Related Fields. Thesis: Allometric Relationships in Spring Barley (*Hordeum vulgare L.*) Major Adviser: Prof. D.C. Rasmusson. July Graduate.

Jonathan Ray Eckenrode, Cresson, Pa.

B.S. '76, Pennsylvania State University. Major: Animal Science. Minor: Related Fields. Major Adviser: Prof. W.E. Rempel. August Graduate.

Sylvester Nwabuzor Ekpenuma, Nigeria

B.S. '79, University of Benin. Major: Physics. Minor: Related Fields. Major Adviser: Prof. E.D. Dahlberg. July Graduate.

Alan Wallace Erdahl, Hopkins

B.S. '78, University of Minnesota. Major: Animal Science. Minor: Related Fields. Major Adviser: Prof. E.F. Graham. July Graduate.

Robert Eric Erlandson, Richfield

B.A. magna cum laude '82, Augsburg College. Major: Physics. Minor: Related Fields. Thesis: Design and Test of a Plasma Beam for Space Plasma Studies. Major Adviser: Prof. L.J. Cahill, Jr. July Graduate.

Sheila Patricia Fargen-Hurley, Sioux Falls, S.D.

B.S. '71, South Dakota State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. A.M. Sime. July Graduate.

Jerry Joseph Farlee, Eagan

B.S. Pharm. '76, University of Nebraska. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. R.L. Broekmeier. July Graduate.

Carol Jean Fier, Minneapolis

B.A. '79, College of St. Catherine. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Patricia Crisham. July Graduate.

Thomas Stephen Flynn, Edina

B.S. '81, St. John's University. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. O.R. Ruschmeyer. July Graduate.

Joseph E. Fruland, Morris, Ill.

B.S. '80, Illinois State University. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. R.D. Singer. July Graduate.

Keith Owen Fuglie

B.A. '82, Concordia College. Major: Agricultural Economics. Minor: Related Fields. Major Adviser: Prof. D.E. Welsch. August Graduate.

Hiroshi Fujisawa, Kyoto, Japan

B.A. '82, University of Minnesota. Major: Physics. Minor: Related Fields. Thesis: Design and Operation of a Polarimeter Used in the Measurement of the Spin Correlation Parameter, Ann for Proton-Proton Scattering. Major Adviser: Prof. N.M. Hintz. July Graduate.

Karen Susan Goedken, Minneapolis

B.A. with honors '70, B.S. '70, University of Iowa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.

Jeanne Margaret Grout, San Francisco, Calif.

B.A. magna cum laude '82, Mount Holyoke College. Major: Horticulture. Minor: Plant Physiology. Thesis: Influence of Propagation Method on the Growth Habit and Propagability of "North-blue" Half-High Blueberry. Major Adviser: Prof. P.E. Read. July Graduate.

Steven Joseph Guldán, Rochester, N.Y.

B.S. magna cum laude '81, Mankato State University. Major: Agronomy. Minor: Related Fields. Thesis: Relationship of Cotyledon Cell Number to Seed Growth in Soybean. Major Adviser: Prof. W.A. Brun. July Graduate.

Janice Marie Hagen, East Grand Forks

B.S. with honors '81, North Dakota State University. Major: Nutrition. Minor: Related Fields. Major Adviser: Prof. E.H. Asp. August Graduate.

Linda Rae Hanninen

B.A. '79, Gustavus Adolphus College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.

Holly Jean Hartloff, Hamburg, N.Y.

B.S. summa cum laude '82, State University of New York College at Oswego. Major: Plant Breeding. Minor: Related Fields. Thesis: Altered Expression of Male Fertility and Disease Resistance in Maize Plants Regenerated from Tissue Cultures. Major Adviser: Prof. B.G. Gengenbach. August Graduate.

Jeffrey Scott Haugen, Owatonna

B.A. '82, Gustavus Adolphus College. Major: Agronomy. Minor: Related Fields. Major Adviser: Prof. R.K. Crookston. July Graduate.

Elizabeth Teresa Hawkins, Minneapolis

B.A. cum laude '80, College of St. Thomas. Major: Environmental Health. Minor: Epidemiology. Major Adviser: Prof. J.B. Stevens. July Graduate.

Craig William Hedberg, St. Paul
B.S. '76, University of Connecticut. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. O.R. Ruschmeyer. July Graduate.

Margaret Joy Hegge, Volga, S.D.
B.A. magna cum laude '69, Gustavus Adolphus College; M.Ed. '72, South Dakota State University. Major: Nursing. Minor: Related Fields. Thesis: Components of Professional Role Conception of Registered Nurse Students in a Baccalaureate Program. Major Adviser: Prof. Jean Kintgen-Andrews. July Graduate.

James Paul Held, Minneapolis
B.C.E. with distinction '72, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Eugene Ackerman. July Graduate.

**Chih-Hsiang Derek Ho, Keelung,
Republic of China**
B.S. '75, National Central University; M.S. '81, Highlands University. Major: Statistics. Minor: Mathematics. Major Adviser: Prof. W.D. Sudderth. July Graduate.

**Jorge Augusto Holmberg, Santiago,
Chile**
Ing.For. '75, Universidad Austral de Chile. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. H.M. Gregersen. August Graduate.

**Sergio Joaquin Jimenez-Sandoval,
Mexico, Mexico**
Lic. '82, National Polytechnic Institute. Major: Physics. Minor: Related Fields. Major Adviser: Prof. E.D. Dahlberg. July Graduate.

Bradley Scott Jones, Coon Rapids
B.S. '82, University of Minnesota. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. A.A. Ahn. July Graduate.

**Kathleen M. Kalb, Ogdensburg,
N.Y.**
B.A. '74, State University of New York at Potsdam. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.

**Susan Lynn Kalvonjian, Kenosha,
Wis.**
B.S. '77, University of Wisconsin, Madison. Major: Genetics. Minor: Related Fields. Thesis: Cytogenetic Analysis of Phagocytic and Non-Phagocytic Murine Macrophage-Like Cell Lines Derived from a Balb/c Reticulum Cell Sarcoma. Major Adviser: Prof. R.A. King. July Graduate.

Joseph Karwatka
B.S. '75, Morehead State University. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. R.D. Singer. July Graduate.

Scott Douglas Kennedy, Minneapolis
B.A. '81, University of Minnesota. Major: Biophysical Sciences. Minor: Related Fields. Thesis: Applications of Nuclear Magnetic Relaxation Dispersion to Understanding Solution Dynamics of Aquoions and Deoxyribonucleic Acid-Ion Interactions. Major Adviser: Prof. R.G. Bryant. August Graduate.

**Mark Joseph Krupp, San Diego,
Calif.**
B.A. cum laude '76, University of Minnesota, Duluth. Major: Dentistry. Minor: Related Fields. Thesis: The Effectiveness of a Salt and Peroxide Regimen on Cultivable Bacteria That Have Previously Demonstrated an Association with Periodontal Disease. Major Adviser: Prof. B.L. Pihlstrom. July Graduate.

Jean Carol Kunz, St. Paul
B.A. '80, College of St. Catherine. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.

Keith James Leavell, St. Paul
B.Ch.E. '79, University of Minnesota. Major: Biophysical Sciences. Minor: Related Fields. Major Adviser: Prof. S.M. Finkelstein. August Graduate.

Gregory Gayle Lecy, Echo
B.S. with high distinction '80, D.D.S. '82, University of Minnesota. Major: Dentistry. Minor: Related Fields. Thesis: A Comparison of Dual and Single Phase Adhesive Systems in Orthodontic Bonding on Human Teeth. Major Adviser: Prof. R.R. Bevis. July Graduate.

**Patricia Marie LeRoux, Superior,
Wis.**
B.A. cum laude '75, College of St. Scholastica. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.

**Harlan Herman Lewandowski,
Minneapolis**
B.S. '79, Arizona State University. Major: Physics. Minor: Related Fields. Thesis: The Effect of Channel Coupling on the Fusion of Heavy Nuclei. Major Adviser: Prof. B.F. Bayman. July Graduate.

Yueh-Chuan Lien, Taiwan
B.S. '79, National Taiwan Normal University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. August Graduate.

Jau-Shin Lou, Taiwan
M.B. '79, National Taiwan University. Major: Physiology. Minor: Related Fields. Major Adviser: Prof. J.R. Bloedel. August Graduate.

Jeffrey Caldwell Mabry, Enid, Okla.
B.A. with distinction '76, D.D.S. '80, University of Oklahoma. Major: Dentistry. Minor: Related Fields. Thesis: Improper Use of the Nursing Bottle in the Etiology of Dental Caries and Otitis Media. Major Adviser: Prof. L.B. Messer. July Graduate.

Paulo Cesar Magalhaes, Lavras,
Brasil

Eng. Agron. '75, Escola Superior de Agricultura de Lavras; Mag. '78, Universidade Federal de Vicosa. Major: Agronomy. Minor: Related Fields. Thesis: Effects of Assimilate Enhancement on Grain Filling and Carbohydrate and Nitrogen Partitioning in Maize. Major Adviser: Prof. R.J. Jones. August Graduate.

John Maniatis, Athens, Greece

D.V.M. '77, Aristotelian University of Salonika. Major: Veterinary Microbiology. Minor: Related Fields. Major Adviser: Prof. B.S. Pomeroy. August Graduate.

Terry Lee Martinson, Hallock

B.Phys. '76, University of Minnesota. Major: Physics. Minor: Related Fields. Major Adviser: Prof. S.G. Gasiorowicz. July Graduate.

Patricia Dean McGavran,
Minneapolis

B.S. '82, University of Minnesota. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. J.B. Stevens. August Graduate.

Thomas Neal Meister, St. Croix
Falls, Wis.

B.S. with honor '75, North Dakota State University. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. H.F. Kabat. July Graduate.

Sheryl Ann Middlemis, Somerset,
Wis.

B.S. with distinction '75, University of Minnesota. Major: Fisheries. Minor: Statistics. Thesis: A Description of *Catostomus Catostomus* and *Catostomus Commersoni* Spawning Adults and Early Life History in Selected Minnesota Tributaries of Lake Superior. Major Adviser: Prof. G.R. Spangler. July Graduate.

Marla Mae Mills, St. Paul

B.S.N. '79, St. Olaf College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. E.C. Egan. July Graduate.

Robert Dennis Mitchell, Burnsville

B.S. '75, University of Minnesota. Major: Genetics. Minor: Related Fields. Major Adviser: Prof. V.E. Anderson. August Graduate.

Lonn Andre Moe, Springfield

B.Agr.Ed. '81, University of Minnesota. Major: Agricultural Economics. Minor: Related Fields. Major Adviser: Prof. J.L. Thompson. August Graduate.

Melanie Marie Mundt, Milwaukee,
Wis.

B.A. magna cum laude '81, Luther College. Major: Nursing. Minor: Related Fields. Thesis: A Descriptive Study of Intensive Care Unit Staff Nurses' Perceptions of Stress in Their Environment. Major Adviser: Prof. S.R. Edwardson. August Graduate.

Hilary Alison Neckles, Brewster,
N.Y.

B.S. cum laude '80, University of Massachusetts, Amherst. Major: Wildlife. Minor: Related Fields. Thesis: Plant and Macroinvertebrate Responses to Water Regime in a Whitetop Marsh. Major Adviser: Prof. J.A. Cooper. July Graduate.

DorisAnn Virginia Nelson, Dodge
Center

B.S. cum laude '66, St. Olaf College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. August Graduate.

David Lee Nicholls, Newark, Del.

B.S. '82, Oregon State University. Major: Forestry. Minor: Industrial Engineering. Major Adviser: Prof. J.L. Bowyer. July Graduate.

Nancy Anne Nickman, Helena,
Mont.

B.S. '82, University of Montana. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. J.D. Herrick. July Graduate.

Mary Ann Olson

B.A. '74, College of St. Catherine. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. D.K. Kjervik. August Graduate.

Karen Lee Osborne, Rochester

B.A. magna cum laude '82, Winona State University. Major: Nursing. Minor: Related Fields. Thesis: Nurses' Self-Disclosure: Relationship to Demographic Variables in Nurses and In-Patients. Major Adviser: Prof. D.K. Kjervik. July Graduate.

Eric J. Panken

B.A. '78, Duke University. Major: Statistics. Minor: Mathematics. Major Adviser: Prof. M.L. Eaton. July Graduate.

Alexander Rechkin, Va.

B.M.E. '81, University of Minnesota. Major: Operations Research. Minor: Related Fields. Major Adviser: Prof. S.R. Arora. July Graduate.

- Sallie L. Rhodes, Wayzata**
B.S. cum laude '75, University of Wisconsin, Green Bay. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. O.R. Ruschmeyer. July Graduate.
- Chad Raymond Russell, Ogden, Utah**
B.S. '77, Weber State College. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: An Economic Study of Cropland Supply in Selected Minnesota Counties. Major Adviser: Prof. W.B. Smdquist. August Graduate.
- Fouzia Saeed, Pakistan**
B.H.E. '82, University of Minnesota. Major: Home Economics. Minor: Related Fields. Major Adviser: Prof. D.A. Ginthner. July Graduate.
- Soleiman Salhab, Syria**
B.S.Agr. '75, Damascus University. Major: Animal Science. Minor: Related Fields. Major Adviser: Prof. E.F. Graham. July Graduate.
- Gary Allen Sandahl, Minneapolis**
B.S. '82, University of Minnesota. Major: Horticulture. Minor: Related Fields. Thesis: Growth and Dormancy in *Cypripedium Reginae* Walt. Seedlings. Major Adviser: Prof. P.D. Ascher. July Graduate.
- Laura Mary Schickli, St. Paul**
B.A. cum laude '81, Carleton College. Major: Plant Pathology. Minor: Related Fields. Thesis: Early Infection Events of *Bipolaris Oryzae* on Wild Rice. Major Adviser: Prof. J.A. Percich. July Graduate.
- Peter Mathias Schmitt, Shakopee**
B.S. summa cum laude '79, University of Minnesota. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. O.R. Ruschmeyer. July Graduate.
- Hai-Tien Shen, Taipei, Republic of China**
B.S. '76, Soochow University. Major: Physics. Minor: Electrical Engineering. Thesis: The Use of Silicon Diode as Low Temperature Thermometry. Major Adviser: Prof. E.D. Dahlberg. July Graduate.
- Steven Thomas Sher**
B.S. with high honors '76, Rutgers University; B.S. '82, University of Oregon. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.V. Carlis. July Graduate.
- Harold Hubert Slater, Iowa**
B.A. '81, University of Iowa. Major: Plant Physiology. Minor: Related Fields. Major Adviser: Prof. R.K. Dixon. July Graduate.
- Spyridon Triantafyllos Spyropoulos, Athens, Greece**
Dipl. '77, National and Capodistrian University of Athens. Major: Dentistry. Minor: Related Fields. Thesis: Hand Files VS. Newly Designed Engine Driven Files: The Effect on the Final Preparation Shape of Severely Curved Root Canals. Major Adviser: Prof. M.E. ElDeeb. August Graduate.
- Donald Alan Stanwyck, Bolingbrook, Ill.**
B.S. with high scholarship '82, Oregon State University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. August Graduate.
- Douglas Evans Stewart**
B.S. '82, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.V. Carlis. August Graduate.
- Achmad Sudjana, Jakarta, Indonesia**
Sarj. '77, Bogor Agricultural University. Major: Plant Breeding. Minor: Related Fields. Thesis: Selection for Early Flowering in Maize Grown at Two Plant Densities. Major Adviser: Prof. J.L. Geadelmann. July Graduate.
- Kristie Lee Sward-Dunlap**
B.A. '77, College of St. Catherine. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. V.C. Gordon. August Graduate.
- Carol Ann Tetreault, Boston, Mass.**
B.A. '72, University of Hawaii. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.
- Francis Edward Thicke, La Crescent**
B.A. with honor '72, Winona State College. Major: Soil Science. Minor: Related Fields. Thesis: Nitrogen Mineralization Indexes of Soils with Incorporated Crop Residue. Major Adviser: Prof. M.P. Russelle. August Graduate.
- Rita Marie Turley**
B.A. '77, Carroll College. Major: Nursing. Minor: Related Fields. Thesis: Intensive Care Utilization. Major Adviser: Prof. S.R. Edwardson. July Graduate.
- Sharon M. Van den Berghe, Ghent**
B.S. cum laude '81, Southwest State University. Major: Chemistry. Minor: Related Fields. Thesis: Thermodynamic Control of Electron Transfer in D-Amino Acid Oxidase by Substrate Binding. Major Adviser: Prof. Marion Stankovich. July Graduate.
- Betty Ann Van Voorst, Minneapolis**
B.S.N. '76, University of Iowa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.S. Sodergren. July Graduate.

Robert Wayne Whitmyer, Elkart,
Ind.
B.S. '80, Ball State University. Major: Soil Science. Minor: Related Fields. Thesis: Influence of Silt and Clay on the Physical Performance of Sand-Soil Mixtures Used for Sports Turf Areas. Major Adviser: Prof. G.R. Blake. July Graduate.

Paul Jay Zambino, St. Peter
B.A. summa cum laude '78, Gustavus Adolphus College. Major: Plant Pathology. Minor: Plant Breeding. Thesis: Studies on the Resistance/Susceptibility of Potato Clones to Verticillium Wilt: The Relationship Between Host Colonization by Verticillium Species and Disease. Major Adviser: Prof. N.A. Anderson. July Graduate.

Thomas Robert Zeisler, Waukesha,
Wis.
B.S. '76, University of Wisconsin, Stevens Point. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. A.R. Ek. July Graduate.

Omar Abdel-Al Zidan, Cairo, Egypt
B.D.S. '72, Cairo University; D.D.S. '79, Al-Azhar University. Major: Dentistry. Minor: Related Fields. Thesis: Factors Affecting Precision of Bonded Restorations. Major Adviser: Prof. W.H. Douglas. July Graduate.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

William Ekow Ayetey, Apam,
Ghana
B.S. '82, University of Minnesota, Duluth. Major: Chemistry. Minor: Related Fields. Thesis: HPLC of Derivatized Amino Acids Using An Electrochemical Detector with Two Electrodes. Major Adviser: Prof. D.P. Poe. August Graduate.

Deborah Diane Berg, Babbitt
B.A. cum laude '82, University of Minnesota, Duluth. Major: Chemistry. Minor: Education. Major Adviser: Prof. Ronald Caple. August Graduate.

Shoaeallah Motamedi, Broujen, Iran
B.S. '74, University of Tehran. Major: Geology. Minor: Related Fields. Thesis: The Keweenawan Lavas in the City of Duluth, Minnesota. Major Adviser: Prof. J.C. Green. July Graduate.

Guy Thomas Nelson, Kendall, Wis.
B.S. '82, University of Wisconsin, Eau Claire. Major: Chemistry. Minor: Related Fields. Thesis: The Synthesis and Use of Polymeric Reagents for the Isolation of Electrophilic Compounds. Major Adviser: Prof. R.M. Carlson. August Graduate.

Barbara Riedel Sheedy, Cloquet
B.A. '80, College of St. Scholastica. Major: Biology. Minor: Chemistry. Thesis: The Fatty Acid and Carbohydrate Composition of Hagfish (*Eptatretus stouti*) Mucous. Major Adviser: Prof. W.L. Salo. August Graduate.

Master of Science in Aerospace Engineering

Frank Henry Stokes, Duluth
B.A.E. with distinction '83, University of Minnesota. Major: Aerospace Engineering. Minor: Mathematics. Major Adviser: Prof. W.L. Garrard. July Graduate.

Master of Science in Agricultural Engineering

Jane Margaret Rossing, Dekalb, Ill.
B.A. magna cum laude '79, St. Olaf College. Major: Agricultural Engineering. Minor: Related Fields. Major Adviser: Prof. C.L. Larson. July Graduate.

Antony Durai Susai, Minneapolis
B.S. '79, Tamil Nadu Agricultural University. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Power Requirements and Quality Changes for a Pneumatic Grain Conveying System. Major Adviser: Prof. R.J. Gustafson. July Graduate.

Master of Science in Chemical Engineering

Natalie Ruth Gruia, Lake Bluff, Ill.
B.S. '82, California Institute of Technology. Major: Chemical Engineering. Minor: Related Fields. Thesis: Transformations of Supported Molybdenum. Major Adviser: Prof. L.D. Schmidt. August Graduate.

Yien-Chi Liu, Republic of China
B.S. '79, National Taiwan University. Major: Chemical Engineering. Minor: Related Fields. Thesis: Morphology and Activity of MoO_x/TiO₂ Photo-Catalysts. Major Adviser: Prof. G.L. Griffin. July Graduate.

Masami Onoda, Japan
B.E. '75, M.E. '77, University of Tokyo. Major: Chemical Engineering. Minor: Related Fields. Thesis: Continuous Solidification of Cast Sheet: A Finite Element Analysis. Major Adviser: Prof. L.E. Scriven. July Graduate.

