



UNIVERSITY OF MINNESOTA

Fall 1989

Graduate School

Commencement



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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, veteran status, or sexual orientation.

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Additional copies of this booklet are available
from University Relations, 6 Morrill Hall, 100
Church St. S.E., University of Minnesota,
Minneapolis, Minnesota 55455.

Order of Events

Prelude Concert	From 6 to 7 p.m., music is provided by Mary Levoir, organist.
Processional	<p>At 7 p.m., the macebearer and the United States flag marshal march onto the stage, heralding the arrival of the academic procession of candidates. In the procession are administrators, faculty, distinguished guests, and regents. The order of march of candidates is as follows:</p> <p>Doctor of Philosophy Specialist Certificate in Education Doctor of Education Master's Degrees Doctor of Musical Arts</p> <p>Mary Levoir, organ; Greg Hilliard, trumpet</p>
The National Anthem	<p>As the soloist steps to the microphone, the entire audience will stand and join in singing the national anthem:</p> <p>O, say! can you see, by the dawn's early light, What so proudly we hail'd at the twilight's last gleaming, Whose broad stripes and bright stars, thro' the perilous fight O'er the ramparts we watch'd were so gallantly streaming? And the rockets' red glare, the bombs bursting in air, Gave proof thro' the night that our flag was still there, O, say, does that star-spangled banner yet wave O'er the land of the free and the home of the brave?</p>
Speaking for the University	Dean Robert T. Holt, Ph.D., Graduate School
Introduction of Commencement Speaker	Dean Robert T. Holt
Commencement Address	Dr. Russell G. Hamilton, Jr., Dean, Graduate Studies and Research, Vanderbilt University

Presentation of Candidates for Specialist and Master Degrees	Associate Dean Kenneth Zimmerman, Ph.D., will present the candidates for specialist certificate in education, master of arts, master of science, and all other master degrees to Dean Holt and the audience. All candidates will proceed across the stage as they are presented.
Presentation of Candidates for Doctoral Degrees	Associate Deans Mark Brenner, Ph.D., and Walter Weyhmann, Ph.D., will present the candidates for the degrees of Doctor of Education, Doctor of Musical Arts, and Doctor of Philosophy. After each new doctoral candidate has been hooded, Deans Brenner and Weyhmann will present him or her to Dean Holt.
Conferring of Degrees	Regent Jean Keffeler will confer certificates and degrees upon the candidates.
Closing Remarks	Dean Robert T. Holt
Hail! Minnesota	The audience will rise and join in singing the University's alma mater: Minnesota, hail to thee! Hail to thee, our college dear! Thy light shall ever be A beacon bright and clear; Thy sons and daughters true Will proclaim thee near and far; They will guard thy fame And adore thy name; Thou shalt be their Northern Star.
Recessional	The graduates will leave their seats. The audience is requested to remain seated until those in the academic procession have marched out. Mary Levoir, organ; Greg Hilliard, trumpet
Commencement Reception	The commencement reception in the lobby of Northrop Memorial Auditorium immediately follows the ceremony. All candidates and their guests are invited.

The Board of Regents requests that you adhere to the Northrop Memorial Auditorium policy that smoking is permitted only in posted areas on the west side of the lobby.

Academic Costume and the University Mace

Academic gowns date back to the 14th century, when they served two functions of nearly equal importance: to indicate the academic rank of the wearer and to keep the scholar warm in the drafty stone halls of academia.

The markings, cut, and colors of modern-day academic costume—cap, gown, and sometimes hood—indicate the academic degree, the field of study, and the institution that granted the degree.

Masters' gowns, black and untrimmed, have pointed sleeves. Doctors' gowns in the United States traditionally have been black with velvet front facings and crossbars on the sleeves, but in recent years a number of universities have adopted gowns of distinctive school colors.

The Minnesota hood, which may be worn by anyone with a doctoral degree from the University of Minnesota, is black with a maroon chevron on gold.

A new University of Minnesota doctoral gown and matching tam made their appearance in 1988 to celebrate the centenary of the first Minnesota Ph.D. The Minnesota gown is maroon trimmed with black velvet chevrons and gold metallic braid.

Each institution has its own pattern of colors on the hood, worn around the neck and down the back of the gown. The length and shape of the hood identify the most advanced degree the wearer has earned, and the velvet edging shows the field: blue for doctor of philosophy, light blue for doctor of education, and pink for doctor of musical arts.

At commencement ceremonies, degree candidates wear the gowns for the degrees they are about to receive. Hoods are worn by those who already have the degree, and new Ph.D.'s are hooded on stage.

The Mace

The University of Minnesota mace was carried for the first time in 1961 by Regents' Professor of Physics Alfred O.C. Nier at the inauguration of President O. Meredith Wilson. Art professor Philip Morton designed the mace: a crystal sphere four inches in diameter surmounted by the North Star, symbol of the state of Minnesota, on a solid aluminum handle set with the University regents' seal.

The University of Minnesota

The University of Minnesota, ranked among the nation's top ten public universities, reflects the commitment to education of a state that is only 21st in population. It is almost alone among universities in the United States in its combination of three characteristics: an international research university, a land-grant institution with a strong tradition of education and public service, and a metropolitan academic community.

The Twin Cities campus, its largest campus, is made up of 20 colleges and offers the full range of academic and professional degrees. A comprehensive campus in Duluth offers undergraduate and graduate programs. The Morris campus offers a four-year liberal arts program. Two-year technical colleges in Crookston and Waseca provide paraprofessional and technical education, primarily in agriculture-related fields. Through the Minnesota Extension Service, the University is present in each of Minnesota's 87 counties.

The University is the primary center in Minnesota (and parts of the surrounding region) for instruction and research in the health sciences, law, engineering, agriculture, and forestry: it offers all of the graduate-level programs in these fields. In all the arts and sciences and in teacher preparation the University is the only doctorate-granting institution in the state.

When the University was founded as a preparatory school in 1851, Minnesota had been a territory for just two years, and statehood was still seven years away. The school was built on not much more than the pioneers' faith in education. The University struggled financially in its early years and was forced to close during the Civil War. It reopened in 1867.

Two students received bachelor of arts degrees at the first commencement in June 1873. Since then, the University has granted a total of 429,304 degrees. Students earn undergraduate and graduate degrees in more than 250 fields of study.

The Duluth campus joined the University in 1947, the Morris campus opened in 1960, the Crookston campus in 1966, and the Waseca campus in 1971.

Enrollment in fall 1989 was 53,339 on all five campuses. Enrollment was 41,016 on the Twin Cities campus, 7,820 at Duluth, 2,041 at Morris, 1,174 at Waseca, and 1,288 at Crookston.

During the 1988-1989 academic year, the University of Minnesota conferred 10,478 degrees on all its campuses: 5,837 in July, August, and December 1988 and March 1989, and 4,641 in June 1989.

University alumni include four Nobel Prize winners, a former chief justice of the United States, two former vice presidents, the heads of Fortune 500 companies, pioneers in medicine, civil rights leaders, top journalists, and men and women who have achieved distinction in every field.

Alumni and their families and friends are always welcome at the University. Alumni are invited to continue their relationship with the University through the Minnesota Alumni Association and its college groups.

The Graduate School

Before 1900, only a handful of American universities had graduate schools to promote, coordinate, and integrate graduate education on their campuses. The University of Minnesota joined the growing movement in 1905 when the regents established the Graduate School as a separate college and named University engineering professor Henry T. Eddy to the deanship. Eight years later, Guy Stanton Ford, a historian and future University of Minnesota president, was named dean. Ford envisioned a community of scholars unified by a single administrative voice. Believing that graduate education begins with able faculty skilled as investigators in the field, Ford worked to attract some of the best teachers and researchers to Minnesota. He obtained funding for research, libraries, laboratories, and financial aid for graduate students. When he left the deanship in 1938, the organizational structure and traditions that today govern graduate education at the University of Minnesota had been established.

The adaptability and flexibility of Ford's legacy became apparent in the 1940s, when World War II transformed America's view of the world—and of education. Thousands of returning service men and women took advantage of the GI Bill to come to the University of Minnesota. Although the initial wave of students primarily affected undergraduate education, by 1950 some 6,000 graduate students called the University home. Between 1940 and 1960, the University awarded more than 3,000 doctoral degrees, three fourths of the total number of Ph.D.'s granted up to that time.

Today the Graduate School, headed by Dean Robert T. Holt, has more than 2,500 faculty members and 10,300 students and offers degrees in more than 180 fields.

Degrees Awarded

The following individuals had completed all the requirements for their degrees as of September 29, 1989. For each student, the

month of graduation is noted. Degrees are listed alphabetically.

Doctor of Education

Robert Allen Berkemer, Sand Creek, Wis.

B.F.A. '71, B.S.Ed. '76, M.A. '77, Ohio State University. Major: Industrial Education. Minor: Supporting Program. Project: Evaluating the Effectiveness of a Design Course in Teaching Creative Problem Solving. Major Advisers: Profs. K.F. Zuga and D.C. Bjorkquist. July Graduate.

Vernon Lee Morton, Pettibone, N.D.

B.S. '76, Moorhead State College; M.Ed. '84, University of Minnesota. Major: Industrial Education. Minor: Supporting Program. Project: Goals of Industrial Education Teachers in Minnesota: A Field Study. Major Adviser: Prof. Jerome Moss, Jr. June Graduate.

Kenneth L. Roetzel, Burnsville

B.S. '72, M.S. '74, Cert.Spec. '82, Mankato State University. Major: Educational Administration. Minor: Supporting Program. Project: The Chilling Effect of Arbitration on the Collective Bargaining Process. Major Advisers: Profs. G.F. Alkire and T.L. Mazzoni. July Graduate.

Kennith Harold York

B.A.Ed. '71, Northeastern State College; M.A. '75, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: The Relationship of the Metropolitan Readiness Test Scores of English and Choctaw Indian Kindergarten Students When Administered in English and Choctaw Indian Languages. Major Adviser: Prof. G.F. Alkire. September Graduate.

Doctor of Musical Arts

Mary Kay Kathleen Bauer, Vienna, Va.

B.M. cum laude '80, Catholic University; M.M. '83, Northwestern University. Major: Music. Minor: Supporting Program. Major Adviser: Prof. D.C. Ware. June Graduate.

Walter Allin Sorenson

B.M.Ed. '83, M.A. '85, Northeast Missouri State University. Major: Music. Minor: Supporting Program. Major Adviser: Prof. D.C. Ware. May Graduate.

Doctor of Philosophy

Ismael Abu Saad, LaQiya, Israel

B.A. '81, M.A. '85, Ben-Gurion University. Major: Educational Administration. Minor: Supporting Program. Thesis: Organizational Climate and Teachers' Job Satisfaction in the Bedouin Elementary Schools of the Negev in Southern Israel. Major Adviser: Prof. V.L. Hendrix. August Graduate.

Abdellatif Achkari-Begdouri

Dipl.Ing. Agron. '80, Institut Agronomique et Veterinaire Hassan II. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Anaerobic Digestion of Dairy Cattle Manure Autoheated by Aerobic Pretreatment. Major Adviser: Prof. P.R. Goodrich. June Graduate.

Celso Manuel Aidao, Mar del Plata, Argentina

Ing.Elect. '80, Universidad Nacional de Mar del Plata. Major: Materials Science and Engineering. Minor: Physics. Thesis: Experimental and Theoretical Aspects of Fermi Level Evolution at Semiconductor Interfaces. Major Adviser: Prof. J.H. Weaver. September Graduate.

Elisabeth Berta Almgren, Uppsala, Sweden

Filos.kand. '77, Universitet Stockholms; M.A. '84, New York University. Major: Ancient Studies. Thesis: Woodland Establishment, Expansion, and Regression in Association with Prehistoric and Later Human Settlements Around Lough Gur, Co. Limerick, Ireland. Major Adviser: Prof. H.E. Wright, Jr. August Graduate.

Margo Lynn Anderson

B.A. cum laude '66, St. Olaf College; M.A. '69, Ohio State University. Major: Physical Education. Minor: Supporting Program. Thesis: A Legal History and Analysis of Sex Discrimination in Athletics: Mixed Gender Competition, 1970-1987. Major Adviser: Prof. M.L. Young. July Graduate.

Neil Owen Anderson, Norwich, Vt.

B.S. '83, California Polytechnic State University; M.S. '85, University of Minnesota. Major: Horticulture. Minor: Plant Breeding. Thesis: Rapid Generation Cycling and Inbreeding Depression in Chrysanthemums. Major Advisers: Profs. R.E. Widmer and P.D. Ascher. September Graduate.

Sheldon Robert Anderson, Minneapolis

B.A. magna cum laude '73, Augsburg College. M.A. '85, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: A Dollar to Poland Is a Dollar to Russia: United States Economic Policy Toward Poland, 1945-1952. Major Advisers: Profs. K.J. Brauer and R.L. Rudolph. August Graduate.

Martha Elizabeth Arterberry

B.A. '83, Pomona College. Major: Child Psychology. Minor: Supporting Program. Thesis: Development of the Ability To Integrate Information over Time. Major Adviser: Prof. Albert Yonas. May Graduate.

Donna Darlene Ashbridge, Tulsa, Okla.

B.A. '80, M.P.H. '85, University of Minnesota. Major: Health Services Research, Policy, and Administration. Minor: Supporting Program. Thesis: The Effect of Prepaid Health Care on Utilization and Health Status of Institutionalized Elderly Medicaid Recipients. Major Adviser: Prof. T.J. Litman. August Graduate.

Muhammad Ashraf, Pakistan

D.V.M. '77, University of Agriculture Lyallpur; M.S. '80, University of Agriculture Faisalabad. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: The Pharmacokinetics and the Mechanism of Renal Excretion of Thiamphenicol in Cattle. Major Adviser: Prof. C.M. Stowe. August Graduate.

Alex Armando Azan, Miami, Fla.

B.A. '76, Fairleigh Dickinson University; M.A. '77, Teachers College, Columbia University. Major: Educational Psychology. Minor: Supporting Program. Thesis: The MMPI Version Hispana: Standardization and Cross-Cultural Personality Study with a Population of Cuban Refugees. Major Advisers: Profs. J.M. Butcher and R.A. Weinberg. April Graduate.

Seon-Gi Baek, Korea

B.Pol.S. '79, Sung Kyun Kwon University; M.A. '81, Seoul National University. Major: Speech-Communication. Minor: Supporting Program. Thesis: Organization and Culture: A Case Study of Communication Acculturation Patterns of Korean Immigrant Employees in American Organizations. Major Adviser: Prof. R.E. Sykes. July Graduate.

Argirios Bailas, Thessaloniki, Greece

Dipl. '82, Democritus University of Thrace; M.S.E.E. '85, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Evaluation of Concurrent Error Detection in Microprogrammed Control Units. Major Adviser: Prof. L.L. Kinney. May Graduate.

Gary Lee Baker, Lewistown, Pa.

B.A. '79, Juniata College; M.A. '83, Pennsylvania State University. Major: German. Minor: Supporting Program. Thesis: The German Jeremiad: Notion of History, the Outsider, and Utopian Elements in Uwe Johnson's Jahrestage. Major Adviser: Prof. F.D. Hirschbach. June Graduate.

James Austin Ball, St. Paul

B.A. '81, Macalester College. Major: Chemistry. Minor: Supporting Program. Thesis: Vibrational Relaxation of Aromatic Molecules in Solid Argon. Major Adviser: Prof. P.F. Barbara. June Graduate.

Shirley Lake Barber, Roseville

B.S. '61, M.Ed. '75, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Ethical Issues and Perceptions of Importance and Frequency by Adult Educators in the Cooperative Extension System. Major Adviser: Prof. H.G. Copeland. September Graduate.

Michael Nathan Barnett, Minneapolis

A.B. with high distinction '82, University of Illinois. Major: Political Science. Minor: Supporting Program. Thesis: War Preparation and the Restructuring of State-Society Relations: Israel and Egypt in Comparative Perspective. Major Adviser: Prof. R.D. Duvall. April Graduate.

Richard Clay Barnett

B.S.Ag. '78, Kansas State University; M.S. '80, Purdue University. Major: Economics. Minor: Supporting Program. Thesis: Extrinsic Exchange Rate Uncertainty and Fluctuations in the Real Exchange Rate. Major Adviser: Prof. Neil Wallace. May Graduate.

LaVonne Marie Batalden

B.A. summa cum laude '63, Augsburg College; M.S. '84, University of Minnesota. Major: Botany. Minor: Supporting Program. Thesis: Mitochondrial DNA and the Phylogeny of the Basidiomycete *Paxillus involutus*. Major Adviser: Prof. D.J. McLaughlin. June Graduate.

Cheryl A. Baxa, Springfield, Ill.

B.S. magna cum laude '78, St. Mary's College. Major: Microbiology. Minor: Supporting Program. Thesis: Mechanism of Action of Cyanobacterin in the Eucaryotic Alga *Euglena gracilis* Z. Major Adviser: Prof. R.L. Crawford. April Graduate.

Yeong-Ki Beck, Seoul, Korea

B.A. '82, Seoul National University; M.A. '85, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: Analysis of the Changing Spatial Organization of Production: The Case of the U.S. Computer Industry. Major Adviser: Prof. E.S. Sheppard. July Graduate.

M. Keith Bellairs, Minneapolis

A.B. '65, Dartmouth College; J.D. cum laude '70, University of Michigan. Major: Business Administration. Minor: Computer and Information Sciences. Thesis: Contextual Relevance in Analogical Reasoning: A Model of Legal Argument. Major Adviser: Prof. P.E. Johnson. September Graduate.

Yossef Shmuel Ben-Porath, Haifa, Israel

B.A. '84, University of Haifa. Major: Psychology. Minor: Supporting Program. Thesis: Using the MMPI-2 To Assess Coping with Stress. Major Adviser: Prof. J.N. Butcher. August Graduate.

Ioannis A. Bitsanis, Kalamata, Greece

Dipl. '84, Aristotelian University of Thessaloniki. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Molecular Dynamics of Fluids with Structure. Major Advisers: Profs. M.V. Tirrell and H.T. Davis. May Graduate.

William Grant Black, Jr., Fort Walton Beach, Fla.

B.A. '72, M.S.W. '75, University of Wisconsin. Major: Social Work. Minor: Supporting Program. Thesis: The Military Origins of Federal Social Welfare Programs: Early British and Colonial American Precedents. Major Adviser: Prof. G.S. Hoshino. July Graduate.

Joan Kay Blaska, Anoka

B.S. '62, M.Ed. '81, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: An Exploratory Study of Current Transition Practices: Implications for Program Administration. Major Adviser: Prof. R.F. Weatherman. July Graduate.

Allan Hayes Blatherwick, Minneapolis

B.S. '64, University of Minnesota. Major: Physiology. Minor: Supporting Program. Thesis: A Physiological Profile of an Elite Ice-Hockey Player: The Importance of Skating Speed and Acceleration. Major Adviser: Prof. R.E. Poppele. July Graduate.

Edwin Richard Bonnie, St. Paul

B.S. with honors '72, M.A. '73, University of Wisconsin; A.M. '77, University of South Dakota; M.S.W. '80, University of Minnesota. Major: Social Work. Minor: Supporting Program. Thesis: Impact of Death on Latency Age Children: Formulation of a Clinical Intervention. Major Adviser: Prof. R.H. Rooney. August Graduate.

Paul Phillip Bregitzer, University City, Mo.

B.S. with distinction '83, Iowa State University; M.S. '85, University of Minnesota. Major: Plant Breeding. Minor: Supporting Program. Thesis: Development and Characterization of Friable, Embryogenic Oat Callus, and Cellular Microinjection of DNA. Major Advisers: Profs. D.A. Somers and H.W. Rines. June Graduate.

Allon Dudley Brent, Cape Province, South Africa

B.S.Ch.E. '81, University of Minnesota. Major: Mineral Engineering. Minor: Mechanical Engineering. Thesis: A Computational Analysis of Heat Transfer and Fluid Flow in Plasma Melting Furnaces. Major Adviser: Prof. K.J. Reid. July Graduate.

Robert Michael Bushman, Cleveland, Ohio

B.B.A. with high honor '75, Ohio University. Major: Business Administration. Minor: Supporting Program. Thesis: Public Disclosure by Firms in the Presence of a Monopolistic Seller of Private Information. Major Adviser: Prof. C.S. Kanodia. August Graduate.

Colleen Marie Byron, New Richland

B.A. '83, College of St. Benedict. Major: Chemistry. Minor: Supporting Program. Thesis: The Spectral and Electrochemical Properties of Two Flavoproteins: I. Glutaryl CoA Dehydrogenase from *Paracoccus denitrificans*; II. Electron Transfer Flavoprotein from *Methylophilus methylotrophus*. Major Adviser: Prof. M.T. Stankovich. September Graduate.

Caryl Elaine Carpenter, Fayetteville, N.Y.

B.A. '68, Brown University; M.P.H. '77, University of Michigan. Major: Hospital and Health Care Administration. Minor: Supporting Program. Thesis: Price Determinants of Hospital Tax-Exempt Debt. Major Advisers: Profs. V.E. Weckwerth and B.E. Dowd. August Graduate.

Mary Anne Casey

B.S. with distinction '82, M.A. '87, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Program Planning Processes Used by Minnesota Extension Service Agriculture Agents. Major Advisers: Profs. E.A. Persons and Richard Krueger. July Graduate.

Yves Castonguay

B.Sc. '78, M.Sc. '83, Laval University. Major: Plant Physiology. Minor: Supporting Program. Thesis: Stomatal and Nonstomatal Limitations to Photosynthesis in *Phaseolus vulgaris* L. and *P. acutifolius* Gray in Response to Water Stress. Major Adviser: Prof. A.H. Markhart. April Graduate.

Bahija Chaarani

D.V.M. '78, Institut Agronomique et Veterinaire Hassan II. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Management and Productivity of Sheep Flocks in Meknes Province, Morocco, with Especial Reference to Abortion and Lamb Mortality. Major Advisers: Profs. R.A. Robinson and D.W. Johnson. June Graduate.

Ali Chafai Elalaoui, Sefrou, Morocco

Dipl. Agron. '76, Ing. Agron. '78, Institut Agronomique et Veterinaire Hassan II. Major: Agronomy. Minor: Supporting Program. Thesis: Contribution of Nonsurviving Tillers to the Growth of Barley (*Hordeum vulgare* L.). Major Adviser: Prof. S.R. Simmons. June Graduate.

Kathleen Helen Chafey, Bozeman, Mont.

B.S.N. '62, Arizona State University; M.S. '67, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Exploration of the Linkages Among Selected Components of Moral Behavior. Major Adviser: Prof. J.R. Rest. August Graduate.

Chong Hyuck Chang, Orland Park, Ill.

B.S.E. '81, Seoul National University; M.S.M.E. '83, University of Illinois. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Non-Equilibrium Modeling of Low-Pressure Plasma Spray Systems. Major Adviser: Prof. Emil Pfender. April Graduate.

John Martin Charnes, Duluth

B.C.E. '80, M.B.A. '83, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: Statistical Analysis of Multivariate Discrete-Event Simulation Output. Major Adviser: Prof. W.D. Kelton. August Graduate.

Judy Marie Chartrand, Lindstrom

B.A. summa cum laude '82, University of Wisconsin; M.A. '86, University of Minnesota. Major: Psychology; Minor: Supporting Program. Thesis: The Consequences of Multiple Role Participation on the Academic and Personal Adjustment of Students. Major Advisers: Profs. R.V. Davis and D.D. Hendel. May Graduate.

Margaret Fern Cheesman, Canada

B.A. '77, University of Ottawa; B.S. '80, M.A. '85, University of Calgary. Major: Communication Disorders. Minor: Psychology. Thesis: The Auditory Representation of Context-Conditioned Fricatives. Major Adviser: Prof. D.J. VanTassel. May Graduate.

Chien-In Henry Chen, Taipei, Taiwan

B.S.E. '81, National Taiwan University; M.S. '86, University of Iowa. Major: Electrical Engineering. Minor: Supporting Program. Thesis: High-Level Design Synthesis and Testing. Major Adviser: Prof. G.E. Sobel'man. July Graduate.

Xingfu Chen

B.Eng. '82, Northeast Institute of Technology. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Micromechanics and Kinetics of Hydrogen Embrittlement in Fe-3wt.%Si Single Crystals. Major Adviser: Prof. W.W. Gerberich. September Graduate.

Changsoo Choi, Anyang, Korea

D.V.M. '74, M.V.M. '80, Seoul National University. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Pathogenicity and Viral Characteristics of a Skin Isolate of Porcine Parvovirus. Major Adviser: Prof. Hansoo Joo. April Graduate.

Thomas Peter Chojnacki, Milwaukee, Wis.

B.S. '74, M.S. '79, University of Wisconsin. Major: Chemistry. Minor: Supporting Program. Thesis: Microstructure of Multicomponent Catalyst Particles. Major Advisers: Profs. W.L. Gladfelter and L.D. Schmidt. May Graduate.

Youngsoo Chun, Seoul, Korea

B.S. '72, Seoul National University. Major: Business Administration. Minor: Supporting Program. Thesis: Time-Series Models of Batch-Means Processes in Simulation Analysis. Major Adviser: Prof. W.D. Kelton. September Graduate.

Jay Steven Coggins, Ladysmith, Wis.

B.S. '83, University of Wisconsin; M.S. '85, University of Minnesota. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: On the Existence and Optimality of Equilibria in Lobbying Economies. Major Adviser: Prof. T.L. Roe. July Graduate.

Carol Ann Colburn, Cedar Falls, Iowa

B.A. '73, Western Washington State College; M.A. '76, University of Minnesota. Major: Design, Housing, and Apparel. Minor: Art History. Thesis: The Dress of the James J. Hill Family, 1863-1916. Major Adviser: Prof. M.R. DeLong. August Graduate.

Christopher Thayer Cole, Grand Marais

B.A. with honors '75, Brown University; M.S. '79, University of Minnesota. Major: Botany. Minor: Supporting Program. Thesis: Isozyme and Mitochondrial DNA Variation in *Lespedeza capitata* and *L. Leptostachya* (Fabaceae). Major Advisers: Profs. D.D. Biesboer and E.J. Cushing. September Graduate.

Kimberly Elizabeth Contag, New Ulm

B.A. with distinction '80, Iowa State University; M.A. '83, University of Minnesota. Major: Hispanic and Luso-Brazilian Literatures. Minor: Supporting Program. Thesis: The Nature and Function of Burlesque: The Ideology of Mockery in Golden Age Spanish Literature. Major Adviser: Prof. A.N. Zahareas. August Graduate.

David Barton Cooke, Lincoln, Neb.

B.S. with distinction '83, University of Nebraska. Major: Mathematics. Minor: Physics. Thesis: Hamiltonian Systems of Evolution Equations. Major Adviser: Prof. R.J. Olver. July Graduate.

Gregory John Cooper, Colton, N.Y.

B.A. '76, University of Wisconsin. Major: Philosophy. Minor: Supporting Program. Thesis: Ecology and Evolution: A Philosophical Study. Major Adviser: Prof. Philip Kitcher. July Graduate.

Nancy GERALYN Cordonier, St. Joseph, Mo.

B.S. magna cum laude '83, Missouri Western State College. Major: Chemistry. Minor: Supporting Program. Thesis: Synthesis and Characterization of a Tris(alkoxy)benzylamide Handle and Its Application to the Solid-Phase Synthesis of Peptide Amides. Major Adviser: Prof. George Barany. June Graduate.

Jay Richard Cummings, Minneapolis

B.A. '82, Carleton College. Major: Physics. Minor: Supporting Program. Thesis: Fragmentation of Relativistic Heavy Nuclei with Application to Cosmic Ray Propagation. Major Adviser: Prof. C.J. Waddington. June Graduate.

Kathleen Ann Daly, Minneapolis

B.S. '65, M.P.H. '85, University of Minnesota. Major: Epidemiology. Minor: Supporting Program. Thesis: Medical Intervention Trial for Children at High Risk of Chronic Otitis Media with Effusion. Major Advisers: Profs. R.K. Anderson and R.W. Gibson. May Graduate.

Robert Pelham Dana, Gulfport, Miss.

B.A. cum laude '64, M.S. '66, Tulane University. Major: Entomology. Minor: Supporting Program. Thesis: Biologies of the Prairie Skippers *Hesperia dactotae* and *H. Ottoo* (Lepidoptera: Hesperiidae), and Factors Affecting Mortality in Prescribed Burning of Their Habitat in Spring. Major Adviser: Prof. W.E. Miller. May Graduate.

Abdelhafid Debbbarh, Morocco

Dipl. Ing. Agron. '76, Ing. Agron. '78, Institut Agronomique et Veterinaire Hassan II. Major: Civil Engineering. Minor: Supporting Program. Thesis: Consolidation of Elastic Saturated Soil Due to Water Withdrawal by Numerical Laplace-Fourier Inversion Methods. Major Adviser: Prof. Ioannis Vardoulakis. June Graduate.

Sharon Dei, Pittsburgh, Pa.

A.B. '65, College of Notre Dame. M.S. '71, Shippensburg State College. Major: Speech-Communication. Minor: Supporting Program. Thesis: The International Speech-Making of Yasuhiro Nakasone: A Case Study in Intercultural Rhetoric. Major Adviser: Prof. J.V. Jensen. June Graduate.

Alfredo Di Costanzo, Tampico, Tamaulipas, Mexico

Ing. '81, Instituto Tecnológico y de Estudios Superiores de Monterrey. Major: Animal Science. Minor: Animal Physiology. Thesis: Within-Herd Variation of Energetic Efficiency in Beef Cows. Major Adviser: Prof. J.C. Meiske. September Graduate.

John Martin Dole, Grand Rapids, Mich.

B.S. with high honor '84, Michigan State University. Major: Horticulture. Minor: Supporting Program. Thesis: Investigations of a Graft-Transmissible Free-Branching Agent in the Poinsettia. Major Adviser: Prof. H.F. Wilkins. July Graduate.

Katherine Mary Doliszny, St. Catherines, Ontario

B.S. with honors '79, University of Western Ontario; M.S. '81, Queen's University. Major: Epidemiology. Minor: Supporting Program. Thesis: Coronary Artery Bypass Graft Surgery from 1970 Through 1984 in the Seven-County Twin Cities Metropolitan Area. Major Adviser: Prof. R.V. Luepker. May Graduate.

Karen Dorothy Donnelly, Omaha, Neb.

B.S. with distinction '82, University of Nebraska. Major: Chemistry. Minor: Supporting Program. Thesis: Manganese(III) Mediated Difunctionalizations of Alkenes. Major Adviser: Prof. T.R. Hoye. July Graduate.

Steven Roger Duff, Farmington

B.S. with distinction '84, M.S. '86, University of Minnesota. Major: Entomology. Minor: Supporting Program. Thesis: A Comparison of Three Non-Migratory Systems for Managing Honey Bees (*Apis mellifera* L.) in Minnesota. Major Adviser: Prof. Basil Furgala. July Graduate.

Ernest Daniel Eckberg, Minneapolis

B.A. '58, St. Olaf College; B.S. '62, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Perception of Control of Environment and Its Reaction to the Acquisition of Critical Thinking and Conflict Resolution Skills. Major Adviser: Prof. W.E. Gardner. June Graduate.

Willie James Edwards, Mesquite, Tex.

B.A. '70, M.A. '72, East Texas State University. Major: Sociology. Minor: Supporting Program. Thesis: Juvenile Delinquent Involvement a Multivariate Explanation: An Integration of Several Sociological Theories into a Single Causal Model. Major Adviser: Prof. J.P. Clark. August Graduate.

Eric Alan Egli, Walnut Creek, Calif.

B.S. with honors '75, M.S. '77, University of California. Major: Psychology. Minor: Supporting Program. Thesis: Self-Report of Psychological Distress and Daily Functioning in the Minnesota Cambodian Community. Major Adviser: Prof. J.N. Butcher. September Graduate.

Dawn Rae Elm, Plymouth

B.S.Ch.E. summa cum laude '80, University of Massachusetts. Major: Business Administration. Minor: Supporting Program. Thesis: Managers' Reasoning About Ethical Issues: The Impact of Ethical Climate and Self-Monitoring. Major Adviser: Prof. M.L. Nichols. April Graduate.

Susan Nell Erickson, Portland, N.D.

B.A. '78, North Dakota State University; M.A. '82, University of Minnesota. Major: Art History. Minor: Supporting Program. Thesis: Boshanlu Mountain Censers: Mountains and Immortality in the Western Han Period. Major Adviser: Prof. R.J. Poor. September Graduate.

Marian Eriksson, Placerville, Calif.

A.B. '77, M.S. '81, University of California. Major: Forestry. Minor: Statistics. Thesis: Integrating Forest Growth and Dendrochronological Methodologies. Major Adviser: Prof. A.R. Ek. May Graduate.

Linda Marie Ernst, Apple Valley

B.A. '68, University of Minnesota; M.S. '76, University of Nebraska. Major: Education. Minor: Supporting Program. Thesis: Values in Parent Education. Major Advisers: Profs. R.G. Thomas and Jerry McClelland. September Graduate.

James Marlyn Ervasti, Plymouth

B.S. '83, University of Minnesota. Major: Biochemistry. Minor: Supporting Program. Thesis: Skeletal Muscle Abnormalities in Malignant Hyperthermia. Major Adviser: Prof. C.F. Louis. April Graduate.

Guang Yin Fang, China

Major: Physics. Minor: Supporting Program. Thesis: Color Transparency of Nuclear Matter to Hard Scattered Hadrons and the Nucleon Spectral Functions. Major Adviser: Prof. Marvin Marshak. May Graduate.

Behzad Fardi, Tehran, Iran

B.S.M.E. '79, University of Kentucky; M.S.M.E. '81, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Fundamental Study of Air Filtration for Respiratory Protection. Major Adviser: Prof. B.Y. Liu. April Graduate.

Cynthia Diane Fellman, Des Moines, Iowa

B.S. '81. Iowa State University; M.S. '85. University of Minnesota. Major: Horticulture. Minor: Supporting Program. Thesis: Gibberellic Acid-Induced Developmental Incongruity in Floral Buds of *Vitis* sp. 'Swenson Red'. Major Advisers: Profs. E.E. Hoover and P.D. Ascher. June Graduate.

Dennis Earl Ferguson, Austin, Tex.

B.M.E. with distinction '72. M.S.M.E. '78. University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: An Expert System for Injection Molding. Major Adviser: Prof. Subbiah Ramalingam. June Graduate.

Donald Wright Fink, Englewood, Colo.

B.A. '79. Northwestern University. Major: Pharmacology. Minor: Supporting Program. Thesis: Epigenetic Regulation of Neuroblastoma Tumor Growth and Biochemical Differentiation. Major Adviser: Prof. B.L. Mirkin. July Graduate.

Chad Elliott Finn, Potomac, Md.

B.S. '83. Purdue University; M.S. '85. University of Minnesota. Major: Horticulture. Minor: Plant Breeding. Thesis: Germplasm Sources and Screening Methods To Develop Higher Soil pH Tolerance in *Vaccinium*. Major Advisers: Profs. J.J. Luby and C.J. Rosen. August Graduate.

Tim Patrick Finnegan, Minneapolis

B.A. summa cum laude '82. College of St. Thomas. Major: Mathematics. Minor: Supporting Program. Thesis: Siegel-Hilbert Modular Forms of Level One Over Fields with Narrow Class Number One Are Theta Series. Major Adviser: Prof. P.B. Garrett. August Graduate.

Bruce Elwood Fischer

B.A. '73. M.A. '76. University of Minnesota. Major: Family Social Science. Minor: Supporting Program. Thesis: The Effects of Family Losses and Transitions on Adolescent Substance Use. Major Adviser: Prof. W.J. Doherty. June Graduate.

Patrick Thomas Flanagan, Freeborn

B.S. '64. Wisconsin State College; M.A. '72. College of St. Thomas. Major: Educational Administration. Minor: Supporting Program. Thesis: Perceptions of Teachers and School Board Negotiators with Regard to Issues in Striking and Non-Striking Districts in Minnesota During the 1981-1982 Teacher-School Board Collective Bargaining Sessions. Major Adviser: Prof. N.C. Nickerson. August Graduate.

Kathy Linn Flanders

B.S. with distinction '80. Cornell University; M.S. '86. University of Minnesota. Major: Entomology. Minor: Supporting Program. Thesis: Green Peach Aphid (Homoptera: Aphididae) Action Thresholds for Management of Potato Leafroll Virus in Potato. Major Advisers: Profs. D.W. Ragsdale and E.B. Radcliffe. August Graduate.

Carolyn Ann Flowers, Holland Patent, N.Y.

B.A.Ed. with distinction '70. M.S. '76. Arizona State University. Major: Home Economics. Minor: Anthropology. Thesis: A Comparison of the Leisure Activities and Clothing Use of Two Groups of Retired Elderly Women. Major Adviser: Prof. M.R. DeLong. July Graduate.

Brian Grant Fox

B.A. cum laude '81. Carleton College. Major: Biochemistry. Minor: Supporting Program. Thesis: Mechanistic Studies of the Catalytic Cycle of Methane Monooxygenase from *Methylosinus trichosporium* OB3b. Major Adviser: Prof. J.D. Lipscomb. September Graduate.

Gayle Marie Frankenbach, Minneapolis

B.S. magna cum laude '84. Bradley University. Major: Chemistry. Minor: Supporting Program. Thesis: The Preparation and Characterization of Hydrogen-Bonded Cocrystals with Applications to Materials Science. Major Adviser: Prof. M.C. Etter. June Graduate.

Gregory Alfred Frascadore, Colorado Springs, Colo.

B.S. '81. United States Air Force Academy; M.S. '84. Wright State University. Major: Computer and Information Sciences. Minor: Mathematics. Thesis: Failure-Driven Incremental Search-Control Refinement. Major Adviser: Prof. J.R. Slagle. May Graduate.

David Maxwell Freebairn, Queensland, Australia

B.S. with honors '74. M.S. '76. University of Sydney. Major: Soil Science. Minor: Supporting Program. Thesis: Rainfall and Tillage Effects on Infiltration of Water into Soil. Major Adviser: Prof. S.C. Gupta. July Graduate.

Theodore Stuart Frick

B.S. with high distinction '84. Pennsylvania State University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Small Molecule Diffusion in Polymer Solutions Above and Below the Glass Transition by Forced Rayleigh Scattering. Major Advisers: Profs. M.V. Tirrell and T.P. Lodge. August Graduate.

Jay Milton Fuchs, Wahpeton, N.D.

B.A. summa cum laude '82. Moorhead State University; M.A. '86. University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: Or Dispersuade the Furies. Major Adviser: Prof. D.J. Argento. April Graduate.

Keith Owen Fuglie

B.A. '82. Concordia College; M.S. '84. University of Minnesota. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: The Adoption of New Agricultural Technology in a Fain-Fed Rice Farming System in Northeast Thailand. Major Adviser: Prof. V.W. Ruttan. August Graduate.

Greta Claire Gaard, Los Angeles, Calif.

B.A. cum laude '79. Pepperdine University; M.A. '81. Claremont Graduate School. Major: English. Minor: Feminist Studies. Thesis: Anger Expressed/Repressed: Novels by White, Middle-Class, American Women Writers, 1850-Present. Major Adviser: Prof. T.A. McNaron. July Graduate.

Dwight Albert Gardstrom

B.M.E. '59. Wheaton College; M.M.Ed. '62. Vandercook College of Music. Major: Music. Minor: Supporting Program. Thesis: A History of the Fourth Regimental Band and Musicians of the Fourth Minnesota Infantry Volunteers During the Civil War, 1861-1865. Major Adviser: Prof. S.W. Schultz. July Graduate.

Raghuram Bindinavale Garud

B.Tech '78, Indian Institute of Technology, Bombay; Postgrad.Dipl. '81, Xavier Labour Relations Institute. Major: Business Administration. Minor: Supporting Program. Thesis: Patterns of Cooperation and Competition During the Development and Commercialization of a New Product Technology. Major Adviser: Prof. A.H. Van de Ven. August Graduate.

Konstantinos Petros Giapis, Serres, Greece

Dipl. '84, National Technical University of Athens. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Experimental Studies of the Metalorganic Chemical Vapor Deposition and Doping of Zinc Selenide. Major Adviser: Prof. K.F. Jensen. September Graduate.

Joyce Helen Gissler, Osceola, Neb.

B.A. '74, Midland Lutheran College; M.A. '82, University of Nebraska. Major: Mass Communication. Minor: Supporting Program. Thesis: The Swedish, Finnish, Norwegian, and Danish Press Councils: A Comparative Study. Major Advisers: Profs. D.M. Gillmor and R.E. Carter. September Graduate.

Anne Marjory Goldberg

B.A. with honors '60, University of Wisconsin; M.S. '68, Southern Connecticut State College; M.S.Ed. '79, Pace University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Pre- and Post-Adoptive Predictors of Behavior Problems in a Group of Adolescent and Young Adult Transracial Adoptees. Major Adviser: Prof. R.A. Weinberg. September Graduate.

David Julian Gonzalez, Minneapolis

B.A. '76, M.A. '80, University of California. Major: English. Minor: Supporting Program. Thesis: Because of the Blood in the Water: A Novel. Major Adviser: Prof. E.M. Griffin. June Graduate.

William Conrad Gonzalez, Pasadena, Calif.

B.S. '71, St. Cloud State College; M.A. '76, University of Minnesota. Major: Vocational Education. Minor: Supporting Program. Thesis: An Analysis of the Impact That Governance Has on the Structure of the Governing Authorities and Administrative Agencies Responsible for Vocational Education. Major Adviser: Prof. G.I. Swanson. April Graduate.

Kenneth Delane Gossett, Concord Township, Ohio

B.S. '68, Oklahoma Christian College; M.A. '74, University of Chicago. Major: Educational Administration. Minor: Supporting Program. Thesis: Quality Control and Quality Assurance in the Human Services Field: Operationalizing a Management Model. Major Adviser: Prof. R.F. Weatherman. July Graduate.

Karen Minda Grabow, Minneapolis

A.B. '71, University of Illinois. Major: Psychology. Minor: Supporting Program. Thesis: The Roles of Developmental Events and Individual Differences in Managerial Success. Major Adviser: Prof. M.D. Dunnette. July Graduate.

Roger John Gravrok, Minneapolis

B.E.E. '85, M.S.E.E. '86, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Complementary Noise-Immune Logic: High-Speed Logic for Reliable Computing Achieved Through Designable, Near-Ideal Voltage Transfer Characteristics. Major Adviser: Prof. R.M. Warner, Jr. August Graduate.

Duty Densmore Greene, Asheville, N.C.

B.A. '66, Brown University; B.S. with high honors '71, M.Econ. '73, North Carolina State University. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: The Impact of Economic Policies on the Agricultural Sector and Food Consumption in the Dominican Republic: A Multimarket Analysis. Major Adviser: Prof. T.L. Roe. July Graduate.

John Gregory Greupner, Plymouth

B.A. cum laude '70, Gustavus Adolphus College; M.A. '76, Spec.Cert. '77, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Minnesota Public Secondary School Principals: An Examination of Comparisons in Job Stress from 1980 to 1988. Major Adviser: Prof. N.C. Nickerson. September Graduate.

Shelley Nicole Grimes, Apple Valley

B.A. cum laude '84, St. Olaf College. Major: Genetics. Minor: Supporting Program. Thesis: The Roles of the Terminal Protein gp³ and the Prohead RNA in DNA Packaging of Bacteriophage theta 29. Major Adviser: Prof. D.L. Anderson. September Graduate.

Patrick R. Grube, St. Paul

B.A. cum laude '83, College of St. Thomas. Major: Chemistry. Minor: Supporting Program. Thesis: Reductive-Cleavage Analysis of Mycobacterium Smegmatis Arabinogalactan. Major Adviser: Prof. G.R. Gray. May Graduate.

Jong-Shenq Guo, Taiman, Taiwan

B.S. '81, National Taiwan Normal University; M.S. '87, Purdue University. Major: Mathematics. Minor: Supporting Program. Thesis: Nonlinear Quenching Problem and Free Boundary Problem. Major Adviser: Prof. Avner Friedman. June Graduate.

Wayne Orville Hagen, Belgrade

B.S. '70, D.V.M. '72, University of Minnesota. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Fat Cow Syndrome: Pathogenesis and Diagnostic Parameters. Major Advisers: Profs. W.G. Olson and V.L. Larson. September Graduate.

James Lawrence Haines, Linwood, Md.

B.S. cum laude '81, Elizabethtown College; M.M. '85, West Chester University. Major: Music. Minor: Supporting Program. Thesis: For Trumpet and Orchestra. Major Adviser: Prof. A.J. Lubet. August Graduate.

Scott David Hakala, Duluth

B.A. summa cum laude '83, University of Minnesota. Major: Economics. Minor: Supporting Program. Thesis: Continuous-Time, Inventory-Theoretic Models of Money. Major Adviser: Prof. E.C. Prescott. August Graduate.

Abed Hamama

D.V.M. '81, Institut Agronomique et Vétérinaire Hassan II. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Studies on the Hygienic Quality of Moroccan Traditional Dairy Products. Major Advisers: Profs. S.R. Tatini and M.M. Pullen. July Graduate.

Lydia R. Hamessley, Minneapolis

B.Mus.Ed. '79, Texas Lutheran College; M.A. '83, University of Minnesota. Major: Music. Minor: Art History. Thesis: The Reception of the Italian Madrigal in England: A Repertorial Study of Manuscript Anthologies, ca. 1580-1620. Major Adviser: Prof. D.C. Jackson. July Graduate.

Ahmed Hamliri

D.V.M. '81, Institute of Agriculture and Veterinary Medicine, Hassan II. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Selenium Deficiency of Sheep in Morocco: Assessment, Occurrence, and Prevention. Major Advisers: Profs. W.G. Olson and D.W. Johnson. May Graduate.

Oksoo Han, Chollabuk-do, Korea

B.S. '82, M.S. '84, Seoul National University. Major: Chemistry. Minor: Supporting Program. Thesis: Mechanistic Studies of the Biosynthesis of CDP-Ascarbose: Purification of CDP-6-Deoxy-Delta^{3,4}-Glucose-3-Reductase (E³) and Characterization of Its NADH Oxidase Activity. Major Adviser: Prof. H.W. Liu. August Graduate.

Martha Jane Harding, London, Ontario

D.V.M. with honors '82, University of Guelph. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Interaction of Porcine Parvovirus with Porcine Immune Cells. Major Advisers: Profs. T.W. Melitor and S.K. Maheswaran. April Graduate.

Allan Robert Harkness, Madison, Wis.

B.S. '76, Carroll College; M.S. '78, Ohio University. Major: Psychology. Minor: Supporting Program. Thesis: Phenotypic Dimensions of the Personality Disorders. Major Adviser: Prof. Auke Tellegen. June Graduate.

Thomas Edward Harrison

B.S. '84, South Dakota School of Mines and Technology. Major: Astrophysics. Minor: Supporting Program. Thesis: The Modeling of Iras Detections of Classical Novae and Related Objects. Major Adviser: Prof. R.D. Gehrz. September Graduate.

Anne Garland Harvell, Minneapolis

B.S. '68, Iowa State University; M.S. '74, Oregon State University. Major: Educational Administration. Minor: Supporting Program. Thesis: Measuring Teacher Stress in At-Risk Schools: A Study of Instrument Development. Major Advisers: Profs. G.F. Alkire and W.M. Ammentorp. July Graduate.

David Brant Haviland, Ames, Iowa

B.S. cum laude '83, Union College. Major: Physics. Minor: Supporting Program. Thesis: The Onset of Superconductivity in Two-Dimensional Disordered Systems. Major Adviser: Prof. A.M. Goldman. August Graduate.

James Allen Hawthorne

B.A. '73, University of Kansas. Major: Philosophy. Minor: Supporting Program. Thesis: A Semantic Theory for Partial Entailments and Inductive Inferences. Major Adviser: Prof. W.H. Hanson. May Graduate.

Mohsen Abdel Fattah Hedaya, Tanta, Egypt

B.S. '80, University of Tanta. Major: Pharmaceuticals. Minor: Supporting Program. Thesis: Zidovudine Pharmacokinetics and Interaction Studies with Probenecid. Major Adviser: Prof. R.J. Sawchuk. June Graduate.

Patricia Raber Hedberg, Hopedale, Ohio

B.A. with high distinction '80, Ohio Northern University. Major: Psychology. Minor: Supporting Program. Thesis: Individual Perceptions of Performance Feedback in a Work Setting. Major Adviser: Prof. J.P. Campbell. May Graduate.

Susan Kay Henderson, St. Paul

A.B. with distinction '68, University of Nebraska; M.A. '73, University of Minnesota. Major: American Studies. Thesis: Women in the Pews and Feminist Theologians Speak About God, Jesus, and Ethics. Major Adviser: Prof. G.G. Yates. April Graduate.

Charles Henry Hensel, La Grange, Tex.

B.S. magna cum laude '81, Texas Lutheran College. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Influences of RNA Structure on Initiation of Protein Synthesis on Rous Sarcoma Virus RNA. Major Adviser: Prof. P.B. Hackett. September Graduate.

Thomas John Herbst, Minneapolis

B.S. '79, St. John's University. Major: Pathobiology. Minor: Microbiology. Thesis: Modulation of Endothelial Cell Adhesion and Migration by Components of the Extracellular Matrix. Major Advisers: Profs. L.T. Furcht and J.B. McCarthy. June Graduate.

Donald Milton Hill, Minneapolis

B.A. magna cum laude '83, Carleton College; M.S.E.E. '87, University of Minnesota. Major: Materials Science and Engineering. Minor: Physics. Thesis: X-Ray Photoelectron Spectroscopy of High Temperature Superconductor Clean Surfaces and Interfaces. Major Adviser: Prof. J.H. Weaver. September Graduate.

Esther Laura Hill, Minneapolis

B.S. with distinction '79, Iowa State University. Major: Anatomy. Minor: Neuroscience. Thesis: Innervation of Bone and Periosteum by Vasoactive Intestinal Peptide and Calcitonin Gene-Related Peptide: Immunohistochemical and Physiological Studies. Major Adviser: Prof. R.P. Elde. July Graduate.

Begonia Yeeman Ho, Hong Kong

B.S. with honors '84, Chinese University of Hong Kong. Major: Pharmacology. Minor: Supporting Program. Thesis: Mediation by the Serotonergic System of U-50,488H-Induced Antinociception and Tolerance. Major Adviser: Prof. A.E. Takemori. August Graduate.

Choon Lin Ho, Singapore

B.S. with honors '80, National University of Singapore. Major: Physics. Minor: Supporting Program. Thesis: Field Theories of Geometric Strings, Membranes, and P-Branes. Major Adviser: Prof. Yutaka Hosotani. August Graduate.

Edith Lillian Holcomb, Detroit Lakes

B.S. magna cum laude '68, Olivet Nazarene College; M.S. '77, Winona State University. Major: Educational Administration. Minor: Supporting Program. Thesis: Beginning Elementary Principals' Perceptions of Support Provided During Their First Year of Practice. Major Adviser: Prof. N.C. Nickerson. July Graduate.

Yeong-Ching Hong

B.S. '80, National Chung-Hsing University; M.S. '85, University of Minnesota. Major: Food Science. Minor: Chemical Engineering. Thesis: Evaluation of a Plant Tissue Culture System for Production of Strawberry Flavors and Colors. Major Advisers: Profs. T.P. Labuza and S.K. Harlander. May Graduate.

Hugo Andres Hopenhayn, Buenos Aires, Argentina

Lic. '79, Universidad Buenos Aires. Major: Economics. Minor: Supporting Program. Thesis: Essays on the Theory of Industry Dynamics. Major Adviser: Prof. E.C. Prescott. June Graduate.

Katherine Grace Hugh, Faribault

B.S. cum laude '71, M.S. '78, Mankato State University. Major: Education. Minor: Supporting Program. Thesis: A Content Analysis of Communications To Determine the American World View of Wilderness and Grizzly Bears. Major Adviser: Prof. L.H. McAvoy. July Graduate.

Chibuikwe Linus-Onu Iheagwara, Imo State, Nigeria

B.S.Phys. '78, University of Nigeria; M.S. '82, University of Minnesota. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Reduction of Taconite Concentrates in Plasma Reactors. Major Adviser: Prof. K.J. Reid. May Graduate.

Sandra Jean Imdieke, Melrose

B.S. '74, University of Wisconsin; M.S. '86, St. Cloud State University. Major: Education. Minor: Supporting Program. Thesis: A Study of Adult Responses to Remembered Children's Books. Major Adviser: Prof. D.L. Monson. June Graduate.

Duaine Raymond Jackola, Bloomington

B.A. '70, Macalester College; M.S. '84, University of Minnesota. Major: Biophysical Sciences. Minor: Supporting Program. Thesis: Human Peripheral Mononuclear Leukocyte Aggregation in vitro. Major Adviser: Prof. J.I. O'Leary. July Graduate.

Walter Joe Jakubas, Sterling, Alaska

B.S. '78, Purdue University. Major: Wildlife Conservation. Minor: Supporting Program. Thesis: Ruffed Grouse Feeding Behavior and Ecology: Its Relationship to the Chemical Composition of Quaking Aspen Flower Buds. Major Adviser: Prof. G.E. Duke. July Graduate.

Steven William James, St. Paul

B.A. magna cum laude '80, Gettysburg College; M.S. '83, University of Minnesota. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Genetic and Molecular Analysis of Chlamydomonas reinhardtii Mutants Resistant to Anti-Microtubule Herbicides. Major Advisers: Profs. P.A. Lefebvre and C.D. Silflow. July Graduate.

Cynthia Geisler Jeffrey

B.S. '72, M.S. '79, Iowa State University. Major: Business Administration. Minor: Supporting Program. Thesis: The Impact of Escalation of Commitment on Loan Evaluation Judgments of Independent Auditors and Bank Loan Officers. Major Advisers: Profs. D.L. Holt and R.G. Berryman. May Graduate.

Winfield Scott Jessee

B.A. '71, M.A. '75, Florida State University. Major: History. Minor: Supporting Program. Thesis: Robert the Burgundian, an Eleventh-Century Angevin Noble. Major Adviser: Prof. B.S. Bachrach. May Graduate.

Cheryl Denise Johnson, Philadelphia, Pa.

B.A. '80, Connecticut College; M.A. '85, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: The Impact of Gender on Status Offender Processing Outcomes: A Longitudinal Analysis. Major Adviser: Prof. C.M. Kruttschnitt. July Graduate.

Mark Kevin Jones, Media, Pa.

B.A. '83, Oberlin College. Major: Physics. Minor: Supporting Program. Thesis: Pion Elastic Scattering and the (π , π) Reaction on ^4He in the Delta 3,3 Region. Major Adviser: Prof. D.K. Dehnard. June Graduate.

Khamis Mohamed Kamel, Edque, Egypt

B.Sc. '76, Alexandria University; M.S. '81, Monoufia University. Major: Food Science. Minor: Supporting Program. Thesis: Effect of Homogenization of Mixtures of Reconstituted Nonfat Dry Milk and Butter Oil on the State of Fat Emulsion and Quality of Blue Cheese Made from These Mixtures. Major Adviser: Prof. H.A. Morris. May Graduate.

Tai-Jong Kang

B.S. '81, M.S. '83, Seoul National University. Major: Chemistry. Minor: Supporting Program. Thesis: The Influence of Solvent Dynamics on Ultrafast Chemical Reactions in Solution. Major Adviser: Prof. P.F. Barbara. July Graduate.

Jack Anton Kapeller, White Bear Lake

B.S. '67, University of Minnesota; M.S. '74, St. Cloud State College. Major: Education. Minor: Supporting Program. Thesis: A Study of Differences Between Returning Adult Students and Traditional Age Students in the Perception of Needs, Student Satisfaction, and Academic Motivation at a Midwestern Metropolitan Community College: A Case Study. Major Advisers: Profs. R.A. Willie and C.R. Bruning. May Graduate.

Mary Margaret Wilkes Karraker, Minneapolis

B.A. with honor '73, Clemson University; M.S. '75, North Carolina State University. Major: Sociology. Minor: Supporting Program. Thesis: The Effects of Race and Socioeconomic Status on Gender Role Plans: Black and White Adolescent Girls' Education, Occupation, Marriage, and Parenting Plans. Major Adviser: Prof. R.G. Simmons. September Graduate.

Susan Aileen Kaye, Bloomington

B.S. '83, University of Michigan; M.P.H. '85, University of Minnesota. Major: Epidemiology. Minor: Supporting Program. Thesis: Health Implications of Differences in Body Fat Distribution in Postmenopausal Women. Major Adviser: Prof. A.R. Folsom. April Graduate.

Ann Wilde Kelly, Rochester

B.S. cum laude '59, University of Washington; M.S. '80, University of Minnesota. Major: Nursing. Minor: Educational Psychology. Thesis: Representations of Health in Persons with Chronic Health Problems. Major Adviser: Prof. A.M. Sime. June Graduate.

Robert James Ketchum, Eagan

B.S. '82, Brigham Young University. Major: Anatomy. Minor: Supporting Program. Thesis: In vitro Modification of Tissue Immunogenicity: Studies on the Transplantation of Cultured and Uncultured Rat Pancreatic Tissue. Major Adviser: Prof. O.D. Hegre. July Graduate.

Khalid Khallaayoune, Morocco

D.V.M. '81, Institute of Agriculture and Veterinary Medicine, Hassan II. Major: Veterinary Parasitology. Minor: Supporting Program. Thesis: Sheep Fascioliasis in Morocco: Epidemiology and Serodiagnosis. Major Adviser: Prof. B.E. Stromberg. May Graduate.

Dae San Kim, Seoul, South Korea

B.S. '78, M.S. '80, Seoul National University. Major: Mathematics. Minor: Supporting Program. Thesis: Galois Symmetric Square L-Functions. Major Adviser: Prof. P.B. Garrett. August Graduate.

Dong Ho Kim, Daegu, Korea

B.S. '79, Seoul National University; M.S. '81, Korea Advanced Institute of Science and Technology. Major: Physics. Minor: Supporting Program. Thesis: Transport Properties of High Temperature Superconductor TlBaCaCuO Thin Films. Major Adviser: Prof. A.M. Goldman. August Graduate.

Dongsu Kim, Korea

B.S. '81, Seoul National University. Major: Mathematics. Minor: Supporting Program. Thesis: A Combinatorial Approach to Biorthogonal Polynomials. Major Adviser: Prof. D.W. Stanton. July Graduate.

Kyung Ja Chang Kim, Korea

B.H.Econ. '79, M.H.Econ. '81, Seoul National University. Major: Nutrition. Minor: Supporting Program. Thesis: The Contribution of Peroxisomal Beta-Oxidation to Non-Shivering Thermogenesis. Major Adviser: Prof. P.B. Swan. June Graduate.

Paula Jean King, Alexandria

B.A. '73, University of Minnesota; M.S. '80, Mankato State University. Major: Business Administration. Minor: Supporting Program. Thesis: Policy Entrepreneurs: Catalysts in the Policy Innovation Process. Major Advisers: Profs. N.C. Roberts and P.S. Ring. April Graduate.

Lynn Louise Kitzerow, Minneapolis

B.S. '84, Dr. Martin Luther College; M.C.M. '86, Concordia College. Major: Music. Minor: Supporting Program. Thesis: Piano Concerto. Major Adviser: Prof. Paul Fetler. June Graduate.

Tae-kyung Koh, Seoul, Korea

B.A. '81, Sungshin Women's University. Major: Geography. Minor: Supporting Program. Thesis: The Political Economy of Urban Restructuring: The Case of Downtown Redevelopment in Chicago. Major Adviser: Prof. E.S. Sheppard. July Graduate.

Govind Prasad Koirala, Durnja, Nepal

M.A. '78, University of the Philippines. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Crop Technology Choice: An Intra-Firm Conceptual and Empirical Model. Major Adviser: Prof. V.W. Ruttan. June Graduate.