Master of Science in Civil Engineering

Javier Alfonso Arroyave, Antioquia, Colombia
Ing.Civ. '79, La Universidad de Medellin. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. Cesar Farell. July Graduate.

Bruce C. Braaten, Virginia
B.C.E. '80, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. C.E. Bowers. July Graduate.

Timothy John Holmquist, Braham
B.C.E. '82, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. Theodor Krauthammer. July Graduate.

John Raymond Houle, St. Paul
B.C.E. with high distinction '73, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Thesis: Automated Design of Reinforced Concrete Moment-Resisting Frames. Major Adviser: Prof. R.T. Leon. July Graduate.

Steven Curtis Larson, Rochester
B.C.E. with high distinction '82, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. T.V. Galambos. July Graduate.

Lewis Yok-Hoi Ng, Hong Kong
B.S. '80, University of Wisconsin, Platteville. Major: Civil Engineering. Minor: Related Fields. Thesis: Post-Tensioned Concrete Masonry Beams. Major Adviser: Prof. Ladislav Cerny. July Graduate.

Charles Scott Savard, Anchorage, Alaska
B.A. '76, University of Wisconsin, Milwaukee. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. C.E. Bowers. July Graduate.

Master of Science in Electrical Engineering

James Adair Andre, North Oaks
B.E.E. '82, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. J.A. Carruthers. August Graduate.

Meera Sudam Bakre, Bombay, India
M.S. '81, University of Bombay. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. J.E. Holte. July Graduate.

Carl Johan Dahlgren, Sala, Sweden
Civ.Ing. '83, Royal Institute of Technology. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. Narendra Mohan. August Graduate.

Shubha Govindachar, India
M.S. '81, University of Bombay. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. Rolf Schaumann. July Graduate.

Dagny Halldorsdottir, Kopavogur, Iceland
B.S. '82, Washington State University. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. K.S. Kumar. July Graduate.

Steve Orlin Hanson, Brooklyn Park
B.S.E.E. '78, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. Narendra Mohan. July Graduate.

Ronald David Schrimpf, Jr., Lake City
B.E.E. with distinction '81, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: A Feasibility Study of Devices for Three-Dimensional Integrated Circuits. Major Adviser: Prof. R.M. Warner. August Graduate.

Dennis Robert Schroepfer, Sleepy Eye
B.S.E. '77, South Dakota State University. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. H.M. Wechsler. July Graduate.

Bernard Joseph Sheehan
B.A. magna cum laude '78, Carleton College. Major: Electrical Engineering. Minor: Mathematics. Thesis: The Robustness of a Simple Piecewise-Constant Control. Major Adviser: Prof. K.S. Kumar. July Graduate.

Mark Ronald Sikkink, Gilbert
B.E.E. '80, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. A.A. Tuszynski. July Graduate.

Todd Charles Steeves
B.E.E. '80, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. L.L. Kinney. August Graduate.

Master of Science in Geo-Engineering

Joel P. McGlynn, Edina
B.Geo-E. '82, University of Minnesota. Major: Geo-Engineering. Minor: Related Fields. Major Adviser: Prof. S.L. Crouch. August Graduate.

Master of Science in Industrial Engineering

Mark Emery Johnson, Woodbury
B.M.E. '80, University of Minnesota. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Prof. P.J. Starr. July Graduate.

Master of Science in Mechanical Engineering

Ahmet Rifat Alp, Turkey
B.S.M.E. '79, Bogazici University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: An Experimental Investigation of Heat Transfer Rates and Pressure Drop in Channel Flows Under Frosting Conditions. Major Adviser: Prof. J.W. Ramsey. July Graduate.

Clay Kyle Carlson, Livonia, Mich.
B.S.M.E. with high honor '81, Michigan Technological University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Natural Convection from a Uniformly Heated Horizontal Surface Shrouded Above by a Parallel Equi-Dimension Plate. Major Adviser: Prof. E.M. Sparrow. July Graduate.

Hyunsoo Chang, Daejeon, Korea
B.E. '75, Ulsan Institute of Technology. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Prof. P.H. Murry. August Graduate.

Yutaka Ohkubo, Yokohama, Japan
B.S.E.E. '82, Tokyo Institute of Technology. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Freezing in a Vertical Tube. Major Adviser: Prof. E.M. Sparrow. July Graduate.

David Ridgway Otis, Jr., Madison, Wis.
B.S. with honors '82, University of Wisconsin, Madison. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Heat Transfer at the Smooth and the Block-Covered Walls of a Flat Rectangular Duct. Major Adviser: Prof. E.M. Sparrow. July Graduate.

Robert Daniel Palumbo, Superior, Wis.
B.S. '80, Valparaiso University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Techniques Used in an Attempt at Developing an Effusional Membrane To Be Used in a High Temperature Solar Process for Producing Hydrogen from Water or Hydrogen Sulfide. Major Adviser: Prof. E.A. Fletcher. August Graduate.

Steven Walfred Peterson, St. Cloud
B.A. cum laude '79, Macalester College. Major:
Mechanical Engineering. Minor: Biomedical Engi-
neering. Major Adviser: Prof. A.G. Erdman. Au-
gust Graduate.

Louis Gerard Reifschneider,
Belleville, Ill.
B.A. with honors '83, University of Notre Dame.
Major: Mechanical Engineering. Minor: Related
Fields. Thesis: Effect of InterBaffle Spacing on the
Heat Transfer and Pressure Drop in a Shell and
Tube Heat Exchanger. Major Adviser: Prof. E.M.
Sparrow. August Graduate.

Kent Roy Struble, St. Paul
B.M.E. with high distinction '76, University of
Minnesota. Major: Mechanical Engineering. Mi-
nor: Industrial Engineering. Thesis: Development
of a System To Analyze the Kinematics of Rowing.
Major Adviser: Prof. A.G. Erdman. July Graduate.

Jun Zhao, People's Republic of
China
Dipl.'82, Harbin Institute of Technology. Major:
Mechanical Engineering. Minor: Related Fields.
Major Advisers: Profs. Subbiah Ramalingham and
K.A. Stelson. July Graduate.

Master of Science in Mineral Engineering

Kurtis Lynn O'Bryan, Kyle, S.D.
B.S. '82, South Dakota School of Mines and Tech-
nology. Major: Mineral Engineering. Minor:
Chemical Engineering. Thesis: Grinding Control
and Optimization for a Taconite Concentrator.
Major Adviser: Prof. K.J. Reid. July Graduate.

Master of Science in Neurosurgery

MAYO GRADUATE SCHOOL OF MEDICINE

Hugh Gordon Deen, Jr., Auburn,
Ala.
B.S. '74, Massachusetts Institute of Technology;
M.D. '78, University of South Alabama. Major:
Neurosurgery. Minor: Related Fields. Thesis: The
Effect of Aspirin and Dipyridamole on Intravascu-
lar Thrombus Formation After Carotid Endarterec-
tomy in Dogs. Major Adviser: Prof. T.M. Sundt.
July Graduate.

Master of Science in Otolaryngology

MAYO GRADUATE SCHOOL OF MEDICINE

John Francis Pallanch, Minneapolis
B.A. summa cum laude '73, College of St. Thomas.
Major: Otolaryngology. Minor: Related Fields.
Thesis: A Microprocessor Based System for Study-
ing Nasal Airway Aerodynamics. Major Adviser:
Prof. E.B. Kern. July Graduate.

Master of Science in Psychiatry

MAYO GRADUATE SCHOOL OF MEDICINE

Juan Ramon De La Fuente, Mexico
City, Mexico
M.D. '76, La Universidad Nacional Autonoma de
Mexico. Major: Psychiatry. Minor: Related Fields.
Thesis: Psychoneuroendocrine Evaluation and a
Lithium Trial in Alcoholics. Major Adviser: Prof.
R.M. Morse. August Graduate.

Master of Social Work

Clinton Charles Berg, Minneapolis
B.S. '78, Weber State College. Major: Social Work.
Major Adviser: Prof. M.R. Cohn. July Graduate.

Thomas Edward King, St. Paul
B.A. '77, University of Minnesota. Major: Social
Work. Major Adviser: Prof. P.A. AuClaire. July
Graduate.

Kathy Lou Oosterbaan, Holland,
Mich.
B.A. '80, Michigan State University. Major: Social
Work. Major Adviser: Prof. Esther Wattenberg.
July Graduate.

Bruce C. Quarry, Jr., Richfield
B.S. '82, University of Minnesota. Major: Social
Work. Major Adviser: Prof. Annalee Stewart. July
Graduate.

Shirley Ann Rosenblum, St. Paul
B.S. with distinction '61, University of Minnesota.
Major: Social Work. Major Adviser: Prof. Annalee
Stewart. August Graduate.

Linda Gay Wilson, St. Paul
B.A. '72, University of Minnesota. Major: Social
Work. Major Adviser: Prof. G.S. Hoshino. August
Graduate.

Master of Social Work

UNIVERSITY OF MINNESOTA, DULUTH

Debra Rogers Baune, Velva, N.D.
B.S.W. cum laude '80, Moorhead State University.
Major: Social Work. Major Adviser: Prof. J.M.
Kramer. August Graduate.

Sybil Florence Coleman, Bath,
Canada
B.A. '64, Gordon College; M.Ed. '66, Salem State
College. Major: Social Work. Major Adviser: Prof.
R.E. Woehle. August Graduate.

Michael Douglas Erickson, Duluth
B.S.D. '77, University of Minnesota. Major: Social
Work. Major Adviser: Prof. R.E. Woehle. July
Graduate.

Carrie H. Holt
B.S. '81, University of Vermont. Major: Social
Work. Major Adviser: Prof. R.E. Woehle. August
Graduate.

John Anthony Korman, St. Cloud
B.A. '75, St. Cloud State College. Major: Social
Work. Major Adviser: Prof. W.K. Dodge. August
Graduate.

Nancy Adelle Pigman, Duluth
B.S.D. '81, University of Minnesota. Major: Social
Work. Major Adviser: Prof. J.M. Kramer. July
Graduate.

David John Sather
B.A. '80, St. Cloud State University. Major: Social
Work. Major Adviser: Prof. W.K. Dodge. August
Graduate.

Teresa Anne Smith
B.A. '80, University of Minnesota. Major: Social
Work. Major Adviser: Prof. J.M. Kramer. July
Graduate.

Mary Ann Standaert, Sioux Falls,
S.D.
B.A. '76, Mount Marty College. Major: Social
Work. Major Adviser: Prof. W.K. Dodge. August
Graduate.

Specialist Certificate in Education

Judith Ann Anderson, St. Paul
B.A. '68, College of St. Catherine. Field: General
Educational Administration. Major Adviser: Prof.
G.F. Alkire. July Graduate.

Paul E. Gasner, Coon Rapids
B.A. '66, St. Mary's College; M.S.Ed. '76, Wiscon-
sin State Univeristy, River Falls. Field: Secondary
School Administratrn. Major Adviser: Prof. N.C.
Nickerson. July Graduate.

Ralph Lee Vurne Rickgarn,
Minneapolis
B.A. cum laude '60, M.A. '64, M.A. '81, University
of Minnesota. Field: Counseling. Major Adviser:
Prof. M.L. Snoke. July Graduate.

Rodney Lee Snyder, Brooklyn
Center
B.A. '58, Colorado State College of Education;
M.A. '67, Iowa State Teachers College. Field:
Secondary School Administration. Major Adviser:
Prof. W.M. Ammentorp. August Graduate.

Summer

34

Fall Candidates for Degrees

This section lists students who applied for graduation in fall quarter 1984. 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

George Douglas Halonen, Cokato
B.S. high honors '75, St. Cloud State College.
Major: Vocational Education. Minor: Supporting
Program. Project: The Feasibility of Delivering of
Instruction Via Telecommunications in and around
Hutchinson, Minnesota. Major Adviser: Prof.
D.C. Bjorkquist. Graduation Pending.

Robert Roy Rudolph, St. Paul
B.A. '65, Macalester College; M.A. '69, Spec.
Cert. '71, College of St. Thomas. Major: Education
Administration. Minor: Supporting Program. Proj-
ect: Mounds View Middle School: A Comparison
Study of Sixth Graders' Achievement, Attitudes
and Attendance at Bel Air Elementary and The
New Highview Middle School. Major Adviser:
Prof. N.C. Nickerson. Graduation Pending.

Doctor of Musical Arts

Dale Allen White
B.M. '73, Maryville College; M.M. '75, Yale Uni-
versity. Major: Music. Minor: Supporting Pro-
gram. Major Adviser: Prof. D.B. Baldwin. October
Graduate.

Doctor of Philosophy

Hayder Badri Abboud, Baghdad,
Iraq
B.V.S. '74, University of Baghdad. Major: Veteri-
nary Medicine. Minor: Supporting Program. The-
sis: Studies on the Susceptibility of Antibiotic-
Exposed Pasteurella Multocida to Phagocytosis and
Killing by Bovine Polymorphonuclear Leukocytes.
Major Adviser: Prof. V.L. Larson. Graduation
Pending.

Douglas Brian Adolf, Minneapolis
B.S.Ch.E. '78, M.S. '78, Northwestern University.
Major: Chemical Engineering. Minor: Supporting
Program. Thesis: Dynamics of Polymers at Inter-
faces. Major Adviser: Prof. M.V. Tirrell. Septem-
ber Graduate.

Jose Maria Aizpurua
Lic. '77, Universidad Autonoma de Barcelona.
Major: Economics. Minor: Supporting Program.
Thesis: Coordination Equilibria in Oligopolistic
Environments. Major Adviser: Prof. J.S. Jordan.
Graduation Pending.

Barbara Christine Anderson,
Minneapolis
B.A. '68, Northwestern University; M.A. '72, Uni-
versity of Minnesota. Major: French. Minor: Eng-
lish. Thesis: The Enchanted Circle in Four Novels
by Julien Green. Major Adviser: Prof. A.A.
Renaud. Graduation Pending.

Janice Martha Anderson
B.S.N. with distinction '72, M.S. '74, University of
Minnesota. Major: Educational Administration.
Minor: Supporting Program. Thesis: The Behav-
ioral Content of the Work of the Minnesota School
Nurse. Major Adviser: Prof. V.D. Mueller. Gradu-
ation Pending.

Linda Marie Anderson, Minneapolis
B.A. summa cum laude '73, University of Minne-
sota. Major: English. Minor: Classics. Thesis: A
Kind of Wild Justice: Revenge as Theme and
Device in Shakespeare's Comedies. Major Adviser:
Prof. T.S. Clayton. Graduation Pending.

**Ali Ihsan Arol, Camlihemsin,
Turkey**

B.S.'77, Technical University of Istanbul; M.S.'82, University of Minnesota. Major: Mineral Engineering. Minor: Supporting Program. Thesis: The Effect of Clay Minerals on the Selective Flocculation of Iron Ores. Major Adviser: Prof. Iwao Iwasaki. Graduation Pending.

Mahmoud Azar, Iran

B.S.'73, Pahlavi University; M.A.'80, M.S.'83, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Development and Evaluation of a Certification Test for Farm Equipment Mechanics in the Area of Electrical Systems. Major Advisers: Profs. R.L. Peterson and W.F. Bear. Graduation Pending.

James William Baxter, Chicago, Ill.

B.A. cum laude '69, Saint Mary's College. Major: Educational Psychology. Minor: Supporting Program. Thesis: Evaluation of Client Utilization and Attrition at a Community Mental Health Center. Major Adviser: Prof. W.W. Welch. October Graduate.

Brian Gordon Bemmels, Fairfax

B.A. with distinction '78, University of Minnesota, Morris. Major: Industrial Relations. Minor: Supporting Program. Thesis: Managerial Efficiency, Unions, and Productivity: An Integrative Analysis of Productivity at Manufacturing Plants. Major Adviser: Prof. M.A. Zaidi. October Graduate.

**Karl Edward Bennett, Hockessin,
Del.**

B.S.E. with highest honors '76, Princeton University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Microemulsion Phase Behavior and Rheology. Major Advisers: Profs. H.T. Davis and L.E. Scriven. Graduation Pending.

Mark J. Benson, Monmouth, N.J.

B.A. cum laude '76, Drew University. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Achievement Attributions on Self-Evaluation, Motivation, and Anxiety: An in Vivo Analysis of Hockey Tryouts Among Elementary School Aged Children. Major Adviser: Prof. R.A. Weinberg. September Graduate.

William David Benton

B.A. magna cum laude '73, St. Olaf College. Major: Cell and Developmental Biology. Minor: Philosophy. Thesis: Sequence Organization of the Ribosomal RNA Genes of ZEA MAYS. Major Adviser: Prof. Irwin Rubenstein. Graduation Pending.

Tesfahun Berhe, Asmara, Eritrea

B.S.'77, M.S.'77, University of Wisconsin, Stout. Major: Vocational Education. Minor: Supporting Program. Thesis: Toward an Understanding of African Refugees' Educational, Occupational Background, Present Employment and Their Need of Vocational Education and Guidance in Minnesota. Major Adviser: Prof. D.C. Bjorkquist. Graduation Pending.

Mark Benedict Bilodeau, St. Paul

B.S.'72, United States Military Academy; M.S.'77, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Parameter Optimization of Resource Sharing Protocols. Major Adviser: Prof. W.R. Franta. September Graduate.

John Charles Blocher, St. Anthony

B.A. cum laude '76, M.S.'78, University of Minnesota, Duluth. Major: Food Science. Minor: Supporting Program. Thesis: Acid Inhibition of Spore Germination, Outgrowth and Growth of Clostridium Botulinum. Major Adviser: Prof. F.F. Busta. Graduation Pending.

Donald L. Bodenner, Duluth

B.A. cum laude '78, Harvard University. Major: Chemistry. Minor: Supporting Program. Thesis: The Lack of Interference Diethyldithiocarbamate on the Antitumor Mechanism of Cis-Diamminedichloroplatinum (II). Major Adviser: Prof. R.F. Borch. September Graduate.

Maria G. Boosalis, Minneapolis

B.S. with high distinction '74, University of Minnesota; M.P.H.'75, University of California, Berkeley. Major: Nutrition. Minor: Supporting Program. Thesis: Response of Visceral Proteins and Minerals to Acute and Chronic Stress. Major Advisers: Profs. C.J. McClain and P.B. Swan. Graduation Pending.

Mark Jansen Bouman, Chicago, Ill.

B.A. with high distinction '78, Valparaiso University; M.A.'81, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: City Lights and City Life: A Study of Technology and Urbanity. Major Adviser: Prof. Y.F. Tuan. September Graduate.

**Nancy Lee Brewster, Forest Park,
Ill.**

B.A.'76, Northwestern University; M.S.'78, University of California, Los Angeles. Major: Physics. Minor: Supporting Program. Thesis: The Propagation of Ultraheavy Cosmic Rays. Major Adviser: Prof. Phyllis Freier. Graduation Pending.

**Stephen David Brierley, Blackburn,
England**

B.S. with honors '77, The University of Warwick; M.S.E.E.'79, University of Minnesota. Major: Control Science and Dynamical Systems. Thesis: Stability and Stabilization of Generalized Linear Systems. Major Adviser: Prof. E.B. Lee. Graduation Pending.

David Marting Brings, St. Paul

B.A. '72, M.A. '74, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Loneliness, Perception of Control, and Health. Major Adviser: Prof. R.G. Loper. Graduation Pending.

Jeanne Grace Buckeye, Heron Lake

B.A. '71, St. Cloud State College; M.B.A. '82, University of Minnesota. Major: Business Administration. Minor: Psychology. Thesis: An Exploration of Entrepreneurs' Perceptions of the Personal Risks and Rewards of Starting a Business and How Those Perceptions Relate to the Firm's Performance. Major Adviser: Prof. A.K. Wickesberg. Graduation Pending.

Robert Matthew Caracciolo, New

York City, N.Y.

B.E. '79, The Cooper Union School of Engineering and Science. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Crystallographic Anisotropies of Surface Reactions on Nickel and Platinum. Major Adviser: Prof. L.D. Schmidt. October Graduate.

**Glenn Thomas Carroll, Youngstown,
Ohio**

B.S. '79, Ohio State University. Major: Chemistry. Minor: Supporting Program. Thesis: A Study of the Photochemically Induced Addition of Nucleophiles and Ketones to Bicyclo[1.1.0]Butanes. Major Adviser: Prof. P.G. Gassman. Graduation Pending.

Albert Loren Casalnuovo, San

Anselmo, Calif.

B.S. *summa cum laude* '80, University of Santa Clara. Major: Chemistry. Minor: Supporting Program. Thesis: Synthesis, Characterization and Reactivity of Mixed-Metal Ir/Au Clusters and Ir Complexes Containing the Ligand 1-(2'-pyridyl)-2-(diphenylphosphine) ethane, PN. Major Adviser: Prof. L.H. Pignolet. Graduation Pending.