Keith Lee Kozloff, St. Paul

A.B. '73, Grinnell College; M.S. '75, University of Wisconsin. Major: Agricultural and Applied Economics. Minor: Public Affairs. Thesis: Benefits and Costs to Society from Retiring Eroding Cropland: A Case Study of the Conservation Reserve Program. Major Adviser: Prof. C.F. Runge. September Graduate.

Mark Raymond Kozlowski

B.S. with highest distinction '84, University of Illinois. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Photoelectrochemical Investigation of Anodic Oxide Films on Titanium. Major Adviser: Prof. W.H. Smyrl. May Graduate.

Steven Charles Krantz, Minneapolis

B.A. '71, Hamline University; M.A. '84, University of Minnesota. Major: Music. Minor: Philosophy. Thesis: Rhetorical and Structural Functions of Mode in Selected Motets of Josquin des Prez. Major Adviser: Prof. D.C. Jackson. August Graduate.

Ramona Fae Kunard, North Mankato

B.S. '63, M.S. '67, Spec.Cert. '82, Mankato State University. Major: Educational Administration. Minor: Supporting Program. Thesis: Career Decision Factors of Preservice Teachers in Minnesota. Major Adviser: Prof. N.C. Nickerson. June Graduate.

Wan Chu Kung, China

B.S. magna cum laude '78, University of the Philippines; M.S. '82, University of Minnesota. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Wetting Transition at Solid-Fluid and Binary Fluid-Fluid Interfaces. Major Advisers: Profs. H.T. Davis and L.E. Scriven. May Graduate.

Wing Tak Lai, Hong Kong

B.A. magna cum laude '82, University of Ottawa; M.S.M.E. '82, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Natural Heat and Mass Transfer in a Rectangular Enclosure. Major Adviser: Prof. J.W. Ramsey. April Graduate.

Debra Louise LaQua, Fessenden, N.D.

B.A. with honors '73, North Dakota State University; M.S.Ed. '76, Moorhead State College. Major: Educational Psychology. Minor: Neuroscience. Thesis: Validity of the Early Screening Profiles. Major Adviser: Prof. R.H. Bruininks. September Graduate.

Kevin Charles Larkin, Little Neck, N.Y.

B.S. cum laude '71, Fordham University. Major: Psychology. Minor: Supporting Program. Thesis: Assessment of Vocational Interests with Polychotomous Response Models. Major Adviser: Prof. D.J. Weiss. August Graduate.

Tor Jermund Larsen, Oslo, Norway

Dipl. '71, Norwegian School of Management; M.A. '75, University of Lancaster. Major: Business Administration. Minor: Supporting Program. Thesis: Managers' Use of Computers: Middle Managers' End-User Computing Utilization Levels and Support Requirements by Level of Innovativeness. Major Adviser: Prof. J.C. Wetherbe. July Graduate.

Brett Paul Laursen, Minneapolis

B.A. '84, Nebraska Wesleyan University; M.A. '87, University of Minnesota. Major: Child Psychology. Minor: Supporting Program. Thesis: Relationships and Conflict During Adolescence. Major Adviser: Prof. W.A. Collins. August Graduate.

Changjin Lee, Daegu, Korea

B.S. '81, M.S. '83, Seoul National University. Major: Chemistry. Minor: Supporting Program. Thesis: Electrochemical Reductive Cyclization of alpha. beta-Unsaturated Carbonyl Compounds. Major Adviser: Prof. P.G. Gassman. June Graduate.

Chung Mong Lee

B.A. '83, M.S. '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: KOREL: A Knowledge-Based Object Recognition System That Learns. Major Advisers: Profs. J.R. Stagle and T.C. Pong. September Graduate.

Tien-Yu Tom Lee, Taiwan

B.S. '80, National Cheng Kung University; M.S. '84, Northeastern University. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: High-Heat-Flux Forced Convection Boiling Heat Transfer from Small Regions to Subcooled Turbulent Flow. Major Adviser: Prof. T.W. Simon. July Graduate.

Eric Michael Leeper, Arlington, Va.

B.S. with high distinction '80, George Mason University. Major: Economics. Minor: Supporting Program. Thesis: Empirical Implications of Monetary and Fiscal Policy Interactions. Major Adviser: Prof. C.A. Sims. April Graduate.

Gaye K. Lehman

B.A. cum laude '82, Carthage College. Major: Chemistry. Minor: Supporting Program. Thesis: Electroorganic Reductions at High Negative Potentials and Ammonium-Mercury Electroformation. Major Adviser: Prof. Esther Kariv-Miller. May Graduate.

Kon-Lim Leung, Hong Kong

B.C.E. with high distinction, M.S. '82, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Vibration Isolation of Structures from Ground-Transmitted Waves in Non-Homogeneous Elastic Soil. Major Adviser: Prof. Ioannis Vardoulakis. July Graduate.

Cristine Marie Levenduski

B.S. magna cum laude '75, B.A. '75, M.A. '78, University of Minnesota. Major: American Studies. Thesis: Elizabeth Ashbridge's "Remarkable Experiences": Creating the Self in a Quaker Personal Narrative. Major Adviser: Prof. E.M. Griffin. July Graduate.

Wing Ning Li, Hong Kong

B.S. with highest distinction '82, University of Iowa; M.S. '85, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Efficient Algorithms for Design Automation Problems. Major Adviser: Prof. S.K. Sahni. September Graduate.

Barbara Ellen Liedl, West Lafayette, Ind.

B.S. with distinction '82, M.S. '85, University of Minnesota. Major: Horticulture. Minor: Genetics. Thesis: Establishment of Esterase and Peroxidase Isozymes as Genetic Markers for a Genetic Linkage Map of Tuber-Bearing Solanum. Major Adviser: Prof. S.L. Desborough. July Graduate.

Patricia Susan Lindberg, Minneapolis

B.A. summa cum laude '82, M.A. '85, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Investigation of Female Identity and Self-Esteem. Major Adviser: Prof. L.S. Hansen. May Graduate.

David Carl Linde

B.S. with highest distinction '81, Pennsylvania State University. Major: Plant Pathology. Minor: Plant Breeding. Thesis: Identification and Use of New Phenotypic and Genotypic Markers in *Uromyces appendiculatus*, the Bean Rust Fungus. Major Adviser: Prof. J.V. Groth. August Graduate.

Lee-Chin Hsu Liu

B.A. '69, National Chung-Hsing University. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: On Routing Problem for Designing Digital Systems. Major Adviser: Prof. D.H. Du. April Graduate.

James Allen Long, St. Louis, Mo.

B.A. cum laude '79, Macalester College; M.A. '82, University of Minnesota. Major: French. Minor: Supporting Program. Thesis: Collage as Poetic Strategy: Apollinaire, Tzara, Ernst, Peret. Major Adviser: Prof. T.C. Conley. May Graduate.

Hang Lou, China

B.Ed. '82, Hangzhou University; M.A. '84, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Study of Adjustment Problems of Chinese Students in Selected Higher Education Institutions in the United States. Major Adviser: Prof. S.M. Clark. August Graduate.

Yunn-Hwa Grace Ma, Taipei, Taiwan

B.S.Pharm. '82. Taipei Medical College; M.S.Pharm. '84. National Taiwan University. Major: Pharmacology. Minor: Supporting Program. Thesis: Influence of Renal Lipids on Cardiovascular Dynamics. Major Adviser: Prof. E.W. Dunham. July Graduate.

Jane Frances Macfarlane, Pleasanton, Calif.

B.A. '78. University of California; M.S. '83. University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Qualitative and Symbolic Analysis of Dynamic Physical Systems. Major Adviser: Prof. Max Donath. July Graduate.

Kathy Ruth Magnusson, Blooming Prairie

B.S.V.S. '80. D.V.M. '82. University of Minnesota. Major: Veterinary Anatomy. Minor: Neuroscience. Thesis: Immunohistochemical Localization of Taurine in the Rat Cerebellum and Localization and Release of Taurine in the Rat Hippocampus. Major Adviser: Prof. A.J. Beitz. September Graduate.

Farzad Mahmoodi, Tehran, Iran

B.M.E. '82. M.S. '83. University of Minnesota. Major: Industrial Engineering. Minor: Supporting Program. Thesis: An Investigation of Dynamic Group Scheduling and Releasing Heuristics in Cellular Manufacturing. Major Advisers: Profs. P.J. Starr and K.J. Dooley. September Graduate.

Rita Szczepanski Majerle

B.S. '78. University of Minnesota. Major: Chemistry. Minor: Supporting Program. Thesis: The Total Synthesis of N-Benzoylated Actinobolin Amine: Studies Toward the Synthesis of Actinobolin and Bactobolin. Major Adviser: Prof. T.R. Hoye. May Graduate.

Patricia Ann Maki

B.S. '76. University of Illinois. Major: Pharmacology. Minor: Supporting Program. Thesis: Sensitivity of Aldehyde Dehydrogenase-Catalyzed Detoxification of Oxazaphosphorines in Murine Tumors and Hematopoietic Progenitor Cells to Inhibition by Chloral Hydrate and Procarbazine. Major Adviser: Prof. N.E. Sladek. September Graduate.

Merridy Anne Malin, Australia

B.A. summa cum laude '75. Southern Oregon State College; M.A. '82. University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Invisibility in Success. Visibility in Transgression for the Aboriginal Child in the Urban Classroom: Case Studies at Home and at School in Adelaide. Major Adviser: Prof. J.J. Cogan. July Graduate.

Elizabeth Ann Mancz, Atwater, Ohio

B.A. magna cum laude '77. University of Akron; M.A. '80. University of Minnesota. Major: Ancient Studies. Thesis: An Examination of Changing Patterns of Animal Husbandry of the Late Bronze and Dark Ages of Nichoria in the Southwestern Peloponnese. Major Adviser: Prof. G.E. Gibbon. April Graduate.

Daniel Robert Mantell, Minneapolis

B.S. '82. University of Rochester. Major: Chemistry. Minor: Supporting Program. Thesis: Reactions of Nitrite and Azide with Mono- and Polynuclear Metal Carbonyls. Organometallic Azides as Precursors for the Low Temperature Chemical Vapor Deposition of Aluminum Nitride Thin Films. Major Adviser: Prof. W.L. Gladfelter. July Graduate.

Marcelo Jose Marchetti

Ing. Civ.Bio. '82. Universidad Catolica de Valparaiso; M.S. '85. Lehigh University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Thermodynamics of Temperature-Sensitive Gels. Major Advisers: Profs. E.L. Cussler and Stephen Prager. July Graduate.

Sharon Ann Maroney, Storm Lake, Iowa

B.S. '75. Southern Connecticut State College; M.A. '78. University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Social Validation Study of Iowa High School Students' Ratings of Importance of Selected Individual Social Skills with Respect to Peer Acceptance. Major Adviser: Prof. E.H. Wood. July Graduate.

Gwen Hall Martinson, Minneapolis

B.S. with distinction '70. University of Minnesota; M.S. '72, Spec. '77. St. Cloud State University. Major: Educational Administration. Minor: Supporting Program. Thesis: A Norming Study of Students with Behavior Disorders in the Public Schools. Major Adviser: Prof. R.F. Weatherman. May Graduate.

Monte Bruce McCaw, Clarence, Iowa

D.V.M. '80. Iowa State University. Major: Veterinary Medicine. Minor: Veterinary Microbiology. Thesis: Observations on Epidemiology, Serodiagnosis, and Antiviral Drugs for Pseudorabies Virus Infection in Swine. Major Adviser: Prof. H.S. Joe. July Graduate.

Frances Beck McDonald, Kasota

B.A. '57. College of St. Scholastica; M.S. '70. Mankato State College. Major: Education. Minor: Supporting Program. Thesis: Intellectual Freedom and Censorship Attitudes of Secondary School Librarians and Principled Moral Reasoning. Major Adviser: Prof. H.Y. Williams. June Graduate.

Douglas Kelley McDoniel, Madera, Calif.

B.A. summa cum laude '83. California State University; M.S. '87. University of Minnesota. Major: Mathematics. Minor: Supporting Program. Thesis: Siegel-Hilbert Cuspforms Attached to CM Extensions and Their Application to Periods of Genus-2 Hecke Eigenfunctions. Major Adviser: Prof. P.B. Garrett. June Graduate.

Kevin S. McGrew, Clearwater

B.A. cum laude '74. M.S.Ed. '75. Moorhead State College. Major: Educational Psychology. Minor: Supporting Program. Thesis: Defining the Constructs of Adaptive and Maladaptive Behavior Within a Model of Personal Competence. Major Adviser: Prof. R.H. Bruininks. April Graduate.

Douglas Malcolm McLeod, Madison, Wis.

B.A. '83, University of Wisconsin; M.A. '86, University of Minnesota. Major: Mass Communication. Minor: Sociology. Thesis: The Role of the Mass Media in American Society: Popular and Professional Perceptions. Major Adviser: Prof. E.J. Tichenor. September Graduate.

Marlys Parker McPherson

B.A. '69, M.A. '74, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: Knowledge as Power and Symbol: The Case of the Elderly and Crime. Major Adviser: Prof. T.M. Scott. May Graduate.

Rosemary Anne McVicar, Winnipeg, Manitoba, Canada

B.A. cum laude '68, York University; M.Ed. '73, University of Alberta. Major: Educational Psychology. Minor: Supporting Program. Thesis: Psychological Variables in Children's Achievement: Gender Differences. Major Adviser: Prof. R.A. Weinberg. July Graduate.

David Robert Mekala

B.Tech. '79, Indian Institute of Technology, Madras; M.S. '82, Ohio University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Lubricant Application, Distribution, and Depletion on Porous Coatings. Major Advisers: Profs. H.T. Davis and L.E. Scriven. September Graduate.

Hamdy Moussa Metwally, Cairo, Egypt

B.S. Ag. '73, M.S. Ag. '79, Ain Shams University. Major: Animal Science. Minor: Supporting Program. Thesis: Effects of Dietary Carbohydrate and Protein Sources on Ruminal Fermentation and Protein Supply to the Small Intestine. Major Adviser: Prof. M.D. Stern. August Graduate.

Cynthia Jo Meyer, St. Paul

B.A. magna cum laude '79, Macalester College; M.A. '84, University of Minnesota. Major: Family Social Science. Minor: Psychology. Thesis: Social Support and Couple Closeness Among Lesbians. Major Adviser: Prof. P.C. Rosenblatt. April Graduate.

Eduard Michel, Minnetonka

B.S. '84, University of Minnesota. Major: Anatomy. Minor: Supporting Program. Thesis: Prolactin Binding Sites: Morphological Studies Using Histochemical Probes. Major Adviser: Prof. J.A. Parsons. August Graduate.

Diann L. Morrison, Hydaburg, Ala.

B.L.A. '83, M.P.A. '84, University of Alaska; M.Ed. '86, Stanford University. Major: Educational Administration. Minor: Supporting Program. Thesis: Legal Developments That Impose Limitations on Teacher Role Model Theory. Major Advisers: Profs. V.D. Mueller and C.P. Hooker. July Graduate.

William E. Morrow

B.V.S. '72, University of Queensland; M.S. '87, University of Minnesota. Major: Veterinary Medicine. Minor: Epidemiology. Thesis: An Epidemiological Investigation and Economic Evaluation of Treatments for Reduced Parity-Two Litter Size in Swine. Major Adviser: Prof. A.D. Leman. May Graduate.

Maria Eugenia Muniagurria, Goya, Corrientes, Argentina

Lic.Econ. '78, Universidad de Buenos Aires. Major: Economics. Minor: Supporting Program. Thesis: Essays on the Theory of Technology Creation and Transfer. Major Adviser: Prof. E.C. Prescott. July Graduate.

Jean Pearson Murray, St. Paul

B.M.E. with high distinction '77, B.Phys. with high distinction '77, University of Minnesota. Major: Mechanical Engineering. Minor: Public Affairs. Thesis: A Study of Cellulose Gasification in a Fluidized Bed Using a High Temperature Solar Furnace. Major Adviser: Prof. E.A. Fletcher. May Graduate.

Shinsuke Nakamura, Tokyo, Japan

B.A. Econ. '81, M.A. Econ. '83, Keio University. Major: Economics. Minor: Supporting Program. Thesis: Efficient Feasible Nash Mechanisms with Production and Externalities. Major Adviser: Prof. Leonid Hurwicz. June Graduate.

Nilabh Narayan

B.Tech. '82, Indian Institute of Technology; M.S. '86, University of Minnesota. Major: Mechanics. Minor: Supporting Program. Thesis: Turbulent Boundary Layer Pressure Field Induced Vibrations in a Thin Flexible Plate Under Water. Major Adviser: Prof. Robert Plunkett. May Graduate.

Gail Carol Nelson, Santa Rosa, Calif.

B.A. '69, Douglass College; M.A. '73, Montclair State College. Major: American Studies. Thesis: Practicing Peace in Recovery with A.A. (Alcoholics Anonymous). Major Adviser: Prof. D.O. Born. August Graduate.

Gayle LaVerne Nelson, St. Paul

A.B. '68, West Virginia University; M.A. '75, University of Minnesota; M.A.T. '77, School for International Training. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Relationship Between the Use of Personal Examples in Foreign Teaching Assistants' Lectures and Uncertainty Reduction, Student Attitude, Student Recall, and Ethnocentrism. Major Advisers: Profs. E.G. Bormann and J.N. Martin. July Graduate.

Peter Jon Nelson, Duluth

B.S. '84, University of Minnesota. Major: Biochemistry. Minor: Supporting Program. Thesis: Specific Gene Expression During the Maturation of Cytolytic Effector Function in Lymphocytes. Major Advisers: Profs. J.L. Schottel and H.C. Towle. August Graduate.

Kin-Wang Ng, Hong Kong

B.S. '84, National Taiwan University. Major: Physics. Minor: Supporting Program. Thesis: Cosmological Implications of Models with Flat Directions. Major Adviser: Prof. K.A. Olive. August Graduate.

Suleiman Shaaban A. Ngware, Tanzania

B.A. '75, M.A. '80, University of Dar es Salaam; M.A. '86, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Tanzania's Educational Reforms, 1977-1987: Policy Analysis and Implications for Secondary Education. Major Adviser: Prof. E.A. Persons. April Graduate.

Beverly Jean Nilsson, Hopkins

B.S.N. with high distinction '67, M.S. '73, University of Minnesota. Major: Speech-Communication. Minor: Nursing. Thesis: Nurses' Communicative Behavior: A Descriptive Survey of the Communicative Goals and Satisfaction of Registered Nurses in Their Professional Interactions with Physicians. Major Adviser: Prof. R.L. Scott. June Graduate.

Fred Gonzales Ninonuevo, Palos Verdes, Calif.

A.B. with distinction '80, Stanford University. Major: Psychology. Minor: Supporting Program. Thesis: Initial Empirical and Incremental Validity of New Within-Scale Content Subscales for the Minnesota Multiphasic Personality Inventory. Major Adviser: Prof. J.N. Butcher. June Graduate.

Marcia Niska, Las Vegas, Nev.

B.A. '70, University of Iowa; B.S. cum laude '73, M.S.Ed. '73, Bemidji State University. Major: Educational Administration. Minor: Supporting Program. Thesis: Mentoring and Power-Perceptions by Women in Nevada Public Schools. Major Advisers: Profs. S.M. Clark and T.L. Mazzoni. May Graduate.

Jeerasak Nopakun, Bangkok, Thailand

D.D.S. '72, Chulalongkorn University; M.Sc. '74, Mahidol University. Major: Oral Biology. Minor: Microbiology. Thesis: Gastrointestinal Absorption of Fluoride. Major Adviser: Prof. H.H. Messer. April Graduate.

Douglas Evatt Norton, Pisgah Forest, N.C.

B.S. summa cum laude '75, Wake Forest University. Major: Mathematics. Minor: Computer and Information Sciences. Thesis: A Metric Approach to the Conley Decomposition Theorem. Major Adviser: Prof. R.P. McGehee. August Graduate.

Allen Martin Omoto, Okemos, Mich.

B.A. '82, Kalamazoo College. Major: Psychology. Minor: Supporting Program. Thesis: Relationship Involvement and Closeness: Implications for the Processing of Relationship-Relevant Events. Major Adviser: Prof. Eugene Borgida. May Graduate.

William F. O'Neill, Menomonie, Wis.

B.A. '63, M.A. '80, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: James Joyce and the Celtic Revival. Major Adviser: Prof. E.J. Reed. May Graduate.

Jon Dagfinn Orten, Sofiemyr, Norway

Cand.Mag. '66, University of Oslo. Major: English. Minor: Supporting Program. Thesis: Elizabethan Puritanism and the Plain Style. Major Adviser: Prof. G.W. O'Brien. September Graduate.

Tiancheng Ouyang

M.S. '82, Nankai University. Major: Mathematics. Minor: Supporting Program. Thesis: On Positive Solutions of Semilinear Equation $\Delta u + \lambda u - |u|^p = 0$ on Compact Manifolds. Major Adviser: Prof. W.M. Ni. August Graduate.

Hitay Ozbay, Ankara, Turkey

B.Sc. '85, Middle East Technical University; M.Eng. '87, McGill University. Major: Control Science and Dynamical Systems. Thesis: H-Infinity Control of Distributed Systems: A Skew Toeplitz Approach. Major Adviser: Prof. A.R. Tannenbaum. August Graduate.

Tao Pang, Nanchong, China

B.S. '82, Fudan University. Major: Physics. Minor: Supporting Program. Thesis: Theories for Quantum Liquid Systems. Major Adviser: Prof. C.E. Campbell. August Graduate.

Young Jin Park, Daegu, Korea

B.Phys.Ed. '79, M.Phys.Ed. '84, Kyungpook National University. Major: Physical Education. Minor: Supporting Program. Thesis: A Biomechanical Analysis of Taekwondo Front-Kicks. Major Adviser: Prof. L.J. Stoner. July Graduate.

Margaret Engel Parker, St. Paul

B.A. with high honors '77, University of Montana. Major: Psychology. Minor: Supporting Program. Thesis: A Comparative Study of Print and Broadcast Journalists on Vocational Interests and Personality Variables. Major Adviser: Prof. J.C. Hansen. August Graduate.

Ralph Matthew Perhac, Jr.

B.A. '76, M.B.A. '78, University of Tennessee. Major: Philosophy. Minor: Supporting Program. Thesis: Health Care: Rights and Markets. Major Adviser: Prof. R.E. Sartorius. May Graduate.

Patricia Wilcox Peterson, Mankato

B.A. '67, University of Minnesota; M.A.T. '69, Yale University; M.A. '72, New York University. Major: Education. Minor: Supporting Program. Thesis: A Comparison of the Propositional Structures and Amount of Inferencing in Written Lecture Summaries of Native and Non-Native Speakers of English. Major Adviser: Prof. D.L. Lange. July Graduate.

Raymond Paul Podzorski

B.S. summa cum laude '80, Washington State University; M.S. '83, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: Immunological Properties of Candida albicans Mannan and Mannan Catabolites. Major Adviser: Prof. R.D. Nelson. May Graduate.

Petri Juha Pohjanpelto, Helsinki, Finland

M.Sc. '83, Helsinki University of Technology. Major: Mathematics. Minor: Supporting Program. Thesis: Symmetries of Maxwell's Equations. Major Adviser: Prof. P.J. Olver. June Graduate.

Marius Octavian Poliac

Dipl. '75, Universitatea "Babes-Bolyai" Cluj-Napoca. Major: Control Science and Dynamical Systems. Thesis: Convergence Theory for Multilayer Connectionist Systems. Major Adviser: Prof. E.B. Lee. August Graduate.

Norma Faye Powe, Cullman, Ala.

B.A. '71, University of California, Berkeley; M.A. '74, San Francisco State University. Major: Art History. Minor: Supporting Program. Thesis: Sculpture of the Cathedral Cloister, Eln. Major Adviser: Prof. C.D. Sheppard. April Graduate.

Ferdinand Ruprecht Pranchkh, Austria

Dipl.Ing. '83, Technische Universität Graz. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Elastohydrodynamics in Coating Flows. Major Adviser: Prof. L.E. Scriven. June Graduate.

Vijay Raghavan

B.Tech. '80, Indian Institute of Technology; M.S. '83, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Diagnosability Issues in Multiprocessor Systems. Major Advisers: Profs. M.L. Stein and A.R. Tripathi. May Graduate.

Matobole Dorothy Ralebipi, Potgietersrus, South Africa

B.A. '78, Higher Dipl. '79, University of the North. Major: Library Science. Minor: Supporting Program. Thesis: Perceived Management Development Needs of South African Library Managers: A Preliminary Investigation. Major Advisers: Profs. A.K. Wickesberg and W. Simonton. June Graduate.

Glen Curtis Ramsborg, Arlington Heights, Ill.

B.S. '77, M.A. '82, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Continuing Education and Professional Development: Factors Relating to Continuing Education Participation in Nurse Anesthesia. Major Adviser: Prof. W.M. Ammentorp. June Graduate.

Christine Marie Rankovic, Racine, Wis.

B.S. '80, University of Wisconsin; M.S. '84, University of Washington. Major: Communication Disorders. Minor: Supporting Program. Thesis: An Application of the Articulation Index to Hearing Aid Fitting. Major Adviser: Prof. D.J. VanTasell. May Graduate.

Durga Prasad Ravipati

B.S. '80, Regional Engineering College; M.S.M.E. '82, University of Minnesota. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Study of Magnetic and Recording Properties of DC Magnetron Sputtered COCR Thin Films. Major Adviser: Prof. J.M. Sivertsen. July Graduate.

Constance C. Relihan, Carpentersville, Ill.

B.A. magna cum laude '82, University of Illinois. Major: English. Minor: Supporting Program. Thesis: Constructing Authority: The Writers and Readers of Elizabethan Novelistic Discourse. Major Adviser: Prof. S.N. Garner. July Graduate.

Carol Marie Rembacki, Detroit, Mich.

B.A. '73, M.Ed. '78, Marygrove College. Major: Educational Psychology. Minor: Supporting Program. Thesis: Teacher Speech Act Adjustment to Language-Delayed Children. Major Advisers: Profs. B.E. Balow and Susan Rose. June Graduate.

Richard James Riehle

B.A. with highest honors '84, University of Northern Iowa. Major: Chemistry. Minor: Supporting Program. Thesis: Carbocationic Macrocyclizations Using Vinylcyclopropanes and Allyl Cations. Major Adviser: Prof. P.G. Gassman. August Graduate.

Kevin Thomas Riggs, De Land, Fla.

B.S. '81, University of Wisconsin; M.S. '83, Case Western Reserve University. Major: Physics. Minor: Supporting Program. Thesis: Magnetotransport Studies of Epitaxial Fe/GaAs(110) Films. Major Adviser: Prof. E.D. Dahlberg. August Graduate.

Raquel Rodriguez, Puerto Rico

B.S.Pharm. '81, University of Puerto Rico; M.S. '84, University of Minnesota. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: The Impact of Touching Behavior on Pharmacist-Patient Relationship. Major Adviser: Prof. A.I. Wertheimer. September Graduate.

William Dean Roering

B.S. '73, University of Notre Dame; M.S. '76, M.B.A. '80, St. Cloud State University. Major: Business Administration. Minor: Supporting Program. Thesis: The Relationships Among Contexts, Processes, Contents, and Outcomes in Strategic Management: A Theoretical and Empirical Examination. Major Adviser: Prof. M.L. Nichols. July Graduate.

Kevin Jon Roesselet, Greenfield, Wis.

B.A. summa cum laude '82, St. Olaf College. Major: Chemistry. Minor: Supporting Program. Thesis: Part I. Reactivity of O - Xylylene and Exo-Methylenecyclohexadienyl Complexes of Manganese. Part II. Structural and Catalytic Aspects of Halo-, Nitrido-, and Imido-Complexes of the Group VIII Transition Metals. Major Adviser: Prof. W.L. Gladfelter. July Graduate.

James Baker Ross, St. Paul

B.A. '74, Goddard College; M.A. '78, Iowa State University. Major: History. Minor: History of Science and Technology. Thesis: Taconite: The Science of Design. Major Adviser: Prof. G.D. Green. August Graduate.

Robert Russell Roy, Minneapolis

B.A. cum laude '80, Augsburg College; M.S. '86, University of Minnesota. Major: Environmental Health. Minor: Supporting Program. Thesis: Bioactivation of Myelotoxic Xenobiotics by Human Neutrophil Myeloperoxidase. Major Advisers: Profs. D.E. Barber and J.B. Stevens. September Graduate.

David Bryan Rubino, St. Paul

B.S. with distinction '82, Pennsylvania State University; M.S. '84, North Carolina State University. Major: Horticulture. Minor: Genetics. Thesis: Effects of Long-Term Selection on the Performance of a Semi-Exotic Population of Maize. Major Adviser: Prof. D.W. Davis. July Graduate.

Nancy Rusinko, Hinsdale, Ill.

B.A. '80, Northwestern University; M.S. '85, University of Minnesota. Major: Physiology. Minor: Supporting Program. Thesis: Enzymatic Production by Tissue Extracts of a Metabolite of Nicotinamide Adenine Dinucleotide with Calcium-Releasing Ability. Major Adviser: Prof. H.C. Lee. July Graduate.

Melissa Jane Russell, Minneapolis

B.S. '70, Florida State University; M.Ed. '72, University of Florida. Major: Educational Psychology. Minor: Supporting Program. Thesis: Social Skills Training of Emotional Behavioral Disordered Students: A Comparison of Coaching and Adapted Coaching Techniques. Major Adviser: Prof. F.H. Wood. May Graduate.

Peter Yao Kanze Sallah, Akatsi, Ghana

B.S. Ag. '78, University of Ghana; M.S. '84, University of Minnesota. Major: Plant Breeding. Minor: Supporting Program. Thesis: Selection for Response to Nitrogen Fertilizer in a Tropical Maize Population. Major Adviser: Prof. J.L. Geadelmann. April Graduate.

Vallabhajosyula Sambamurthy, India

B.E. with honors '81, University of Madras; PG.D.M. '83, Indian Institute of Management, Calcutta. Major: Business Administration. Minor: Supporting Program. Thesis: Supporting Group Performance During Stakeholder Analysis: The Effects of Alternative Computer-Based Designs. Major Adviser: Prof. Gerardine DeSanctis. September Graduate.

Elena Sanchez-Mora, Mexico City, Mexico

Lic. '78, Universidad Nacional Autonoma; M.A. '82, M.A. '85, University of Minnesota. Major: Hispanic and Luso-Brazilian Literatures. Minor: Supporting Program. Thesis: Mascaras Femeninas y Cultura Nacional en los Relatos de la Rebellion Cristera, Mexico, 1930-1976. Major Adviser: Prof. Rene Jara. August Graduate.

Kathryn Eleanor Schenk, Minneapolis

B.A. '65, San Jose State College; M.M. '85, University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: Heinrich Fleischer: The Organist's Calling and the Straube Tradition. Major Adviser: Prof. C.E. Furman. July Graduate.

Robert Jordan Schuler, Menomonie, Wis.

A.B. '61, Stanford University; M.A. '65, University of California. Major: English. Minor: Supporting Program. Thesis: Journeys Toward the Original Mind: The Longer Poems of Gary Snyder. Major Adviser: Prof. G.T. Wright. May Graduate.

David Andrew Schultz, St. Paul

B.A. '80, Harpur College; M.A. '82, Rutgers University; M.A. '86, State University of New York. Major: Political Science. Minor: Supporting Program. Thesis: Private Property and Public Use in American Constitutional Law. Major Adviser: Prof. Samuel Krislov. July Graduate.

Peter Randall Schunk, Colorado Springs, Colo.

B.S. with special honors '84, University of Colorado. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Surfactant and Polymer Additives in Coating and Related Flows. Major Adviser: Prof. L.E. Scriven. September Graduate.

Sherry Lynn Anker Schwarz, St. Paul

B.S. '75, B.S. with high distinction '78, M.A. '84, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Study on Student Persistence-Attrition in Minnesota Technical Institutes. Major Advisers: Profs. J.R. Stone and C.R. Hopkins. August Graduate.

John Edward Schwiebert

B.A. magna cum laude '76, Carleton College; M.A. '86, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: Walt Whitman's Poetic Technique and Style in the Short Poem. Major Adviser: Prof. G.T. Wright. July Graduate.

Robert Thomas Seavey, Minneapolis

B.A. '76, Lawrence University; M.S. '83, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: Effect of Batch Venting and Conventional Schedules on the Drying Rate, Wood Quality, and Energy Consumption Using 4/4 Red Oak Lumber. Major Adviser: Prof. R.W. Erickson. June Graduate.

Lawrence James Seiberlich, Roseville

B.A. '66, B.Arch. '68, M.A. '82, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The Future of Architecture: Product, Process, Practice. Preparation: A Public Issue. Major Adviser: Prof. A.M. Harkins. September Graduate.

Vasgen A. Shamamian, West Orange, N.J.

A.B. magna cum laude '81, Bowdoin College. Major: Chemistry. Minor: Supporting Program. Thesis: State-Resolved Rotational Excitation Dynamics of Iodine and Paradifluorobenzene in Collisions with Helium. Major Adviser: Prof. W.R. Gentry. May Graduate.

Wendy Sue Shannon, Rochester

B.S. with distinction '76, M.A. '81, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Utility-Cost Study of Two School Improvement Programs. Major Advisers: Profs. D.R. Lewis and B.R. Dalgaard. June Graduate.

Padam Prasad Sharma

B.S. '71, University of Udaipur; B.S. with distinction '78, M.S. '80, University of Minnesota. Major: Soil Science. Minor: Supporting Program. Thesis: Effect of Soil Strength on Soil Detachment by Raindrops Varying in Kinetic Energy and Momentum. Major Adviser: Prof. S.C. Gupta. May Graduate.

Barbara Ann Shields, Omaha, Neb.

B.S. with distinction '81, University of Nebraska. Major: Zoology. Minor: Supporting Program. Thesis: Meristic, Morphometric, Chromosomal, and Mitochondrial DNA Variation in Three Populations of Inland Tullibee, *Coregonus artedii* in Minnesota. Major Advisers: Profs. K.S. Guise and J.C. Underhill. September Graduate.

Noriko Krauss Shiota

B.A. '77, Sophia University; M.Ed. '78, Boston College. Major: Psychology. Minor: Supporting Program. Thesis: Japanese MMP1-2: Inventory Adaptation and Equivalence Evaluation Using Japanese and American College Samples. Major Adviser: Prof. J.N. Butcher. September Graduate.

Renben Shu, China

Dipl. '70, Fudan University. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Reliable Designs for Massively Connected Multiprocessors. Major Adviser: Prof. D.H. Du. August Graduate.

Sue Ann Sjeklocha

B.S. with distinction '75, Iowa State University; M.Ed. '84, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Children at Risk: Genesis of a Construct. Major Adviser: Prof. R.F. Weatherman. July Graduate.

Ross A.W. Smith, Minnetonka

B.E.E. with distinction '85, M.S.E.E. '87, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Design and Programming of Systolic Array Cells for Signal Processing. Major Adviser: Prof. G.E. Sobelman. July Graduate.

Stephen Mark Sohn, Shoreview

B.A. magna cum laude '83, St. Olaf College. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: On the Design, Analysis, and Implementation of Efficient Parallel Algorithms. Major Advisers: Profs. O.H. Ibarra and T.C. Pong. June Graduate.

Aldo Steinfeld, Uruguay

B.S. '84, Technion-Israel Institute of Technology; M.S. '86, Tel-Aviv University. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Solar Receiver-Reactor System for High-Temperature Thermochemical Processes. Major Adviser: Prof. E.A. Fletcher. August Graduate.

Paul Gordon Stoltz

B.A. '82, University of California; M.A. '86, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: Developing Communication Skills Through Outdoor Experiential Leadership Training: A Quantitative and Qualitative Analysis. Major Advisers: Profs. M.S. Poole and G.L. Shapiro. August Graduate.

Susan Mary Strohm, Lemont, Pa.

B.A. '76, University of Wisconsin; M.A. '82, University of Minnesota. Major: Mass Communication. Minor: Supporting Program. Thesis: Black Community Organization and the Role of the Black Press in Resource Mobilization in Los Angeles from 1940 to 1980. Major Adviser: Prof. P.J. Tichenor. August Graduate.

Jean Theresa Strommer, St. Paul

B.S. '68, B.A. '68, M.A. '73, University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: The Twelve-Tone System as a Vehicle for Spiritual Values: La Corona (John Donne/Ernst Krenek). Major Advisers: Profs. Johannes Riedel and R.T. Laudon. June Graduate.

Constance Sauer Stueland, Albany

B.A. with honor '75, Hamline University. Major: Biochemistry. Minor: Supporting Program. Thesis: Structure and Biological Function of Isocitrate Dehydrogenase Kinase/Phosphatase. Major Adviser: Prof. D.C. LaPorte. September Graduate.

Kristene Kae Surerus, Cooperstown, N.D.

B.A. summa cum laude '84, B.S. summa cum laude '84, University of North Dakota. Major: Biochemistry. Minor: Supporting Program. Thesis: Mossbauer and Electron Paramagnetic Resonance Studies of MFe_2S_4 ($M = Zn, Cd, Ga, Ni$) and Fe_3S_4 Clusters. Major Adviser: Prof. Eckard Muenck. June Graduate.

Tatsuhiko Tabara, Minneapolis

B.E. '76, University of Electro-Communications; B.A. '79, University of Minnesota. Major: Mathematics. Minor: Supporting Program. Thesis: An Asymptotic Analysis and Stokes Multipliers for a Second Order Linear Differential Equation with Polynomial Coefficients. Major Adviser: Prof. Yasutaka Sibuya. September Graduate.

Mario Taboada, Montevideo, Uruguay

M.S. '86, Tel-Aviv University. Major: Mathematics. Minor: Supporting Program. Thesis: Long-Time Behavior of the Kuramoto-Sivashinsky Equation and Related Problems. Major Adviser: Prof. G.R. Sell. July Graduate.

Miguel Benard da Costa Tamen, Lisbon, Portugal

Lic. '82, M.A. '85, Universidade Classica de Lisboa. Major: Comparative Literature. Minor: Supporting Program. Thesis: Manners of Interpretation. Major Adviser: Prof. Wlad Godzich. June Graduate.

Petros Savvas Taoukis, Athens, Greece

Dipl. '83, National Technical University of Athens; M.S. '85, University of Minnesota. Major: Food Science. Minor: Supporting Program. Thesis: Time-Temperature Indicators as Shelf Life Monitors of Food Products. Major Adviser: Prof. T.P. Labuza. July Graduate.

Stephen William Taylor, Auckland, New Zealand

B.Sc. with honors '84, M.S. '85, University of Auckland. Major: Mathematics. Minor: Supporting Program. Thesis: Gevrey Regularity of Solutions of Evolution Equations and Boundary Controllability. Major Adviser: Prof. Walter Littman. September Graduate.

Elizabeth Ann Theiss-Morse, Lincoln, Neb.

B.A. '82, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: The Role of Citizens in a Democracy: Beliefs and Behavior. Major Adviser: Prof. J.L. Sullivan. August Graduate.

Shelley Jo Thompson

B.S.A. with high honors '81, M.S. '83, University of Saskatchewan. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: Dynamic Games in Agricultural Policy. Major Advisers: Profs. Harold von Witzke and T.L. Roe. September Graduate.

Wallace Bruce Thoreson, St. Paul

B.A. '81, Carleton College. Major: Physiology. Minor: Neuroscience. Thesis: Synaptic and Intrinsic Mechanisms of Depolarizing Responses of Cone Photoreceptors. Major Adviser: Prof. R.L. Purple. August Graduate.

Ahmed Tibary

Dipl. Doct. Vet. '80. Institut Agronomique et Veterinaire Hassan II; M.S. '84. University of Minnesota. Major: Theriogenology. Minor: Supporting Program. Thesis: Factors Affecting Semen Preservation and Estrus Synchronization in Moroccan Sheep. Major Advisers: Profs. E.F. Graham and B.E. Seguin. April Graduate.

Susan Cobb Tucker, Poughkeepsie, N.Y.

A.B. summa cum laude '84. Colgate University. Major: Chemistry. Minor: Supporting Program. Thesis: A Golden Rule Method for Resonance Decay and Microsolvation Effects on an S_N2 Reaction. Major Adviser: Prof. D.G. Truhlar. June Graduate.

Preeyaphan Udomprasert, Thailand

D.V.M. '82. Kasetsart University; M.S. '86. University of Minnesota. Major: Theriogenology. Minor: Supporting Program. Thesis: A Computer-Based System for Dairy Herd Reproductive Performance. Major Adviser: Prof. N.B. Williamson. August Graduate.

Susan K. Urahn, Minneapolis

B.A. '81. University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Student and Parent Attitudes About Financing Postsecondary Education: Effects on Postsecondary Attendance and Choice for Blacks, Whites, and Hispanics. Major Adviser: Prof. J.C. Hearn. June Graduate.

Britt Tatmen Vasquez, Roseville, Calif.

B.A. '72, M.A. '80. California State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Impact of Cooperative vs. Traditional Instruction on Acquisition of Knowledge in Naval Air Traffic Control School. Major Advisers: Profs. D.W. Johnson and R.T. Johnson. July Graduate.

Sankaran Venkataraman, India

M.A. with honors '80, Birla Institute of Technology and Science; PG.D.M. '82, Indian Institute of Management, Calcutta. Major: Business Administration. Minor: Supporting Program. Thesis: Problems of Small Venture Start-Up, Survival, and Growth: A Transaction Set Approach. Major Adviser: Prof. A.H. Van de Ven. July Graduate.

Arthur Carl Wall, Hayfield

B.A. summa cum laude '83. Gustavus Adolphus College. Major: Materials Science and Engineering. Minor: Physics. Thesis: Electronic Structure of Ternary Semimagnetic Semiconductors. Major Adviser: Prof. Alfonso Franciosi. May Graduate.

Yue Wang, Beijing, China

Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Structural Transitions of Torsionally Stressed DNA. Major Adviser: Prof. Walter Suerbier. June Graduate.

Friedrich Viktor Weibel, Switzerland

B.A. '79, M.A. '81, University of Minnesota. Major: American Studies. Thesis: The Anatomy of United States Imperialism: Cultural Perspectives on American Interventionism in the Western Hemisphere, 1895-1907. Major Adviser: Prof. K.J. Brauer. May Graduate.

Pamela Jeanne Weiss-Farnan, White Bear Lake

B.S.N. '71, University of Nebraska; M.P.H. '75, University of Minnesota. Major: Education. Minor: Public Health. Thesis: Learning by Elderly Women. Major Adviser: Prof. R.A. Willie. June Graduate.

Alexander Edward Wendt, St. Paul

B.A. magna cum laude '82, Macalester College. Major: Political Science. Minor: Supporting Program. Thesis: The States System and Global Militarization. Major Adviser: Prof. R.D. Duvall. August Graduate.

Steven John Werkema, Bloomington

B.Phys. '79, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: Monte Carlo Evaluation of the Atmospheric Neutrino Background to Nucleon Decay in the Soudan 2 Detector. Major Adviser: Prof. E.A. Peterson. August Graduate.

Charles Steven West, Tulsa, Okla.

B.S. '76, University of Tulsa. Major: Sociology. Minor: Supporting Program. Thesis: A Level-of-the-Firm Analysis of New Business Job Creation. Major Adviser: Prof. P.D. Reynolds. July Graduate.

Cheryl Glass Wetherbe, Minneapolis

B.V.T.T.E. '77, Idaho State University; M.A. '82, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The Effectiveness of Computer-Assisted Instruction Integrated with a Spreadsheet as an Instructional Tool for Teaching Quantitative Concepts. Major Adviser: Prof. J.J. Lambrecht. September Graduate.

Kathleen Marie Whitcomb, Somerville, Mass.

B.S.C.E. cum laude '79, Tufts University. Major: Business Administration. Minor: Supporting Program. Thesis: The Effectiveness of Imprecise Probability Representation and Reduction for Probability Forecasting. Major Advisers: Profs. P.G. Benson and C.A. Williams. August Graduate.

Edward Reed Whittemore, Minneapolis

B.A. '80, Carleton College; M.S. '88, University of Minnesota. Major: Biochemistry. Minor: Neuroscience. Thesis: Characterization of Recognition Sites for L-2-Amino-4-Phosphonobutanoic Acid (L-AP4) in the Mammalian Central Nervous System. Major Adviser: Prof. J.F. Koerner. August Graduate.

Michael Raymond Wick, Eau Claire, Wis.

B.S. magna cum laude '84, University of Wisconsin; M.S. '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Reconstructive Explanation for Expert Systems. Major Advisers: Profs. J.R. Slagle and W.B. Thompson. September Graduate.

flo hauff wiger, Minneapolis

B.S. '74, M.S. '77, North Dakota State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Impact of Usage of Culturally Based Services on the Academic Performance of Undergraduate American Indian Students. Major Adviser: Prof. V.D. Mueller. September Graduate.

Lance Elliott Wilcox, St. Paul

B.A. with honors '74, University of Texas. Major: English. Minor: Psychology. Thesis: Interwoven Lives: The Letters of Samuel Johnson. Major Adviser: Prof. J.C. Weinsheimer. July Graduate.

Sharon Lee Wilford, Minneapolis

B.S.N. '67, University of Illinois. Major: Education. Minor: Supporting Program. Thesis: Knowledge Development in Nursing: Emergence of a Paradigm. Major Adviser: Prof. S.M. Clark. June Graduate.

Phyllis Marjean Wisen, Mankato

B.S. '79, M.S. '84, Mankato State University. Major: Educational Administration. Minor: Supporting Program. Thesis: Role of Faculty in Undergraduate Student Usage of Campus Facilities and Opportunities. Major Adviser: Prof. W.M. Ammentorp. August Graduate.

Sanford Allen Wolgel, Chicago, Ill.

B.A. '78, Evergreen State College. Major: Biochemistry. Minor: Supporting Program. Thesis: Structural and Mechanistic Studies of Protocatechuate 2,3 Dioxxygenase from *Bacillus macerans*. Major Adviser: Prof. J.D. Lipscomb. August Graduate.

Jinwoon Woo, Busan, Korea

B.S. '80, Seoul National University. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Efficient Hypercube Algorithms. Major Adviser: Prof. S.K. Sahni. August Graduate.

Patricia Wood, Minneapolis

B.S. summa cum laude '76, M.D. '80, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: Malaria Pigment Formation in Chloroquine-Sensitive and Chloroquine-Resistant *Plasmodium berghei*. Major Adviser: Prof. J.W. Eaton. April Graduate.

San-Yuan Wu, Taichung, Taiwan

B.S. '79, National Taiwan University; M.S. '87, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Algorithms for VLSI Artwork. Major Adviser: Prof. S.K. Sahni. September Graduate.

Hung-Chuan Yen, Taipei, Taiwan

B.S. '82, National Chiao Tung University. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: On the Study of Efficient Timing Analysis Algorithms for VLSI Circuits. Major Adviser: Prof. D.H. Du. September Graduate.

Youngchul Yoon, Korea

B.Pol.Sc. '82, Yonsei University; M.A. '85, State University of New York. Major: Mass Communication. Minor: Supporting Program. Thesis: Political Transition and Press Ideology in South Korea. Major Adviser: Prof. C.C. Lee. September Graduate.

Peter Shi Tung Yuen, Los Gatos, Calif.

B.A. '81, University of Berkeley. Major: Pharmacology. Minor: Supporting Program. Thesis: Light-Regulated Photoreceptor Phosphodiesterase. Major Adviser: Prof. N.D. Goldberg. April Graduate.

Zhiqun Zhang, Kunming, China

B.S. '82, Shanghai Jiaotong University; M.S. '85, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Fundamental Study of the Aerosol Filtration by Fibrous Filters in the Transition Flow Regime. Major Advisers: Profs. B.Y. Liu and V.A. Marple. September Graduate.

*Master of Architecture***Carolyn Beth Berman, Minneapolis**

B.S.Arch. '79, University of Virginia. Major: Architecture. Thesis: Architecture Through Materials: An Urban Alley as a Cinema/Cafe. Major Adviser: Prof. J.A. Scherer. August Graduate.

Tim Russell Bjella, Minneapolis

B.S.D. summa cum laude '87, Arizona State. Major: Architecture. Thesis: Allure of Ruins. Major Adviser: Prof. J.G. Rauma. May Graduate.

Bonnie Lee Brueni, South Heart, N.D.

B.A. '77, North Dakota State University. Major: Architecture. Thesis: Medora, North Dakota: A Hotel for a Western Theme Town. Major Adviser: Prof. J.G. Rauma. May Graduate.

David Alan Fey, Minneapolis

B.A. cum laude '79, Carleton College. Major: Architecture. Thesis: Exploring Design Process. Major Adviser: Prof. D.M. Mulfinger. May Graduate.

Julie Marie Marz, Elmhurst, Ill.

B.S. '85, University of Illinois. Major: Architecture. Thesis: The Architectural Stage: A Playhouse in Amsterdam. Major Adviser: Prof. J.G. Rauma. August Graduate.

Kenneth David Potts, Minneapolis

B.A. '83, Carleton College. Major: Architecture. Thesis: Theater of Architecture: The Realm of the Museum. Major Adviser: Prof. D.M. Mulfinger. August Graduate.

James Jody Schulman, Menomonie, Wis.

B.A. '81, Carleton College. Major: Architecture. Thesis: Creating an Architecture of Modest Desire: A Midwestern Challenge. Major Adviser: Prof. D.M. Mulfinger. April Graduate.

Suchitramba Urs, Crookston

B.A. '87, Iowa State University. Major: Architecture. Thesis: House: A Medium for the Exploration of Aesthetics. Major Adviser: Prof. J.G. Rauma. August Graduate.

Robert Paul Wheaton, Minneapolis

B.A. '86, Iowa State University. Major: Architecture. Thesis: In Search of Neighborhood Character: Urban Design Guidelines for the Built Environment and Related Social Aspects of an Existing Neighborhood. Major Adviser: Prof. R.D. Clemence. July Graduate.

Tsi-Ling Yap, Malaysia

B.E.D. with high distinction '88, University of Minnesota. Major: Architecture. Thesis: Urban Housing: An Architecture of Transformation. Major Adviser: Prof. J.G. Rauma. September Graduate.

*Master of Arts***Sally Adam**

B.A. '79, University of Minnesota. Major: Family Social Science. Minor: Related Fields. Major Adviser: Prof. P.C. Rosenblatt. June Graduate.

Jerome Lee Braun, Minneapolis

B.S. '79, Northern State College. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. J.C. Busterna. June Graduate.

Sandra Lee Anderson, Burnsville

B.A. '65, Berea College. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.A. Zaidi. June Graduate.

Celeste Ann Brosenne, Minneapolis

B.A. with honor '74, Michigan State University. Major: Art History. Minor: Museology. Major Adviser: Prof. M.W. Stoughton. June Graduate.

Judith Rosa Arginteanu, Minneapolis

B.A. '86, University of Minnesota. Major: French. Minor: Related Fields. Major Adviser: Prof. E.B. Sivert. August Graduate.

Shelley Brown Brundage, Minneapolis

B.S.Ed. with distinction '84, University of Wisconsin. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Prof. R.R. Martin. September Graduate.

Harold Wilson Aurand, Jr., Drums, Pa.

B.A. with highest distinction '86, Pennsylvania State University. Major: History. Minor: Related Fields. Major Adviser: Prof. J.R. Howe. July Graduate.

Janet Louise Bull

B.A. '79, Ohio State University. Major: Public Affairs. Major Adviser: Prof. R.T. Kudrle. September Graduate.

Alexandra Eloise Austin

B.A. '86, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. E.G. Bormann. May Graduate.

Sally Ann Burkhardt, River Falls, Wis.

B.S. '84, University of Wisconsin. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. R.V. Dawis. August Graduate.

Margaret Jane Barton, Buffalo

B.A. '63, University of Northern Iowa. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. G.L. Shapiro. June Graduate.

Delores Theo Eide Buth, Coon Rapids

B.A. '64, Concordia College. Major: Secondary Education. Minor: German. Major Adviser: Prof. D.L. Lange. June Graduate.

Jon Samuel Bassewitz

B.A. '85, University of Minnesota. Major: Comparative Studies in Discourse and Society. Minor: Related Fields. Major Adviser: Prof. R.D. Leppert. September Graduate.

Wilfredo Camacho-Isaac

B.A. with honors '76, M.A. '84, University of Puerto Rico. Major: Economics. Minor: Related Fields. Major Adviser: Prof. Neil Wallace. August Graduate.

Thomas Stewart Baxter, New Brunswick, N.J.

B.A. cum laude '87, St. Olaf College. Major: Music. Minor: Related Fields. Major Adviser: Prof. D.A. Damschroder. June Graduate.

Candace D. Campbell, Minneapolis

B.A. '79, University of Illinois. Major: Public Affairs. Major Adviser: Prof. C.P. Bradford. September Graduate.

Christopher Avery Benjamin, Atlanta, Ga.

B.A. '84, Duke University. Major: Public Affairs. Major Adviser: Prof. R.T. Kudrle. April Graduate.

Patricia Lynn Campbell

B.A. '81, Ohio State University. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Prof. T.T. Blade. June Graduate.

Ahna Marie Bishop-Jara, Brooklyn Center

B.A. '87, University of Minnesota. Major: Hispanic Literature. Minor: Related Fields. Major Adviser: Prof. Rene Jara. August Graduate.

Molly Jane Casserly

B.A. magna cum laude '85, Wells College. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.F. Bognanno. April Graduate.

Bertine Boter, Leiden, Netherlands

Doct. '87, University of Leiden. Major: American Studies. Major Adviser: Prof. G.G. Yates. September Graduate.

Yang Ho Choi

B.Eng. '81, University of Wisconsin. Major: Mass Communication. Minor: Related Fields. Thesis: An Empirical Analysis of Palmgren-Rayburn's Uses and Gratifications Model and Fishbein-Ajzen's Expectancy-Value Theory of Reasoned Action. Major Adviser: Prof. A.R. Tims. April Graduate.

Claudia Jane Christensen Major, St. Paul
B.S. '85, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Measures of Intelligibility in Service Eligibility Decisions for Children with Articulation Differences. Major Adviser: Prof. R.P. McDermott. July Graduate.

Leo Gregory Christenson
B.A. '85, Pennsylvania State University. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. V.D. Mueller. May Graduate.

Maureen Cleary, Minneapolis
B.S. '77, University of Health Sciences/The Chicago Medical School. Major: Educational Psychology. Minor: Child Psychology. Major Adviser: Prof. J.E. Ysseldyke. June Graduate.

Caroline Elizabeth Cory, Montara, Calif.
B.A. '82, University of Nebraska. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.E. Bognanno. April Graduate.

Barbara Kotz Costanzo, Crystal
B.A. '67, University of Wisconsin. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.E. Azevedo. June Graduate.

Joan Marie Cradle, Minneapolis
B.S.B. with distinction '82, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.A. Noc. June Graduate.

Janis Kay Cram, Minneapolis
B.S. with distinction '68, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.A. Fossum. April Graduate.

Mary JoEllyn Dailey, Minot, N.D.
B.S.S.W. '81, University of North Dakota. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Prof. S.J. Schleien. May Graduate.

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B.A. with honors '77, Hamline University. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. P.J. Tichenor. September Graduate.

Geraldine Overland Decorsey
B.A. cum laude '57, St. Olaf College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. W.W. Tennyson. July Graduate.

Paul Joseph DesRoche, Tampa, Fla.
B.A. '67, University of Connecticut; M.S. '74, University of North Carolina. Major: Mathematics. Minor: Physics. Thesis: Heisenberg Model: Construction of the Markov Process Whose Time-Reversible Equilibrium are the Gibbs States. Major Adviser: Prof. L.F. Gray. May Graduate.

Steven Mark Deyo, St. Paul
B.A. magna cum laude '78, College of St. Thomas. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. T.L. Glasser. June Graduate.

Donna Lee DiPadua, Minneapolis
B.A. '79, University of California. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.G. Scoville. June Graduate.

Jonathan Bruce Dong
B.A. '87, University of Puget Sound. Major: Public Affairs. Major Adviser: Prof. J.W. Vaupel. August Graduate.

Nancy Stanton Dostal, Apple Valley
B.S. high distinction '79, University of Minnesota. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. Stephen Schultz. May Graduate.

Clarice Lulama Duma, Soweto, South Africa
B.A. '85, Macalester College. Major: Anthropology. Minor: Related Fields. Major Adviser: Prof. W.L. Rowe. July Graduate.

Sarah Dunning, Ann Arbor, Mich.
B.A. with honors '85, Grinnell College. Major: Public Affairs. Major Adviser: Prof. D.P. Geesaman. July Graduate.

Arvid Gerald Dyste, Farmington
B.A. '52, St. Olaf College. Major: History. Minor: Related Fields. Thesis: Causes of Religious Conflicts Among the Immigrants in America: A Case Study of the Norwegian Lutherans in the Christiania Settlement in Minnesota From 1854-1904. Major Adviser: Prof. R.J. Vecoli. August Graduate.

Kathryn Marie Eastman
B.A. '80, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. G.C. Sales. July Graduate.

Joyce Maria Eckes, Plymouth
B.S. summa cum laude '80, St. Cloud State University. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Prof. P.A. Broen. September Graduate.

Frieda Edwin Ekotto
B.A. '86, Colorado College. Major: French. Minor: Related Fields. Major Adviser: Prof. M.F. Paganini. September Graduate.

Patricia Ann Eliason, Minneapolis
B.A. '78, University of North Dakota. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. B.T. Downing. June Graduate.

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B.S. cum laude '79, University of Wisconsin. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. August Graduate.

Karolyn G. Ellis
B.S. with distinction '78, University of Colorado. Major: Physical Education. Minor: Related Fields. Major Adviser: Prof. R.C. Serfass. August Graduate.

Margo Charlene Elvin, Apple Valley
B.S. with distinction '65, University of Minnesota. Major: Business Education. Minor: Related Fields. Major Adviser: Prof. G.N. McLean. May Graduate.

Carolyn Comly Evans

B.A. '85, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.J. Park. September Graduate.

Anna Marie Fellegly, New Ulm

B.S. cum laude '84, University of Wisconsin. Major: English. Minor: Related Fields. Major Adviser: Prof. G.J. Esquire. September Graduate.

Christine Ann Fisher, St. Paul

B.S. '85, University of Wisconsin. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.A. Luzadis. July Graduate.

Guillermo Americo Fossati

PsicoLogo '79, Pontificia Universidade Catolica do Rio Grande do Sul. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. R.F. Weatherman. September Graduate.

Susan Elizabeth Foster, Shoreview

B.A. '84, Metropolitan State University. Major: Home Economics Education. Minor: Related Fields. Major Adviser: Prof. J.E. Pihl. June Graduate.

Tamera Jean Freimund, Pine Island

B.A. magna cum laude '83, St. Cloud State University. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Prof. L.H. McAvoy. May Graduate.

Patrick John Galatowitsch, St. Paul

B.A. '79, College of St. Thomas; B.S. '85, University of Minnesota. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. T.L. Mazzoni. June Graduate.

Theresa Marie Gangl-Hassemlouei, St. Paul

B.A. '79, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. R.D. Albert. April Graduate.

Marilyn Anne Ganje-Fling

B.A. '84, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. P.R. McCarthy. May Graduate.

Daniel Magnus Garceau, Oelwein, Iowa

B.A. '85, Iowa State University. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Prof. John Schultz. June Graduate.

Bruce Douglas Gilman

B.S. '76, University of Wisconsin. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. R.T. Johnson. June Graduate.

William Jay Golfus

B.A. '71, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. D.L. Rarick. June Graduate.

Paul Martin Good, Anoka

B.S. '78, Bemidji State University. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. G.F. Alkire. August Graduate.

Darlene Ann Gorrill, Ironwood, Mich.

B.A. magna cum laude '81, University of Minnesota. Major: Mass Communication. Minor: Related Fields. Thesis: Motivating Media Employees. Major Adviser: Prof. J.M. Lavine. June Graduate.