Tzu-Hung Chen, Republic of China

B.Ed. '76, Taiwan Provincial College of Education; M.Sc. '78, National Taiwan Normal University. Major: Electrical Engineering. Minor: Supporting Program. Thesis: High Speed GaAs Device and Integrated Circuit Modelling and Simulation. Major Adviser: Prof. Michael Shur. October Graduate.

Youngsuk Cho, Korea

B.S. '80, Seoul National University. Major: Physics. Minor: Supporting Program. Thesis: Studies of Collision Processes in Gaseous Plasmas Produced in Rare Gas-Copper and Helium-Neon Mixtures. Major Adviser: Prof. H.J. Oskam. Graduation Pending.

Mary Catherine Daly, Roseville

B.S. '71, Western Michigan University; M.A. '75, Michigan State University. Major: Home Economics. Minor: Anthropology. Thesis: Kalabari Female Appearance and the Tradition of Iria. Major Adviser: Prof. J.B. Eicher. September Graduate.

**Martha Aguirre De Garcia, Bogota,
Columbia**

Lic. '73, Universidad de los Andes; M.S. '80, University of Minnesota. Major: Animal Physiology. Minor: Supporting Program. Thesis: Dialysis: A Method to Study Factors Affecting and Improving Survival of Frozen Bovine Spermatozoa. Major Adviser: Prof. E.F. Graham. Graduation Pending.

**John Raymond Deckop, Nashville,
Tenn.**

B.S. *magna cum laude* '75, State University of New York at Buffalo. Major: Industrial Relations. Minor: Supporting Program. Thesis: An Investigation of Chief Executive Officer Compensation. Major Adviser: Prof. T.A. Mahoney. October Graduate.

Norma Jean Dison

B.A. '52, Valparaiso University; M.A. '74, M.S. '79, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Common Recurrent Dilemmas Experienced by Baccalaureate Nursing Students. Major Adviser: Prof. J.R. Rest. Graduation Pending.

**Stefanie Ann Dojka, Battle Creek,
Mich.**

B.A. '66, Michigan State University; M.A. '81, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: Jane Austen's Novels: Patterns of Desire. Major Adviser: Prof. W.A. Madden. September Graduate.

Michael John Duane, Mankato

B.A. '72, Mankato State University; M.A. '75, M.A. '81, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: The Determinants of Bargaining Orientation for First-Level Grievance Representatives at Secondary Buildings in Minnesota. Major Advisers: Profs. D.A. Morgan and V.D. Mueller. September Graduate.

Rebecca Ann Eder, Dallas, Tex.

A.B. '77, Oberlin College. Major: Child Psychology. Minor: Supporting Program. Thesis: The Role of Memory Development in Children's and Adults' Concepts of Themselves and Familiar and Less-Familiar Other Persons. Major Adviser: Prof. M.A. Erlmutter. Graduation Pending.

Abdelmonem Abdelfattah

EldougDoug, Egypt

B.Sc. with first class honors '70, M.S.'75, Cairo University. Major: Geology. Minor: Supporting Program. Thesis: Petrology and Geochemistry of the Volcano-Sedimentary Glen Township Formation, Aitkin County, East-Central Minnesota : Implications for Gold Exploration. Major Adviser: Prof. P.W. Weiblen. Graduation Pending.

Richard Louis Elliott

B.S. magna cum laude '80, University of Connecticut. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Phosphoramidate Peptide Analogues as Inhibitors of Enkephalinase and Angiotensin-Converting Enzyme. Major Adviser: Prof. P.S. Portoghese. Graduation Pending.

Norman Eugene Elwood, Morton,

Ill.

B.S.'69, Michigan State University; M.S.'78, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: Heuristic Development of Stand Treatment Priorities: An Alternative to Mathematical Programming. Major Adviser: Prof. D.W. Rose. Graduation Pending.

Martha Farrell Erickson,

Minneapolis

B.S.'67, Iowa State University; M.A.'75, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Development Antecedents of Individual Differences in Compliance in Young Children. Major Adviser: Prof. Byron Egeland. October Graduate.

Susan Kay Etscheidt, Cedar Falls,

Iowa

B.A. with honors '73, M.A.Ed.'75, University of Northern Iowa. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparison of Cognitive, Cognitive-Behavioral and Behavioral Interventions in Reducing Classroom Aggressive Behavior. Major Adviser: Prof. R.H. Bruininks. Graduation Pending.

William Joseph Farkes, Burnsville

B.A.'63, St. John's University; M.A.'77, University of Minnesota. Major: Education. Minor: Educational Administration. Thesis: Affective Feedback Combined with Two Concepts Acquisition Strategies in a Computer-Based Instructional Lesson. Major Adviser: Prof. C.A. Carrier. Graduation Pending.

Mary Spencer Ford, Minneapolis

B.A. with distinction '73, Swarthmore College; M.S.'76, Yale University. Major: Ecology. Minor: Supporting Program. Thesis: The Influence of Lithology on Ecosystem Development in New England: A Comparative Palaeoecological Study. Major Adviser: Prof. Eville Gorham. Graduation Pending.

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. Graduation Pending.

Max LeRoy Fritzler, 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. Graduation Pending.

Steven Warren Gangestad,

Rochester

A.B. with distinction '78, Stanford University. Major: Psychology. Minor: Supporting Program. Thesis: On the Etiology of Individual Differences in Self-Monitoring and Expressive Self-Control: Testing the Case of Strong Genetic Influence. Major Adviser: Prof. Mark Snyder. Graduation Pending.

Timothy Corbally Gartland,

Poughkeepsie, N.Y.

B.A. cum laude '73, College of the Holy Cross. Major: Psychology. Minor: Supporting Program. Thesis: Individual Differences and Historical Trends in Work Values of Employed Adults. Major Adviser: Prof. M.D. Dunnette. September Graduate.

Kathleen Ann Gialluca, Minneapolis

B.S. magna cum laude '76, Bowling Green State University. Major: Psychology. Minor: Supporting Program. Thesis: Robustness of Univariate Change Measures Applied to Multidimensional Variables: A Monte Carlo Simulation. Major Adviser: Prof. D.J. Weiss. Graduation Pending.

Gregory Roy Giese, Milwaukee,

Wis.

B.A.'77, Wisconsin College-Conservatory; M.A.'80, University of Minnesota. Major: Music. Minor: Physics. Thesis: Timbre Dimensions for Musical Control. Major Adviser: Prof. E.N. Stokes. Graduation Pending.

Wayne M. Gineo, St. Paul

B.S. cum laude '74, University of New Hampshire; M.S.'81, University of Connecticut. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: Agricultural Income Insurance: A Policy Alternative. Major Adviser: Prof. J.P. Houck. September Graduate.

Alan Fenwick Goodell-Holmes,
Portsmouth, N.H.

B.A. summa cum laude '74, M.E. '75, University of New Hampshire. Major: Educational Psychology. Minor: Supporting Program. Thesis: Depression: An Initial Effort Toward Decompartmentalization. Major Adviser: Prof. W.F. Shaffer. Graduation Pending.

Charlotte Louise Grove, Pittsburgh,
Pa.

B.A. cum laude '76, Macalester College. Major: Metallurgy and Materials Science. Minor: Supporting Program. Thesis: Transformations in Molybdenum Catalysts: A Study of Morphology and Surface Composition. Major Adviser: Prof. L.D. Schmidt. Graduation Pending.

Joseph Robert Guckert, Pittsburgh,
Pa.

B.S.Ch.E. with highest honors '79, University of Notre Dame. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Engineering Aspects of Infrared Multiphoton Chemistry. Major Adviser: Prof. R.W. Carr. Graduation Pending.

John Arthur Haarstad, Norwood

B.A. cum laude '68, Carleton College; M.S.'80, University of Minnesota. Major: Entomology. Minor: Ecology. Thesis: Ecological Relationships in Eight Species of Coexisting Burying Beetles (Coleoptera: Silphidae). Major Adviser: Prof. H.C. Chiang. Graduation Pending.

Gerald Thomas Hadd, St. Paul

B.S.'75, Brigham Young University; M.A.'81, University of Minnesota. Major: Family Social Science. Minor: Supporting Program. Thesis: A Study of Agreement and Convergence in Spouses' Responses to Survey Items in Family Research. Major Adviser: Prof. P.G. Boss. Graduation Pending.

John Charles Haggstrom, Rockford,
Ill.

B.A.'64, University of Wisconsin; M.A.'74, University of Texas at Austin. Major: Spanish. Minor: Supporting Program. Thesis: Negritude and Afro-Portuguese Poetry. Major Adviser: Prof. Russell Hamilton. Graduation Pending.

Jonathan Lee Haines, Schenectady,
N.Y.

A.B.'79, Colby College. Major: Genetics. Minor: Supporting Program. Thesis: The Genetics of Epilepsy: Studies of Human Plasma Amino Acids, Metal Ions, Haptoglobin, and Taurine Excretion. Major Adviser: Prof. V.E. Anderson. October Graduate.

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. Graduation Pending.

Jonathan Mark Hanft, Alexandria,
Va.

B.S.'79, Cornell University; M.S.'82, University of Minnesota. Major: Agronomy. Minor: Plant Physiology. Thesis: Kernel Abortion in Maize. Major Adviser: Prof. R.J. Jones. Graduation Pending.

Daniel Mark Hasenberg, North, Ill.

B.S. with high distinction '79, University of Illinois. Major: Chemical Engineering. Minor: Supporting Program. Thesis: HCN Synthesis on Polycrystalline Platinum and Rhodium. Major Adviser: Prof. L.D. Schmidt. Graduation Pending.

Frank L. Hassebrock, Mt. 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. Graduation Pending.

Darryl C. Hattenhauer, Sacramento,
Calif.

B.A.'71, M.A.'77, Sacramento State College. Major: American Studies. Thesis: 'Space and Place in Melville's The Piazza Tales.' Major Advisers: Profs. D.W. Noble and E.M. Griffin. Graduation Pending.

James Leroy Haynes, Maplewood

B.S. with distinction '58, Tennessee A and I State College; M.S.'64, University of Minnesota. Major: Psychology. Minor: Educational Psychology. Thesis: The Influence of Selected Item Characteristics and Group Differences in Analogy Test Performance. Major Adviser: Prof. R.V. Davis. September Graduate.

Mich Bradley Hein, Kent, Ohio

B.S. with honor '76, Ohio University; M.S.'80, University of Minnesota. Major: Plant Physiology. Minor: Supporting Program. Thesis: An Assessment of the Concentrations and Transport of Abscisic Acid and Indole-3-Acetic Acid in Relation to Reproductive Development of Soybean (Glycine Max). Major Adviser: Prof. M.L. Bremner. Graduation Pending.

Larry Dean Heinert, Mendota Heights

B.S. '77, M.A. '80, University of Minnesota. Major: Physical Education. Minor: Supporting Program. Thesis: The Effect of Stride-Length Variation on Oxygen Uptake During Level and Graded Treadmill Running. Major Adviser: Prof. R.C. Serfass. Graduation Pending.

Jacqueline Margaret Henkel, Minneapolis

B.A. high honors '76, St. Cloud State University; M.A. '84, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: Linguistic Metaphor and the Language of Criticism. Major Adviser: Prof. R.L. Brown. Graduation Pending.

Daryl Keith Hexum, Fergus Falls

B.S. with honor '80, North Dakota State University. Major: Plant Breeding. Minor: Supporting Program. Thesis: Evaluation of Visual SI Recurrent Selection for Early Vigor in Maize. Major Adviser: Prof. J.L. Gadelmann. September Graduate.

Darlene Gerke Hlidek, Minneapolis

B.S. '75, Wisconsin State University. Major: Education. Minor: Supporting Program. Thesis: Health Attitudes, Locus of Control, and Self-Concept of Adolescents at High Risk for Delinquency. Major Adviser: Prof. G.A. Stull. Graduation Pending.

Siu Chuen Ho, Hong Kong

B.Comm.Hon. '77, The University of Manitoba. Major: Statistics. Minor: Supporting Program. Thesis: Small Sample Inference for the Bingham Distribution. Major Adviser: Prof. Christopher Bingham. September Graduate.

Sandra Lynne Holbrook, Fargo, N.D.

B.A. '63, University of Oregon; M.S. '75, North Dakota State University. Major: Educational Administration. Minor: Supporting Program. Thesis: Faculty Academic Freedom and the Federal Appellate Courts: Legal Dimensions of a Professional Concept. Major Adviser: Prof. V.D. Mueller. Graduation Pending.

Renee Anita Holoien, Minneapolis

B.A. '75, M.A. '78, University of Minnesota. Major: South Asian Languages. Minor: Supporting Program. Thesis: Ancient Indian Dramatic Music and Aspects of Melodic Theory in Bharata's Natya Sastra. Major Adviser: Prof. R.V. Miranda. Graduation Pending.

David Mac Howard-Pitney, Shorwood, Ore.

B.A. '78, Oregon State University; M.A. '80, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Afro-American Jeremiahs: Black Thought and Leadership and American Civil Religion, 1850-1968. Major Adviser: Prof. D.W. Noble. October Graduate.

Robert Wayne Hutkins

B.S. '79, M.S. '80, University of Missouri. Major: Food Science. Minor: Supporting Program. Thesis: Carbohydrate Metabolism in *Streptococcus Thermophilus*. Major Adviser: Prof. H.A. Morris. September Graduate.

Jeffrey Lawrence Hylden, Minneapolis

B.A. '77, Saint John's University. Major: Chemical Physics. Minor: Supporting Program. Thesis: A Charge Flow Model for the Study of Infrared Intensities of Overtone and Combination Bands. Major Adviser: Prof. John Overend. September Graduate.

Robert William Jackman, Seattle, Wash.

B.S. '74, University of Minnesota. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Regenerating Endothelium in Vascular Organ Culture. Major Adviser: Prof. J.D. Sheridan. Graduation Pending.

Robert Dale Jacobsen, St. Paul

B.A. '69, M.A. '71, University of Minnesota. Major: Art History. Minor: Supporting Program. Thesis: Inlaid Bronzes of Pre-Imperial China: A Classic Tradition and Its Later Revivals. Major Adviser: Prof. R.J. Poor. September Graduate.

Gary Richard Janssen, Taunton

B.S. '76, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: Cell-Cell Interactions During Developmental Lysis of *Myxococcus Xanthus*. Major Adviser: Prof. Martin Dworkin. October Graduate.

Gary Gene Johnson, Minneapolis

B.A. *summa cum laude* '76, Western Michigan University; M.A. '77, University of Northern Colorado. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Prescriptive Approach to the Training of Group Counselors. Major Adviser: Prof. T.J. Hummel. October Graduate.

Thomas Lee Johnson

B.A. *magna cum laude* '74, St. Olaf College. Major: Psychology. Minor: Supporting Program. Thesis: Expertise in Cardiac Auscultation: Perception of Relative Intensities and Timing of Second Heart Sound Components. Major Adviser: Prof. P.E. Johnson. Graduation Pending.

Ralph F. Kalies, Appleton, Wis.

B.S. '75, University of Wisconsin, Madison. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: Quality and Efficiency in Drug Regimen Review: Contrasting Systematic and Traditional Approaches. Major Adviser: Prof. L.C. Weaver. Graduation Pending.

Michael Steven Kearney, St. Paul

B.S. '68, Northern Michigan University; M.S.W. '71, Wayne State University. Major: Family Social Science. Minor: Supporting Program. Thesis: A Comparative Study of Multiple Family Group Therapy and Individual Conjoint Family Therapy Within an Outpatient Community Chemical Dependency Treatment Program. Major Adviser: Prof. H.I. McCubbin. October Graduate.

James Lawrence Kilgore, Martinez, Calif.

B.S. '77, University of California, Berkeley. Major: Chemistry. Minor: Supporting Program. Thesis: Chemistry and Biochemistry of Dihydropyridines Approaches to the Synthesis of 3, 6-Dihydronicotinic Acid, a Putative Biosynthetic Precursor of the Major Tobacco Alkaloids. Major Adviser: Prof. Edward Leete. October Graduate.

Choon Kyung Kim, Korea

B.S.E. '74, Seoul National University; M.S. '81, The University of Iowa. Major: Electrical Engineering. Minor: Supporting Program. Thesis: An Automatic Chip Floor Planning System for VLSI Circuit Design. Major Adviser: Prof. E.B. Lee. September Graduate.

Ian Trevor King, Lincoln, England

B.S. honors '80, University of Hull. Major: Political Science. Minor: Supporting Program. Thesis: Marxism, Art and the Practice of Social and Political Inquiry. Major Adviser: Prof. T.W. Ball. October Graduate.

Gary Robert Klinefelter, Hanover, Pa.

B.S. '76, M.S. '79, The Pennsylvania State University. Major: Anatomy. Minor: Supporting Program. Thesis: Perfusion Organ Culture of Rat Caput Epididymal Tubules: Study of the Incorporation of Secreted Epididymal Protein by Cultured Sperm. Major Adviser: Prof. D.W. Hamilton. September Graduate.

Joseph Fiske Kobyłka, Dallas, Tex.

B.A. magna cum laude '78, Beloit College. Major: Political Science. Minor: Supporting Program. Thesis: Organizational Response to a Changing Litigation Environment: The Effect of Miller V. California on the Litigation Behavior of Organizations. Major Adviser: Prof. F.J. Soraul. Graduation Pending.

Beverly H. Koller, Ontario, Canada

B.Sc. with honors '80, University of Ottawa. Major: Pathobiology. Minor: Biochemistry. Thesis: The HLA-A Locus. Major Advisers: Profs. H.T. Orr and E.S. Benson. Graduation Pending.

Ruthanne Kurth-Schai, St. Paul

B.S. with high distinction '76, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Reflections From the Hearts and Minds of Children: A Delphi Study of Children's Personal, Global, and Spiritual Images of the Future. Major Adviser: Prof. A.M. Harkins. Graduation Pending.

Chul Hoon Kwon, Silver Spring, Md.

B.S. Pharm. cum laude '79, Howard University. Major: Medicinal Chemistry. Minor: Supporting Program. Thesis: Prodrugs of Cyanamide as Alcohol Deterrent Agents. Major Adviser: Prof. H.T. Nagasawa. September Graduate.

Valerie Klansek Kylo, Shakopee

B.S. Ed. '69, Northern Illinois University; M.A. '72, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Responses to Explicit and Implicit Requests for Message Clarification in Hard-of-Hearing and Hearing Children. Major Adviser: Prof. R.H. Bruiminks. Graduation Pending.

Richard Edgar Leahy, St. Paul

B.A. '75, M.A. '76, College of St. Thomas. Major: Educational Administration. Minor: Supporting Program. Thesis: Do Students of Teachers in the Archdiocese of St. Paul and Minneapolis with High Teacher Perceiver Interview Scores Have Significantly Higher Gains in Mathematics, Language Arts, and Reading Achievement? Major Advisers: Profs. Gary Alkire and William Ammentorp. Graduation Pending.

Katherine Margaret Leary, So. Weymouth, Mass.

A.B. with honors '74, Stonchill College; M.A. '78, Purdue University. Major: Comparative Literature. Thesis: The Poetics of Mimesis. Major Adviser: Prof. Wladyslaw Godzich. Graduation Pending.

Kaidee Edward Lee, Republic of China

B.S. '74, National Tsing Hua University. Major: Chemistry. Minor: Supporting Program. Thesis: The Photoionization of N,N,N',N'-Tetramethyl-p-Phenylenediamine (TMPD) in Nonpolar Liquids. Major Adviser: Prof. Sanford Lipsky. Graduation Pending.

Kang Woo Lee

B.S.E. '76, Seoul National University; M.S.E.E. '83, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Characterization, Modeling and Circuit Design of GaAs Mesfet's. Major Adviser: Prof. Michael Shur. Graduation Pending.

Yin-Won Lee

B.S.Ag. '74, M.S.Ag. '79, Seoul National University. Major: Plant Pathology. Minor: Supporting Program. Thesis: Characterization and Biological Activity of Mycotoxins from *Fusarium Roseum* "Graminearum". Major Adviser: Prof. C.J. Mirocha. October Graduate.

Craig Stanley Lent

B.A. '78, University of California, Berkeley. Major: Physics. Minor: Supporting Program. Thesis: Electron Diffraction from Surfaces with Atomic Steps. Major Advisers: Profs. A.M. Goldman and P.I. Cohen. October Graduate.

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. Graduation Pending.

Wei-Cheng Liaw, Taipei, Republic of China

B.S.Pharm. '77, National Taiwan University. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Diffusional Mass Transport of Water Soluble Antineoplastic Agents in Multiple Emulsions and Liposomes. Major Adviser: Prof. E.G. Rippie. Graduation Pending.