Linda Dawn Grandmason

B.A. '80, University of California. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. August Graduate.

Scott Alan Graves, Minneapolis

B.A. magna cum laude '80, Concordia College. Major: Public Affairs. Major Adviser: Prof. B.L. Lukermann. June Graduate.

Michael I. Gross, Teaneck, N.J.

B.A. '87, Haverford College. Major: Philosophy. Minor: Related Fields. Major Adviser: Prof. N.O. Dahl. June Graduate.

Sandra Jean Gross, St. Paul

B.I.S. cum laude '83, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.G. Scoville. June Graduate.

Steven Robert Hage

B.A. '76, Southwest State University. Major: Education. Minor: Related Fields. Major Adviser: Prof. E.D. Gennaro. May Graduate.

James Patrick Hall, Minneapolis

B.S. '85, University of Minnesota. Major: History of Science and Technology. Minor: Related Fields. Major Adviser: Prof. E.L. Layton. May Graduate.

Jody Lyn Hansen, Watertown, S.D.

B.A. cum laude '84, Hamline University. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. J.K. Gundel. June Graduate.

Susan Marie Hartfiel, Minneapolis

B.S. '76, University of Minnesota. Major: Physical Education. Minor: Related Fields. Thesis: Coaches Assessment of Athletes Precompetitive Anxiety Level. Major Adviser: Prof. M.L. Young. May Graduate.

Radene Rawson Hatfield

B.S. '83, Utah State University. Major: Public Affairs. Major Adviser: Prof. B.J. Nelson. May Graduate.

Julie Dawn Bass Haugen, Rochester

B.S. '80, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. D.G. MacEachern. September Graduate.

Kevin Donald Haukeness

B.A. '74, University of Minnesota. Major: History. Minor: Related Fields. Major Adviser: Prof. T.G. Stavrou. May Graduate.

John Martin Hennen

B.A. '84, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. J.L. Romano. July Graduate.

Bonnie Jo Herr, White Bear Lake

B.S. '79, University of Wisconsin. Major: Industrial Education. Minor: Related Fields. Major Adviser: Prof. R.A. Swanson. May Graduate.

Debra Joy Herreid, Sauk Centre

B.A. summa cum laude '82, Macalester College. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. J.C. Hansen. May Graduate.

Michael Gene Hiatt, Anoka

B.M. magna cum laude '77, Concordia College. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. Stephen Schultz. July Graduate.

Mark Leo Hill, Lino Lakes

B.S. with distinction '79, University of Minnesota. Major: Agricultural Education. Minor: Related Fields. Major Adviser: Prof. G.W. Leske. July Graduate.

Carolynn Jean Hinz, Minneapolis

B.A. '86, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.A. Noe. August Graduate.

Kevin Francis Hoeschen, Duluth

B.S. with high distinction '74, B.A. summa cum laude '74, University of Minnesota. Major: Music. Minor: Related Fields. Thesis: The Norwegian Hardanger Violin in the Upper Midwest: Documentation and Interpretation of an Immigrant Music Tradition. Major Adviser: Prof. A.L. Kagan. July Graduate.

Nathaniel John Hong

B.A. '74, St. Olaf College. Major: Mass Communication. Minor: History. Thesis: The Development, Use, and Judicial Review of United States Immigration Law to Suppress Free Speech: The Anarchists' Experience 1886-1924. Major Adviser: Prof. Helen Dicken-Garcia. June Graduate.

Debra Ann Hornfeldt, St. Paul

B.A. '77, University of Northern Colorado. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Prof. S.J. Schleen. September Graduate.

Elisabeth Albritton Horst, Excelsior

B.A. magna cum laude '82, Yale College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. J.R. Rest. April Graduate.

Leon Franciscus Horsten, Hamont-Achel, Belgium

Lic. '88, Katholieke Universiteit Leuven. Major: Philosophy. Minor: Related Fields. Major Adviser: Prof. C.A. Anderson. August Graduate.

Susan Kay Huemann

B.S. summa cum laude '84, Mankato State University. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. R.L. Borg. June Graduate.

Alissa Marie Hummer

B.A. '86, University of California. Major: Public Affairs. Major Adviser: Prof. B.J. Nelson. June Graduate.

Jill Concetta Hunt

B.S. '80, University of Minnesota. Major: Design, Housing, and Apparel. Minor: Architecture. Major Adviser: Prof. M.D. Bagley. June Graduate.

Sung Don Hwang, Seoul, South Korea

B.A. '79, Hankuk University of Foreign Studies; M.P.A. '81, Seoul National University. Major: Public Affairs. Major Adviser: Prof. R.C. Einsweiler. June Graduate.

Karen Ann Isely, St. Paul

B.A. '84, St. Olaf College. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.A. Luzadis. June Graduate.

Eric LeRoy Iverson, Fayetteville, N.Y.

B.A. '85, Concordia College. Major: Linguistics. Minor: Related Fields. Major Adviser: Prof. L.G. Hutchinson. May Graduate.

Laurie Ann Jacklitch, Minneapolis

B.A. with distinction '81, University of Minnesota. Major: Physical Education. Minor: Related Fields. Major Adviser: Prof. M.L. Young. June Graduate.

Richard Medeiros Jackson, Minneapolis

B.A. '81, University of Colorado. Major: English. Minor: Related Fields. Major Adviser: Prof. Michael Hancher. August Graduate.

Julie Ann James, Lino Lakes

B.A. cum laude '85, University of Minnesota. Major: Art History. Minor: Related Fields. Major Adviser: Prof. M.W. Stoughton. June Graduate.

Susan Marie Jensen, St. Paul

B.S. '83, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: The Effect of Directions to Speak Slowly and Clearly on Speakers' Speech. Major Adviser: Prof. C.D. Starr. September Graduate.

Willie L. Jett, Osseo

B.S. '74, St. Cloud State College. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. N.C. Nickerson. August Graduate.

Hong Jiang

Major: Chinese. Minor: Related Fields. Major Adviser: Prof. C.J. Lin. May Graduate.

David Lawrence Johnson, St. Paul

B.A. '74, University of Minnesota; M.Div. cum laude '80, Central Baptist Theological Seminary. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.W. Beach. August Graduate.

Joan Tressa Johnson

B.A. '83, Concordia College. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Prof. G.M. Siegel. June Graduate.

Lisa Ann Johnson, Baltimore, Md.

B.A. '86, University of Maryland. Major: History. Minor: Related Fields. Major Adviser: Prof. B.A. Hanawalt. July Graduate.

Scott Bryce Johnson, Coon Rapids

B.A. '81. University of Minnesota. Major: Psychology.
Minor: Related Fields. Major Adviser: Prof. J.P. Campbell.
August Graduate.

Kim Marie Kaliszewski, St. Paul

B.A. '86. College of St. Catherine. Major: English. Minor:
Related Fields. Major Adviser: Prof. C.J. Sugnet. July
Graduate.

Joseph Henry Kalkman, St. Cloud

B.A. magna cum laude '86. St. John's University. Major:
Educational Psychology. Minor: Related Fields. Major
Adviser: Prof. T.J. Hummel. June Graduate.

Ann Christine Kattreh, Kohler, Wis.

B.S. '87. Southern Illinois University. Major: Recreation,
Park, and Leisure Studies. Minor: Related Fields. Major
Adviser: Prof. John Schultz. September Graduate.

Cheryl Ann Katz, Irvine, Calif.

B.A. '76. Grinnell College. Major: Mass Communication.
Minor: Related Fields. Major Adviser: Prof. E.J. Tichenor.
August Graduate.

Yumi Kayama, Kariya, Aichi, Japan

B.A. '81. Nanzan University; M.A. '88. University of
Minnesota. Major: Japanese. Minor: Related Fields. Major
Adviser: Prof. W.M. Jacobsen. July Graduate.

Gary E. Keese, Oakland, Calif.

B.A. with distinction '72. University of Iowa; J.D. '83.
University of California. Major: Public Affairs. Major
Adviser: Prof. J.E. Brandl. May Graduate.

Kristina Marie Keillor, Madison, Wis.

B.S. '88. University of Minnesota. Major: Communication
Disorders. Minor: Related Fields. Thesis: The Relationship
Between Listener Impressions of Aphasic Adults' Narrative
Discourses and Objective Measures of Aphasic Speech.
Major Adviser: Prof. R.H. Brookshire. August Graduate.

Kathryn Ann Klemp, Fridley

B.A. '87. Gustavus Adolphus College. Major: Industrial
Relations. Minor: Related Fields. Major Adviser: Prof. J.G.
Scoville. June Graduate.

Jennifer Joan Kobow, Minneapolis

B.A. magna cum laude '87. University of Minnesota.
Major: Industrial Relations. Minor: Related Fields. Major
Adviser: Prof. J.G. Scoville. June Graduate.

Sandra Cryer Kocon

B.S. '83. University of Wisconsin. Major: Business
Education. Minor: Related Fields. Major Adviser: Prof.
G.N. McLean. September Graduate.

Ali Umran Komuscu, Turkey

Major: Geography. Minor: Related Fields. Major Adviser:
Prof. R.H. Skaggs. June Graduate.

Debra Michele Kopas, Roseville

B.A. magna cum laude '79. Hamline University. Major:
Elementary Education. Minor: Related Fields. Major
Adviser: Prof. H.S. Hansen. September Graduate.

Janice Lynn Kragness, LaCierdale

B.A. magna cum laude '83. St. Olaf College; M.S. '84.
University of Illinois. Major: History. Minor: Related
Fields. Major Adviser: Prof. S.M. Evans. August Graduate.

Katherine Mary Kratz, Minneapolis

B.S. '77. Western Illinois University. Major: Educational
Psychology. Minor: Related Fields. Major Adviser: Prof.
L.S. Hansen. August Graduate.

Thomas Warren Krise, St. Thomas, Virgin Islands

B.S. '82. United States Air Force Academy; M.S. '86.
Central Michigan University. Major: English. Minor:
Related Fields. Major Adviser: Prof. R.L. Brown, Jr. July
Graduate.

Sharon Ann Krmpotich, Minneapolis

B.A. '77. St. Cloud State University. Major: Sociology.
Minor: Statistics. Major Adviser: Prof. C.M. Kruttschnitt.
July Graduate.

Berdetta Jean Lang, Minneapolis

B.S. '86. University of Minnesota. Major: Communication
Disorders. Minor: Related Fields. Thesis: Listeners'
Perceptions of Nasal Resonance Distortion and Speech
Acceptability in Pre- and Postpubertal Male Speakers with
Cleft Lip and Palate. Major Adviser: Prof. C.D. Starr.
August Graduate.

Kathryn Ellen Lange, Minneapolis

B.A. '72. Augsburg College. Major: Education. Minor:
Related Fields. Major Adviser: Prof. J.J. Cogan. June
Graduate.

Cheryl Ann Lapp

B.S.N. '74. University of Alberta; M.P.H. '79. University of
Minnesota. Major: Sociology. Minor: Related Fields. Major
Adviser: Prof. D.G. McTavish. April Graduate.

Jean L. Laqua, Williston, N.D.

B.S. '70. Minot State College. Major: Music Education.
Minor: Related Fields. Major Adviser: Prof. Stephen
Schultz. July Graduate.

Sheryl Ann Larson, Mounds View

B.A. magna cum laude '85. Bethel College. Major:
Educational Psychology. Minor: Related Fields. Major
Adviser: Prof. J.E. Turnure. May Graduate.

Timothy Stuart Larson, Minneapolis

B.A. '81. summa cum laude. University of Minnesota.
Major: English. Minor: Related Fields. Major Adviser: Prof.
C.J. Sugnet. June Graduate.

LaVerne Byrd Lein

B.S. magna cum laude '82. University of Minnesota. Major:
Speech-Communication. Minor: Related Fields. Major
Adviser: Prof. J.V. Jensen. June Graduate.

Susan Diane Lenaburg, Valley City, N.D.

B.A. '86. University of Minnesota. Major: Speech-
Communication. Minor: Related Fields. Major Adviser:
Prof. D.R. Browne. August Graduate.

Brownie Carnelle Lewis, Natchez, La.

B.A. '83, Grambling State University; J.D. '88, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. June Graduate.

Rebecca Ann Lind, Manchester, N.H.

B.A. '87, Humboldt State University. Major: Speech-Communication. Minor: Related Fields. Thesis: You Can Take It With You: Uses and Gratifications of the Personal Stereo. Major Adviser: Prof. D.L. Rarick. July Graduate.

Diane Lynn Lingen, Minneapolis

B.A. '80, University of Minnesota. Major: South Asian Languages. Minor: Related Fields. Major Adviser: Prof. M.A.R. Barker. July Graduate.

Jean Irene Low, Faribault

B.S. '64, Stout State College; M.A. '70, Iowa State University. Major: Education. Minor: Related Fields. Major Adviser: Prof. H.G. Copeland. May Graduate.

Julie Maxine Luner

B.A. with honors '82, Grinnell College. Major: Public Affairs. Major Adviser: Prof. N.N. Eustis. June Graduate.

Kristen K. Negelspach Lupin

B.S. '78, Guilford College. Major: Political Science. Minor: Related Fields. Major Adviser: Prof. M.W. Sampson. April Graduate.

Paula Ann Maas, Frazee

B.A. cum laude '86, Moorhead State University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.G. Seoville. June Graduate.

Douglas Monroe Maine, Wethersfield, Conn.

B.A. summa cum laude '81, University of Hartford. Major: Mass Communication. Minor: Related Fields. Thesis: American Media and Modern Jazz: A Critical View of Commercial Culture in Self-Governing Society. Major Adviser: Prof. T.L. Glasser. September Graduate.

Didier Jean Maleuvre, France

Lic. '87, University of Pau. Major: French. Minor: English. Thesis: Le Temps de la Poesie Dans les Amours de Pierre de Ronsard. Major Adviser: Prof. T.C. Conley. July Graduate.

LuMing R. Mao

B.A. '82, East China Normal University. Major: English. Minor: Related Fields. Major Adviser: Prof. R.L. Brown, Jr. July Graduate.

Kathryn Clark Mapes

B.A. '76, Wittenberg University. Major: English. Minor: Related Fields. Major Adviser: Prof. Michael Hancher. June Graduate.

David Bacon Marcotte, Minneapolis

B.A. with highest honors '86, University of North Carolina. Major: Public Affairs. Major Adviser: Prof. J.W. Vaupel. September Graduate.

Patricia Ann Matuszak

B.A. '76, College of St. Teresa. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. R.H. Bruininks. June Graduate.

David Craig McCaa, Harleysville, Pa.

B.A. magna cum laude '86, Carleton College. Major: Mass Communication. Minor: Related Fields. Major Adviser: Prof. A.R. Tims. July Graduate.

Daniel Kevin McCarthy, Edina

B.I.S. '83, University of Minnesota. Major: Sociology. Minor: Related Fields. Thesis: Social Control Mechanisms in a Maximum Security Federal Penitentiary. Major Adviser: Prof. C.M. Kruttschnitt. June Graduate.

Marsha Bernadette McDonald, Minneapolis

B.A. magna cum laude '77, University of Minnesota. Major: Political Science. Minor: Related Fields. Major Adviser: Prof. M.W. Sampson. June Graduate.

Cara Jo McLachlan, Bloomington

B.A. magna cum laude '83, Bethel College. Major: Public Affairs. Major Adviser: Prof. N.N. Eustis. June Graduate.

Carmen Medeiros

B.A. '83, Universidade Eduardo Mondlane. Major: Social and Philosophical Foundations of Education. Minor: Related Fields. Major Adviser: Prof. S.M. Clark. August Graduate.

Adele Mary Mehta

B.S. '63, University of Minnesota. Major: Education. Minor: Educational Psychology. Major Adviser: Prof. H.G. Copeland. June Graduate.

Derek James Melby

B.S. '84, Iowa State University of Science and Technology. Major: Public Affairs. Major Adviser: Prof. R.T. Kudrle. June Graduate.

Lisa Dickinson Michaux, St. Paul

B.A. summa cum laude '87, University of Minnesota. Major: Art History. Minor: Related Fields. Major Adviser: Prof. G.P. Weisberg. June Graduate.

Mary DesLauriers Mikkelsen, St. Paul

B.S. '83, University of Minnesota. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Prof. E.D. Larkin. June Graduate.

Kevin Noel Miller, Minneapolis

B.A. '81, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. J.S. Adams. June Graduate.

Kevin William Mosher, Burnsville

B.A. '72. B.S. '74, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. C.A. Carrier. April Graduate.

James Anthony Mulder, Renville

B.A. '83, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. August Graduate.

Brenda Jean Murphy, St. Paul

B.A. '81, Keuka College. Major: Art History. Minor: Related Fields. Major Adviser: Prof. M.W. Stoughton. April Graduate.

Susan Lynn Naeve, Coon Rapids

B.S. magna cum laude '86. University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Modifications in Sign Under Condition of Impeded Visibility. Major Adviser: Prof. G.M. Siegel. July Graduate.

Katherine Ann Nagel, Valparaiso, Ind.

B.Mus.Ed. '84. Valparaiso University. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. C.E. Furman. May Graduate.

Barbara Lynn Naramore

B.A. '86. College of William and Mary. Major: Public Affairs. Major Adviser: Prof. D.P. Geesaman. September Graduate.

Teresa Lee Nechville

B.A. '84. University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. R.H. Bruininks. April Graduate.

John Frederic Nelson

B.A. '79. St. Olaf College. Major: German. Minor: Related Fields. Major Adviser: Prof. G.H. Weiss. April Graduate.

Thomas John Newkirk-Ledo, Minneapolis

B.A. '85. University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. R.R. McCarthy. July Graduate.

Athena Kalliopi Nickitas, St. Paul

B.A. '86. University of Minnesota. Major: Physical Education. Minor: Related Fields. Major Adviser: Prof. L.J. Stoner. July Graduate.

Raymond Allen Niekamp, Minneapolis

B.S. '73. Southern Illinois University. Major: Mass Communication. Minor: Related Fields. Thesis: Satellite Newsgathering and Its Effect on Network-Affiliate Relations. Major Adviser: Prof. D.M. Gillmor. August Graduate.

Thomas Michael Nieszner, St. Paul

B.A. '70. College of St. Thomas. Major: Criminal Justice Studies. Minor: Related Fields. Thesis: The Association of Birth Order and Female Juvenile Delinquent Behavior. Major Adviser: Prof. C.M. Kruttschnitt. April Graduate.

Judith Marie Normandin

B.S. with distinction '74. University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. Marie Knowlton. June Graduate.

Lori Joyce Nornes, Climax

B.A. summa cum laude '83. Mankato State University. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. G.L. Shapiro. August Graduate.

Joan Caryl Ostergren

B.A. '81. Carleton College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. R.R. McCarthy. June Graduate.

Rebecca Marie Ostermeyer, Decorah, Iowa

B.A. cum laude '84. Luther College. Major: American Studies. Major Adviser: Prof. E.T. May. July Graduate.

Sian Elizabeth Owen-Cruise, Midland, Mich.

B.S. cum laude '87. Michigan Technological University. Major: Speech-Communication. Minor: Related Fields. Thesis: James K. Polk's Mexican War Rhetoric. Major Adviser: Prof. K.K. Campbell. July Graduate.

Phyllis Ann Owens

B.S. '80. University of Minnesota. Major: Family Social Science. Minor: Related Fields. Major Adviser: Prof. S.L. Zimmerman. July Graduate.

Carl Sidonie Pansaerts, Walshoutem, Belgium

Lic. '86. Katholieke Universiteit. Major: History. Minor: Related Fields. Major Adviser: Prof. R.J. Vecoli. June Graduate.

Allison Patrice Parker, Mobile, Ala.

B.S. '87. Alabama Agricultural and Mechanical University. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Prof. G.M. Williams. September Graduate.

Roak Joaquin Parker

B.A. cum laude '86. San Diego State University. Major: Public Affairs. Major Adviser: Prof. D.E. Abrahamson. June Graduate.

Terri Davenport Parker

B.S. '81. University of Wisconsin. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Prof. L.H. McAvoy. July Graduate.

Jeffrey F.L. Partridge

B.A. '86. University of California. Major: English. Minor: Related Fields. Major Adviser: Prof. R.L. Brown, Jr. August Graduate.

Jean Marie Patrick, Wilton, N.D.

B.S.Ed. '82. Minot State University. Major: Business Education. Minor: Related Fields. Major Adviser: Prof. C.R. Hopkins. July Graduate.

Janet Sue Pauley, Minneapolis

B.S.Ed. '82. Northern Illinois University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. Susan Rose. July Graduate.

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B.A. '84, University of Minnesota. Major: Ancient Studies. Thesis: The Palaeoethnobotany of Big Rice Site St. Louis County, Minnesota: Early Wild Rice (*Zizania aquatica*) in Archaeological Context. Major Advisers: Profs. Stanley Aschenbrenner and R.C. Bright. August Graduate.

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B.S. '87, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Frequency Masking Patterns Produced by AM Tones. Major Adviser: Prof. D.A. Nelson. July Graduate.

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Vance Cameron Holmes

B.F.A. '85, West Virginia University. Major: Theatre Arts.
Minor: Related Fields. Major Adviser: Prof. S.C. Kanee.
June Graduate.

Pamela Gail Kildahl, Minneapolis

B.Pharm. with honors '70, University of Colorado. Major:
Theatre Arts. Minor: Related Fields. Major Adviser: Prof.
J.A. Montgomery. April Graduate.

Joseph Matthew Klimowski, McKeesport, Pa.

B.F.A. '63, Carnegie Institute of Technology. Major:
Theatre Arts. Minor: Related Fields. Major Adviser: Prof.
R.D. Moulton. July Graduate.

Mary Leah Lowe, Sewanee, Tenn.

B.A. '85, Oberlin College. Major: Theatre Arts. Minor:
Related Fields. Major Adviser: Prof. J.A. Montgomery. May
Graduate.

Michelle Ann Martin, Muskegon, Mich.

A.B. cum laude '80, Hope College. Major: Theatre Arts.
Minor: Related Fields. Major Adviser: Prof. H.L. Adey.
June Graduate.

Catherine A. Paciotti

B.F.A. summa cum laude '86, University of Nebraska.
Major: Studio Arts. Minor: Related Fields. Major Adviser:
Prof. H.T. Rowan. July Graduate.

Jose L. Protko, Minneapolis

B.A. cum laude '86, Loyola Marymount University. Major:
Theatre Arts. Minor: Related Fields. Major Adviser: Prof.
Barbara Reid. July Graduate.

Gerald Anthony Rubino

B.Mus.Ed. '74, Temple University. Major: Music. Minor:
Music Education. Major Adviser: Prof. T.S. Lancaster. July
Graduate.

Margie Elizabeth Weaver, Toledo, Ohio

B.F.A. '85, University of Toledo. Major: Theatre Arts.
Minor: Related Fields. Major Adviser: Prof. E.H. Nash.
June Graduate.

Master of Music

Lawrence Chris Bach, Eagan

B.A. '76, West Virginia Wesleyan College. Major: Music.
Major Adviser: Prof. T.S. Lancaster. August Graduate.

Annie Judith Bailey, St. Paul

B.A. '82, Hamline University. Major: Music. Major
Adviser: Prof. Lawrence Weller. June Graduate.

Kathleen Ruth Hunter, West St. Paul

B.A. summa cum laude '74, St. Olaf College. Major:
Music. Major Adviser: Prof. T.S. Lancaster. July Graduate.

Lois Jean Laitinen, Minneapolis

B.S. cum laude '75, University of Minnesota. Major: Music.
Major Adviser: Prof. D.C. Ware. June Graduate.

Paula Ann Lammers, Fridley

B.A. '87, Gustavus Adolphus College. Major: Music. Major
Adviser: Prof. Lawrence Weller. September Graduate.

Laure Ann Meloy, Jenison, Mich.

B.M. cum laude '81, Central Michigan University. Major:
Music. Major Adviser: Prof. Lawrence Weller. June
Graduate.

Sr. Carolyn Rock

B.M.Ed. magna cum laude '67, Viterbo College; M.A. '73,
Ohio State University. Major: Music. Major Adviser: Prof.
T.S. Lancaster. September Graduate.

Sandra Rita Wagner, Edina

B.A. '65, B.S. '68, University of Minnesota. Major: Music.
Major Adviser: Prof. Tanya Remenikova. August Graduate.

Master of Planning

Mark Edward Fox, Waterloo, Iowa

B.A. with honors '84, University of Northern Iowa. Major:
Planning. Major Adviser: Prof. M.E. Dewar. September
Graduate.

Christine Elaine Lowe, Minneapolis

B.A. with high honor '86, Michigan State University. Major:
Planning. Major Adviser: Prof. J.W. Vaupel. July Graduate.

Aaron Rubenstein, Minneapolis
B.A. '81, Northwestern University. Major: Planning. Major Adviser: Prof. R.C. Einsweiler. April Graduate.

Laures Gene Young, Shoreview
B.S. with high distinction '76, University of Minnesota. Major: Planning. Major Adviser: Prof. R.C. Einsweiler. April Graduate.

Master of Science

Harold Lloyd Abernathy, Dover
B.S. '82, University of Minnesota. Major: Agronomy. Minor: Related Fields. Major Adviser: Prof. R.K. Crookston. July Graduate.

Louis Ebubechukwu Achusim, Nnewi, Anambra State, Nigeria
B.S. '83, Texas Southern University; D.Pharm '87, University of Minnesota. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. P.W. Abramowitz. July Graduate.

Pratibha Agarwal, Morris
B.S. '87, University of Minnesota. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. B.E. Scott. July Graduate.

Djoko Utomo Agungrahardjo, Indonesia
B.A. summa cum laude '85, Ohio Wesleyan University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. August Graduate.

Karen Ann Allard, Woodbury
B.A. cum laude '75, Augustana College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. R.D. Lindquist. August Graduate.

Beth Wickman Anderson, St. Paul
B.A. summa cum laude '84, College of St. Thomas. Major: Nutrition. Minor: Related Fields. Thesis: Physiological Measurements of Luminal Stirring (the Unstirred Layer) in the Small Intestine of the Rat. Major Adviser: Prof. A.S. Levine. June Graduate.

Bradley Charles Anderson, Clarkfield
B.S. with honors '84, North Dakota State University. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: An Analysis of Bias in Corn Futures Prices. Major Adviser: Prof. S.C. Stevens. September Graduate.

Cheryl Ann Anderson
B.A. '83, College of St. Catherine. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Patricia Crisham. July Graduate.

Cynthia Louise Anderson, Golden Valley
B.A. '87, B.S. '87, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. May Graduate.

David Stan Anderson, Brooklyn Park
B.S. cum laude '78, University of Wisconsin. Major: Food Science. Minor: Related Fields. Major Advisers: Profs. G.A. Reineccius and T.P. Labuza. July Graduate.

Debra Marie Anderson
B.S.N. '77, University of Wisconsin. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. April Graduate.

Jon Robert Anderson, Coon Rapids
B.Math. '87, B.C.S. '87, University of Minnesota. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. M.A. Jodeit. July Graduate.

Dora E. Angelaki, Greece
Dipl. '85, National Technical University of Athens. Major: Biomedical Engineering. Minor: Electrical Engineering. Thesis: Polarization Vector of Otolith Affereents. Major Adviser: Prof. R.E. Poppele. April Graduate.

Sharon Ann Autio
A.B. '80, University of Illinois. Major: Nursing. Minor: Related Fields. Thesis: A Pilot Study to Determine the Relationship Between Patient Variables and Mental Health Nursing Resource Utilization. Major Adviser: Prof. S.R. Edwardson. April Graduate.

Jessica Margolin Bailey, Los Angeles, Calif.
B.A. '85, University of California. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Scanning Tunneling Microscopy of Metal Particles on Graphite. Major Adviser: Prof. L.D. Schmidt. June Graduate.

Bradley Arthur Bart, Minneapolis
B.S. '84, St. Lawrence University. Major: Physiology. Minor: Biochemistry. Thesis: Maximal Work Capacity Elicited by Treadmill and Ski Ergometry in Well-Conditioned Male and Female Cross-Country Skiers. Major Adviser: Prof. A.S. Leon. July Graduate.

William Michael Bartodziej
B.S. '86, University of Minnesota. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. J.A. Perry. August Graduate.

Kathryn Elaine Bauer, Holmen, Wis.
B.S.N. '74, Viterbo College. Major: Nursing. Minor: Related Fields. Thesis: Effect of Wives' Relaxation Training on the Symptoms of State Anxiety and Perceived Breathlessness in the Husband with Chronic Obstructive Lung Disease (COPD). Major Adviser: Prof. Mariah Snyder. June Graduate.

Wasiu Kayode Bawa-Allah, Lagos, Nigeria
B.S. summa cum laude '84, Alabama Agricultural and Mechanical University. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. G.D. Pederson. July Graduate.

JoAnn Lois Bell

B.S. '82, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Patricia Crisham. June Graduate.

Arllys Dariel Benjamin, Glencoe

B.S. with distinction '51, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Jean Kintgen-Andrews. June Graduate.

Pamela Jean Berg, Sioux Falls, S.D.

B.S.N. '82, University of Wisconsin. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. P.S. Tomlinson. June Graduate.

Matthew Anthony Bergan, Hibbing

B.Ch.E. '85, University of Minnesota. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Prof. P.L. Blackshear. April Graduate.

Abhoyjit Singh Bhowan, Birmingham, Ala.

B.Ch.E. with honors '82, Auburn University; M.S. '83, University of California. Major: Mathematics. Minor: Computer and Information Sciences. Major Adviser: Prof. W.S. Loud. August Graduate.

Cynthia Anne Blaha

B.S. Astrophys. with high distinction '80. B.Phys. with high distinction '80, University of Minnesota. Major: Astronomy. Minor: Physics. Thesis: Luminous Blue Variables in M31 and M33. Major Adviser: Prof. R.M. Humphreys. September Graduate.

Eugenio Sebastian Bobenrieth

Lic. '86, Universidad de Concepcion. Major: Agricultural and Applied Economics. Minor: Economics. Major Adviser: Prof. J.W. Hammond. June Graduate.

Ann Marie Bowman, Brandon, Manitoba, Canada

B.S. '74, University of Illinois; B.S. summa cum laude '85, Mars Hill College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Mariah Snyder. August Graduate.

Mary Rowan Boyer, St. Paul

B.A. '78, College of St. Catherine. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. June Graduate.

Donna Jeanne Brauer, Coon Rapids

B.A. '68, University of Wyoming. Major: Nursing. Minor: Related Fields. Thesis: Affective Dispositions and Symptomatology Among Women with Rheumatoid Arthritis. Major Adviser: Prof. R.D. Lindquist. July Graduate.

Stephanie Ellen Brod, St. Paul

B.S. with distinction '87, University of Wisconsin. Major: Mathematics. Minor: Statistics. Major Adviser: Prof. J.F. Conn. July Graduate.

Bonnie Lee Brueshoff, Apple Valley

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

Bruna Bucciarelli, New Lenox, Ill.

B.A. '76, St. Mary's College. Major: Botany. Minor: Related Fields. Thesis: The Influence of Azospirillum sp. on the Exudation of Organic Acids, Amino Acids, and Simple Sugars by the Roots of Typhalatifolia. Major Adviser: Prof. D.D. Biesboer. June Graduate.

Tam Thien Bui

B.M.E. '82, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.A. Larson. April Graduate.

James Marlowe Bullis, St. Paul

B.C.S. with high distinction '87, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Models and Algorithms for Computing Realistic Images Containing Diffuse Reflections. Major Adviser: Prof. D.H. Singley. August Graduate.

Barbara Joan Bungert, Bloomington

B.S.N. with distinction '78, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. E.C. Egan. September Graduate.

Sherman LeRoy Burson III

B.A. '83, College of the Atlantic. Major: Ecology. Minor: Related Fields. Thesis: Population Genetics and Gene Flow of the Common Tern, *Sterna hirundo*. Major Adviser: Prof. K.W. Corbin. June Graduate.

Joan Kay Callahan, La Crescent

B.S.N. cum laude '85, Viterbo College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. April Graduate.

Corey Dean Carlson, Clarissa

B.A. with high distinction '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. D.H. Du. April Graduate.

Maria Benedita Cecilio, Lisboa, Portugal

Lic. '78, Universidade Tecnica de Lisboa. Major: Agricultural and Applied Economics. Minor: Statistics. Major Adviser: Prof. J.W. Hammond. April Graduate.

Nina Anne Chagnon, Montreal, Canada

B.Sc. with distinction '86, McGill University. Major: Microbial Engineering. Minor: Related Fields. Major Adviser: Prof. Palmer Rogers. September Graduate.

Joon-Hwan Cheong

B.Econ. '87, Korea University. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. K.M. Chaloner. June Graduate.

William Christ

B.S. summa cum laude '86, Mankato State University. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. B.E. Fristedt. June Graduate.

Susan Lynn Christian, Minneapolis

B.A. with highest honors '75, Bethel College. Major: Laboratory Medicine. Minor: Related Fields. Thesis: Enzymatic Analysis of the G₀/G₁ Transition Phase in Phytohemagglutinin (PHA)-Stimulated Peripheral Blood Mononuclear Cells. Major Adviser: Prof. W.G. Yasmineh. September Graduate.

Benjamin Grosvenor Cooper, Minneapolis

B.S. with honors '67, California Institute of Technology; Ph.D. '71, Yale University. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Ambitious Data Flow Analysis for Procedural Programs. Major Adviser: Prof. K.S. Frankowski. July Graduate.

Patricia Quinn Dalton, Minneapolis

B.S. '81, University of Minnesota. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: Fiscal Effects of Changing Revenue Sources in a Resource-Based Region. Major Adviser: Prof. W.R. Maki. July Graduate.

James Anthony D'Ambrosia

B.A. with honors '87, Grinnell College. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. E.G. Fuhrken. September Graduate.

Khaled Day

D.Ing. '86, University of Tunis. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. A.R. Tripathi. August Graduate.

David DeLong, St. Paul

B.S. '74, D.V.M. with distinction '78, Cornell University. Major: Laboratory Medicine. Minor: Related Fields. Thesis: Pasteurellosis in Laboratory Rabbits: Characterization of Lipopolysaccharides from *Pasteurella multocida* and Studies of Factors Governing Bacterial Colonization. Major Adviser: Prof. P.J. Manning. June Graduate.

Brent William Delzer, Oconto Falls, Wis.

B.S. '86, University of Wisconsin. Major: Plant Breeding. Minor: Related Fields. Thesis: Plant Regeneration from Tissue Cultures and Agrobacterium-Mediated Transformation of Minnesota Adapted Soybean Germplasm. Major Advisers: Profs. J.H. Orf and D.A. Somers. May Graduate.

Michael Scott Dennis, Carrollton, Ga.

B.A. '77, Eckerd College; M.S. '79, Clemson University. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. W.E. Pruitt. July Graduate.

Mark Edward Doherty, Superior, Wis.

B.S. cum laude '87, University of Wisconsin. Major: Physics. Minor: Related Fields. Major Adviser: Prof. R.O. Pepin. July Graduate.

Michael Shawn Dolan, Lincoln, Neb.

B.S. '85, University of Nebraska. Major: Soil Science. Minor: Related Fields. Thesis: The Role of Phosphorus and Potassium Uptake in Negative Plant Responses to Soil Compaction. Major Adviser: Prof. R.H. Dowdy. June Graduate.

Karen Diane Donaldson, Pocatello, Idaho

B.S. with high honors '85, Idaho State University. Major: Microbiology. Minor: Related Fields. Thesis: Genetic Studies of the Regulation of Methanol Dehydrogenase Synthesis in *Methylobacterium organophilum* XX. Major Adviser: Prof. R.S. Hanson. June Graduate.

Nancy Ellen Donnelly Lenn, Twin Falls, Idaho

B.S. '84, Northwest Nazarene College. Major: Chemistry. Minor: Related Fields. Thesis: Mechanistic and Electron Transfer Properties of General Acyl- and Butyryl- CoA Dehydrogenase. Major Adviser: Prof. H.W. Liu. July Graduate.

Cynthia Donovan

B.A. '77, Swarthmore College. Major: Agricultural and Applied Economics. Minor: Statistics. Major Adviser: Prof. G.D. Pederson. April Graduate.

Margaret Mary Donovan, Arlington, Mass.

B.A. cum laude '87, University of New Hampshire. Major: Microbial Engineering. Minor: Related Fields. Thesis: Characterization of Hybridoma Acid Protease. Major Adviser: Prof. M.C. Flickinger. September Graduate.

Diane Lee Dorff, Crystal

B.A. '73, University of Missouri. Major: Technical Communication. Minor: Related Fields. Thesis: Document Cycling Processes of a Manuscript Team. Major Adviser: Prof. A.H. Duin. June Graduate.

Brian Jon Doty, Minneapolis

B.A.E.M. '87, University of Minnesota. Major: Fluid Mechanics. Minor: Related Fields. Thesis: Experimental and Numerical Simulation of Aeolian Particle Deposition in a Cavity. Major Adviser: Prof. Cesar Farrell. August Graduate.

Michael John Duffy, Sumner, Iowa

B.S. with distinction '87, Iowa State University of Science and Technology. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. G.D. Pederson. August Graduate.

Anne Marie Duxbury, St. Paul

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

Brian John Edwards, Minneapolis

B.Ch.E. '85, University of Minnesota. Major: Biomedical Engineering. Minor: Related Fields. Thesis: Extracorporeal Autoperfused Multiple Organ Block Preservation for Transplantation. Major Advisers: Profs. M.P. Kaye and T.H. Kuehn. July Graduate.

Michelle Eileen Effertz, Velva, N.D.

B.S. with honor '80, North Dakota State University. Major: Nutrition. Minor: Related Fields. Thesis: The Effect of Dietary Fiber on Body Weight, Serum Lipids, and Fecal Parameters in Moderately Obese and Obese Adults. Major Adviser: Prof. J.L. Slavin. June Graduate.

Clyde M. Eklund, Isle

B.S. '82, Bemidji State University. Major: Mathematics. Minor: Computer and Information Sciences. Major Adviser: Prof. J.R. Baxter. August Graduate.

Heidi Ann Emanuel, Blaine

B.S. magna cum laude '82, University of Wisconsin. Major: Food Science. Minor: Nutrition. Thesis: Cholesterol Oxidation Products in Lipoproteins. Major Advisers: Profs. P.B. Addis and C.A. Hassel. August Graduate.

Jonathan Allen Entner

B.A. '84, Gustavus Adolphus College. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. M.A. Jodeit. June 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. April Graduate.

Felix Adib Fares, France

B.S.Ag. '86, South Dakota State University. Major: Horticulture. Minor: Related Fields. Thesis: Effects of Temperature, Photoperiod, Light Quality, and Plant Growth Substances on in vitro Potato Tuber Size. Major Adviser: Prof. F.I. Lauer. June Graduate.

Brian C.A. Fernandes, Goa, India

B.S. '86, Lamar University. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Prof. P.L. Blackshear. September Graduate.

Jody Lynn Fetzer, Thiensville, Wis.

B.S. '77, University of Minnesota. Major: Plant Pathology. Minor: Related Fields. Thesis: Time of Inoculation and Temperature Effects on Leaf Movement and Symptom Development in Soybean Inoculated with Tobacco Streak Virus. Major Adviser: Prof. B.W. Kennedy. May Graduate.

Joyce Eileen Fjelland, Clark, S.D.

B.S.N. cum laude '66, Augustana College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. V.C. Gordon. August Graduate.

Salvatore Silvestri Franco, Minneapolis

B.S. magna cum laude '70, City College of New York. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. M.B. Pour-El. May Graduate.

Susan Denise Frauenkron, Houston

B.S. cum laude '76, Winona State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. May Graduate.

Germaine Marie Freese, Breckenridge

B.S. cum laude '82, University of North Dakota. Major: Nursing. Minor: Related Fields. Thesis: Nurse Manager's Beliefs about the Impaired Nurse: A Systems Perspective. Major Adviser: Prof. E.J. Sullivan. July Graduate.

Mindy Sharon Geisser

B.S. '80, University of Minnesota. Major: Biometry and Health Information Systems. Minor: Related Fields. Major Adviser: Prof. J.R. Boen. September Graduate.

Kristine Ellen Gilyard, Clear Lake

B.S.N. '80, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. M.R. Gustafson. July Graduate.

Roger Theodore Goerke

B.S. cum laude '87, Kansas State University. Major: Physics. Minor: Related Fields. Thesis: An Analysis of Ionospheric Whistler-Mode Radiation Caused by Electron Beam Injection from the NVB-06 Rocket. Major Adviser: Prof. P.J. Kellogg. June Graduate.

Renae Carol Goldman, Grand Meadow

B.A. summa cum laude '80, Hamline University. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. C.E. McJilton. April Graduate.

Joretta Marlene Graves

B.S. '62, University of Minnesota. Major: Physical Therapy. Minor: Related Fields. Major Adviser: Prof. L.R. Amundsen. May Graduate.

Joseph Patrick Grill, Rochester

B.A. '82, University of Minnesota. Major: Biostatistics. Minor: Related Fields. Major Adviser: Prof. C.T. Le. June Graduate.

Haile Kebede Haile, Addis Ababa, Ethiopia

B.Phys. with high distinction '84, M.S. '88, University of Minnesota. Major: Physics. Minor: Mathematics. Major Adviser: Prof. B.F. Bayman. April Graduate.

Babak Hamidzadeh, Tehran, Iran

B.C.S. with distinction '87, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Maria Gini. August Graduate.

Kyungsook Han, Incheon, Korea

B.S. '83, Seoul National University; M.S. '85, Korea Advanced Institute of Science and Technology. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.R. Slagle. April Graduate.

Lorie Jane Hanson, Minneapolis

B.S.N. '79, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Mariah Snyder. May Graduate.

Marian Renee Hanson, Mounds View

B.M.S.E. '87, University of Minnesota. Major: Technical Communication. Minor: Related Fields. Major Adviser: Prof. V.M. Mikelonis. July Graduate.

Michelle Jennee Henry, Minneapolis

B.I.S. '81, University of Minnesota; B.S. summa cum laude '85, Thomas Jefferson University. Major: Clinical Laboratory Science. Minor: Pathobiology. Thesis: Application of Immunocytochemical Techniques and Assessment of Tumor Cell Kinetics Utilizing Smears and Sections from Benign and Malignant Neoplasms. Major Adviser: Prof. M.W. Stanley. May Graduate.

Kamhing Ho, Hong Kong

B.A. '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Industrial Engineering. Major Adviser: Prof. Jaideep Srivastava. August Graduate.

Eun-Kyung Hong, Seoul, Korea

B.Sc. with high honors '85, University of Saskatchewan. Major: Pharmacology. Minor: Biochemistry. Thesis: Mechanisms Involved in Cholecystokinin Octapeptide (CCK-8)-Induced Analgesia. Major Adviser: Prof. A.E. Takemori. September Graduate.

Charles Warren Hoskins, Orono, Me.

B.A. magna cum laude '85, Carleton College. Major: Geology. Minor: Related Fields. Thesis: High Temperature Compressibility Studies of Alpha Quartz Using in situ Energy-Dispersive X-Ray Diffraction in a Heated Diamond-Anvil Pressure Cell. Major Adviser: Prof. J.H. Stout. September Graduate.

Ruoqing Huang

B.M. '82, Fujian Medical College. Major: Clinical Laboratory Science. Minor: Pathobiology. Thesis: Analysis of Immunoglobulin and T Cell Receptor Delta Gene Rearrangements and Cytokine Proliferative Responses of a Human Leukemic Cell Line. Major Adviser: Prof. T.W. LeBien. September Graduate.

Kent E. Hubbard, Durand, Wis.

B.S. '87, University of Wisconsin. Major: Chemistry. Minor: Related Fields. Thesis: Thiophene Oligomers. Major Adviser: Prof. L.L. Miller. August Graduate

Jody Sue Ismir, Bismarck, N.D.

B.S.P.T. '85, University of North Dakota. Major: Physical Therapy. Minor: Related Fields. Major Adviser: Prof. R.P. Patterson. May Graduate.

Jane Gardner Iverson, Golden Valley

B.S.Geophys. '83, University of Minnesota. Major: Geophysics. Minor: Related Fields. Thesis: Separation of Upgoing and Downgoing Wave Fields Recorded in a VSP Survey. Major Adviser: Prof. ER. Schult. August Graduate.

Patricia Dora Javkin

M.D. '83, Universidad Nacional de la Plata. Major: Animal Physiology. Minor: Related Fields. Major Advisers: Profs. A.G. Hunter and H.C. Hensleigh. September Graduate.

Sandra Joyce Johnson

B.A. '78, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. D.K. Kjerвик. August Graduate.

Richard Ray Kauffman, Minneapolis

B.A. magna cum laude '86, Seattle Pacific University. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. J.B. Stevens. June Graduate.

Jon Robin Kemp, Deerwood

B.A. '86, University of Minnesota. Major: Pharmacology. Minor: Related Fields. Thesis: Structure-Activity Relationships for Substrates and Organophosphate Inhibitors of Hen, Rat, and Rainbow Trout Brain Cholinesterase. Major Adviser: Prof. K.B. Wallace. June Graduate.

Jin-Kyoo Kim, Korea

B.S. '82, Seoul National University. Major: Microbiology. Minor: Related Fields. Thesis: Site Specific Biotinylation of Monoclonal Antibody A6H and Potential Utilization as an in vivo Agent for Diagnosis of Renal Cell Carcinoma. Major Adviser: Prof. R.L. Vessella. July Graduate.

WonJoo Kim, Seoul, Korea

B.S. with distinction '86, Iowa State University of Science and Technology. Major: Computer and Information Sciences. Minor: Statistics. Major Adviser: Prof. W.T. Tsai. July Graduate.

Gary Paul Kivi, Brooklyn Center

B.M.E. '84, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. July Graduate.

Karl Morgan Kjer, St. Paul

B.A. magna cum laude '82, Concordia College. Major: Entomology. Minor: Related Fields. Thesis: Diagnosis of Tracheal Mite (Acarapis woodi, R.) Parasitism of Honey Bees Using a Monoclonal Antibody-Based Enzyme-Linked Immunosorbent Assay. Major Adviser: Prof. D.W. Ragsdale. May Graduate.

Astrid Annelor Koalska, Stewartville

B.S. '83, Winona State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. V.C. Gordon. May Graduate.

Mary Ellen Koenen

A.B. with high distinction '76, University of Michigan. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. April Graduate.

Judith Lynn Kohl, St. Paul

B.A. '84, Gustavus Adolphus College. Major: Food Science. Minor: Nutrition. Major Advisers: Profs. D.E. Smith and D.A. Savaiano. June Graduate.

Patrice Jean Lahouze, Minnetonka

Lic. '69, Maitrice '71, Université de Paris Centre d'Orsay. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Efficient Ray Tracing of Bezier Patches Using Resultants. Major Adviser: Prof. W.D. Munro. June Graduate.

Laurie Lee Philson Lambert, Winnipeg, Manitoba, Canada

B.H.Ecol. '86, University of Manitoba. Major: Food Science. Minor: Nutrition. Thesis: Cell Structure Development in Model Cake Systems Heated by Microwave and Convection Methods Employing Different Leavening Systems. Major Adviser: Prof. Joan Gordon. September Graduate.

Mary Elaine Landgrebe, Woodbury

B.A. '85, Iowa State University. Major: Chemistry. Minor: Related Fields. Thesis: Studies on the Biosynthesis of the Tropane Alkaloids. Major Adviser: Prof. Edward Lecte. August Graduate.

Amy Susan Lange, Minneapolis

B.A. '80, Oberlin College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. May Graduate.

Maria Del Carmen Lares-Ortiz, Mexico

Cir.Dent. '86, Universidad Antonoma de Puebla. Major: Dentistry. Minor: Related Fields. Thesis: Scaling Ability of the Thermafil Obturation Technique. Major Adviser: Prof. M.E. ElDeeb. September Graduate.

Cheryl B. Larson, Alexandria

B.S.N. '84, Moorhead State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. R.D. Lindquist. June Graduate.

Jaebum Lee, Seoul, Korea

B.S. '87, Seoul National University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. O.H. Ibarra. May Graduate.

Yeongleeh Lee, Taipei, Republic of China

B.S. '83, National Taiwan College of Marine Science and Technology. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. D.H. Du. July Graduate.

Jeffrey David Leppink, Minneapolis

B.A. '79, University of Minnesota. Major: Plant Breeding. Minor: Related Fields. Thesis: Inheritance and Agronomic Value of the Dense Spike Trait in Barley. Major Adviser: Prof. D.C. Rasmuson. July Graduate.

Pok Man Perry Leung

B.C.S. with distinction '87, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. April Graduate.

Eric Vernon Level, River Falls, Wis.

B.A. '76, Pomona College. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Patrick Powell. May Graduate.

Jianbo Li, Shihezi, Xinjiang, China

B.Ag. '82, Shihezi Agricultural College. Major: Entomology. Minor: Statistics. Thesis: Geographic Variation in Egg Development of European Corn Borer, *Ostrinia nubilalis* (Hubner). Major Adviser: Prof. D.A. Andow. April Graduate.

Ming Ding Li

B.S. '82, Shanxi Agricultural University; M.S. '85, Beijing Agricultural University. Major: Genetics. Minor: Related Fields. Major Adviser: Prof. F.D. Enfield. September Graduate.

Xiuhua Li, China

B.S. '82, Jilin Agricultural University. Major: Animal Science. Minor: Related Fields. Thesis: Effect of Bacterial Inoculants, Ammonium Hydroxide, and Calcium Carbonate on Fermentation of Corn Silage Containing Different Levels of Added Nitrate Nitrogen. Major Adviser: Prof. D.E. Otterby. June Graduate.

Amy Jo Loiselle

B.S. magna cum laude '77, Bradley University. Major: Hydrogeology. Minor: Related Fields. Thesis: Chemistry of Interstitial Waters in the Lost River Peatland, Northern Minnesota. Major Adviser: Prof. H.E. Wright. June Graduate.

Gail Louise Lowry, Lakeville

B.S. summa cum laude '81, Winona State University. Major: Geology. Minor: Related Fields. Thesis: A Three-Dimensional, Finite-Difference Ground Water Flow Model of the Middle Drift and Platteville Aquifers in the St. Louis Park Area. Major Adviser: Prof. H.O. Pfankuch. September Graduate.

Chunsheng Luo, Beijing, China

B.S. '83, Beijing Normal University. Major: Botany. Minor: Related Fields. Thesis: The Effect of Cutting and Nutrient Availability on the Growth of *Typha* spp. Major Adviser: Prof. D.C. Pratt. August Graduate.

Yu Ma, Sichuan, China

B.Agron. '84, Southwest Agricultural University. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. J.P. Heuck. June Graduate.

Michael Timothy Mackey, Newport News, Va.

D.D.S. '73, University of Minnesota. Major: Dentistry. Minor: Related Fields. Thesis: A Cross-Sectional Investigation of the Relationship Between Removable Partial Denture Wear and the Prevalence of Root Surface Caries in Elderly Women. Major Adviser: Prof. A.J. DiAngelis. September Graduate.

Rita Marie Mahowald, New Prague

B.A. '75, College of St. Catherine. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. A.M. Sime. April Graduate.

Margaret Nyariana Maiko, Nairobi, Kenya

B.A. '84, College of St. Catherine. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. S.M. Venkatesan. August Graduate.

Lakshmi Rathnam Mallipudi

B.S. '85, University of Minnesota. Major: Botany. Minor: Plant Physiology. Thesis: Isolation and Characterization of a Cyanobacterin-Resistant Mutant of *Anacystis nidulans* R2. Major Adviser: Prof. F.K. Gleason. May Graduate.

Ruth Ann Baumetz Mariano

B.S.N. '84, The Philippine Women's University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. R.D. Lindquist. July Graduate.

Russell Daniel Mathison, Big Lake

B.S. '74, Moorhead State College. Major: Agronomy. Minor: Related Fields. Thesis: Effect of Early Spring Clipping and Herbicide Treatments on Maturity, Quality, Yield, and Persistence of Perennial Forage Legumes. Major Adviser: Prof. C.C. Sheaffer. May Graduate.

Ruth G. McCutcheon

B.A. '72, Gustavus Adolphus College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. V.C. Gordon. May Graduate.

David F. McInerney, Two Harbors

B.S. '79, University of Idaho. Major: Forestry. Minor: Plant Pathology. Major Adviser: Prof. E.L. Schmidt. August Graduate.

Catherine Pierce McKegney, Minneapolis

B.A. magna cum laude '77, Brown University; M.D. '81, University of Vermont. Major: Family Practice and Community Health. Minor: Related Fields. Major Adviser: Prof. J.T. Kelly. April Graduate.

Lynn Ann McLandsborough, Burnsville
B.A. '86, Miami University. Major: Food Science. Minor: Related Fields. Thesis: Influence of Conditions of Growth of *Staphylococcus aureus* and Immunoassay on Detection of Enterotoxins. Major Adviser: Prof. S.R. Tatini. September Graduate.

Janan Lee Mehlhaff, New Hope
B.S.N. with highest distinction '79, University of Iowa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. E.C. Egan. June Graduate.

Mohammad Mentek, Semporna, Sabah, Malaysia
B.Math. '87, University of Minnesota. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. F.K. Larnitz. August Graduate.

Catherine Jean Miller, Duluth
B.A. cum laude '83, College of St. Scholastica. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. July Graduate.

David John Miller, Red Lake Falls
B.S. '87, North Dakota State University. Major: Plant Breeding. Minor: Related Fields. Thesis: Evaluation of Early Generation Selection for Disease and Lodging Resistance in Oats. Major Adviser: Prof. D.D. Stuthman. May Graduate.

Margaret Mary Miller
B.S. '79, College of St. Teresa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. April Graduate.

David Iiki Min, Seoul, Korea
B.S.Pharm. '75, Seoul National University; B.S.Pharm. '87, D.Pharm. magna cum laude '87, University of Minnesota. Major: Hospital Pharmacy. Minor: Related Fields. Thesis: Studies on Organ Transplantation Immunosuppression. Major Adviser: Prof. D.M. Canafax. September Graduate.

Kathryn Elizabeth Mitchell, St. Paul
B.S. '76, Iowa State University; B.S.N. '78, University of Akron. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. P.S. Tomlinson. July Graduate.

DeeAnna Lee Moreland, Minneapolis
B.A.N. '86, Metropolitan State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. V.C. Gordon. September Graduate.

Pei-Fan Mu
B.S.N. '81, Taipei Medical College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. August Graduate.

Lori Rae Mueller, Milwaukee, Wis.
B.S. magna cum laude '85, University of Wisconsin. Major: Veterinary Biology. Minor: Related Fields. Thesis: Investigations of the Migrating Motor Complex in Domestic Turkeys. Major Adviser: Prof. G.E. Duke. June Graduate.

Terri Lynn Narow, Mahtomedi
B.S.N. '81, College of St. Teresa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. June Graduate.

Sigrid Nelson
B.A. '87, Grinnell College. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. B.W. Lindgren. June Graduate.

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B.S. '87, Kyung Hee University. Major: Food Science. Minor: Related Fields. Major Adviser: Prof. W.M. Breene. August Graduate.

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B.S. '80, U.S. Military Academy. Major: Mathematics. Minor: Industrial Engineering. Major Adviser: Prof. L.F. Gray. June Graduate.

Chap-Liong Ong, Malaysia
B.S. with honors '83, Universiti Sains Malaysia. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. August Graduate.

William Lee Oostendorp, Grand Rapids, Mich.
B.S. '87, Calvin College. Major: Mathematics. Minor: Statistics. Major Adviser: Prof. B.E. Fristedt. June Graduate.

Mary Kristine Oppegaard, Elk River
B.A. summa cum laude '84, College of St. Scholastica. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. August Graduate.

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B.C.S. with distinction '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Mathematics. Major Adviser: Prof. W.T. Tsai. April Graduate.

James Carroll Paulson, Peterson
B.S. with high distinction '78, University of Minnesota. Major: Animal Science. Minor: Agronomy. Thesis: Effect of Forage Source on Milk Production and Composition. Major Adviser: Prof. D.E. Otterby. June Graduate.

Julianne Mary Paulson, Wells
B.A., B.S. cum laude '77, Winona State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Jean Kintgen-Andrews. August Graduate.

Debra Ann Arendt Pederson, Eagan
B.S. cum laude '78, Mankato State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.A. Corcoran. June Graduate.

Barry George Peterson, Minneapolis
B.S. '75, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. O.H. Ibarra. June Graduate.

Judy Lynne Peterson, Eden Prairie
B.A. '80, Augsburg College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. P.S. Tomlinson. May Graduate.

Michael Edward Peterson

E.S. cum laude '85, University of Massachusetts. Major: Forestry. Minor: Related Fields. Thesis: Natural Regeneration After Logging of Black Ash Stands in Central Minnesota. Major Adviser: Prof. Vilis Kurmis. May Graduate.

Thomas Howard Peterson, Minneapolis

B.A. '85, Northwestern University. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Prof. S.M. Finkelstein. May Graduate.

Bruce Allen Popowitz, Coon Rapids

B.S. '85, University of Minnesota. Major: Forestry. Minor: Related Fields. Thesis: Paper Birch as a Core Material for Aspen Waferboard. Major Adviser: Prof. R.O. Gertjensen. April Graduate.

Mary Lynn Proctor, Louisville, Ky.

B.S. with distinction '79, Eastern Kentucky University; D.V.M. '83, Auburn University. Major: Clinical Laboratory Science. Minor: Pathobiology. Thesis: Evaluation of Streptococcus Pneumoniae Isolates from Animals for IGA1 Protease Production. Major Adviser: Prof. P.J. Manning. June Graduate.

Abdul Qayyum

B.Sc. '80, University of Agriculture, Faisalabad. Major: Agricultural and Applied Economics. Minor: Statistics. Major Adviser: Prof. W.L. Peterson. September Graduate.

Margaret Ann Rader, Gibraltar, Mich.

B.A. '86, Kalamazoo College. Major: Ecology. Minor: Related Fields. Major Adviser: Prof. P.A. Morrow. June Graduate.

Vicki Lee Raffle, St. Paul

B.S. with highest honors '86, California University of Pennsylvania. Major: Forestry. Minor: Related Fields. Thesis: Performance of Ectomycorrhizal Jack and Red Pine Seedlings in Iron Mine Spoils in Northern Minnesota. Major Adviser: Prof. A.A. Alm. April Graduate.

Yennam Madhusudhan Reddy, Richmond, Ky.

M.S. '58, Osmania University; Ph.D. '78, University of Texas. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.D. Munro. April Graduate.

Paul Edward Rider, Cedar Falls, Iowa

B.S. '87, University of Iowa. Major: Physics. Minor: Related Fields. Thesis: Anisotropic Magnetoresistance in Cobalt-Silver Multilayer Thin Films. Major Adviser: Prof. E.D. Dahlberg. September Graduate.

James Joseph Rivard, St. Paul

B.A. '83, Jamestown College. Major: Cell and Developmental Biology. Minor: Related Fields. Thesis: Unstable Histone Octamers in the Chromatin of Drosophila melanogaster Contain an H2A Variant. Major Adviser: Prof. Martin Blumenfeld. July Graduate.

Marilyn Catherine Rochat

B.A. '73, Gustavus Adolphus College. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. S.M. Venkatesan. August Graduate.

George James Romano, Rochester

B.S. '79, University of Michigan. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.V. Carlis. April Graduate.

Susan Liisa Romano, Rochester

B.S. with distinction '79, University of Michigan. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.V. Carlis. April Graduate.

David Bruce Rosen, Englewood, N.J.

B.A. '84, Oberlin College. Major: Physics. Minor: Related Fields. Major Adviser: Prof. E.A. Peterson. August Graduate.

Victoria Lynn Rutkiewicz

B.A. '88, University of Minnesota. Major: Biostatistics. Minor: Related Fields. Major Adviser: Prof. J.D. Neaton. August Graduate.

Mark Patrick Sand, Sioux Falls, S.D.

B.A. summa cum laude '80, Drake University. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. E.B. Fabes. August Graduate.