Bruce James Lind, Circle Pines

B.C.E. with distinction '73, B.E.E. '75, M.S.E.E. '78, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Radiation-Induced Cataphoretic Isotope Separation in He-Ne Discharges. Major Adviser: Prof. J.A. Carruthers. Graduation Pending.

Hongting Liu, People's Republic of China

Dipl. '52, Zhejiang University; Graduate Dipl. '65, Xian Institute of Metallurgy and Construction Engineering. Major: Civil Engineering. Minor: Supporting Program. Thesis: Experimental and Analytical Studies of Restrained Columns. Major Adviser: Prof. T.V. Galambos. September Graduate.

Ting Liu, Republic of China

B.S.Ag. '80, National Taiwan University. Major: Biochemistry. Minor: Supporting Program. Thesis: Degradation of Chlorinated Aromatic Compounds by Microorganisms. Major Adviser: Prof. P.J. Chapman. Graduation Pending.

Loren Jay Lorig, Edina

B.S.C.E. with high distinction '73, Valparaiso University; M.S. '75, University of Illinois. Major: Civil Engineering. Minor: Supporting Program. Thesis: A Hybrid Computational Model for Excavation and Support Design in Jointed Media. Major Adviser: Prof. P.A. Cundell. September Graduate.

Wu-Sheng Lu, People's Republic of China

Dipl. '64, Fudan University; M.S.E.E. '83, University of Minnesota. Major: Control Sciences and Dynamical Systems. Thesis: Simplification and Regulation of Generalized Linear Systems. Major Adviser: Prof. E.B. Lee. October Graduate.

Laurie Jo Lucking

B.A. magna cum laude '71, Moorhead State University; M.A. '73, University of Minnesota. Major: Anthropology. Minor: Supporting Program. Thesis: An Archaeological Investigation of Prehistoric Palauan Terraces. Major Adviser: Prof. O.E. Johnson. Graduation Pending.

Richard Gordon Lundquist, Cloquet

B.S. with high distinction '77, B.S. with distinction '77, University of Minnesota. Major: Animal Science. Minor: Supporting Program. Thesis: Methionine and Methionine Hydroxy Analog for Lactating Dairy Cattle. Major Adviser: Prof. D.E. Otterby. September Graduate.

Richard Lewis Lyke

B.A. '68, University of Wyoming. Major: Chemistry. Minor: Supporting Program. Thesis: Fluorescence Lifetimes of Saturated Hydrocarbons. Major Adviser: Prof. W.R. Ware. Graduation Pending.

Deanne L. Magnusson, Minnetonka

B.S. with distinction '59, M.A. '68, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: An Analysis of the Effect of Different Peer Performance Discrepancy Decision Rules on the Proportion of Elementary Students Determined Eligible for Special Education Assessment in Reading or Math. Major Adviser: Prof. R.F. Weatherman. Graduation Pending.

John Ries Mahoney, Jr.

B.A. cum laude '81, University of Minnesota. Major: Pathobiology. Minor: Supporting Program. Thesis: The Role of Hemoglobin and Haptoglobin in Experimental *E. coli* Peritonitis. Major Adviser: Prof. J.W. Eaton. Graduation Pending.

Sister Kevin G. Maiers, St. Joseph

B.A. '64, College of St. Benedict; M.A. '72, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationship of Cognitive-Developmental Moral Judgment and Leader Behavior of Catholic Elementary School Principals. Major Adviser: Prof. N.C. Nickerson. October Graduate.

Lucinda Louise Maine, Minneapolis

B.S.Pharm. with high honors '80, Auburn University. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: Medication Information Seeking by Noninstitutionalized Older Adults. Major Adviser: Prof. A.I. Wertheimer. Graduation Pending.

Antonio Manresa, Cox, Spain
Lic. '76. Universidad Autonoma de Barcelona.
Major: Economics. Minor: Supporting Program.
Thesis: An Overlapping Generation Model with
Exhaustible Resources. Major Adviser: Prof.
Leonid Hurwicz. Graduation Pending.

Jennifer Lynn McCoy, Bartlesville,
Okla.

B.A. honors '78. Oklahoma State University. Ma-
jor: Political Science. Minor: Supporting Program.
Thesis: Democratic Dependent Development and
State-Labor Relations in Venezuela. Major Advis-
ers: Profs. G.W. Wynia and B.D. Duvall. Gradu-
ation Pending.

Cary Daniel McDonald, Portage,
Ind.

B.S.F.'79. Purdue University; M.S.'81. University
of Tennessee. Major: Forestry. Minor: Supporting
Program. Thesis: Consideration As An Added Di-
mension to The Investigation of Recreational Con-
flict. Major Adviser: Prof. T.B. Knopp. Graduation
Pending.

Kevin Bryce McLeod, Oxford,
England

B.S. with first class honours '78. University of
London. Major: Mathematics. Minor: Supporting
Program. Thesis: Uniqueness of Positive Radial
Solutions of Semi-Linear Elliptic Equations in n-
space. Major Adviser: Prof. J.B. Serrin. September
Graduate.

Regina Clark McNeil, Detroit,
Mich.

A.B.Ed. '73. University of Michigan; M.A.'78.
Wayne State University. Major: Educational Psy-
chology. Minor: Supporting Program. Thesis: A
Methodological Approach to Job Family Develop-
ment. Major Adviser: Prof. D.G. MacEachern.
Graduation Pending.

Robert Edward Merrill, Rockland,
Me.

B.S. with distinction '79. University of Maine at
Orono; M.S.'81. University of Minnesota. Major:
Forestry. Minor: Plant Breeding. Thesis: Evalua-
tion of Juvenile Height Growth in Inter- and Intra-
Provenance Crosses of White Spruce (*Picea Glauca*
[Mill.] B.S.P.). Major Adviser: Prof. C.A. Mohn.
September Graduate.

Fekri Mezou, Tunisia

Maitrise '80. Université de Tunis; M.A.'82. Uni-
versity of Minnesota. Major: Mass Communica-
tion. Minor: Business Administration. Thesis: The
Impact of Advertising On The Less Developed
Countries: Some Empirical Evidence. Major Ad-
viser: Prof. R.E. Carter. Graduation Pending.

Harry Walter Momont, Iron River,
Mich.

B.S.'74. University of Wisconsin, Madison;
D.V.M.'78. University of Minnesota. Major: Ther-
iogenology. Minor: Supporting Program. Thesis:
Reproductive Response Factors in Dairy Cattle
Treated with Cloprostenol. Major Adviser: Prof.
B.E. Sequin. Graduation Pending.

Kil-Choo Moon, Korea

B.A.Sc. cum laude '75. University of Ottawa.
M.S.M.E.'80. University of Minnesota. Major:
Mechanical Engineering. Minor: Industrial Engi-
neering. Thesis: Charging Mechanism of Submi-
cron Diesel Particles. Major Adviser: Prof. D.B.
Kittelson. September Graduate.

Dwight Moore, Minneapolis

A.B. honors '70. Colgate University; M.A.'75.
Michigan State University. Major: Educational
Psychology. Minor: Supporting Program. Thesis:
An Investigation of Changes in Affective Expres-
siveness in Men as a Result of Participation in a
Multi-Modal Psychological Intervention. Major
Adviser: Prof. L.S. Hansen. Graduation Pending.

Erle Patrick Moore, Minneapolis

B.A. cum laude '67, M.A.'73. University of Minne-
sota. Major: English. Minor: Supporting Program.
Thesis: The Modern Pentameter: William Carlos
Williams and the Conventions of Poetry. Major
Adviser: Prof. G.T. Wright. Graduation Pending.

Roger Keith Morris, Sydney,
Australia

B.A.'72. University of New England; M.Ed.'76.
University of Sydney. Major: Education. Minor:
Supporting Program. Thesis: In-Service Teacher
Education Attitudes, Preferences and Practices.
Major Adviser: Prof. K.R. Howey. Graduation
Pending.

Robert Barclay Morrison, British
Columbia, Canada

B.S.'75, D.V.M.'79. University of Saskatchewan.
Major: Veterinary Medicine. Minor: Epidemiol-
ogy. Thesis: An Epidemiologic Investigation into
Enzootic Pneumonia of Swine. Major Adviser:
Prof. A.D. Leman. Graduation Pending.

Amy Jean Muller, Coraopolis, Pa.

B.A.'78. Dartmouth College. Major: Chemistry.
Minor: Supporting Program. Thesis: The Prepara-
tion and Characterization of a High Performance
Liquid Affinity Chromatography System. Major
Adviser: Prof. P.W. Carr. Graduation Pending.

Hugh Gary Murchison

B.S.For.'68. University of New Brunswick;
M.S.For.'70. University of Toronto. Major: For-
estry. Minor: Statistics. Thesis: Efficiency of Multi-
Phase and Multi-Stage Sampling for Tree Heights if
Forest Inventory. Major Advisers: Profs. A.R. Ek
and D.W. Rose. Graduation Pending.

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. Graduation Pending.

Amrinsjah Nasution, Indonesia

Sarjana '76, Bandung Institute of Technology; M.S.C.E. '81, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Stiffening Effect of Driven Shallow Piles in a Semi-Infinite Solid. Major Adviser: Prof. L.E. Scriven. 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. Graduation Pending.

Pamela Michele Nice, New Orleans, La.

B.A. magna cum laude '75, M.A. '78, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: Scenic Devices and Images in Selected Plays by Tom Stoppard. Major Adviser: Prof. J.D. Hurrell. Graduation Pending.

Jan Marie Norrander, LeSueur

B.S. '78, University of Minnesota. Major: Biochemistry. Minor: Genetics. Thesis: Zinc Storage Proteins Expressed from Synthetic Genes Altered by Oligonucleotide-Directed *In Vitro* Mutagenesis. Major Adviser: Prof. Joachim Messing. October Graduate.

Patrick John O'Laughlin, Minneapolis

B.A. '71, University of Minnesota; M.A. '80, College of St. Thomas. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Controlled Comparison of Progressive Relaxation Training and Aerobic Exercise to Relieve Tension Following an Evaluation Stress Stimulus. Major Adviser: Prof. W.W. Tompison. Graduation Pending.

David Robert Orden, Riner, Va.

B.S. '71, Cornell University; M.S. '77, Virginia Polytechnic Institute and State University. Major: Economics. Minor: Agricultural Economics. Thesis: Transfers, Exchange Rates and Agricultural Markets. Major Adviser: Prof. G.E. Schuh. Graduation Pending.

John D. Ozment, East Lansing, Mich.

B.S.B.A. '74, M.B.A. '75, University of Tulsa. Major: Business Administration. Minor: Supporting Program. Thesis: An Evaluation of the State Governments' Role in the Preservation of Rail Service: An Analysis of Projects to Upgrade Rail Branch Lines in Minnesota and Iowa. Major Adviser: Prof. D.V. Harper. October Graduate.

Sally Louise Palm, Minneapolis

B.S. with high distinction '76, M.S. '78, University of Minnesota. Major: Pathobiology. Minor: Cell and Developmental Biology. Thesis: Basement Membrane Proteins in the Peripheral Nervous System: Localization *In Vivo* and Cell-Protein Interactions *In Vitro*. Major Adviser: Prof. L.T. Furcht. Graduation Pending.

Anastasios Charilaou Papanastasiou, Cyprus

Diploma '78, National Technical University of Athens; M.S.Ch.E. '81, University of Minnesota. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Coating Flows and Processing of Viscoelastic Liquids: Fluid Mechanics, Rheology, and Computer-Aided Analysis. Major Advisers: Profs. C.W. Macosko and L.E. Scriven. H. Graduation Pending.

Patrick Robert Parsons, Modesto, Calif.

B.A. cum laude '74, M.A. '78, California State University, Northridge. Major: Mass Communication. Minor: Supporting Program. Thesis: Cable Television and the First Amendment. Major Adviser: Prof. Donald Gillmor. Graduation Pending.

John Robert Peterson, Two Harbors

B.S. magna cum laude '79, University of Minnesota, Duluth. Major: Chemistry. Minor: Supporting Program. Thesis: Manganese (III) Mediated Oxidation of Organic Compounds: Novel Reaction Manifolds and Mechanisms. Major Adviser: Prof. W.E. Fristad. Graduation Pending.

Pamela Jo Pietz, St. Cloud

B.A. magna cum laude '73, Gustavus Adolphus College; M.A. '76, St. Cloud University. Major: Ecology. Minor: Supporting Program. Thesis: Aspects of the Behavioral Ecology of Sympatric South Polar and Brown Skuas Near Palmer Station, Antarctica. Major Adviser: Prof. D.F. Parmelee. September Graduate.

Kwai-Shing Poon

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. 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: Dietary Effects on Rat Skeletal and Cardiac Muscle Lipoprotein Lipase Activity and Triglyceride Concentration. Major Adviser: Prof. P.B. Swan. Graduation Pending.

Jeronimo Ramos Saenz Pardo,
Mexico

Lic. '76, La Universidad Nacional Autonoma de Mexico; Maestria '77, La Universidad Autonoma de Guadalajara. Major: Agricultural Economics. Minor: Economics. Thesis: An Economic Evaluation of Government Intervention in the Mexican Agriculture Sector: The Corn and Wheat Sectors. Major Adviser: Prof. G.E. Schuh. October Graduate.

Ernest Francis Retzel, Detroit,
Mich.

B.S.'73, Michigan State University. Major: Microbiology. Minor: Supporting Program. Thesis: Vitro Transcription of the Avian Retrovirus Genome. Major Adviser: Prof. Anthony Faras. Graduation Pending.

Carol Ann Rhodes, San Jose, Calif.

B.S. with highest honors '77, University of California, Davis; M.S. '81, University of Minnesota. Major: Plant Breeding. Minor: Plant Physiology. Thesis: Aneuploid Tissue Cultures of Maize: Initiation, Plant Regeneration, and Cytogenetic Stability. Major Adviser: Prof. R.L. Phillips. Graduation Pending.

Christine Ann Ribic, Chicago, Ill.

B.S. with high distinction '76, Colorado State University; M.S.'83, University of Minnesota. Major: Ecology. Minor: Statistics. Thesis: Growth of a Northern Elephant Seal (*Mirounga angustirostris*) Colony. Major Adviser: Prof. D.B. Siniff. Graduation Pending.

Paul Christopher Riethmuller,
Canberra, Australia

B.Ag.S. with second class honors '72, M.Econ.'76, University of Queensland. Major: Agricultural Economics. Minor: Economics. Thesis: Government Intervention in Commodity Markets: The Case of the Japanese Rice and Wheat Markets. Major Advisers: Profs. G.E. Schuh and T.L. Roe. Graduation Pending.

Loriann Roberson, Minneapolis

B.A.'77, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Development and Validation of the Work Concerns Inventory, a Measure of Employee Work Goals. Major Adviser: Prof. J.P. Campbell. Graduation Pending.

Richard Donald Rogerson, Alberta,
Canada

B.S. with first class honors '79, University of Alberta. Major: Economics. Minor: Supporting Program. Thesis: Topics in the Theory of Labour Markets. Major Adviser: Prof. E.C. Prescott. October Graduate.

Thatcher Wiley Root, Bloomfield
Hills, N.J.

B.S.Chem.'79, Massachusetts Institute of Technology. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Absorption and Reaction of Nitric Oxide on Rhodium. Major Adviser: Prof. L.D. Schmidt. September Graduate.

Robert E. Rosen, Brooklyn, N.Y.

B.S. honors '79, State University of New York. Major: Chemistry. Minor: Supporting Program. Thesis: Stereorandom Reactions for the Generation of Stereohomogeneous Molecules: The Formal Total Synthesis of Tirandamycin Acid and Synthetic Efforts Towards Elaioophyllin. Major Adviser: Prof. T.R. Hoye. Graduation Pending.

Luann Patrice Rosenthal

Lic. '78, Universite Paris VII. Major: Biochemistry. Minor: Chemistry. Thesis: I. Borohydride Reduction of Periodate-oxidized Nucleotides: Isolation and Characterization of the Reduction Intermediate. II. Purification and Characterization of Yeast Mitochondrial EF-Tu. Major Adviser: Prof. J.W. Bodley. Graduation Pending.

David Matthew Rostollan, Burnsville

B.A. cum laude '73, St. Olaf College; M.S.'76, Illinois Institute of Technology. Major: Educational Psychology. Minor: Supporting Program. Thesis: Students' Post Behavior Moral Judgments of an Actor: Examining the Effects of Situational Cues Upon Student Judgments and the Relationship Between the Students' Evaluations and Selected Subject Characteristics. Major Adviser: Prof. V.L. Erickson. Graduation Pending.

Paul Charles Sadek

B.A. cum laude '79, Carleton College. Major: Chemistry. Minor: Supporting Program. Thesis: Elucidation of the Factors Responsible for Small Solute Retention and Irreversible Protein Binding in Reversed-Phase High Performance Liquid Chromatography. Major Adviser: Prof. P.W. Carr. Graduation Pending.

Muhammad Sahimi, Iran

Lic. '79, University of Tehran. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Transport and Dispersion in Porous Media and Related Aspects of Petroleum Recovery. Major Advisers: Profs. H.T. Davis and L.E. Scriven. September Graduate.

Kalika Ranjan Samant

B.Tech. M.E. first class '75, Banaras Hindu University. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Heat Transfer From a Small, High-Heat-Flux Patch to a Subcooled Turbulent Flow. Major Adviser: Prof. T.W. Simon. Graduation Pending.

Kerin Leigh Scanlon, Grand Rapids

B.A. summa cum laude '77, Macalester College. Major: Chemistry. Minor: Supporting Program. Thesis: Infrared Spectroscopic Studies: Gas-Phase Intensities and Surface Adsorbates. Major Adviser: Prof. W.G. Miller. Graduation Pending.

Joseph William Schoenecker,

Cottage Grove

B.A. '76, College of St. Thomas. Major: Medicinal Chemistry. Minor: Supporting Program. Thesis: The Synthesis and Pharmacologic Characterization of Irreversibly Acting Opiate Agents. Major Adviser: Prof. P.S. Portoghese. September Graduate.

Edward Joseph Schork, Jr.

B.A. '74, Haverford College. Major: Child Psychology. Minor: Supporting Program. Thesis: Affect Expression, Emotional Modulation, and Social Skills in the Preschool: Contemporaneous and Longitudinal Validation of a Behavior Observation Measure. Major Adviser: Prof. L.A. Sroufe. October Graduate.

Andrew Barnard Schwartz,

Minneapolis

B.S. '78, University of Minnesota. Major: Physiology. Minor: Supporting Program. Thesis: Responses of Cerebellar Nuclear Neurons to Perturbations of Locomotion in the Decerebrate Cat. Major Adviser: Prof. J.R. Bloedel. October Graduate.

Susan E. Senogles, Latrobe, Pa.

B.S. '77, University of Minnesota. Major: Biochemistry. Minor: Supporting Program. Thesis: The Role of Von Willebrand Factor in Platelet Aggregation. Major Adviser: Prof. G.L. Nelsestuen. September Graduate.

Richard John Sexton, Sandstone

B.A. '77, St. Cloud State College; M.S. '80, University of Minnesota. Major: Agricultural Economics. Minor: Economics. Thesis: The Formation of Cooperatives: An Analysis of Entry Incentives, Entry Deterrence, Optimal Financing Arrangements, and Stability Requirements. Major Adviser: Prof. T.L. Roe. September Graduate.

Sallie P. Sheldon, Wayzata

B.A. '76, M.A. '77, State University of New York at Buffalo. Major: Ecology. Minor: Supporting Program. Thesis: The Effects of Herbivory and Other Factors on Species Abundance and the Diversity of Freshwater Macrophyte Communities. Major Adviser: Prof. P.A. Morrow. September Graduate.

Sangdal Shim, Seoul, Korea

B.Econ. '72, Seoul National University. Major: Economics. Minor: Supporting Program. Thesis: Inflation and the Government Budget Constraint: International Evidence. Major Adviser: Prof. C.A. Sims. September Graduate.

Anil Kumar Sinha, India

B.S. second class honors '60, Bihar University; B.S.E. first class '64, Ranchi University; M.Tech. '77, Indian Institute of Technology, Kharagpur. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Microstructural Aspects in Inconel X-750. Major Adviser: Prof. J.J. Moore. September Graduate.

Frances Olivia Smith, Webster

B.S. '78, D.V.M. '80, University of Minnesota. Major: Theriogenology. Minor: Supporting Program. Thesis: Cryopreservation of Canine Semen: Technique and Performance. Major Adviser: Prof. S.D. Johnston. Graduation Pending.

James L.D. Smith, Minneapolis

B.A. '66, Furman University; M.S. '76, University of Minnesota. Major: Wildlife. Minor: Supporting Program. Thesis: Dispersal, Communication, and Conservation Strategies for the Tiger (*Panthera tigris*) in Royal Chitwan National Park, Nepal. Major Adviser: Prof. P.A. Jordan. September Graduate.

Jennifer Ann Smith, Minneapolis

B.S. '70, Southern Illinois University; M.A. '78, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The Relationships Between Specific Context Variables and Types of Inservice Education Preferred by Elementary Classroom Teachers. Major Adviser: Prof. K.R. Howey. Graduation Pending.

Judith Ann Smith, Minneapolis

B.A. '76, M.S. '79, University of Minnesota. Major: Biometry and Health Information Systems. Minor: Statistics. Thesis: Sample Size Requirements for Studies of the Etiologic Fraction. Major Adviser: Prof. R.B. McHugh. Graduation Pending.

Lois Jean Sonstegard, Buffalo

B.S.N. cum laude '69, St. Olaf College; M.A. '71, New York University. Major: Hospital and Health Care Administration. Minor: Supporting Program. Thesis: Capital Formation in the Hospital Industry: 1980 - 1991. Major Adviser: Prof. T.J. Litman. September Graduate.

Bernard A. Sorofofan, Okla.

B.A. '72, University of Nevada; B.S. Pharm. '79, University of Oklahoma, Oklahoma City. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: The Effect of Acculturation on Medical Self-Care Practices. Major Adviser: Prof. A.I. Wertheimer. Graduation Pending.

Frank Edgar Stageberg, Minneapolis
B.Math. with distinction '76, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: The Interaction of Superconductivity and Magnetism at an Interface. Major Adviser: Prof. A.M. Goldman. Graduation Pending.

Robert Edward Stevens,
Minneapolis

B.S.'80, University of Wisconsin, Madison. Major: Chemistry. Minor: Chemical Engineering. Thesis: Synthesis, Characterization, and Reactivity of Metal Carbonyl Nitrosyl Complexes. Major Adviser: Prof. W.L. Gladfelter. Graduation Pending.

Anne Streets, Silver Spring, Md.

B.A. with honors '76, University of Maryland. Major: Forestry. Minor: Supporting Program. Thesis: Productivity Change in the U.S. Forest Industries. Major Adviser: Prof. H.M. Gregersen. Graduation Pending.

Shawna Strobel

B.S.'50, University of Utah; M.S.'68, Brigham Young University. Major: Home Economics. Minor: Supporting Program. Thesis: Humanized Effects of Labor Rooms on Expectant Mothers. Major Advisers: Profs. M.J. Hogan and H.H. Alexander. Graduation Pending.

Wayne Malcolm Studer, West
Point, Va.

B.A.'77, M.A.'78, College of William and Mary in Virginia. Major: American Studies. Thesis: The Frustrated Muse: The Life and Works of Daniel Bryan, c.1790-1866. Major Adviser: Prof. Martin Roth. Graduation Pending.

Atjeng Muchlis Syarief, West Java,
Indonesia

Sardjana '74, Bogor Agricultural University; M.S.Ag.E.'82, University of Minnesota. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: A Study of Moisture Diffusion Coefficients for Yellow-Dent Corn Kernel: Zea mays L.. Major Advisers: Profs. R.V. Morey and R.J. Gustafson. Graduation Pending.

Kipling Thacker, Minneapolis

B.S.'76, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: A Study of Proteins gp7 and gp5.5 During Capsid Morphogenesis of Bacillus Subtilis Bacteriophage Q29. Major Adviser: Prof. B.E. Reilly. Graduation Pending.

Gordon Philip Thomas, Jacksonville,
Ala.

B.A.'74, Emory University; M.A.'82, University of Minnesota. Major: English. Minor: English as a Second Language. Thesis: Reading, Writing and Mutual Knowledge. Major Adviser: Prof. R.L. Brown, Jr. Graduation Pending.

Branislav Jovan Vajdic, Minneapolis
Diploma '78, Novi Sad University; M.S.E.E.'81, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Design Methodology for Three Dimensional CMOS Integrated Circuits. Major Adviser: Prof. A.A. Tuszynski. Graduation Pending.

Janika Lynn Vandervelde, Green
Lake, Wis.

B.M.E. magna cum laude '77, University of Wisconsin, Eau Claire. Major: Music. Minor: Supporting Program. Thesis: Henry's Fate (Genesis III). Major Adviser: Prof. E.N. Stokes. Graduation Pending.

Suresh B. Venuri, Vijayawada,
India

B.Tech.'78, Indian Institute of Technology, Madras. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Natural Convection and Radiation Heat Transfer From Highly Populated Pin Fin Arrays. Major Adviser: Prof. E.M. Sparrow. September Graduate.

April Rene Veness-Randle

B.A.'76, University of Arizona; M.A.'79, Michigan State University. Major: Geography. Minor: Supporting Program. Thesis: "But It's (Not) Supposed to Feel Like Home": Ethnicity and Place on the West Side of St. Paul, Minnesota. Major Adviser: Prof. Y.F. Tuan. Graduation Pending.

John Michael Viner

B.E.E. with distinction '65, M.S.E.E.'69, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: The Nature of the Smectic A -Hexatic B Phase Transition of Liquid Crystals From Heat Capacity Measurements. Major Adviser: Prof. C.C. Huang. Graduation Pending.

Mary Kathryn Wagner, Duluth

B.S.'78, Iowa State University. Major: Food Science. Minor: Supporting Program. Thesis: Effect of Sodium Acid Pyrophosphate on Clostridium Botulinum Spore Germination, Outgrowth, Toxicity and Vegetative Cell Metabolism. Major Adviser: Prof. F.F. Busta. September Graduate.

Wayne Yih-yuh Waung, Taipei,
Taiwan

B.Law '66, National Taiwan University; M.Laws '74, National Chengchi University. Major: Economics. Minor: Supporting Program. Thesis: Income and Price Fluctuations in the Taiwan Economy: A Vector Autoregressive Model Approach. Major Adviser: Prof. O.H. Brownlee. September Graduate.

Fall

48

Richard James Webb, Madison,
Wis.

B.M.E. with distinction '79, University of Minnesota. Major: Metallurgy and Materials Science. Minor: Supporting Program. Thesis: Reactive Evaporation of Chevrel Phase Ternary Superconductors. Major Adviser: Prof. L.D. Schmidt. September Graduate.

Judy Kay Werder, Willmar

B.A. with distinction '71, University of Minnesota; M.A. '78, Michigan State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Perceptual-Motor Training Versus Skill-Specific Motor Training with Young Learning Disabled Children. Major Adviser: Prof. R.H. Bruininks. September Graduate.

Barbara Jean Wilcox, Minneapolis

B.S. '75, University of Wisconsin, Madison. Major: Anatomy. Minor: Supporting Program. Thesis: Anatomical Perspectives on Histaminergic Neurons. Major Advisers: Profs. R.P. Elde and V.S. Seybold. Graduation Pending.

Patricia McGinnis Wilhelm, St. Paul

B.A. cum laude '62, Macalester College; M.A. '69, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: The Involvement and Perceived Impact of the Citizens League on Minnesota State School Policy-making, 1969-1984. Major Adviser: Prof. T.L. Mazzoni. Graduation Pending.

Phillip Karl Wood, Strawberry
Point, Iowa

B.A. summa cum laude '77, Wartburg College; M.A. '80, University of Iowa. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Statistical Examination of Necessary But Not Sufficient Antecedents of Problem Solving Behavior. Major Adviser: Prof. M.L. Davison. Graduation Pending.

Randall Douglas Wright

B.A. honors '79, University of Manitoba. Major: Economics. Minor: Supporting Program. Thesis: Labor Markets and Labor Contracts in an Overlapping Generations Model with Infinite Lived Employers. Major Adviser: Prof. Neil Wallace. Graduation Pending.

Linda Zaruba, Independence, Ohio

B.S.Ed. '75, Miami University; M.A. '76, University of Colorado. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Exploratory Analysis of the Bulimic Family. Major Adviser: Prof. D.R. Loeffler. Graduation Pending.

Joseph Anthony Zasadzinski,
Riverside, Calif.

B.S. with honors '80, California Institute of Technology. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Electron Microscopy of Surfactant Liquid Crystal Structure. Major Advisers: Profs. L.E. Scriven and H.T. Davis. Graduation Pending.

Doctor of Philosophy

MAYO GRADUATE SCHOOL OF MEDICINE

Marjorie Louise Wier, Salt Lake
City, Utah

B.S. cum laude '77, B.S. cum laude '78, University of Utah. Major: Pathology. Minor: Supporting Program. Thesis: Control of Terminal Differentiation in 3T3-T Proadipocytes. Major Adviser: Prof. R.E. Scott. September Graduate.

Master of Architecture

Wadad Hassan Alsuwayeh, Kuwait

B.S. '77, Ain Shams University. Major: Architecture. Thesis: School of Architecture (Kuwait University). Major Adviser: Prof. R.D. Clemence. Graduation Pending.

Brian August Ameche, Malvern, Pa.

B.A. '75, Yale University. Major: Architecture. Thesis: L'Hotel de France. Major Adviser: Prof. R.D. Clemence. October Graduate.

Joseph Louis Ceci

B.Arch. '80, University of Notre Dame. Major: Architecture. Thesis: Radisson Center: An Example of the Principles of Rational and Contextual Architecture Applied to Mixed-Use Development on a Constricted Urban Site. Major Adviser: Prof. M.H. Thompson. Graduation Pending.

Thomas Patrick Lehmann

B.E.D. '78, University of Minnesota. Major: Architecture. Thesis: The Alfred Packer Plaza: A Mixed-Use Project in Breckenridge, Colorado. Major Adviser: Prof. D.J. Showalter. Graduation Pending.

Gail Dixie Manning
B.A. summa cum laude '74, University of North Dakota. Major: Architecture. Thesis: University of Minnesota Forestry and Biological Station. Lake Itasca, Minnesota. Major Adviser: Prof. L.A. Lavine. Graduation Pending.

James W. Miller, Minneapolis
B.E.S.'79, University of Kansas. Major: Architecture. Thesis: The Pillsbury "A" Mill and Environs: An Adaptive Reuse Study. Major Adviser: Prof. R.D. Clemence. Graduation Pending.

John Dennis Murphy
B.A.'81, University of Minnesota. Major: Architecture. Thesis: Goat Hill Lodge. Major Adviser: Prof. Duane Thorbeck. October Graduate.

Steven Brian Prater, Minneapolis
B.S. '76, Iowa State University of Science and Technology. Major: Architecture. Thesis: Southeast Community Covenant: A House of Christian Worship. Major Adviser: Prof. D.M. Mulfinger. Graduation Pending.

Woo-Chun Rah, Taegli, Korea
B.S.E. '82, Seoul National University. Major: Architecture. Thesis: A Mixed Use Development YMCA BLock Downtown Minneapolis. Major Adviser: Prof. J.G. Rauma. Graduation Pending.

Morgan Lap-Chi Tse
B.S.Arch. '83, Ohio State University. Major: Architecture. Thesis: A Development Plan for the Science, Technology and Research Corridor. Major Adviser: Prof. D.M. Mulfinger. Graduation Pending.

Jens Henry Vange, Palatine, Ill.
B.S.'83, University of Illinois. Major: Architecture. Thesis: Technology and Design: An Evaluation of Computerized Energy Analysis and Its Usability in Architectural Design. Major Adviser: Prof. L.A. Lavine. September Graduate.

Master of Arts

Michael Agianpuve Alada
B.S.'81, University of Wisconsin. River Falls. Major: Business Education. Minor: Related Fields. Major Adviser: Prof. C.R. Hopkins. Graduation Pending.

Simon Jose Alejandro
Prof.Ed.Media '77, Instituto Universitario Pedagogico. Major: Geography. Minor: Related Fields. Major Adviser: Prof. C.H. Weil. October Graduate.

Ellen Gail Anderson, Gardner,
Mass.
B.A. '79, University of Minnesota. Major: Scandinavian. Minor: English As A Second Language. Major Adviser: Prof. Kaaren Grunstad. Graduation Pending.

Nancy Gayle Austin, Clio, Mich.
B.S. '56, University of Michigan. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. P.J. Tichenor. Graduation Pending.

Sally Jean Bader, Bloomington
B.S. with distinction '67, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. F.H. Wood. Graduation Pending.

Evonne Marie Barker-Zahedi,
Bloomington
B.S. with honor '76, University of Wyoming. Major: Education. Minor: Related Fields. Major Adviser: Prof. G.A. Stull. Graduation Pending.

Deborah Susan Baumgarten
B.A.'81, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Intelligibility of Esophageal Speakers Under Varying Speaking Conditions. Major Adviser: Prof. C.D. Starr. Graduation Pending.

Timothy Paul Beach, Dairyville,
Calif.
B.A.'82, California State University. Chico. Major: Geography. Minor: Related Fields. Major Adviser: Prof. D.A. Brown. Graduation Pending.

Carolyn Light Bell, Minneapolis
B.S.'65, University of Minnesota. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Hancher. September Graduate.

Louis Richard Bellamy
B.A.'67, Mankato State University. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. G.W. Gadberry. Graduation Pending.

Rex James Blake, San Diego, Calif.
B.S.'78, United States Coast Guard Academy. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. S.D. Brown. September Graduate.

Luc J. Bovens, Heverlee, Belgium
Lic. '82, Catholic University of Louvain. Major: Sociology. Minor: Philosophy. Thesis: A Critique of Weber's and Keat's View on Ethical Rationality. Major Adviser: Prof. Don Martindale. Graduation Pending.

Laura Ann Brady

B.A. cum laude '82, Marquette University. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Hancher. Graduation Pending.

Judith Glachman Brier, St. Paul

B.A. with distinction '64, University of Michigan. Major: English. Minor: Related Fields. Major Adviser: Prof. W.A. Madden. Graduation Pending.

Dorrene Kay Brown Butterfield,

Cody, Wyo.

B.S. with honor '80, University of Wyoming. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.J. Flagler. Graduation Pending.

Gregory Lynn Bruess, Benson

B.A. '78, Augsburg College. Major: History. Minor: Related Fields. Major Adviser: Prof. T.G. Stavrou. September Graduate.

Janice Lynn Buikema

B.A. cum laude '78, Augustana College. Major: Education. Minor: Related Fields. Major Adviser: Prof. M.F. Graves. Graduation Pending.

Suzanne K. Burley, Minneapolis

B.A. with distinction '80, Gallaudet College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. R.A. Weinberg. Graduation Pending.

Beverly Joy Carlson, Minneapolis

B.S. with high distinction '72, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. N.N. Eustis. September Graduate.

Marilyn Sue Cathcart, St. Paul

B.A. '66, University of Washington. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. Graduation Pending.

Cynthia Kay Chelgren

B.S. '82, University of Wisconsin. River Falls. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. G.L. Shapiro. Graduation Pending.

Hsueh-Yeng Chiang

B.A. '80, Tamkang College. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. I.E. Fang. October Graduate.

Kevin Andrew Cotter, Minneapolis

B.A. '74, Simpson College. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. L.D. Bart. Graduation Pending.

Belinda Jane Cowdy, Belfast,

Northern Ireland

B.A. '80, Leicester University. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. J.S. Ettema. September Graduate.

Robert John Cowgill, Minneapolis

B.A. '77, University of Minnesota. Major: English. Minor: Related Fields. Major Adviser: Prof. R.D. Solotaroff. September Graduate.

Patricia Lynn Cullen, Green Bay,

Wis.

B.S. with highest honors '79, University of Wisconsin, La Crosse. Major: Mass Communication. Minor: Related Fields. Thesis: Access Rights of the Hearing Impaired to the Broadcast Media. Major Adviser: Prof. T.L. Glasser. Graduation Pending.

Dorris Anne Dingley, Minneapolis

B.A. cum laude '75, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. D.K. Berninghausen. Graduation Pending.

Jeffrey Lee Dommerberg

B.S.Ed. '82, Bowling Green State University. Major: Industrial Education. Minor: Related Fields. Major Adviser: Prof. R.A. Swanson. Graduation Pending.

David George Druker

B.S. with distinction '81, University of Minnesota. Major: Industrial Education. Minor: Related Fields. Major Adviser: Prof. D.C. Bjorkquist. Graduation Pending.

Thomas Lynn Dunlap

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

Cristina Duplaa

Lic. '78, Universidad Autonoma de Barcelona; Lic. '81, Universidad de Barcelona. Major: Spanish. Minor: Portuguese. Thesis: El Conflicto Cultural en la Espana Plurinacional: Una Aproximacion al Discurso Nacionalista en las Regiones Historicas (siglo XIX- Primer Tercio de XX). Major Adviser: Prof. Antonio Ramos. Graduation Pending.

Michael Kirk Durber

B.A. with honors '81, University of Oxford. Major: Geography. Minor: Related Fields. Thesis: Image of the City: A Study of Judaeo-Christian Symbolism. Major Adviser: Prof. R.P. Miller. Graduation Pending.

David William Dvorak

B.A. '52, Macalester College; B.S. '53, D.D.S. '55, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.W. Burris. October Graduate.

Shirley Ann Ellickson, Bloomington

B.S. '59, State Teachers College. Major: Physical Education. Minor: Related Fields. Major Adviser: Prof. J.F. Alexander. September Graduate.

Kathy Jo Evertz, Fridley

B.A. '82, University of Minnesota. Major: Art History. Minor: Related Fields. Major Adviser: Prof. Melvin Waldfoegel. Graduation Pending.

Carol Darlene Fisher

B.S. '68, Minot State College. Major: Education. Minor: Related Fields. Major Adviser: Prof. J.C. Manning. Graduation Pending.

Linda Louise Fisher, St. Paul

B.S. '71, Northern State Teachers College. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.A. Willie. Graduation Pending.

Mary Elaine Forsberg, St. Paul

B.A. cum laude '73, Connecticut College; M.A. '75, University of Pennsylvania. Major: Public Affairs. Major Adviser: Prof. J.E. Brandl. September Graduate.

Antony Francis Goddard

B.A. '72, University of Minnesota. Major: Geography. Minor: Related Fields. Major Adviser: Prof. R.P. Miller. October Graduate.

Melanie Tess Goldish

B.A. '80, University of Minnesota, Duluth. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. G.L. Shapiro. October Graduate.

Christine E. Granbeck

B.A. '74, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Thesis: The Organizational Structures and Procedures Leading to the Casting of Roles on Network Television: A Study of Who and What Influence the Decision-Making Process. Major Adviser: Prof. D.R. Browne. Graduation Pending.

Thomas Keith Gulbrandson,

Minneapolis

B.S. cum laude '80, University of Minnesota. Major: Speech Communication. Minor: Related Fields. Major Adviser: Prof. D.E. Browne. Graduation Pending.

Marcy Lynn Harris, Bloomington

B.A. '80, University of Minnesota. Major: History. Minor: Political Science. Thesis: The History of Freedom of Speech and its Meaning Today. Major Adviser: Prof. P.L. Murphy. Graduation Pending.

Margaret Mary Hasse, Minneapolis

B.A. '73, Stanford University. Major: English. Minor: Related Fields. Major Adviser: Prof. W.A. Madden. September Graduate.

Sue Hastings

B.S. '75, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. V.L. Erickson. September Graduate.

Sharon Kaye Hinzman

B.S. '69, University of Minnesota. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. R.L. Schreiner. Graduation Pending.

Cheryl Beth Hohenstein,

Minneapolis

B.A. '76, University of Minnesota. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. J.S. Ettema. September Graduate.

Ann Peck Hooke, St. Paul

B.A. '61, Smith College; B.S. '78, University of Minnesota. Major: Physical Education. Minor: Education. Thesis: Nature and Implications of Home Exercises Practiced by Older Adults. Major Adviser: Prof. M.L. Young. Graduation Pending.

Sally Joan Houck, Hershey, Pa.

B.A. '74, California State University. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Haucher. September Graduate.

Charla S. Hutkins

B.A. cum laude '79, University of Missouri. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. October Graduate.

Hyemi Hwang

B.M. '81, Sacred Heart College for Women. Major: Music. Minor: Related Fields. Major Adviser: Prof. Alex Lubet. Graduation Pending.

Clarice Johnson Jensen, St. Paul

B.S. with high distinction '75, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. Graduation Pending.

Denise Elaine Johnson

B.A. '79, Concordia College. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. Stephen Schultz. October Graduate.

Linda Kay Johnson, St. Paul

B.A. '73, M.A. '79, Ph.D. '82, M.A. '83, University of Minnesota. Major: Classical Area Studies. Minor: Related Fields. Major Adviser: Prof. R.P. Sonkowsky. September Graduate.

Maythee Diane Kantar

B.A. summa cum laude '79, University of Minnesota. Major: Elementary Education. Minor: Speech-Communication. Major Adviser: Prof. R.N. Odland. Graduation Pending.