Bryan Dale Schaap, Hadley

B.A. with high distinction '86, University of Minnesota. Major: Geophysics. Minor: Related Fields. Thesis: The Geology and Crustal Structure of Southwestern Minnesota Using Gravity and Magnetic Data. Major Adviser: Prof. E.R. Schult. June Graduate.

Cindy Ann Scherb, Kiester

B.S. '79, Mount Mercy College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.R. Edwardson. July Graduate.

Julie Ann Schroeder, Roseville

B.A. '80, College of St. Catherine. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. R.D. Lindquist. September Graduate.

James Schweiger, Gilbert

B.S.B. '81, D.D.S. '85, University of Minnesota. Major: Dentistry. Minor: Related Fields. Thesis: The Effect of Temporarily Induced Complete Nasal Airway Blockage on Head, Mandible, and Hyoid Bone Position in the Young Adult. Major Adviser: Prof. R.R. Bevis. July Graduate.

Kirby Joseph Scott, Foley

B.S. '81, St. Cloud State University. Major: Chemistry. Minor: Related Fields. Major Adviser: Prof. D.G. Leopold. June Graduate.

Lynn Marie Seifried, Minneapolis

B.Min.E. '86, University of Minnesota. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Diffusion Bonding of Silicon Carbide and Iron. Major Adviser: Prof. W.W. Gerberich. June Graduate.

Marie Herbert Seiter, Minneapolis

B.A. '60, College of St. Catherine; M.A. '63, University of Chicago. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: A Comparative Study of the Costs of Administration in Public and Private Elementary Schools. Major Adviser: Prof. G.L. Nelson. May Graduate.

Jon David Seltzer, Madison, Wis.

B.S. '84, University of Wisconsin. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. D.A. Berry. September Graduate.

Bonnie Lou Senst, Eagan

B.S. '79, University of Wisconsin. Major: Social and Administrative Pharmacy. Minor: Related Fields. Major Advisers: Profs. A.I. Wertheimer and B.E. Scott. July Graduate.

William Edward Severson, Minneapolis

B.M.E. '84, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Maria Gini. May Graduate.

M. Kathy Shaver, Scottsbluff, Neb.

B.S. '84, University of Nebraska. Major: Genetics. Minor: Related Fields. Thesis: The Physical State of Human Papillomavirus Genomes in Benign and Malignant Epithelial-Derived Tumors. Major Adviser: Prof. V.E. Anderson. July Graduate.

Li Sheng, Hang Zhou, China

B.S. '82, Zhejiang University. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. M.B. Lusk. September Graduate.

Naeho Shin, Kohung, Chun-nam, Korea

B.S. '85, Korea Military Academy. Major: Physics. Minor: Related Fields. Major Adviser: Prof. J.I. Kapusta. September Graduate.

Stephen Kent Shuman, Vadnais Heights

B.A. cum laude '77, University of Pennsylvania: D.D.S. '82, Temple University. Major: Dentistry. Minor: Related Fields. Thesis: The Effect of Patient Age on Productivity in Minnesota Private Dental Practices. Major Adviser: Prof. M.J. Loupe. June Graduate.

Paul Martin Sivanich, Minnetonka

B.S. '84, University of Minnesota. Major: Environmental Health. Minor: Epidemiology. Major Adviser: Prof. J.S. Mandel. April Graduate.

Carey Ann-Maki Skrbec, Eagan

B.S.N. '80, College of St. Benedict. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. L.J. Duckett. August Graduate.

Stephen Mark Smicker

B.S. '78, Pennsylvania State University. Major: Health Informatics. Minor: Related Fields. Major Adviser: Prof. L.C. Gatewood. August Graduate.

Sue Rebecca Spelhaug, Chatfield

B.S. '86, University of Minnesota. Major: Food Science. Minor: Related Fields. Thesis: Bacteriocins from Lactic Acid Bacteria and Their Potential to Inhibit Foodborne Pathogens. Major Adviser: Prof. S.K. Harlander. May Graduate.

Christopher Dyson Sprowl, Amherst, N.Y.

B.S. '85, University of New York. Major: Biochemistry. Minor: Related Fields. Thesis: Terbium Luminescence and Binding in the Calcium-ATPase of Sarcoplasmic Reticulum. Major Adviser: Prof. D.D. Thomas. July Graduate.

Brenda Lee Stepp, Columbia Heights

B.S. '83, University of Minnesota. Major: Food Science. Minor: Related Fields. Thesis: Renneting Properties and Flow Behavior Characteristics of Milk Retentates Produced by Ultrafiltration. Major Adviser: Prof. D.E. Smith. May Graduate.

Richard Andrew Stevens, Rochester

B.S. with high honor '79, Michigan Technological University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Patrick Powell. June Graduate.

Connie Fay Stewart, Bismarck, N.D.

B.S. '79, Mary College. Major: Nursing. Minor: Related Fields. Thesis: Effectiveness of Sensory Information and Relaxation Interventions in the Reduction of Cardiac Catheterization Stress. Major Adviser: Prof. Mariah Snyder. July Graduate.

Joel Stoick Stoeckeler, St. Paul

B.A. '74, M.D. '85, University of Minnesota. Major: Health Informatics. Minor: Related Fields. Major Adviser: Prof. L.B. Ellis. July Graduate.

Diane Reque Storvick, Alexandria

B.A. '85, Luther College. Major: Genetics. Minor: Related Fields. Major Adviser: Prof. Jaroslav Cervenka. May Graduate.

Andrew Ryan Streitz, Minneapolis

B.A. '80, St. Olaf College. Major: Geophysics. Minor: Related Fields. Thesis: The Application of Shallow Reflection Seismic Investigations to the Delineation of Buried Drift Features. Major Adviser: Prof. H.M. Mooney. April Graduate.

Otto Patricio Suarez, Guayaquil, Ecuador

Economista '86, Universidad Catolica de Santiago de Guayaquil. Major: Agricultural and Applied Economics. Minor: Economics. Major Adviser: Prof. J.W. Hammond. August Graduate.

Hsiaowen Sun

B.D.S. '85, National Taiwan University. Major: Dentistry. Minor: Related Fields. Thesis: Cytotoxicity of Formaldehyde and Glutaraldehyde Measured by the Tetrazolium Test. Major Adviser: Prof. H.H. Messer. May Graduate.

Nong Sun, Shanghai, China

B.S. '83, East China Institute of Chemical Technology. Major: Food Science. Minor: Related Fields. Thesis: Effect of Soybean Varieties on Yield and Quality of Tofu. Major Adviser: Prof. W.M. Breene. September Graduate.

Henry Tanadjaja, Indonesia

Major: Physics. Minor: Related Fields. Major Adviser: Prof. T.F. Walsh. June Graduate.

Tridip Lynda Tandanand

B.S. '81, Kasesart University. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. K.M. Chaloner. September Graduate.

Edmund McDonald Tavernier

B.S. '87, Tuskegee University. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. W.R. Maki. June Graduate.

Marcy Blu Taylor, Georgetown, Ohio

A.B. '84, Harvard College. Major: Horticulture. Minor: Plant Breeding. Thesis: Genetic Variation in the Isozymes PGM and PGI of Tuber-Bearing Diploid and Trisomic Solanum for use as Chromosome Markers. Major Adviser: Prof. S.L. Desborough. April Graduate.

Awdew Ageze Teklemariam

B.S. '82, Addis Ababa University; M.S. '85, University of Strathclyde. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.R. Slagle. August Graduate.

Dennis Clarence Theis, Eden Valley

B.S. '68, St. John's University. Major: Dentistry. Minor: Oral Biology. Thesis: Radiographic Noise in Dental Panoramic Radiography. Major Adviser: Prof. H.O. Sedano. May Graduate.

Barton John Thompson, Iowa City, Iowa

B.A. '80, D.D.S. '87, University of Iowa. Major: Dentistry. Minor: Related Fields. Thesis: Informed Consent and Behavior Management Techniques in Pediatric Dentistry. Major Adviser: Prof. R.J. Feigal. September Graduate.

Susan Beth Thompson, Minneapolis

B.S.N. '83, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.S. Rode. August Graduate.

Hao Tian, China

B.S. '84, Chengdu Radio Engineering Institute. Major: Biostatistics. Minor: Statistics. Major Adviser: Prof. J.E. Connett. August Graduate.

Elizabeth Ann Tomczyk, Stillwater

B.S. cum laude '84, Winona State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. P.S. Tomlinson. July Graduate.

Luc Pierre Marie Tourne, Belgium

Lic. '79, Catholic University of Louvain. Major: Dentistry. Minor: Related Fields. Thesis: An Analysis of the Discriminative Power of Cephalometri Variables in Clinical Profile Classification. Major Adviser: Prof. R.R. Bevis. July Graduate.

Su-Fung Tsai, Taiwan

B.S. '84, National Taiwan University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.A. Larson. September Graduate.

Sharon Lynn Umbach, Peace River, Alberta, Canada

B.S. '86, University of Alberta. Major: Food Science. Minor: Related Fields. Thesis: Examination of the Bagel-Making Process with an Emphasis on the Water Behavior and Conventional Versus Microwave Heating Methods. Major Adviser: Prof. E.A. Davis. July Graduate.

William John Vencel, Chesterland, Ohio

B.S. summa cum laude '87, John Carroll University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. T.C. Pong. August Graduate.

Anthony Damianos Viazis, Athens, Greece

D.D.S. '87, National and Capodistrian University of Athens. Major: Dentistry. Minor: Related Fields. Thesis: Enamel Surface Evaluation and Ceramic Bracket Assessment Using an Artificial Oral Environment. Major Adviser: Prof. R.R. Bevis. July Graduate.

Anne Maria Villella, St. Paul

B.S. '86, St. Mary College. Major: Food Science. Minor: Related Fields. Thesis: Applicability of a Rapid Microbial Test and Gas Chromatographic Profile of Fresh Pasteurized Milk to Predict Shelf-Life. Major Adviser: Prof. S.R. Tatini. September Graduate.

Leonard Volovets, Odessa, Soviet Union

B.A. magna cum laude '86, Macalester College. Major: Mathematics. Minor: Statistics. Major Adviser: Prof. M.A. Jodeit. June Graduate.

Deborah Sue Walker, Minneapolis

B.S. '81, Sonoma State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. August Graduate.

Jianlin Wang

Major: Anatomy. Minor: Related Fields. Thesis: Spatial Relationship of Nerve Terminals Containing Opioid Peptides to the Dendritic Tree and Cell Body of Sacral Preganglionic Parasympathetic Neurons. Major Adviser: Prof. R.P. Elde. September Graduate.

Ya-Jane Wang, Taiwan

B.S. Ag. '86, National Taiwan University. Major: Food Science. Minor: Related Fields. Thesis: Lipid Oxidation in Herring (*Coregonus artedii*) from Lake Superior. Major Adviser: Prof. P.B. Addis. August Graduate.

Theresa Jeanne White, Anoka

B.A. '84, University of Minnesota. Major: Microbiology. Minor: Related Fields. Thesis: Monoclonal Antibodies to *Borrelia*. Major Adviser: Prof. R.C. Johnson. September Graduate.

Kurt Alois Wick, Apple Valley

B.Phys. '86, University of Minnesota. Major: Physics. Minor: Electrical Engineering. Thesis: Low Temperature Silicon Sputter Epitaxy. Major Adviser: Prof. W.T. Peria. September Graduate.

Stephanie Kendall Wiley, Minneapolis

B.A. '87, University of California. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.A. Corcoran. June Graduate.

James Melton Wilkinson, Dixon, Ill.

B.S. magna cum laude '84, Bradley University. Major: Chemistry. Minor: Related Fields. Thesis: Velocity Slip in an Ultra Cold Molecular Beam. Major Adviser: Prof. W.R. Gentry. June Graduate.

Jan Marie Willard, Minneapolis

B.S. cum laude '83, University of Minnesota. Major: Biochemistry. Minor: Related Fields. Thesis: Zinc Regulation of an Esterase Secreted by *Streptomyces scabies*. Major Adviser: Prof. J.A. Fuchs. May Graduate.

Peter Robert Wilson

B.D.S. '84, M.D.S. '86, University of Newcastle Upon Tyne. Major: Dentistry. Minor: Related Fields. Thesis: Crown Deformation During Cementation. Major Adviser: Prof. R.J. Goodkind. July Graduate.

Thomas F. Wilton, River Falls, Wis.

B.S. '79, Iowa State University of Science and Technology. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. J.A. Perry. April Graduate.

Thomas Paul Wirtz, Mandan, N.D.

B.S. '86, University of North Dakota. Major: Mathematics. Minor: Computer and Information Sciences. Major Adviser: Prof. G.U. Brauer. June Graduate.

Richard Norman Wolfe, St. Louis Park

B.A. magna cum laude '82, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. A.R. Tripathi. June Graduate.

Sanford Allen Wolgel, Chicago, Ill.

B.A. '78, Evergreen State College. Major: Biochemistry. Minor: Chemistry. Thesis: Purification and Characterization of Protocatechuate 2,3 Dioxygenase from *Bacillus macerans*. Major Adviser: Prof. J.D. Lipscomb. August Graduate.

Chuying Wu, Changsha, Hunan, China

B.Eng. '84, Central South University of Technology. Major: Mineral Engineering. Minor: Related Fields. Thesis: The Application of Plasma Technology to Chromite Smelting. Major Adviser: Prof. K.J. Reid. July Graduate.

Lisheng Wu, Beijing, China

B.Eng. '84, Beijing Metallurgical Institute of Mechanical and Electrical Technology. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Haesun Park. September Graduate.

Haedeuk Yae, Pusan, Korea

B.A. '77, Korea University; M.B.A. '81, Pusan National University. Major: Health Informatics. Minor: Related Fields. Major Adviser: Prof. S.M. Finkelstein. August Graduate.

Kathleen Kinney Zarling, Rochester

B.S. '78, College of St. Teresa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. B.M. Feldman. June Graduate.

*Master of Science***University of Minnesota, Duluth****Brant Douglas Deppa, Cloquet**

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Jeffery Micheal Franke, Duluth

B.S. '87, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Computer Science. Thesis: Symbolical Hopf Bifurcation Calculations for Functional Differential Equations. Major Adviser: Prof. H.W. Stech. June Graduate.

Michael Peter Hanratty, Duluth

B.S. with distinction '84, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Thesis: Hydrodynamic Modeling of the Duluth-Superior Harbor. Major Adviser: Prof. S.A. Trogdon. July Graduate.

Mengtao He, Tianjin, China

B.S. '86, Peking University. Major: Chemistry. Minor: Applied and Computational Mathematics. Thesis: Monte Carlo Calculation of Orientationally Anisotropic Pair Distributions and Energy Transfer in a Model Monolayer. Major Adviser: Prof. P.D. Siders. August Graduate.

Keith Michael Hill, Chisholm

B.A.S. '85, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Prof. D.E. Anderson. May Graduate.

George Julius Hudak III, Duluth

B.A. '84, Carleton College. Major: Geology. Minor: Related Fields. Thesis: Physical Volcanology and Hydrothermal Alteration of the Footwall Rocks to the "F" Zone Massive Sulfide Deposit, Sturgeon Lake, Ontario. Major Adviser: Prof. R.L. Morton. June Graduate.

Qinghua Jiao

B.S. '82, Xiamen University. Major: Chemistry. Minor: Related Fields. Thesis: Electrochemistry of 1,4-Benzoquinone at a Sulfonated Polystyrene Chemically Modified Electrode. Major Adviser: Prof. T.J. Bydalek. August Graduate.

John Gilbert Kennedy, Duluth

B.S. summa cum laude '81, University of Wisconsin. Major: Physics. Minor: Related Fields. Major Adviser: Prof. B.R. Casserberg. September Graduate.

David Dalton Kingsley, Swan River

B.A. magna cum laude '86, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Thesis: Parallel Processing Techniques with Applications to the Numerical Solution of Reaction-Diffusion Partial Differential Equations with Time Delay. Major Adviser: Prof. H.W. Stech. June Graduate.

Chicheng Lin, Kaohsiung, Taiwan

B.S. '85, National Chiao Tung University. Major: Computer Science. Minor: Related Fields. Major Adviser: Prof. D.J. Dunham. May Graduate.

Zheru Liu, Beijing, China

B.Med. '87, Beijing Medical University. Major: Chemistry. Minor: Related Fields. Thesis: Characterization of Hagfish Slime Gland Using cDNA Techniques. Major Adviser: Prof. W.L. Salo. August Graduate.

Hui Liang Low

B.S. magna cum laude '86, University of Minnesota. Major: Computer Science. Minor: Related Fields. Major Adviser: Prof. K.R. Pierce. June Graduate.

Frank Pezzutto, Sault Ste. Marie, Ontario

B.S. '84, Lake Superior State College. Major: Geology. Minor: Related Fields. Thesis: Petrology and Sedimentation of the Archean Quetico Metasediments in the Atikokan-Mine Centre Area, Northwestern Ontario. Major Adviser: Prof. R.W. Ojakangas. April Graduate.

Bridget Lane Rogers, Duluth

B.A. '87, University of Minnesota. Major: Computer Science. Minor: Related Fields. Thesis: Modifying CAP to Provide UNIX File Serving on a LAN of Mixed Macintoshes and DOS PCs. Major Adviser: Prof. M.A. Luker. July Graduate.

Clyde Otto Rogers, Duluth

B.A. magna cum laude '86, University of Minnesota. Major: Computer Science. Minor: Linguistics. Thesis: Enhancements to Ziv-Lempel Data Compression. Major Adviser: Prof. C.D. Thomborson. May Graduate.

Scott DuWayne Skansberg, Bloomington

B.S. cum laude '87, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Prof. R.L. McFarland. July Graduate.

Jerome J. Wilson, Webster, Wis.

B.M. '68, Wisconsin State University; B.S. magna cum laude '87, University of Wisconsin. Major: Physics. Minor: Applied and Computational Mathematics. Thesis: Photorefectance Characterization of GaAs: Temperature and Angle Dependence. Major Adviser: Prof. Michael Sydor. May Graduate.

Steven John Winters, Sauk Centre

B.A. '87, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Thesis: Error-Detecting Codes Using Dihedral Groups. Major Adviser: Prof. J.A. Gallian. July Graduate.

Qingnan Zhang, Chongqing, Sichuan, China

Dipl. '67, Sichuan University. Major: Physics. Minor: Applied and Computational Mathematics. Major Adviser: Prof. Michael Sydor. August Graduate.

*Master of Science in Aerospace Engineering***Henry Ikechukwu Alfred**

B.Eng. '87, University of Nigeria. Major: Aerospace Engineering. Minor: Mechanical Engineering. Major Adviser: Prof. P.H. Leo. August Graduate.

Jeffrey Alan Flachman, Minneapolis

B.S. cum laude '86, Pacific Lutheran College; B.A.E.M. '87, University of Minnesota. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Prof. W.L. Garrard. May Graduate.

Michael Rollin Jackson

B.A.E.M. '87, University of Minnesota. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Prof. D.F. Enns. July Graduate.

Pushendra Singh, New Delhi, India

B.Tech. '85, Indian Institute of Technology Kanpur. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Prof. D.D. Joseph. April Graduate.

Keith Robert Stein, Falcon Heights

B.A. magna cum laude '87, Bethel College. Major: Aerospace Engineering. Minor: Mechanical Engineering. Major Adviser: Prof. Eugene Stolarik. June Graduate.

Master of Science in Agricultural Engineering

Robert James Fick, Winona

B.Ag.E. '81, University of Minnesota. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Airflow Distribution from Corrugated Grain Aeration Ducts. Major Adviser: Prof. R.V. Morcy. April Graduate.

Eugene Joseph Fox, Maplewood

B.Ag.E. with high distinction '86, University of Minnesota. Major: Agricultural Engineering. Minor: Statistics. Thesis: Buffers Used for pH Control in Anaerobic Digestion of Cheese Whey. Major Adviser: Prof. C.J. Clanton. August Graduate.

Ivo Luis Lopez Bakovic, Cochabamba, Bolivia

B.S. magna cum laude '85, Texas A&M University. Major: Agricultural Engineering. Minor: Statistics. Thesis: Modeling Soil Water Spatial Variability. Major Adviser: Prof. J.L. Nieber. September Graduate.

Richard Leo Pursley II, Litchfield

B.E.E. '86, University of Minnesota. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Influence of Soil Discontinuities on Grounding Electrode Resistance. Major Adviser: Prof. H.A. Cloud. May Graduate.

Master of Science in Chemical Engineering

Thomas Lee Ritzdorf, Shelby, Mont.

B.C.E. with highest honors '86, Montana State University. Major: Chemical Engineering. Minor: Electrical Engineering. Thesis: The Preparation and Characterization of rf Reactively Sputtered Nickel Zinc Ferrite Thin Films. Major Advisers: Profs. J.M. Sivertsen and J.H. Judy. June Graduate.

Mark Alfred Smeltzly, Richfield

B.Ch.E. '80, University of Minnesota. Major: Chemical Engineering. Minor: Related Fields. Thesis: Tracer Diffusion in Polymer Solutions: An Investigation of Anomalous Behavior in Viscous Solvents by Forced Rayleigh Scattering. Major Adviser: Prof. T.P. Lodge. June Graduate.

William Creed Stewart, Dayton, Ohio

B.S.Ch.E. summa cum laude '82, University of Akron. Major: Chemical Engineering. Minor: Electrical Engineering. Thesis: Infrared and X-Ray Photoelectron Spectroscopy Studies of the Polyimide/Metal Interface. Major Adviser: Prof. K.F. Jensen. April Graduate.

Kathleen Mary Sundberg, Hudson, Wis.

B.A. '84, Carleton College. Major: Chemical Engineering. Minor: Related Fields. Thesis: Electrochemical and Surface Studies on Glassy Carbon and Amorphous Carbon Films and Their Effectiveness as Protective Coatings. Major Adviser: Prof. W.H. Smyrl. August Graduate.

Master of Science in Civil Engineering

Florinda Bustamante Coggins

B.S.C.E. magna cum laude '81, Tennessee Technological University. Major: Civil Engineering. Minor: Related Fields. Thesis: Material Properties of a Twenty-Year-Old Prestressed Bridge Girder Obtained by Nondestructive Testing. Major Adviser: Prof. C.E. French. July Graduate.

Michael Andrew DeSutter, Windom

B.C.E. '82, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Thesis: Structural Details for Protective Construction. Major Adviser: Prof. Theodor Krauthammer. August Graduate.

Thomas Ray Johnson, Casselton, N.D.

B.S. cum laude '76, University of North Dakota; B.S. '83, North Dakota State University. Major: Civil Engineering. Minor: Related Fields. Thesis: Experimental Study of Density-Induced Plunging Flow into Reservoirs and Coastal Regions. Major Adviser: Prof. H.G. Stefan. September Graduate.

Srinivas Ramrao Kulkarni

B.E. '85, Bangalore University. Major: Civil Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. M.J. Semmens. May Graduate.

Pok Man Perry Leung, Hong Kong

B.C.S. with distinction '87, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Thesis: Automatic Remote Roadway Measurement and Calibration of Video-Based Traffic Detection System. Major Adviser: Prof. Panos Michalopoulos. June Graduate.

Steven Arthur Olson, New Brighton

B.C.E. with distinction '85, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Thesis: Strength and Fatigue Evaluation of 20-Year-Old Aashto Type III Girders. Major Adviser: Prof. R.T. Leon. June Graduate.

Vivek Saxena, Lucknow, India

Major: Civil Engineering. Minor: Related Fields. Thesis: Reduction of Turbulence in a 5" Conduit Using Honeycombs and Screens. Major Adviser: Prof. Cesar Farrell. May Graduate.

Bashar Abdul-Hamid Sinokrot

B.S. '87, University of Jordan. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. H.G. Stefan. August Graduate.

Bo Yuan

B.S. '82, Beijing Polytechnic University. Major: Civil Engineering. Minor: Related Fields. Thesis: An Interactive Simulation Program for Intersection Design and Operational Analysis. Major Adviser: Prof. Panos Michalopoulos. June Graduate.

*Master of Science in Electrical Engineering***Joseph Edmund Batz, Madison, Wis.**

B.S.E.E. with honors '83, University of Wisconsin. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. W.A. Plice. June Graduate.

Paul E. Beelitz

B.A. '83, Mansfield State College. Major: Electrical Engineering. Minor: Mathematics. Major Adviser: Prof. K.M. Buckley. June Graduate.

Evgeny Jake Berzon, Minneapolis

B.S. '86, University of Colorado. Major: Electrical Engineering. Minor: Mathematics. Major Adviser: Prof. K.S.P. Kumar. July Graduate.

Steven Richard Chapman, Minneapolis

B.Phys. '85, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: Magnetic Domain Imaging Using the Magneto-optical Kerr Effect. Major Adviser: Prof. J.H. Judy. July Graduate.

John Deane Coddington, Plymouth

B.S. '84, South Dakota School of Mines and Technology. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. G.E. Sobelman. July Graduate.

David Bruce Curtis, Cresco, Iowa

B.S. '80, Iowa State University of Science and Technology. Major: Electrical Engineering. Minor: Related Fields. Thesis: Analysis of Dynamically Configured Pipelines. Major Adviser: Prof. R. Y. Kain. May Graduate.

David John Diers, Rush City

B.C.S. '85, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. D.W. Ernie. April Graduate.

John Angus Foster

B.A. '73, Swarthmore College. B.E.E. '87, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Major Adviser: Prof. K.M. Buckley. June Graduate.

Runip Kumar Gopisetty, India

B.S. '84, Osmania University. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. J.E. Holte. May Graduate.

Jeffrey Paul Graebel, Maple Grove

B.S.E. summa cum laude '77, University of Michigan. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. G.E. Sobelman. September Graduate.

Steven Anthony Guccione, New Orleans, La.

B.S. cum laude '84, Boston University. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. S.A. Campbell. July Graduate.

Ridha Hamza, Chihia, Tunisia

B.E.E. with distinction '87, University of Minnesota. Major: Electrical Engineering. Minor: Statistics. Thesis: A Comparison of Esprit Algorithms and Solutions for the Related Ambiguity Problem. Major Adviser: Prof. K.M. Buckley. September Graduate.

Mark Edward Holland, Rochester

B.S.E.E. cum laude '78, University of Michigan. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. R. Y. Kain. September Graduate.

Layne Scott Ihrke, Eyota

B.M.E. '84, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Major Adviser: Prof. E. B. Lee. June Graduate.

Mujibunnisa Khan, Dhaka, Bangladesh

B.A. '86, Macalester College. Major: Electrical Engineering. Minor: Physics. Major Adviser: Prof. R.J. Collins. August Graduate.

Sang Rhae Kim

B.E. '72, Yonsei University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. Michael Shur. July Graduate.

Youn Ki Kim, Seoul, Korea

B.S.E.E. '79, University of Maryland. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. J.E. Holte. July Graduate.

Thomas Harvey Lange, Eden Prairie

B.A. cum laude '85, St. Olaf College. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. G.E. Sobelman. July Graduate.

Brett Alan Larson, Minneapolis

B.E.E. with distinction '85, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: SISO Robust Controller Design Via the H^{∞} Method. Major Adviser: Prof. FIN. Bailey. July Graduate.

Mark Gerald Lauby

B.E.E. '80, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: Single Branch Contingency Selection Methods in the Power Industry. Major Adviser: Prof. Ned Mohan. May Graduate.

Seonghearn Lee

B.E. '85, Korea University. Major: Electrical Engineering. Minor: Physics. Major Adviser: Prof. Anand Gopinath. June Graduate.

Nancy Jo Louwagie, Stillwater

B.S. '87, North Dakota State University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. J.E. Holte. June Graduate.

George Jo-Yu Luk, Arden Hills

B.S. '87, Northwestern University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. G.E. Sobelman. June Graduate.

Eric Paul Lundberg

B.E.E. with distinction '86, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Major Adviser: Prof. A.J. Velois. September Graduate.

Joseph August Marks

B.E.E. '87, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. K.M. Buckley. August Graduate.

Robert Montgomery McAfoos, New Brighton

B.S. with honors '79, University of Tennessee. Major: Electrical Engineering. Minor: Related Fields. Thesis: Analysis of Feedback Systems with Elliptically Correlated Real Parameter Variations. Major Adviser: Prof. P.P. Khargonekar. June Graduate.

Gregory Scott Munson, Albert Lea

B.S. '86, North Dakota State University. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. K.K. Parhi. June Graduate.

Tuan Van Ngo, Eden Prairie

B.E.E. '83, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: A High Speed, Precision Monolithic Operational Amplifier. Major Adviser: Prof. Rolf Schaumann. May Graduate.

Chuong Minh Nguyen

B.S. '85, Illinois Institute of Technology. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. J.E. Holte. August Graduate.

Gregg Stephen Panning, Anoka

B.E.E. with high distinction '84, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. W.A. Plice. June Graduate.

Fatih Sinan Peksenar

B.S. '85, Hacettepe University. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: An Improved Microsequencer and Microcontrol Schemes for Structured Firmware Design. Major Adviser: Prof. W.A. Plice. June Graduate.

Vito Anthony Quaglia, Bloomington

B.S. '87, B.S.E.E. '87, University of North Dakota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. P.P. Khargonekar. June Graduate.

Chitra Raghunathan

B.Eng. '83, University of Madras. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. G.E. Sobelman. July Graduate.

Scott John Sherratt, Rochester

B.S. with honors '83, University of California. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. W.A. Plice. August Graduate.

Hyun Young Shin, Minneapolis

B.E.E. '81, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. G.K. Wehner. May Graduate.

Patrick Dean Smith, Rochester

B.S.E.E. '78, University of Iowa. Major: Electrical Engineering. Minor: Industrial Engineering. Major Adviser: Prof. L.L. Kinney. April Graduate.

Wayne Allan Soehren, Watford City, N.D.

B.S. '81, North Dakota State University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. K.S.P. Kumar. July Graduate.

Farry Tjhen, Cirebon, Indonesia

B.E.E. with high distinction '87, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. W.A. Plice. May Graduate.

Ching-Yi Wang, Moscow, Ind.

B.S.E.E. '85, University of Idaho. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. G.E. Sobelman. June Graduate.