Abbie Jean Karsh

B.A. '77, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: The Effect of Background Noise on Oral Communication Between Elderly Hearing Impaired Persons. Major Adviser: Prof. R.P. McDermott. Graduation Pending.

Martine Mekerta Karsten

Lic. '81, Universite' Paul Valery. Major: French. Minor: Related Fields. Major Adviser: Prof. T.C. Conley. Graduation Pending.

Lori Anne Keeler, Edina

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

Vincent John Kiernan

B.A. '81, Cornell University. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. P.J. Tichenor. October Graduate.

Mary Jean King, Coon Rapids

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

Marcia Joy Kohout

B.S. with high distinction '82, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. E.G. Bormann. Graduation Pending.

Kathryn Jean Kolarich

B.S. with distinction '73, University of Minnesota. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. J.C. Manning. Graduation Pending.

Alan Thomas Krantz, Coon Rapids

B.A. cum laude '74, Augsburg College. Major: Education. Minor: Related Fields. Major Adviser: Prof. W.D. Philipson. September Graduate.

Steven Charles Krantz

B.A. '71, Hamline University. Major: Music. Minor: Related Fields. Thesis: The Use of the Phrygian Mode in the Motets of Josquin Des Prez. Major Adviser: Prof. D.C. Jackson. October Graduate.

Rebecca Lynn Kylo, St. Paul

B.A. '82, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. George Seltzer. September Graduate.

Lynette M. Lamb, Minneapolis

B.S. '79, University of Wisconsin, Madison. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. J.W. Ward. Graduation Pending.

Steven J. Larsen

B.S. '72, University of Wisconsin, La Crosse. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. W.S. Howell. October Graduate.

Sharon Kay Larson

B.S. '78, University of Northern Colorado. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. Susan Rose. October Graduate.

Ruth Anne Leathers

B.A. magna cum laude '72, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: A Comparison of Target-Monitoring and Two-Ear Monitoring Procedures in Dichotic Listening. Major Adviser: Prof. C.E. Speaks. Graduation Pending.

Myrna Gail Liebers

B.A. '67, Augsburg College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. J.H. Leigh. Graduation Pending.

Barbara Ann Lien

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

Hang Lou

B.Ed. '82, Hangzhou University. Major: Education. Minor: Related Fields. Major Adviser: Prof. H.Y. Williams. October Graduate.

Mari Lyman Lowe, Excelsior

B.A. '56, University of Minnesota. Major: Mass Communications. Minor: Related Fields. Major Adviser: Prof. D.B. Schwartz. Graduation Pending.

Sheryl Lea Luzzader, Red Bluff, Calif.

B.A. '82, California State University, Chico. Major: Geography. Minor: Related Fields. Thesis: Comparative Geographic Evaluation of Water Quality in the Surprise Valley and Alturas Ground Water Basins, 1982-83. Major Adviser: Prof. D.A. Brown. Graduation Pending.

William Edward Manthey, Dayton

B.A. '74, St. John's University. Major: English. Minor: Related Fields. Major Adviser: Prof. R.D. Solotaroff. September Graduate.

Roxanne Dee Markoff, Minneapolis

B.A. '69, University of Minnesota. Major: Family Social Science. Minor: Related Fields. Major Adviser: Prof. M.J. Hogan. Graduation Pending.

Sylvia Lois Markus

B.A. with distinction '73, University of Wisconsin, Madison. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. L.E. Olson. October Graduate.

Richard Gary Matson, Willmar

B.S. '68, University of Minnesota. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. L.E. Olson. Graduation Pending.

Phyllis Marie Metcalf, Detroit, Mich.

B.S. '74, M.A. '76, Eastern Michigan University. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. P.J. Tichenor. Graduation Pending.

Randall Alden Mikkelsen

B.A. '81. University of Minnesota. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. A.H. Ismach. October Graduate.

Richard George Morgan

B.A. '80. Cornell University. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. October Graduate.

Sherry Ann Mulrooney, Minnetonka

B.A. '80. University of Minnesota. Major: Family and Social Sciences. Minor: Related Fields. Major Adviser: Prof. H.I. McCubbin. Graduation Pending.

Richard John Nicolai, Austin

B.A. cum laude '58. St. John's University. Major: English. Minor: Related Fields. Major Adviser: Prof. W.A. Madden. September Graduate.

Kirk Carter Nielsen, Minneapolis

B.A. '81. University of Minnesota. Major: Hispanic Literatures. Minor: Mass Communication. Major Advisers: Profs. A.M. Zahareas and Rene Jara. Graduation Pending.

James Reginald Otieno

B.A. '82. University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. George Seltzer. Graduation Pending.

Maria Joan Pastuszek, Jr.

B.A. '81. University of Notre Dame. Major: Child Psychology. Minor: Educational Psychology. Major Adviser: Prof. H.L. Pick. Graduation Pending.

Scott A. Paulsen, Minneapolis

B.S. '78. Northern Michigan University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.J. Flagler. Graduation Pending.

Teresa Kowalska Plummer

B.S. '66. Wisconsin State University, River Falls; M.A. '68. University of Wisconsin, Madison. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. L.S. Hansen. Graduation Pending.

Theresa Mary Reardon

B.S. '77. University of Minnesota. Major: Mathematics Education. Minor: Related Fields. Major Adviser: Prof. P.A. House. Graduation Pending.

Marsha Lynn Rehm, St. Paul

B.S. '77. North Dakota State University. Major: Home Economics Education. Minor: Related Fields. Major Adviser: Prof. J.E. Plihal. Graduation Pending.

Marietta Ann Rice, St. Paul

B.A. '70. University of Minnesota. Major: Home Economics Education. Minor: Related Fields. Major Adviser: Prof. M.M. Rossmann. September Graduate.

**Rose Mae Monica Richardson,
Roseville**

B.A. with distinction '78. University of Colorado. Major: Child Psychology. Minor: Related Fields. Major Adviser: Prof. M.R. Gunnar. September Graduate.

**Katherine Anne-Marie Roberts,
Moorhead**

B.A. summa cum laude '80. Moorhead State University. Major: Art History. Minor: Related Fields. Major Adviser: Prof. Melvin Waldfoegel. Graduation Pending.

Lisa Caroline Roetzel, St. Paul

B.A. '81. Macalester College. Major: German. Minor: History. Major Adviser: Prof. G.H. Weiss. September Graduate.

Sr. Mary Dionne Rumschlag

B.A. '72. Mary Manse College. Major: English. Minor: Related Fields. Major Adviser: Prof. W.A. Madden. Graduation Pending.

Angel Sanchez

Major: Spanish. Minor: Related Fields. Major Adviser: Prof. Rene Jara. Graduation Pending.

Anita Dorn Schermer, St. Paul

B.A. '77. University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: The Effects of Massed Distributed and Scattered Sequences of Instructional Procedures To Teach Sign Production to Individuals with Severe Handicaps. Major Adviser: Prof. J.E. Reichle. September Graduate.

Stacey Lee Schreft, Hollywood, Fla.

B.A. cum laude '81. Smith College. Major: Economics. Minor: Related Fields. Major Adviser: Prof. H.D. Mohring. Graduation Pending.

Karen Devick Schultz

B.A. '75. Augustana College. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. E.M. Turrentine. Graduation Pending.

Marilyn Fritz Shardlow

B.A. magna cum laude '72. Luther College. Major: English. Minor: Related Fields. Major Adviser: Prof. R.D. Solotaroff. Graduation Pending.

Laurie Ann Shepherd

B.S. with distinction '72. University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. October Graduate.

Kwang-Yeong Shin

B.A. '82. Seoul National University. Major: Sociology. Minor: Related Fields. Thesis: Industrial Conflict and the State. Major Adviser: Prof. David Cooperman. October Graduate.

Kyungwon Shin

B.A. *summa cum laude* '81, Sogang University. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Hancher. Graduation Pending.

Marla Kay Siegler

B.A. '80, Evergreen State College. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. L.E. Olson. October Graduate.

Duane Richard Smith, St. Paul

B.A. *cum laude* '75, St. John's University. Major: Latin. Minor: Related Fields. Major Adviser: Prof. J.F. Miller. September Graduate.

Tracy Ellen Smith, Austin

B.F.A. '76, B.A. '80, University of Minnesota. Major: Art History. Minor: Related Fields. Major Adviser: Prof. Melvin Waldfoegel. Graduation Pending.

Sharon Anne Stein

B.A. '81, University of Minnesota. Major: English. Minor: Related Fields. Major Adviser: Prof. J.L. Mitchell. Graduation Pending.

Julie Anne Stephens, Reno, Nev.

B.A. with honors '82, Vassar College. Major: Geography. Minor: Related Fields. Major Adviser: Prof. J.R. Borchert. Graduation Pending.

Timothy Scotland Streeter

B.E.S. '80, St. Cloud State University. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. G.W. Gadberry. Graduation Pending.

Thomas Michael Suppes

B.S. '80, University of Minnesota. Major: Physical Education. Minor: Related Fields. Thesis: A Review of the Theoretical, Planning, and Evaluative Bases of Health Promotion Programs at the Workplace. Major Adviser: Prof. J.F. Alexander. Graduation Pending.

Charles Edwin Thomas

B.S. '76, Duke University; M.B.A. '78, University of Arkansas. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. R.D. Tennyson. Graduation Pending.

Margaret Nina Tiffany, St. Paul

B.E.S. '75, B.S. '77, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.W. Johnson. Graduation Pending.

Beth Maria Torstenson, Burnsville

B.A. '66, Augsburg College. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. C.A. Crellin. September Graduate.

Ruth Joanna Townsend

B.A. '80, Colorado State University. Major: History. Minor: Related Fields. Major Adviser: Prof. D.W. Noble. October Graduate.

Bruce Allen Trouten

B.A. '65, Hamline University. Major: Library Science. Minor: Related Fields. Major Adviser: Prof. N.J. Rohde. October Graduate.

Maria Hellyne Turnblom

B.S. '73, University of Minnesota. Major: Family Social Science. Minor: Related Fields. Major Adviser: Prof. Gerhard Neubeck. Graduation Pending.

Timothy Gerald Ungs, Minneapolis

B.A. with honors '81, University of Notre Dame. Major: English. Minor: Related Fields. Major Adviser: Prof. C.M. Hancher. Graduation Pending.

Susan Kay Van Housen

B.S. with high honors '77, St. Cloud State University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. S. Rose. Graduation Pending.

Jeffrey Clark VonMunkwitz-Smith

B.A. '73, Macalester College. Major: South Asian Studies. Minor: Related Fields. Major Adviser: Prof. I.Y. Junghare. Graduation Pending.

Eileen Patricia Walsh

B.A. '78, University of California, Santa Barbara. Major: History. Minor: Museology. Major Adviser: Prof. S.M. Evans. October Graduate.

Alison Jane Wanner

B.F.A. with honors '73, Drake University. Major: Home Economics. Minor: Art History. Major Adviser: Prof. M.O. Bagley. Graduation Pending.

Marc Lyle Watts

B.A. '82, University of Washington. Major: Political Science. Minor: Related Fields. Major Adviser: Prof. D.M. Simon. Graduation Pending.

Diane Cecilia Weber

B.A. '75, Memphis State University. Major: History. Minor: Related Fields. Major Adviser: Prof. Otto Pflance. Graduation Pending.

Wendy Jeanne Wiedenman

B.S. '73, South Dakota State University. Major: Educational Psychology. Minor: Related Fields. Thesis: The Effects of Varied Lengths of Teacher Intrusion on Behaviors of Severely Handicapped Students During Play with Nonhandicapped Peers. Major Adviser: Prof. L.V. Meyer. October Graduate.

Nancy Hundertmark Wilson,

Lexington, Mass.
B.A. '70, Vassar College. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.J. Park. Graduation Pending.

Lucinda Anne Winter, Minneapolis
B.A. with high honor '78, Michigan State University. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. J.S. Ettema. Graduation Pending.

Mary Catherine Winterbauer
B.A. '73, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.J. Park. Graduation Pending.

Kristin Marit Wood, St. Paul
B.A. '78, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. Graduation Pending.

Master of Arts

UNIVERSITY OF MINNESOTA, DULUTH

Linda Ann Kelly, Superior, Wis.
B.S. '83, University of Minnesota, Duluth. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. Graduation Pending.

Elaine Constance Monson, Osseo
B.S. '83, University of Wisconsin, Stevens Point. Major: Communicative Disorders. Minor: Related Fields. Major Adviser: Prof. J.T. Hatten. Graduation Pending.

Karen Sue Monson
B.A. '81, Central Michigan University. Major: Art. Minor: Related Fields. Major Adviser: Prof. A.B. Coker. Graduation Pending.

Michael James Nakkula
B.A. '81, B.A. '81, Michigan State University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. M.F. Gum. Graduation Pending.

Laureen Lee Ross, Duluth
B.A. '80, Gustavus Adolphus College. Major: English. Minor: Related Fields. Major Adviser: Prof. K.P. Jankofsky. September Graduate.

Larry Michael Sawchuck
B.A. '73, University of Manitoba. Major: Education. Minor: Related Fields. Major Advisers: Profs. E.F. Lundstrom and J.R. Keener. Graduation Pending.

David James Westerback
B.S. '81, McMaster University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. M.F. Gum. Graduation Pending.

Lorna Rupp Wilbrecht, Duluth
B.A. '80, University of Minnesota, Duluth. Major: English. Minor: Linguistics. Major Adviser: Prof. K.C. Risdon. Graduation Pending.

Master of Business Administration

Chandra Sekhar Amaravadi
B.E. '81, Andhra University. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.

William Paul Brady, St. Paul
B.S.B.A. '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. J.M. Gahlon. September Graduate.

John Campbell Brooks, Edina
B.A. '76, Williams College. Major: Business Administration. Major Adviser: Prof. J.M. Gahlon. September Graduate.

Beverley Jean Brown, Minneapolis
B.S. with highest honors '80, University of Wisconsin, La Crosse. Major: Business Administration. Major Adviser: Prof. R.E. Upson. September Graduate.

Gregg Olav Cariolano
B.S. magna cum laude '80, St. Cloud State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

Paul Alan Dorsey
B.A. magna cum laude '69, Beloit College; M.A. '72, Ph.D. '80, Western Michigan University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

Edward Benton Gill
B.S.B. '73, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

Denise Donna Goldberg
B.S. '74, Arizona State University. Major: Business Administration. Major Adviser: Prof. R.G. Berryman. Graduation Pending.

- Susan Elizabeth Goode**
B.S. '76, Florida Technological University. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.
- Eric Hambidge**
B.A. '76, Pacific Oaks College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. October Graduate.
- Paul Christian Hendricks, Eagan**
B.S.B. with high distinction '78, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.
- Laverne F. Higgins**
B.A. '78, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.
- Sung Hyun Juhn**
B.S. '79, Seoul National University. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.
- Don Steven Kovacic**
B.A. cum laude '78, University of Wisconsin, Eau Claire. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.
- Kay Ellen Kramer, St. Paul**
B.A. cum laude '75, Colorado College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Gregory Todd Kraut**
B.S.B. '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Cynthia Elaine Lindholm, Maple Plain**
B.S. '76, North Dakota State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Marilyn Helen McCarter**
B.S. '67, College of St. Scholastica. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Mark Edward McGreevy**
B.S. '81, Embry-Riddle Aeronautical University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Mary Catherine Molyneaux**
B.A. '80, College of St. Catherine. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.
- Gerard John Morris, Galway, Ireland**
B.S. with honors '77, Ph.D. '81, National University of Ireland. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.
- Joyce Elaine Nelson, Minneapolis**
B.S. magna cum laude '72, Mankato State College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. September Graduate.
- Michael Paul Nitz, Evansville**
B.A. '83, University of Minnesota, Morris. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.
- Gregory Richard Palen**
B.S. '77, St. John's University. Major: Business Administration. Major Adviser: Prof. M.L. Nichols. October Graduate.
- Daralyn Kathryn Peifer, Minnetonka**
B.A. '71, College of St. Catherine. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.
- Kevin Jon Pogatchnik, St. Paul**
B.S. '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.
- Fred Henry Roberts, Oakdale**
B.Chem. '63, M.S. '74, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.
- David R. Rosewall**
B.A. cum laude '76, Macalester College; M.A. '79, University of Iowa. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.
- Paul Thomas Samony, Duluth**
B.S. '76, University of Southern California, Los Angeles. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.
- Peter James Schmitz**
B.A. '81, College of St. Thomas. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.
- Audrey JoAnn Sevald, Plymouth**
B.S. '70, North Dakota State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.
- Kimberly O'Grady Simensen**
B.A. '79, St. Olaf College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.

James Harold Sleezer, St. Paul
B.S.'69, Missouri Valley College. Major: Business Administration. Major Adviser: Prof. R.B. Upson. Graduation Pending.

Dana William Smith, Lake Elmo
B.S.CH.E. with highest distinction '79, University of Maine at Ontario. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

**Richard Edward Sonenblum,
Brooklyn Park**
B.A.'75, M.A.'77, University of Northern Colorado. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.

Jocelyn Te Teh, Philippines
B.S. magna cum laude '80, University of the Philippines. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.

Michael Scott Undlin, Plymouth
B.E.S.'81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. R.B. Upson. October Graduate.

Deborah Gardner Vigeland
B.A.'69, Carleton College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. September Graduate.

Stephen Robert White
B.S.'75, Northern Illinois University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.

Master of Business Administration UNIVERSITY OF MINNESOTA, DULUTH

Timmie O. Brittan
B.S.'75, University of Wisconsin, Superior. Major: Business Administration. Major Adviser: Prof. K.R. Knudsen. Graduation Pending.

**Robert George Hoffner, Jr., Silver
Bay**
B.S.'74, St. Cloud State University. Major: Business Administration. Major Adviser: Prof. F.G. Dimian. Graduation Pending.

Jeffery George Jackson, Duluth
B.Acet. cum laude '77, B.B.A. magna cum laude '77, University of Minnesota, Duluth. Major: Business Administration. Major Adviser: Prof. H.K. Kim. Graduation Pending.

Master of Business Taxation

Michael O. Astrup
B.S. magna cum laude '83, Moorhead State University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

Wayne A. Bachman, Blaine
B.A. magna cum laude '74, Luther College. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. September Graduate.

Daniel P. Bork
B.S. magna cum laude '79, Winona State University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

William R. Dodds, Osseo
B.S. cum laude '79, St. Cloud State University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

James Leslie Etter
B.S.'70, Mankato State College. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

Jeffrey Oren Fink, St. Louis Park
B.S.B.'82, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. September Graduate.

Laura Lynn Nagel
B.A.'67, B.B.A.'73, University of Iowa. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

Randall Lee Ruegg
B.S.'82, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

Michael Matthew Whalin
B.S.'70, St. Cloud State University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

Joseph Bruce Witwicke
B.Acet. cum laude '82, University of Minnesota, Duluth. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. October Graduate.

Master of Civil Engineering

Loyal E. Gake

B.S. '71, Wisconsin State University; B.S.C.E. '75, Marquette University. Major: Civil Engineering. Minor: Related Fields. Project: Hydropower Feasibility at the Fish Hook River Dam MN 00234. Major Adviser: Prof. R.E.A. Arndt. Graduation Pending.

Master of Fine Arts

Terry M. Davidson

B.F.A. '80, Kent State University. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. T.J. Lane. October Graduate.

Daniel James Huizenga

B.A. cum laude '79, Hope College. Major: Theater Arts. Minor: Art History. Major Adviser: Prof. W.E. Hamilton. Graduation Pending.

James Bethel Hussey, Northfield

B.A. cum laude '82, St. Cloud State University. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. W.E. Hamilton. September Graduate.

Sonia Marie Larson

B.A. '66, Eastern Washington State College. Major: Music. Minor: Related Fields. Major Adviser: Prof. D.C. Ware. October Graduate.

Scott Donald Latendresse

B.S. summa cum laude '79, Mankato State University. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. C.L. Brockman. Graduation Pending.

John A. Lopricno

B.A. with high honors '82, Lewis University. Major: Theater Arts. Minor: Related Fields. Major Adviser: Prof. Barbara Reid. October Graduate.

Mark M. Ostapchuk

B.F.A. '81, University of Minnesota. Major: Studio Arts. Minor: Art History. Major Adviser: Prof. T.R. Cowette. October Graduate.

Bambi Peterson

B.F.A. '81, University of Minnesota. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. J.V. Henkel. Graduation Pending.

Master of Music

Lawrence Robert Henry, St. Paul

B.A. '76, Carleton College. Major: Music. Major Adviser: Prof. T.S. Lancaster. Graduation Pending.

Pamela Jane Humphrey

B.A. magna cum laude '80, Concordia College. Major: Music. Major Adviser: Prof. D.B. Baldwin. October Graduate.

James Edward McKeel, St. Paul

B.M. cum laude '76, Westminster College. Major: Music. Major Adviser: Prof. Lawrence Weller. October Graduate.

Master of Planning

Robert Craig Howes, Rochester,
Mich.

B.A. '82, University of Michigan, Ann Arbor. Major: Planning. Major Adviser: Prof. J.M. Bryson. September Graduate.

Anne Marie Knapp, St. Paul

B.A. '79, University of Wisconsin, River Falls. Major: Planning. Major Adviser: Prof. S.M. Fass. Graduation Pending.

Janice Marie Schuler, St. Paul

B.A. '81, Macalester College. Major: Planning. Major Adviser: Prof. S.M. Fass. Graduation Pending.

Master of Science

Rodman Peyton Abbott

B.A. '80, University of Minnesota, Morris. Major: Physics. Minor: Related Fields. Major Adviser: Prof. H.J. Oskam. October Graduate.

Idris Mohamed Abdelgadir, Sudan

B.S. with honors '80, University of Khartoum. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. W.R. Maki. Graduation Pending.

Susan Mae Adams, Crystal

B.S. '83, University of Minnesota. Major: Animal Physiology. Minor: Related Fields. Major Adviser: Prof. E.F. Graham. September Graduate.

Nikki Lee Aliota

B.S. '75, University of Wisconsin, Oshkosh. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Patricia Crisham. Graduation Pending.

Hany Mounir Atchan, Beirut,

Lebanon

B.S. with distinction '82, Beirut University College. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. S.C. Bruell. Graduation Pending.

Brian Leroy Bachelder

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

Patricia Ann Barnes

B.S. with distinction '82, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rodc. October Graduate.

Vincent Alexander Barnett,

Burnsville

B.S. '79, Oregon State University. Major: Biochemistry. Minor: Chemistry. Thesis: Saturation Transfer EPR of Spin-Labeled Muscle Fibers: Dependence on Sarcomere Length. Major Adviser: Prof. H.P.C. Hogenkamp. September Graduate.

Darold Paul Batzer, New Brighton

B.S. '80, University of Minnesota. Major: Entomology. Minor: Ecology. Thesis: Larval Ecology of *Coquillettia Perturbans* (Walker) (Diptera: Culicidae). Major Adviser: Prof. R.D. Sjogren. Graduation Pending.

Fred Lloyd Bengtson, St. Cloud

B.S. '80, University of Minnesota. Major: Wildlife. Minor: Ecology. Thesis: Studies of Lead Toxicity in Bald Eagles at the Lac Qui Parle Wildlife Refuge. Major Adviser: Prof. L.D. Frenzel. Graduation Pending.

David Glen Birky, Detroit Lakes

B.A. cum laude '75, Moorhead State University. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. W.R. Maki. Graduation Pending.

Catherine Mary Birmingham

B.A. cum laude '82, University of Wisconsin, Eau Claire. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. T.D. Graham-Tomasi. October Graduate.

Jamie Trinity Blackburn,

Minnetonka

B.A. cum laude '82, Carleton College. Major: Ecology. Minor: Related Fields. Major Adviser: Prof. W.D. Schmid. Graduation Pending.

Barbara Diane Butzke, Mondovi, Wis.

B.S.N. '82, University of Minnesota. Major: Nursing. Minor: Related Fields. Thesis: Health Locus of Control: Incenter and Home Hemodialysis Clients. Major Adviser: Prof. Mariah Snyder. Graduation Pending.

James John Caezza

B.S. '82, State University of New York, Buffalo. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. R.L. Broekemier. September Graduate.

Kouchuan Chang, Republic of China

B.S.E. '79, National Taiwan University. Major: Computer and Information Sciences. Minor: Electrical Engineering. Major Adviser: Prof. D.H. Du. Graduation Pending.

Louis Brian Chapko

B.S. with high honor '82, Michigan State University. Major: Plant Breeding. Minor: Related Fields. Thesis: Leaf Angle and Yield in Barley. Major Adviser: Prof. D.C. Rasmusson. October Graduate.

Shu-Cheng Chen

B.C.S. '81, University of Minnesota. Major: Computer and Information Sciences. Minor: Electrical Engineering. Major Adviser: Prof. P.V. Afshari. Graduation Pending.

Lynn Marie Convery

B.S. '76, University of New York, Stony Brook. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.S. Sodergren. October Graduate.

Nelson Luis Dalo, Venezuela

D.V.M. '73, Universidad Centro Occidental. Major: Veterinary Physiology and Pharmacology. Minor: Related Fields. Thesis: Quantification of Tryptamine in the Brain of Rat Using High Performance Liquid Chromatography. Major Adviser: Prof. A.A. Larson. Graduation Pending.

Kathleen Adele Daniels, Milwaukee, Wis.

B.S.'79, University of Minnesota. Major: Biometry and Health Information Systems. Minor: Ecology. Major Adviser: Prof. R.B. McHugh. Graduation Pending.

John V. Dean

B.S. cum laude '82, Milliken University. Major: Botany. Minor: Related Fields. Thesis: The Influence of *Typha Latifolia* L. (Typhaceae) on the Nitrogen Cycling in a Freshwater Marsh. Major Adviser: Prof. D.D. Biesboer. October Graduate.

Maladho Diallo

Major: Animal Science. Minor: Related Fields. Thesis: Influence of Sodium Carbonate-Based Solutions and/or Sodium Diacetate on Quality and Nutritive Value of Alfalfa Hay. Major Adviser: Prof. M.D. Stern. October Graduate.

Kim Michael Fairchild

B.A.'80, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Computer Generated Synthesized Imagery. Major Adviser: Prof. P.V. Afshari. Graduation Pending.

Martha C. Fuentes, Mexico

D.V.M.'79, Universidad Nacional Autonoma de Mexico. Major: Veterinary Medicine. Minor: Related Fields. Thesis: Interaction Between Vaccinal or Pathogenic Pseudorabies Virus and *Pasteurella Multocida* in Pneumonia of Young Pigs. Major Adviser: Prof. A.D. Leman. Graduation Pending.

Mehryar Khalili Garakani, Tehran, Iran

B.S.E.E.'82, Purdue University. Major: Physics. Minor: Mathematics. Major Adviser: Prof. D.K. Dehnhard. September Graduate.

Nancy Jane Gire, Jackson, Mich.

B.S.'81, Michigan State University. Major: Soil Science. Minor: Related Fields. Thesis: Relating Soil Survey Data to Crop Responses and Land Management. Major Adviser: Prof. T.H. Cooper. September Graduate.

William Mark Goodman

B.A. with honors '80, Princeton University. Major: Ecology. Minor: Related Fields. Major Adviser: Prof. H.B. Tordoff. Graduation Pending.

Pearletta Anne Graves

B.S.'73, A. and T. State University of North Carolina. Major: Home Economics. Minor: Related Fields. Major Advisers: Profs. M.P. Grundereng and G.M. Williams. 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. Graduation Pending.

Scott Michael Hannah

B.S.'80, B.S.'82, University of Illinois. Major: Animal Science. Minor: Biochemistry. Thesis: Comparison Between in Vitro and in Vivo Digestion in the Rumen and the Effects of Niacin Supplementation on Bacterial Protein Synthesis. Major Adviser: Prof. M.D. Stern. Graduation Pending.

Edwin Richard Hendrickson

B.A.E.'77, University of Minnesota. Major: Forestry. Minor: Mechanical Engineering. Thesis: An Investigation of the Influence of Simple Electrolytes on the Adsorption of an Anionic and a Cationic Polyacrylamide by Hardwood Kraft Pulp. Major Adviser: Prof. R.D. Neuman. September Graduate.

Susan Joan Henly, St. Paul

B.S.'74, College of St. Teresa. Major: Nursing. Minor: Related Fields. Thesis: Infant Sleep During Newborn Intensive Care: The Effects of Maturity, Intensity of Caregiving, Respiratory Pathology, and Body Position. Major Adviser: Prof. M.L. Duxbury. Graduation Pending.

Ramon C. Hermida, Santiago de Compostela, Spain

Ing.Tel.'81, Escuela Tecnica Superior de Ingenieros de Telecommunication. Major: Statistics. Minor: Pathobiology. Major Adviser: Prof. Christopher Bingham. Graduation Pending.

Annette Teresa Herz

B.S. magna cum laude '82, Kearney State College. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Mumro. Graduation Pending.

Mian Khalid Iqbal

B.D.S.'77, University of Peshawar. Major: Dentistry. Minor: Anatomy. Thesis: Thermoplastic Flow of Gutta Percha Formulations into Accessory Canals. Major Adviser: Prof. H.H. Messer. Graduation Pending.

Duaine Raymond Jackola, Cedarburg, Wis.

B.A.'70, Macalester College. Major: Biophysical Sciences. Minor: Related Fields. Major Advisers: Profs. Andreas Rosenberg and J.J. O'Leary. Graduation Pending.

Roy Allen Johnson, Waseca

B.S. with high distinction '72, University of Minnesota. Major: Agricultural Economics. Minor: Related Fields. Major Adviser: Prof. K.E. Egerton. Graduation Pending.

Kerry Lee Keen

B.S.E. magna cum laude '73, University of Wisconsin, Whitewater. Major: Geology. Minor: Related Fields. Thesis: Sand Dunes on the Anoka Sand Plain. Major Adviser: Prof. H.E. Wright, Jr. Graduation Pending.

Susan Jayne Klein, Elk River

B.A. '82. College of St. Benedict. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. J.B. Stevens. Graduation Pending.

Jacqueline Kay Kuennen, Pringhar,

Iowa

B.S.N. '73. University of Iowa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. E.C. Egan. Graduation Pending.

Mohamed Farid Laaboudi, Tanger,

Morocco

Lic. '76. Mait. '77. Universite Pierre et Maire Curie; Dipl.Ing. '80. Ecole Nationale Supérieure des Telecommunications. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. S.C. Bruell. Graduation Pending.

Ronald Brian Larson, Montevideo

B.S. with high distinction '81. University of Minnesota. Major: Agricultural Economics. Minor: Related Fields. Thesis: Discount Coupons Consumers. Major Adviser: Prof. J.D. Kindsey. Graduation Pending.

Michael Lee

B.S. '81. Rutgers University. Major: Plant Breeding. Minor: Related Fields. Thesis: Cytogenetic Analysis and Progeny Evaluation of Maize (*Zea mays* L.) Plants Regenerated from Organogenic Callus Cultures. Major Adviser: Prof. R.L. Phillips. October Graduate.

Seung-Jong Lee

D.D.S. '75. M.D.Surg. '80. Seoul National University. Major: Dentistry. Minor: Related Fields. Thesis: Radiographic Findings of Artificially Created Periapical Lesions. Major Adviser: Prof. H.H. Messer. Graduation Pending.

Kristine Anne Lenz

B.S. '74. University of Wisconsin, Madison. Major: Nutrition. Minor: Related Fields. Major Adviser: Prof. A.S. Leon. October Graduate.

Heng-Chen Lin

B.C.S. '82. University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. H.K. Berg. October Graduate.

Kathryn Ann Louis

B.S. '81. University of Wisconsin, River Falls. Major: Horticulture. Minor: Botany. Thesis: Factors Influencing the Micropropagation of *Alnus* Species. Major Adviser: Prof. P.E. Read. Graduation Pending.

Karla Sue Lowe-Phelps

B.S. '75. University of Iowa. Major: Nursing. Minor: Related Fields. Thesis: A Comparative Study of Life Satisfaction and Health in Widowed Women Who Have and Have Not Been Employed. Major Adviser: Prof. E.C. Egan. Graduation Pending.

Tze-Hong Lu

Major: Plant Pathology. Minor: Related Fields. Thesis: Electrophoresis and Isozyme Genetics of Bean Rust (*Uromyces appendiculatus*). Major Adviser: Prof. J.V. Groth. October Graduate.

Janet Eileen Lynch

B.S. '79. University of Minnesota. Major: Environmental Health. Minor: Food Science. Thesis: The Influence of Environmental Storage Conditions on the Thermal Resistance of Biological Indicator Units. Major Adviser: Prof. I.J. Pflug. October Graduate.

Kathleen Ann Malloy, Ironwood,

Mich.

B.S.N. '73. University of Wisconsin, Madison. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. E.C. Egan. Graduation Pending.

Richard Allan Margl, St. Paul

B.S. with distinction '83. University of Minnesota. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. P.V. Ellefson. September Graduate.

Anne Vivian Mason

B.A. cum laude with high honors '79. Smith College. Major: Physics. Minor: Related Fields. Major Adviser: Prof. A.M. Goldnan. October Graduate.

Patricia Lois Maus, Rochester

B.A. magna cum laude '80. Luther College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Mariah Snyder. Graduation Pending.

Elizabeth Ann McNamara

B.S. magna cum laude '80. St. John's University. Major: Nutrition. Minor: Related Fields. Thesis: Breath Hydrogen and Methane as Indicators of Apparent Fiber Digestion. Major Adviser: Prof. J.L. Slavin. Graduation Pending.

Mohamed Mghizou, Morocco

Dipl.Agro.Gen. '82. Institut Agronomique et Veterinaire Hassan II. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. E.I. Fuller. Graduation Pending.

Monte Robert Miles

B.A. '78. University of Montana. Major: Plant Pathology. Minor: Related Fields. Thesis: Kernel Discoloration of Barley: Effects of Environment and Microflora. Major Adviser: Prof. R.D. Wilcoxson. Graduation Pending.

James Robert Miller

B.S. '80. Fort Lewis College. Major: Chemistry. Minor: Related Fields. Thesis: A Study of Derivatives Obtained From Cyclic Diene Diols. Major Adviser: Prof. S.W. Fenton. Graduation Pending.

Maureen J. Miller, Deerfield, Ill.

B.S.N. cum laude '78. Vanderbilt University. Major: Biometry and Health Information Systems. Minor: Related Fields. Major Adviser: Prof. L.B. Ellis. September Graduate.

ABD. Manap Yazid Mohd, Melaka, Malaysia

B.S.'84, University of Minnesota. Major: Animal Science. Minor: Related Fields. Thesis: Evaluation of Chemically Conditioned Alfalfa Hay to Hasten Field Drying. Using Growing Holstein Heifers. Major Adviser: Prof. J.D. Donker. September Graduate.

Richard Kevin Molnar, St. Paul

B.S.'67, Georgetown University; M.S.'69, Ph.D.'73, University of North Carolina. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. S.C. Bruell. September Graduate.

Kathleen Marie Monahan-Rial, St. Paul

B.S.N.'82, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. B.M. Feldman. Graduation Pending.

Carl Reed Monson

B.S.'80, University of Minnesota. Major: Forestry. Minor: Statistics. Thesis: Evaluation of Suitability and Market Potential of White Birch Furniture Dimension Produced in Northern Minnesota. Major Adviser: Prof. J.L. Bowyer. Graduation Pending.

Sandra Lynn Moses, Milwaukee, Wis.

B.S.'77, University of Wisconsin, Madison. Major: Home Economics. Minor: Related Fields. Major Adviser: Prof. Peter Brown. Graduation Pending.

Mutsuko Nakanishi

B.A.'69, Meiji Gakuin University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. E.C. Egan. October Graduate.

John Gary Newman

B.A.'80, Gustavus Adolphus College. Major: Chemistry. Minor: Related Fields. Thesis: Plasma Etching and Thin Film Analysis of Polymer Coated Electrodes. Major Adviser: Prof. J.F. Evans. Graduation Pending.

Emily Anne Nietering

B.A. summa cum laude '80, Western Michigan University. Major: Botany. Minor: Ecology. Thesis: Floristic Survey of the Granite Outcrops of the Minnesota River Valley. Major Adviser: Prof. Thomas Morley. Graduation Pending.

Sayuri Nishimura

B.S.'78, M.S.'80, University of Tokyo. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. October Graduate.

Catherine Marie O'Connell, St. Paul

B.A.'82, College of St. Catherine. Major: Agricultural Economics. Minor: Statistics. Major Adviser: Prof. J.J. Waclti. September Graduate.

Hilda Nevius O'Hanley

B.A.'80, Bryn Mawr College. Major: Geology. Minor: Related Fields. Thesis: Chemical Changes During Diagenesis of Calcareous Ooze: An Experimental Study. Major Adviser: Prof. W.E. Seyfried. Graduation Pending.

Kathy Susan Orth, Byron

B.S.'78, College of St. Teresa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Mariah Snyder. Graduation Pending.

Susan Carrie Pickerign

B.S. with high distinction '79, University of Minnesota. Major: Food Science. Minor: Business Administration. Thesis: Prediction and Analysis of Shelf Stability of an Oat Bran Cereal With Antioxidants. Major Adviser: Prof. T.P. Labuza. October Graduate.

Scott Duane Posner

B.S.'82, University of Minnesota. Major: Forestry. Minor: Related Fields. Thesis: Effects of Deciduous Shrubs on Young White Spruce, With Reference to Moose, in Northeastern Minnesota. Major Adviser: Prof. Vilis Kurmis. October Graduate.

Bentley H. Preece

B.C.S.'81, University of Minnesota. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. Lawrence Grey. October Graduate.

Xiaodong Qian

Dipl. '82, Beijing College of Chinese Traditional Medicine. Major: Pharmacognosy. Minor: Related Fields. Thesis: Isolation and Culture of Protoplasts From Three Papaver Species: *P. Somniferum*, *P. Bracteatum* and *P. Orientale*. Major Adviser: Prof. E.J. Staba. Graduation Pending.

Josefina Quirante

Lic. '78, Universidad de Barcelona. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Transition State Peptide Analogues as Inhibitors of Renin. Major Adviser: Prof. R.L. Johnson. Graduation Pending.

Nancy Roberts Read, St. Paul

B.A.'80, St. Olaf College. Major: Entomology. Minor: Related Fields. Thesis: Diapause Induction and Development in Face Fly, (*Musca autumnalis* DeGeer). Major Adviser: Prof. R.D. Moon. September 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. Graduation Pending.

Raquel Rodriguez, Puerto Rico

B.S. Pharm.'81, University of Puerto Rico. Major: Social and Administrative Pharmacy. Minor: Related Fields. Major Adviser: Prof. H.F. Kabat. September Graduate.

Richard Henry Sackett, Minneapolis
B.C.S.'82, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. September Graduate.

Robert Patrick Schmid, Omaha, Neb.

B.S.'81, University of Nebraska. Major: Physiology. Minor: Related Fields. Thesis: The Effects of Cigarette Smoke and Elastase on Alveolar Epithelial Membrane Permeability. Major Adviser: Prof. O.D. Wangensteen. September Graduate.

James Elmer Schreiner, Deer Park, Wis.

B.M.E.'70, D.D.S.'77, University of Minnesota. Major: Dentistry. Minor: Related Fields. Thesis: A Kinematic and Computer Simulated Analysis of the Hanau 96H2, Hanau 158 and Denar D5 Dental Articulators. Major Adviser: Prof. R.J. Goodkind. Graduation Pending.

Alan Arthur Schulz, Winona

B.S.'77, Winona State University. Major: Public Health. Minor: Epidemiology. Thesis: Workplace Injuries in Hmong Refugee Populations. Major Adviser: Prof. S.G. Gerberich. Graduation Pending.

Geetha Seshaiyar, Madras, India

M.S.'81, University of Madras. Major: Physics. Minor: Related Fields. Major Adviser: Prof. R.K. Hobbie. Graduation Pending.

Edward Kenneth Shultz

B.S.'75, University of Oregon; M.D.'79, Yale University. Major: Biophysical Sciences. Minor: Related Fields. Major Adviser: Prof. S.M. Finkelstein. September Graduate.

Robin Lynn Steele

B.S.'82, Utah State University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. October Graduate.

Christene Marie Stenger

B.S. Pharm.'81, University of Minnesota. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. R.L. Broekemeier. Graduation Pending.

Linda Susan Stone

B.S.'82, University of Minnesota. Major: Food Science. Minor: Related Fields. Thesis: Disruption of Bacterial Attachment on Food Contact Surfaces. Major Adviser: Prof. E.A. Zottola. Graduation Pending.

Sharon Yehudit Strauss, New York, N.Y.

B.A. cum laude '78, Radcliffe College. Major: Ecology. Minor: Statistics. Thesis: Patterns of Dispersal and Host Plant Use in a Subalpine Population of *Chrysophtharta hectica* (Coleoptera: Chrysomelidae). Major Adviser: Prof. P.A. Morrow. September Graduate.

Scott David Swanson

B.S.'80, University of Michigan. Major: Chemistry. Minor: Related Fields. Thesis: Theoretical and Experimental Treatment of Oriented Quadrupolar Nuclei by N.M.R. Spectroscopy. Major Adviser: Prof. R.G. Bryant. Graduation Pending.

Rebecca Jackson Swora

B.S.N.'79, Texas Christian University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. Graduation Pending.

Gail Dawn Olson Tabone

B.A.'82, University of Minnesota. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. B.M. Buxton. October Graduate.

Janese Valerie Thatcher

B.S.A.'75, University of Georgia. Major: Plant Pathology. Minor: Related Fields. Thesis: The Effect of Conservation Tillage and Crop Sequencing on the Incidence of Foliar Diseases and Yield of Wheat. Major Adviser: Prof. R.D. Wilcoxson. October Graduate.

You Tian, People's Republic of China

Dipl. '82, Anshan College of Iron and Steel Technology. Major: GeoEngineering. Minor: Related Fields. Major Adviser: Prof. S.L. Crouch. Graduation Pending.

Carlos Enrique Tobon, Colombia

Ing. '82, Escuela Politecnica Nacional. Major: Computer and Information Sciences. Minor: Business Administration. Major Adviser: Prof. P.V. Afshari. September Graduate.

Kun-Shun Tsai, Taiwan, Republic of China

B.S.'78, National Taiwan University. Major: Food Science. Minor: Chemical Engineering. Thesis: Quantification of Cholesterol Oxidation Products by Capillary Gas Chromatography. Major Adviser: Prof. P.B. Addis. September Graduate.

James William Vandrueten, Duluth

B.A. summa cum laude '81, University of Minnesota, Duluth. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. Graduation Pending.

Eric Jose Weigel, Washington, D.C.
B.S. with distinction '82, Iowa State University. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. K.W. Easter. September Graduate.

Robert Allen Westgate
B.S. cum laude '82, California State Polytechnic University. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: Returns to Investment in Forestry Research: The Case of Containerized Forest Tree Seedlings. Major Adviser: Prof. H.M. Gregersen. Graduation Pending.

Marlene Dorothy Wuethrich
B.S.N. with high distinction '78, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. October Graduate.

David Anthony Yurek, Afton
B.S. summa cum laude '80, Winona State University. Major: Chemistry. Minor: Related Fields. Major Adviser: Prof. R.F. Borch. Graduation Pending.

Elizabeth Wilke Zimmermann, Minneapolis
B.A. '62, Carleton College. Major: Horticulture. Minor: Related Fields. Thesis: Micropropagation of *Typha spp.* Major Adviser: Prof. P.E. Read. September Graduate.

Master of Science

UNIVERSITY OF MINNESOTA, DULUTH

Richard Carl Clark
B.S. '81, Michigan Technological University. Major: Geology. Minor: Internal. Thesis: The Structural Geology of the Thomson Formation, Cloquet and Esko Quadrangles, East Central Minnesota. Major Adviser: Prof. R.B. Holst. Graduation Pending.

Barbara M. Halfinan
B.S. '82, University of Minnesota. Major: Geology. Minor: Related Fields. Thesis: Suspended Solids in the Western Arm of Lake Superior. Major Adviser: Prof. D.G. Darby. October Graduate.

Richard Jonathan Meyer, Watertown, S.D.
B.A. '77, Carleton College. Major: Chemistry. Minor: Related Fields. Thesis: Anodic Stripping Voltammetry. Major Adviser: Prof. T.J. Bydalek. Graduation Pending.

Julia Ann Sykes
B.S. '81, University of Birmingham. Major: Geology. Minor: Related Fields. Thesis: High-Grade Metamorphism of Iron-Rich Bodies in Archean Gneiss, Wind River Mountains, Wyoming. Major Adviser: Prof. J.A. Grant. Graduation Pending.

Master of Science in Aerospace Engineering

Kyle Oleen Fairchild
B.A.E.M. '83, University of Minnesota. Major: Aerospace Engineering. Minor: Industrial Engineering. Thesis: The Aerodynamics of Ground Transportation. Major Adviser: Prof. W.L. Garrard. Graduation Pending.

Scott Jarrett Forbes
B.S.C.E. with distinction '80, Purdue University. Major: Aerospace Engineering. Minor: Mathematics. Major Adviser: Prof. T.A. Wilson. October Graduate.

Koorosh Mirfakhraie
B.S.M.E. '83, George Washington University. Major: Aerospace Engineering. Minor: Mathematics. Major Adviser: Prof. B.S. Liebst. Graduation Pending.

Master of Science in Agricultural Engineering

Steven Gordon Grannes
B.Ag.E. '77, University of Minnesota. Major: Agricultural Engineering. Minor: Related Fields. Thesis: The Relationship Between Moisture Stress and Canopy Temperature in a Corn Field. Major Adviser: Prof. E.R. Allred. Graduation Pending.

Erle Conrad Pereira
B.Tech. '80, Indian Institute of Technology. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Pea Blanching. Major Adviser: Prof. D.R. Thompson. October Graduate.

**Kitti Wichetapong, 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. Graduation Pending.

Master of Science in Chemical Engineering

**Olivier Pierre Gautier, Paris,
France**

Dipl. Ing. '83, Institut Industriel du Nord; Maitrise '83, Université des Sciences et Techniques de Lille. Major: Chemical Engineering. Minor: Related Fields. Thesis: Process Control Optimization Theory Applied to Complex Chemical Systems. Major Adviser: Prof. R.W. Carr. Graduation Pending.

Walter Resch

B.Ch.E. with distinction '83, University of Minnesota. Major: Chemical Engineering. Minor: Related Fields. Thesis: The Spinning Drop Apparatus for Interfacial Tension Measurement. Major Adviser: Prof. L.E. Scriven. Graduation Pending.

Thomas James Kedrowski

B.S. cum laude '80, St. John's University. Major: Chemical Engineering. Minor: Related Fields. Thesis: Synthesis and Characterization of Polycarbazole: A New Electrically Conductive Polymer. Major Advisers: Profs. S.T. Wellinghoff and M.V. Tirrell. Graduation Pending.

Master of Science in Civil Engineering

Abdolreza Assadi-Lamouki

B.C.E. '82, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. Ladislav Cerny. Graduation Pending.

Master of Science in Dentistry

MAYO GRADUATE SCHOOL OF MEDICINE

George Lawrence Nance

B.S. '69, College of William and Mary in Virginia; D.D.S. '75, Virginia Commonwealth University. Major: Dentistry. Minor: Related Fields. Thesis: A Study of Forces Necessary to Dislodge Pin-Retained Amalgam Crown as Compared to a Non-Pin Retained Method. Major Adviser: Prof. R.P. Desjardins. Graduation Pending.

Thomas Patrick Rose

B.A. '71, California State College at Fullerton; D.D.S. '76, Creighton University. Major: Dentistry. Minor: Biometry. Thesis: The Relationship of Bonding Base Size of Directly Bonded Orthodontic Brackets to Bond Strength and to Bending Properties of Orthodontic Wires. Major Advisers: Profs. A.H. Sather and E.Y. Chao. Graduation Pending.

Roger J. Oldroyd, Richfield, Utah

B.S. '69, Brigham Young University; D.D.S. '77, University of Tennessee. Major: Dentistry. Minor: Biometry and Health Information Systems. Thesis: The Addition of Fluoride to Enamel Surfaces During the Direct Bonding of Orthodontic Attachments: Resultant Bond Strength and Scanning Electron Microscope Analysis. Major Adviser: Prof. A.H. Sather. September Graduate.

Master of Science in Electrical Engineering

Wei-Chen Chu

B.E.E. '83, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. J.E. Holte. Graduation Pending.

Bradley William Fawcett

B.S.E.E.'80, South Dakota School of Mines and Technology. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. R.Y. Kain. Graduation Pending.

Jacob Fuchs

B.A.'82, Tech., Israel Institute of Technology. Major: Electrical Engineering. Minor: Related Fields. Thesis: MBE Growth and Rheed Surface Analysis of GaAs (110). Major Adviser: Prof. P.I. Cohen. Graduation Pending.

William John Goetzinger, Rochester

B.S.'76, Iowa State University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. J.E. Holte. September Graduate.

William Kim Hogan

B.S.'73, Michigan State University. Major: Electrical Engineering. Minor: Mathematics. Major Adviser: Prof. K.S. Champlin. Graduation Pending.

Ronald Scott Indeck, St. Louis Park

B.E.E. with distinction '81, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Magnetoresistive Thin Film Read Head and Transducer. Major Adviser: Prof. J.H. Judy. Graduation Pending.

Nam Chung Li

B.S. with second class honors '69, University of Hong Kong. Major: Electrical Engineering. Minor: Related Fields. Thesis: Voltage Independent Current Sources. Major Adviser: Prof. A.A. Tuszynski. October Graduate.

Daniel Brian McGregor

B.S. with distinction '79, Purdue University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. Rolf Schaumann. Graduation Pending.

Mark Allan Molehaar

B.S.'81, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: Deposition of Thin Molybdenum by Electron-Beam Promoted Reactions. Major Adviser: Prof. W.T. Peria. Graduation Pending.

Eric Ngao Mui

B.S. with honors '78, Purdue University. Major: Electrical Engineering. Minor: Chemical Engineering. Major Adviser: Prof. K.S. Kumar. Graduation Pending.

Toan Dinh Nguyen

B.E.E. with distinction '81, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Design and Construction of an Electron Energy Loss Spectrometer. Major Adviser: Prof. W.T. Peria. Graduation Pending.

Theodore Alexander Olson,

Minneapolis

B. Physics with distinction '76, B.E.E. with distinction '76, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. B.A. Shenoi. Graduation Pending.

Lynn Marie Rukavina

B.S.E.E. with honor '83, University of Notre Dame. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. L.L. Kinney. October Graduate.

Ursula Monika Schwuttke

B.S. magna cum laude '83, Brown University. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. A.A. Tuszynski. October Graduate.

Lee Anton Sendelbach

B.S.E.E.'79, University of Wisconsin, Madison. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. R.Y. Kain. Graduation Pending.

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. Graduation Pending.

Long Phung Tran

B.E.E.'81, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: Common-Mode Rejection Ratio of Differential Amplifiers. Major Adviser: Prof. A.A. Tuszynski. Graduation Pending.

Hilmi Unlu

Dipl.'78, University of Istanbul. Major: Electrical Engineering. Minor: Physics. Thesis: The Deviations of the Silicon PN Diode Forward Characteristic From the Ideal Characteristic at Lower Forward Currents. Major Adviser: Prof. Allen Nussbaum. Graduation Pending.

Alister Chun-Fung Young, Hong Kong
B.E.E.'81, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Surface Acoustic Wave Phase Modulator. Major Adviser: Prof. W.P. Robbins. Graduation Pending.

Gene Bovee Zemske, Minneapolis
B.Physics '71, B.E.E'77, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: A Chip for Soft Error Diagnostics. Major Adviser: Prof. A.A. Tuszynski. September Graduate.

Master of Science in Industrial Engineering

Joon Young Park, Korea
B.E.'82, Hanyang University. Major: Industrial Engineering. Minor: Statistics. Major Adviser: Prof. P.J. Starr. Graduation Pending.

Master of Science in Mechanical Engineering

Kang-Ho Ahn
B.E.'82, Hanyang University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Measurement of Carbon Particles With a Flame Ionization Detector. Major Adviser: Prof. D.B. Kittelson. October Graduate.

Robert Anthony Bengal, Rochester
B.S.M.E. cum laude '77, University of Cincinnati. Major: Mechanical Engineering. Minor: Mathematics. Thesis: An Analytical Investigation Into the Effects of a Mass With Rotational Inertia on a Cantilever Beam. Major Adviser: Prof. D.A. Frohrib. Graduation Pending.

Jagadish S.N. Buddhavarapu
B.Tech.'81, Jawaharlal Nehru Technological University. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: An Experimental Study of Transitional Boundary Layers on a Flat Plate. Major Adviser: Prof. T.W. Simon. Graduation Pending.

Keri Ann Butler
B.S.M.E. with distinction '82, University of New Mexico. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Effect of Entrainment on the Heat Transfer Between a Flat Surface and Impinging Circular Air Jets. Major Adviser: Prof. R.J. Goldstein. Graduation Pending.

Kanchan Moreshwar Kelkar
B.Tech.'82, Indian Institute of Technology. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Numerical Prediction of Fluid Flow and Heat Transfer in a Parallel Plate Channel With Staggered Fins. Major Adviser: Prof. S.V. Patankar. Graduation Pending.

Gustavo Adolfo Nunez-Testa
Ing.Mecanico '81, Universidad Simon Bolivar. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Evaporation in the Presence of Natural Convection and Nonuniform, Nonbuoyant Velocity Profiles. Major Adviser: Prof. E.M. Sparrow. October Graduate.

Arthur John Stretton, Canada
B.A.S.'80, University of Waterloo. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Natural Convection From a Cube in Various Orientations. Major Adviser: Prof. E.M. Sparrow. September Graduate.

Master of Science in Medicine

MAYO GRADUATE SCHOOL OF MEDICINE

William Edward Stricker
B.A. with distinction '78, M.D.'78, University of Missouri. Major: Medicine. Minor: Related Fields. Thesis: Effect of Fluoride in Calcium Treatment in Corticosteroid-Induced Bone Loss. Major Adviser: Prof. C.E. Reed. October Graduate.

Master of Science in Orthopedic Surgery

MAYO GRADUATE SCHOOL OF MEDICINE

Peter Goodrich Buck

B.A. '75, University of Colorado; M.D. '78, University of Iowa. Major: Orthopedic Surgery. Minor: Related Fields. Thesis: Long Term Follow-Up of Ankle Arthrodesis with Gait Analysis. Major Adviser: Prof. E.Y.S. Chao. Graduation Pending.

Daniel Allen Funk

B.S. '77, Worcester Polytechnical Institute; M.D. '81, University of Cincinnati. Major: Orthopedic Surgery. Minor: Related Fields. Thesis: EMG Investigation of Muscular Contractions About the Human Elbow. Major Adviser: Prof. B.F. Morrey. Graduation Pending.

Kevin Addington Weidman

B.S. '75, University of Washington; M.D. '79, Mayo Medical School. Major: Orthopedic Surgery. Minor: Related Fields. Thesis: The Influence of Tenorrhaphy on the Healing of Partial Lacerations of Flexor Tendons: A Review of the Literature and Experimental Studies in Canines. Major Adviser: Prof. W.P. Cooney. Graduation Pending.

Master of Science in Otolaryngology

Rana Sushil Sahni

M.B.B.S. '72, Guru Nanak University. Major: Otolaryngology. Minor: Anatomy. Thesis: Human Round Window Membrane Studies in Normal Subjects and Those With Otitis Media Analyzed by Age. Major Adviser: Prof. M.M. Paparella. September Graduate.

Master of Science in Pediatrics

MAYO GRADUATE SCHOOL OF MEDICINE

John Alfred Zora

B.S. magna cum laude '75, Allegheny College; M.D. '79, Pennsylvania State University. Major: Pediatrics. Minor: Related Fields. Thesis: Hypothalamic-Pituitary-Adrenal Axis Suppression Following Short-Term, High-Dose Glucocorticoid Therapy in Asthmatic Children. Major Adviser: Prof. J.W. Yunginger. October Graduate.

Master of Social Work

Janet Mary Breene, Minneapolis

B.S. '83, University of Minnesota. Major: Social Work. Major Adviser: Prof. J.K. Quam. Graduation Pending.

Elizabeth Mary Ferron, Cannon

Falls

B.A. '80, Hamline University. Major: Social Work. Major Adviser: Prof. M.R. Cohn. Graduation Pending.

Gretchen Rose Harry, La Crosse,

Wis.

B.A. '80, University of Wisconsin, Madison. Major: Social Work. Major Adviser: Prof. M.R. Cohn. Graduation Pending.

Daisey P. Henderson, Minneapolis

B.S. '82, University of Minnesota. Major: Social Work. Major Adviser: Prof. S.T. Battle. September Graduate.

Anne Marie Johnson

B.S. '81, University of Minnesota. Major: Social Work. Major Adviser: Prof. Annalee Stewart. October Graduate.

Carole Wilcox Johnson

B.S. '81, University of Wisconsin, River Falls. Major: Social Work. Major Adviser: Prof. N.F. Bracht. October Graduate.

Anne Patricia Leefeldt

B.A. summa cum laude '81, University of Minnesota. Major: Social Work. Major Adviser: Prof. C.D. Hollister. October Graduate.

Patricia Mahoney Pearson, Mound
B.A. '79, University of Minnesota. Major: Social Work. Major Adviser: Prof. P.A. AuClaire. Graduation Pending.

Curtis Reuben Peterson, Lino Lakes
B.A. '75, Chapman College; M.S.Ed. '78, University of Southern California. Major: Social Work. Major Adviser: Prof. N.F. Bracht. Graduation Pending.

Edmund Bourne Rousmaniere
B.A. '82, University of Minnesota. Major: Social Work. Major Adviser: Prof. Annalee Stewart. Graduation Pending.

Richard Eli Selvik II
B.A. '81, St. Olaf College. Major: Social Work. Major Adviser: Prof. C.D. Hollister. September Graduate.

John Timothy Vertin
B.S. cum laude '77, St. John's University. Major: Social Work. Major Adviser: Prof. C.D. Hollister. October Graduate.

Nancy Marie Wilebski, Lancaster
B.S. with distinction '79, University of Minnesota. Major: Social Work. Major Adviser: Prof. I.E. Carter. Graduation Pending.

Susan Louise Wolff, Mankato
B.A. magna cum laude '79, St. Olaf College. Major: Social Work. Major Adviser: Prof. S.T. Battle. Graduation Pending.

Master of Social Work

UNIVERSITY OF MINNESOTA, DULUTH

Richard Romero Amaro, St. Paul
B.A. '74, University of Minnesota; M.S. '82, Bemidji State University. Major: Social Work. Major Adviser: Prof. W.K. Dodge. Graduation Pending.

Joanne Marie Black
Major: Social Work. Major Adviser: Prof. J.M. Kramer. Graduation Pending.

Gordon Eugene Elliott, Coppell,
Tex.
B.S. '74, North Texas State University. Major: Social Work. Major Adviser: Prof. W.K. Dodge. Graduation Pending.

Dolores Mary Flock, Morgan
B.A. '81, St. Cloud State University. Major: Social Work. Major Adviser: Prof. D.R. Falk. September Graduate.

Temprance Elizabeth Flyckt, Duluth
B.A. '80, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. D.R. Falk. Graduation Pending.

Amy Jenkins Garrison, Fargo, N.D.
B.A. cum laude '76, Moorhead State University. Major: Social Work. Major Adviser: Prof. Irl Carter. Graduation Pending.

Mindy Leah Johnson, Burnsville
B.S.D. '81, B.A. '81, University of Minnesota, Duluth. Major: Social Work. Major Adviser: Prof. J.M. Kramer. Graduation Pending.

Susan Margaret Jutz
B.A. '75, College of St. Catherine. Major: Social Work. Major Adviser: Prof. W.K. Dodge. Graduation Pending.

Michael Reginald Miller
B.S. '68, Appalachian State Teachers College. Major: Social Work. Major Adviser: Prof. J.M. Kramer. October Graduate.

Lisa Nerenberg
B.S. '76, University of Oregon. Major: Social Work. Major Adviser: Prof. W.K. Dodge. October Graduate.

Nancy Jane Sczepanski, Duluth
B.S. '72, Central Michigan University. Major: Social Work. Major Adviser: Prof. J.M. Kramer. September Graduate.

Michelle Denise Stronach, Duluth
B.S. with highest honor '76, University of Wisconsin, Superior. Major: Social Work. Major Adviser: Prof. J.M. Kramer. Graduation Pending.

Mary Faith Verzal, Hibbing
B.A.Ed. '64 Nebraska State Teachers College. Major: Social Work. Major Adviser: Prof. W.K. Dodge. Graduation Pending.

Specialist Certificate in Education

Marie Diane Friedrich
B.S.'65, St. Cloud State University; M.Ed.'78,
University of Minnesota. Field: Elementary School
Administration. Major Adviser: Prof. G.F. Alkire.
Graduation Pending.

Lynette Mary Wenner, Middle
Island, N.Y.
B.A.'76, Dowling College; M.Ed.'77, University of
Arizona, Tucson. Field: General Educational
Administration. Major Adviser: Prof. R.F.
Weatherman. Graduation Pending.

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 1984 Graduation Events

College of Agriculture, 8 p.m. November 29
Northrop Memorial Auditorium

College of Education, 7:30 p.m. December 10
Northrop Memorial Auditorium

College of Forestry, 5:30 p.m. November 29
Theater, St. Paul Student Center

General College, 7 p.m. December 7
Theater-lecture hall, Coffman Memorial Union

Graduate School, 2 p.m. December 9
Northrop Memorial Auditorium

College of Home Economics, 7 p.m. November 30
North Star Ballroom, St. Paul Student Center

College of Liberal Arts, 1 p.m. December 2
Northrop Memorial Auditorium

School of Management, 2 p.m. December 9
Auditorium, Willey Hall