Yung Yip

B.A. '82, Macalester College. Major: Electrical Engineering. Minor: Related Fields. Thesis: Effects of Thin Film Barrier Layers on the Secondary Gap in Metal-In-Gap Heads. Major Adviser: Prof. J.H. Judy. September Graduate.

*Master of Science in Industrial Engineering***Michelle Marie Vig**

B.Mats.Sci.E. '87, University of Minnesota. Major: Industrial Engineering. Minor: Statistics. Thesis: Dynamic Estimation of Job Flowtime. Major Advisers: Profs. Kevin Dooley and T.O. Kvalseth. April Graduate.

Master of Science in Mechanical Engineering

Tracy Len Anderson, Minneapolis

B.M.E. '85, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: A Multi-Behavioral Approach to the Control of a Mobile Robot Based upon the Use of Reflexive Behaviors. Major Adviser: Prof. Max Donath. May Graduate.

Himanshu Sekhar Baral, Cuttack, Orissa, India

Major: Mechanical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. D.R. Riley. August Graduate.

Wesley Cole Barris, Chaska

B.M.E. with distinction '83, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Programmer-Friendly Libraries for Use in the Creation of User-Friendly Software. Major Adviser: Prof. D.R. Riley. August Graduate.

Fauzi Ben-Gharbia, Bizerte, Tunisia

B.S. '86, Oklahoma State University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Development of Laminar Mixed Convection Flow in an Inclined Square Duct. Major Adviser: Prof. S.V. Patankar. May Graduate.

Robert Le Roy Dow, Jr., Chevy Chase, Md.

B.S. with honor '86, California Institute of Technology. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Prof. R.J. Goldstein. May Graduate.

Mary Rita Hable, Duluth

B.M.E. with high distinction '87, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Experimental Verification of Stresses in a Center-Wound Roll. Major Adviser: Prof. T.R. Chase. June Graduate.

Po-Chuan Huang

B.S. '84, National Taiwan University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Modeling of a Transferred Arc Plasma Reactor with a Converging Wall. Major Adviser: Prof. Emil Pfender. July Graduate.

Catherine Ann Hudrlik

B.A. cum laude '85, College of St. Thomas. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Acidic Dry Deposition Sampling. Major Adviser: Prof. V.A. Marple. June Graduate.

Robert Oskar Jensen, Jr., El Cajon, Calif.

B.S. '87, University of California. Major: Mechanical Engineering. Minor: Mechanics. Major Adviser: Prof. D.A. Frohrib. July Graduate.

Kiho Kim, Seoul, Korea

B.E. '86, Myong Ji University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Study of Dynamic Behavior of Machine-Tool-Workpiece System in Turning. Major Adviser: Prof. B.E. Klamecki. April Graduate.

Steven Joseph Kirstukas, Minneapolis

B.C.E. cum laude '82, The Catholic University of America. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Design and Calibration of 6R Instrumented Spatial Linkages for Anatomical Joint Motion Measurement. Major Advisers: Profs. A.G. Erdman and J.L. Lewis. July Graduate.

Bennett Leon Louwagie, Cottonwood

B.M.E. with high distinction '85, University of Minnesota. Major: Mechanical Engineering. Minor: Physics. Major Adviser: Prof. D.A. Frohrib. July Graduate.

Zhipeng Lu, Beijing, China

B.S. '86, Tsinghua University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Design and Testing of a New Triple Torch Plasma Reactor. Major Adviser: Prof. Emil Pfender. September Graduate.

Theodore Lee Morris, Minneapolis

B.M.E. '84, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Error Analysis of 6 D.O.F. Motion Tracking Systems. Major Adviser: Prof. Max Donath. September Graduate.

Stephen George Russ, Orono, Me.

B.S. summa cum laude '87, Rensselaer Polytechnic Institute. Major: Mechanical Engineering. Minor: Related Fields. Thesis: The Generation and Measurement of Turbulent Flow Fields. Major Adviser: Prof. T.W. Simon. July Graduate.

David Karl Sachs, Green Bay Wis.

B.S. '85, University of Wisconsin. Major: Mechanical Engineering. Minor: Mathematics. Thesis: A Poincaré Transformation for the Numerical Solution of Ordinary Differential Equations. Major Adviser: Prof. K.A. Stelson. July Graduate.

John Richard Saylor, Monsey, N.Y.

B.S. '86, State University of New York at Buffalo. Major: Mechanical Engineering. Minor: Chemistry. Thesis: An Experimental Study of the Size Effect in Pool Boiling Critical Heat Flux on Square Surfaces. Major Adviser: Prof. T.W. Simon. June Graduate.

Kenji Takahashi, Yonago, Tottori, Japan

B.Eng. '80, M.Eng. '82, Kyushu University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: An Investigation of the Arc Coating Process for the Deposition of Aluminum Layers on Steel. Major Adviser: Prof. Subbiah Ramalingam. June Graduate.

David Shann-Ching Wang, Dallas, Tex.

B.S.M.E. with high honors '87, University of Texas. Major: Mechanical Engineering. Minor: Electrical Engineering. Thesis: Signature Analysis of Nonrepeatable Runout of Disk Drives. Major Adviser: Prof. D.A. Frohrib. June Graduate.

Weixing Yu, Chongqing, China

Major: Mechanical Engineering. Minor: Related Fields. Thesis: Modeling of Atomic and Molecular R.F. Plasmas at Atmospheric Pressure. Major Adviser: Prof. S.L. Girshick. June Graduate.

Huiling Zhu, Shanghai, China

B.S. '82, Fudan University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: RF Plasma Synthesis of $YBa_2Cu_3O_{7-x}$ Powders Using a Solution Injection Technique. Major Adviser: Prof. Emil Pfender. September Graduate.

*Master of Science in Mineral Engineering***Mehmet Karadeniz, Turkey**

B.S. '83, Istanbul Technical University. Major: Mineral Engineering. Minor: Chemistry. Major Adviser: Prof. Iwao Iwasaki. July Graduate.

*Master of Science in Orthopedic Surgery***Pierre Laurent Clothiaux, Auburn, Ala.**

B.S. with honors '78, Auburn University; M.D. cum laude '82, University of Alabama School of Medicine. Major: Orthopedic Surgery. Minor: Related Fields. Thesis: The Effects of Progressive Ischemia upon the Vasoreactivity of the Reperfused Isolated Canine Tibia: An in vitro Analysis. Major Adviser: Prof. M.B. Wood. April Graduate.

*Master of Science in Otolaryngology***Kenneth Kevin Aden**

B.S. cum laude '79, Kearney State College; M.D. '84, University of Nebraska. Major: Otolaryngology. Minor: Related Fields. Thesis: The Evaluation of Pharmacologic Agents on Composite Graft Survivals. Major Adviser: Prof. M.A. Biel. July Graduate.

*Master of Social Work***Sue Ann Maris Allen, Wayzata**

B.S. '59, University of Minnesota. Major: Social Work. Major Adviser: Prof. M.R. Cohn. September Graduate.

Lynn M. Anderson, Minneapolis

B.A. '82, Providence College. Major: Social Work. Major Adviser: Prof. N.M. Abramson. June Graduate.

Tammie Louise Barcomb, Minneapolis

B.A. with high honors '81, Wheaton College. Major: Social Work. Major Adviser: Prof. Annalee Stewart. June Graduate.

Kathleen Sue Behrens-Wheelock, St. Paul

B.S. with distinction '81, University of Minnesota. Major: Social Work. Major Adviser: Prof. R.S. Pandey. April Graduate.

Bradford Bruce Benson, Minneapolis

B.A. '83, University of Minnesota. Major: Social Work. Major Adviser: Prof. R.S. Pandey. June Graduate.

Tracie Ann Benson, St. Paul

B.A. '83, Gustavus Adolphus College. Major: Social Work. Major Adviser: Prof. N.M. Abramson. May Graduate.

Stephen Joseph Benton, Minneapolis

B.A. cum laude '75, St. John's University. Major: Social Work. Major Adviser: Prof. Maura Sullivan. June Graduate.

Colleen M. Besser-Wiek, Minneapolis

B.A. '84, Metropolitan State University. Major: Social Work. Major Adviser: Prof. Maura Sullivan. June Graduate.

Nancy Jo Bird, St. Paul

B.A. '87, University of Minnesota. Major: Social Work. Major Adviser: Prof. N.M. Abramson. June Graduate.

Barbara Stahnke Bowen, Minneapolis

B.A. '67, University of California; B.A. '81, University of Minnesota. Major: Social Work. Major Adviser: Prof. N.F. Bracht. June Graduate.

Patrick Vincent Briese, Rochester

B.S. '79, University of Wisconsin. Major: Social Work.
Major Adviser: Prof. Maura Sullivan. June Graduate.

Sharon Elizabeth Brown

B.F.A. '84, School of Visual Arts. Major: Social Work.
Major Adviser: Prof. J.L. Edleson. June Graduate.

Gerald Joseph Bruhn, St. Paul

B.A. '75, College of St. Thomas. Major: Social Work.
Major Adviser: Prof. G.S. Hoshino. June Graduate.

Barbara Lynn Bubrick, Minneapolis

B.A. '69, University of Wisconsin; M.A. '73, University of
Minnesota. Major: Social Work. Major Adviser: Prof. N.M.
Abramson. June Graduate.

Mary Colleen Cavanagh, St. Paul

B.A. magna cum laude '78, Mundelein College. Major:
Social Work. Major Adviser: Prof. Esther Wattenberg.
September Graduate.

Paula Margaret Childers, Minneapolis

B.A. '87, Metropolitan State University. Major: Social
Work. Major Adviser: Prof. N.M. Abramson. June
Graduate.

Patti Jo Christensen, Minneapolis

B.A. magna cum laude '82, Mankato State University.
Major: Social Work. Major Adviser: Prof. Annalee Stewart.
June Graduate.

Jacqueline Roberts Crockett, Minneapolis

B.A.L.A. with high honors '71, University of Tennessee.
Major: Social Work. Major Adviser: Prof. J.K. Quam. June
Graduate.

Mary Beth Doyle, Minneapolis

B.A. magna cum laude '82, Arizona State University.
Major: Social Work. Major Adviser: Prof. Maura Sullivan.
June Graduate.

Lisa Ellen Eiche, Minneapolis

B.A. '81, Earlham College. Major: Social Work. Major
Adviser: Prof. Annalee Stewart. September Graduate.

Zwi Cornell Eisikovits, Israel

B.A. '71, Hebrew University of Jerusalem. Major: Social
Work. Major Adviser: Prof. J.L. Edleson. August Graduate.

Bonnie Rae Eller, St. Paul

B.A. '83, University of Minnesota. Major: Social Work.
Major Adviser: Prof. J.F. Gilgun. June Graduate.

Maria Teresa Gaspard, Minneapolis

B.S. '86, Bemidji State University. Major: Social Work.
Major Adviser: Prof. N.M. Abramson. June Graduate.

Brian William Giesen, St. Paul

B.A. '82, University of Minnesota. Major: Social Work.
Major Adviser: Prof. J.F. Gilgun. June Graduate.

Brenda A. Hartman, Minneapolis

B.S. cum laude '81, University of Minnesota. Major: Social
Work. Major Adviser: Prof. J.L. Edleson. August Graduate.

Karen Jean Holdgrafer

B.S. '81, University of Minnesota. Major: Social Work.
Major Adviser: Prof. N.F. Bracht. June Graduate.

Ellen Marie Holmgren, Winona

B.S. '81, Winona State University. Major: Social Work.
Major Adviser: Prof. N.F. Bracht. June Graduate.

Ruth Ann Johnson

B.A. magna cum laude '75, Moorhead State College.
Major: Social Work. Major Adviser: Prof. J.L. Edleson.
June Graduate.

Jane Lynette Keple, St. Paul

B.S.S.W. '80, University of North Dakota. Major: Social
Work. Major Adviser: Prof. Maura Sullivan. April
Graduate.

Christine Marie Kwak, Moline, Ill.

B.S. '79, University of Illinois. Major: Social Work. Major
Adviser: Prof. N.M. Abramson. June Graduate.

Richard John Leonard, Brooklyn Center

B.A. '84, Concordia College. Major: Social Work. Major
Adviser: Prof. N.M. Abramson. July Graduate.

Charlene Shirley Levy, Minneapolis

B.A. '60, Newcomb College. Major: Social Work. Major
Adviser: Prof. N.M. Abramson. June Graduate.

Hamda Riaz Malik, Sargodha, Pakistan

M.A. '80, Quaid-i-Azam University. Major: Social Work.
Major Adviser: Prof. B.R. Galavay. June Graduate.

Elizabeth Rose Mandel, St. Louis Park

B.A. '87, University of Minnesota. Major: Social Work.
Major Adviser: Prof. R.A. Kane. June Graduate.

Donna Marie Marget, Minneapolis

B.S. '81, University of Minnesota. Major: Social Work.
Major Adviser: Prof. J.F. Gilgun. August Graduate.

Jeffrey Roy Martin, St. Paul

B.A. '66, Macalester College. Major: Social Work. Major
Adviser: Prof. Helen Yessner. August Graduate.

Megan Harrison Morrissey

B.A. '77, Mundelein College. Major: Social Work. Major
Adviser: Prof. L.E. Jones. June Graduate.

Paula Lee Nelson, Minneapolis

B.A. '78, St. Cloud State University. Major: Social Work.
Major Adviser: Prof. R.H. Rooney. July Graduate.

Phuc Thi Hong Nguyen, Vietnam *repeat*

B.S. with distinction '87, University of Minnesota. Major:
Social Work. Major Adviser: Prof. I.E. Carter. June
Graduate.

Nancy Diane Oxton

B.A. cum laude '78, University of Wisconsin. Major: Social
Work. Major Adviser: Prof. Maura Sullivan. June Graduate.

Cynthia Packer, Minneapolis

B.F.A. '76, University of Wisconsin. Major: Social Work.
Major Adviser: Prof. J.K. Quam. July Graduate.

Elizabeth Ann Reiser, Minnetonka

B.A. '85, University of Minnesota. Major: Social Work. Major Adviser: Prof. Annalee Stewart. July Graduate.

Kathryn McCoy Ringham, Minneapolis

B.A. '69, University of Minnesota. Major: Social Work. Major Adviser: Prof. R.A. Kane. June Graduate.

Michael John Sarafolean, St. Paul

B.A. '80, University of Minnesota. Major: Social Work. Major Adviser: Prof. J.L. Edleson. April Graduate.

Barbara Jean Seivert, St. Paul

B.A. '82, Bethel College. Major: Social Work. Major Adviser: Prof. R.H. Rooney. July Graduate.

Sheryl Ann Sichak, Columbia Heights

B.S. '79, University of Wisconsin. Major: Social Work. Major Adviser: Prof. R.H. Rooney. June Graduate.

Debora Anne Smith, Minneapolis

B.A. cum laude '83, Middlebury College. Major: Social Work. Major Adviser: Prof. G.S. Hoshino. August Graduate.

Sandra Lee Starn, Richfield

B.A. '79, Augustana College. Major: Social Work. Major Adviser: Prof. J.L. Edleson. July Graduate.

Amy Dorian Stubenhaus, Fairfield, Conn.

A.B. '79, Grinnell College. Major: Social Work. Major Adviser: Prof. Esther Wattenberg. June Graduate.

David Michael Tremewan, Maple Grove

B.S. '83, University of Minnesota. Major: Social Work. Major Adviser: Prof. L.E. Jones. June Graduate.

Karen Ann Velline, St. Cloud

B.S. '84, St. Cloud State University. Major: Social Work. Major Adviser: Prof. N.M. Abramson. September Graduate.

Kimberly Lorene Woods, Minneapolis

B.A. '82, Purdue University. Major: Social Work. Major Adviser: Prof. Annalee Stewart. September Graduate.

Sao C. Yang, St. Paul

B.A. '85, University of Minnesota. Major: Social Work. Major Adviser: Prof. J.K. Quam. June Graduate.

*Master of Social Work***University of Minnesota, Duluth****Linda Grace Benson, Blaine**

B.A. '83, Metropolitan State University. Major: Social Work. Major Adviser: Prof. J.A. Campbell. May Graduate.

*Specialist Certificate in Education***Timothy George Boyer, Minneapolis**

B.A. '73, University of Minnesota. Field: General Educational Administration. Major: Educational Administration. Major Adviser: Prof. V.D. Mueller. July Graduate.

Melissa Rae Doerr, Minneapolis

B.A. with highest honor '68, Hamline University; M.A. '69, Middlebury College. Field: Secondary School Administration. Major: Educational Administration. Major Adviser: Prof. N.C. Nickerson. June Graduate.

Sandra Jane Eliason

B.A. '60, Luther College; M.A. '63, University of Minnesota. Field: General Educational Administration. Major: Educational Administration. Major Adviser: Prof. G.F. Alkire. June Graduate.

Joan Marie Hultman, Bloomington

B.S. '70, M.A. '87, University of Minnesota. Field: Elementary School Administration. Major: Educational Administration. Major Adviser: Prof. G.F. Alkire. June Graduate.

Eugene Marshall Janicke, Forest Lake

B.S. with distinction '71, University of Minnesota; M.S.Ed. '79, University of Wisconsin. Field: Secondary School Administration. Major: Educational Administration. Major Adviser: Prof. N.C. Nickerson. August Graduate.

Richard Alvin Milles, Oakdale

B.S. with distinction '74, University of Minnesota. Field: Secondary School Administration. Major: Educational Administration. Major Adviser: Prof. N.C. Nickerson. August Graduate.

Jeanne Carol Montano, Minneapolis

B.S. with distinction '71, University of Minnesota. Field: Elementary School Administration. Major: Educational Administration. Major Adviser: Prof. G.F. Alkire. June Graduate.

Mary Jo Rollins, Forest Lake

B.S. with scholastic honors '67, M.S. '77, St. Cloud State University. Field: Elementary School Administration. Major: Educational Administration. Major Adviser: Prof. V.D. Mueller. August Graduate.

Byron Leith Schwab, West St. Paul

B.A. '70, Gustavus Adolphus College; M.Ed. '81,
University of Minnesota. Field: Elementary School
Administration. Major: Educational Administration. Major
Adviser: Prof. G.F. Alkire. June Graduate.

Joan Ave'Lallemant Teppen, Anoka

B.A. '71, Hamline University. Field: Elementary School
Administration. Major: Educational Administration. Major
Adviser: Prof. V.D. Mueller. May Graduate.

Degrees Pending

The following individuals had not completed all the requirements for their degrees as of September 29, 1989. Upon completion of

degree requirements, graduates will be listed under "Degrees Awarded" in a subsequent Graduate School commencement program.

Doctor of Education

Cletus Jerome Lipetzky, Elk River

B.A. '68, M.A. '71, College of St. Thomas; Spec.Cert. '77, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Project: Minnesota Post-Secondary Options and Parent Participation. Major Adviser: Prof. V.D. Mueller.

Doctor of Musical Arts

Carolyn Sue Finley

B.Mus. '77, M.Mus. '81, North Texas State University. Major: Music. Minor: Supporting Program. Major Adviser: Prof. Laurence Weller.

Doctor of Philosophy

Kassahun Abebe

B.Sc. with distinction '73, Haile Sellassie I University; M.S. '76, Michigan State University. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Factors Affecting the Demand for Farm Inputs in U.S. Agriculture. Major Adviser: Prof. D.C. Dahl.

Rudolph Alexander, Jr., Savannah, Ga.

B.S. '81, Sam Houston State University; M.S.W. '84, University of Houston. Major: Social Work. Minor: Supporting Program. Thesis: Students' Fighting as a Test of Social Learning Theory. Major Adviser: Prof. C.D. Hollister.

Embarek Amane, Morocco

Dipl.Ing. '71, Institut National Agronomique; Licencie en Droit '74, Universite Mohammed V. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: Household Consumption Patterns and Rural Growth Linkages in a Developing Country: The Case of the Commune of Timahdite in Morocco. Major Adviser: Prof. B.H. Senauer.

Susanna Amelar, New York City, N.Y.

B.A. with honors '82, Oberlin College. Major: Chemistry. Minor: Supporting Program. Thesis: Dynamical Properties of Low Molecular Weight Polymer Solutions. Major Adviser: Prof. T.P. Lodge.

Peter Martain Andersen, Minnetonka

B.S. magna cum laude '83, St. John's University. Major: Physics. Minor: Supporting Program. Thesis: Magnetization, Susceptibility, and Magnetostriction at the Nuclear Magnetic Ordering Transition in PrCu₆. Major Adviser: Prof. W.V. Weyhmann.

Nancy Jane Andrews, Omaha, Neb.

B.A. '73, Carleton College; A.M. '75, University of South Dakota. Major: Botany. Minor: Supporting Program. Thesis: Emergent Aquatic Biomass Crops: Studies in Natural and Managed Stands. Major Adviser: Prof. D.C. Pratt.

Mirta Ines Aranguren, Mar del Plata, Argentina

Ing.Quim. '80, Universidad Nacional de Mar del Plata. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Morphology and Rheology of Silica Reinforced Silicone Rubbers. Major Adviser: Prof. C.W. Macosko.

Baffour Asafo-Adjei

B.Sc.Ag. '76, University of Ghana; M.Sc. '82, University of Guelph. Major: Plant Breeding. Minor: Supporting Program. Thesis: Evaluation of Exotic Soybeans for Favorable Agronomic Alleles Absent in Adapted Local Cultivars. Major Adviser: Prof. J.H. Orf.

John Robert Bailey, Northfield

B.A. magna cum laude '79, St. Olaf College; M.S.W. '82, University of Minnesota. Major: Family Social Science. Minor: Supporting Program. Thesis: Analysis of Family Therapy Ethics. Major Adviser: Prof. W.H. Doherty.

Mary Lou Bents, Little Canada

B.A. cum laude '69, Luther College; M.A. '84, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Perspectives of Good Teaching Among Novice, Advanced Beginner, and Expert Teachers. Major Advisers: Profs. W.E. Gardner and F.P. Lawrenz.

Alan Frederick Bergold, Iowa City, Iowa

B.S. '77, Lehigh University. Major: Chemistry. Minor: Supporting Program. Thesis: High Performance Lectin Affinity Chromatography: An Examination of the Thermodynamic and Kinetic Limitations of the Technique and the Development of an Alternative Elution Method. Major Adviser: Prof. P.W. Carr.

Susan Ellen Bernick, Washington, D.C.

A.B. '78, Smith College; M.A. '85, University of Minnesota. Major: Philosophy. Minor: Supporting Program. Thesis: How an Artifact Becomes or Ceases to Be a Work of Art: Artworld Category Changes as a Possible Model for Feminist Politics. Major Adviser: Prof. M.M. Eaton.

Guorui Bian, Shanghai, China

Major: Statistics. Minor: Mathematics. Thesis: Bayesian Statistical Analysis with Independent Bivariate Priors for the Normal Location and Scale Parameters. Major Adviser: Prof. J.M. Dickey.

Wolfgang Horst Bielefeld

B.S. '69, Michigan State University; M.B.A. '77, M.A. '78, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Nonprofit Response to Resource Environment Change. Major Adviser: Prof. Joseph Galaskiewicz.

Chris Michael Boerboom, Marshall

B.S. with high distinction '84, M.S. '87, University of Minnesota. Major: Agronomy. Minor: Plant Breeding. Thesis: Glyphosate Tolerance in Birdfoot Trefoil (*Lotus corniculatus*). Major Adviser: Prof. D.L. Wyse.

Cynthia Bartlett Book, Somerset, Wis.

B.S. magna cum laude '77, Springfield College; M.Ed. '80, Keene State College. Major: Physical Education. Minor: Supporting Program. Thesis: Validation of the Sit-and-Reach Test. Major Adviser: Prof. J.M. Schick.

Jeffrey Johnson Brokaw

A.B. cum laude '74, Harvard College. Major: Ecology. Minor: Supporting Program. Thesis: The Role of Predation and Mutualism in the Ecology of Herbivorous Insects on Bur Oak. Major Adviser: Prof. P.J. Regal.

Stephen James Burns, Providence, R.I.

B.S. '81, Brown University. Major: Chemistry. Minor: Supporting Program. Thesis: I. Single Electron Transfer Induce Ring Opening of Fused-Ring Cyclopropyl Ethers. II. Cleavage and Bis-Functionalization of Cyclic Acetals Using Trimethylsilyl Triflate. Major Adviser: Prof. P.G. Gassman.

Steven Peter Cassou, Tiburon, Calif.

B.A. with high distinction '82, University of California. Major: Economics. Minor: Supporting program. Thesis: Stochastic Dynamic Tax Analysis. Major Adviser: Prof. C.A. Sims.

Nawarat Chaisompongpan, Bangkok, Thailand

B.Sc. '80, Khon Kuen University; M.Sc. '83, Chulalongkorn University; M.S. '88, University of Minnesota. Major: Plant Physiology. Minor: Supporting Program. Thesis: Heat Stress Tolerance in *Phaseolus vulgaris* and *P. acutifolius*: Role of Root Temperature on Cytokinin Levels, Gas Exchange and Growth. Major Advisers: Profs. P.H. Li and A.H. Markhart III.

Shu-Ping Chang, Taipei, Taiwan

B.S. '81, National Chiao Tung University; M.S. '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Multiple Channel Multiple Contention Local Area Networks. Major Adviser: Prof. D.H. Du.

Chien-Chung Chen, Taiwan

B.S. '76, M.S. '78, National Chung-Hsing University. Major: Entomology. Minor: Supporting Program. Thesis: Effects of Potato Leafhopper, *Eriopasca fabae*, and Water Stress on Alfalfa Forage Yield and Quality. Major Adviser: Prof. E.B. Radcliffe.

Hwa-Nien Chen, Shanghai, China

Major: Mathematics. Minor: Supporting Program. Thesis: On the Stability of a Population Growth Model with Sexual Reproduction on Z^d (d greater than or equal to 2). Major Adviser: Prof. L.F. Gray.

Keum-Hwa Choi, Korea

D.V.M. '76, Seoul City University; M.V.M. '84, Seoul National University. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Identification and Characterization of Cross Protection Factor (CPF) Antigen(s) from Type A *Pasturella multocida*. Major Adviser: Prof. S.K. Maheswara.

Patrick Gene Coin, Oklahoma City, Okla.

B.S. with honor '81, California Institute of Technology. Major: Environmental Health. Minor: Supporting Program. Thesis: Pulmonary Clearance of Asbestos. Major Advisers: Profs. D.E. Barber and J.B. Stevens.

Philip Jon Copeland, St. Paul

B.A. '78, Bethel College; M.S. '83, University of Minnesota. Major: Agronomy. Minor: Supporting Program. Thesis: Soil Moisture and Soil and Plant Nutrients as Affected by Corn and Soybean Cropping Patterns. Major Adviser: Prof. R.K. Crookston.

Lincoln Gibson Craton

B.S. magna cum laude '83, Tufts University. Major: Child Psychology. Minor: Supporting Program. Thesis: Infants' Perception of Figure and Ground from Kinetic Stimulus Information. Major Adviser: Prof. Albert Yonas.

Lynn Sue Dahleen, Hubertus, Wis.

B.S. '84, University of Wisconsin; M.S. '86, University of Kentucky. Major: Plant Breeding. Minor: Supporting Program. Thesis: Somaclonal Variation in Oat (*Avena sativa* L.) Lines Derived from Tissue Culture. Major Advisers: Profs. H.W. Rines and D.D. Stuthman.

Manoj Dalvie, India

B.S. with high honors '84, University of California. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Combined Experimental and Modeling Studies of Spatial Effects in CF_3 -Based Plasma Etching of Silicon. Major Adviser: Prof. K.F. Jensen.

Richard Norman Danila, St. Paul

B.S. '77, College of William and Mary; M.P.H. '81, University of Michigan. Major: Epidemiology. Minor: Supporting Program. Thesis: An Epidemiologic Study of Acute Lymphocytic Leukemia in Children Less Than Sixteen Years: An Evaluation of Potential Risk Factors with Emphasis on Farm Exposures. Major Advisers: Profs. L.M. Schuman and R.W. Gibson.

Javier Diaz-Gimenez, Madrid, Spain

Major: Economics. Minor: Supporting Program. Thesis: Business Cycle Fluctuation in Computable Heterogeneous Agent Monetary Economies. Major Adviser: Prof. E.C. Prescott.

Michael Roger Dick, Minneapolis

B.A. magna cum laude '82, College of St. Thomas; M.S. '86, University of Notre Dame. Major: Chemistry. Minor: Supporting Program. Thesis: The Synthesis of Substituted Quinolizidines: Studies Directed Toward the Synthesis of the Marin Alkaloid, Petrosin. Major Adviser: Prof. T.R. Hoye.

Burkhard Drees, Hemer, West Germany

Dipl. '83, Universitat Augsburg. Major: Economics. Minor: Supporting Program. Thesis: Financial Intermediation in Generalized Diamond-Dybvig Models. Major Adviser: Prof. Neil Wallace.

Stephen T. Dybing, Brookings, S.D.

B.S. '76, M.S. '79, South Dakota State University. Major: Food Science. Minor: Supporting Program. Thesis: Effect of Whey Protein Incorporation into Cheddar Cheese Using Ultrafiltration Techniques on Product Yield, Body, and Texture. Major Adviser: Prof. D.E. Smith.

Margaret Anne Egli, Walnut Creek, Calif.

B.S. with high distinction '75, M.S. '87, University of California. Major: Plant Physiology. Minor: Supporting Program. Thesis: Developmental Expression of Plant Genes in Effective and Plant-Controlled Ineffective Alfalfa Nodules. Major Advisers: Profs. C.P. Vance and B.G. Gengenbach.

Sally Steckart Ehlinger, Green Bay, Wis.

B.S. with honors '68, Wisconsin State University; M.A. '82, University of Minnesota. Major: Physical Education. Minor: Supporting Program. Thesis: Patterns in Preschoolers' Physical Activity Choices and Aspects of Motor Behavior. Major Adviser: Prof. J.M. Schick.

Joseph Arthur Erickson, Minneapolis

B.A. cum laude '79, M.A. '82, College of St. Thomas. Major: Educational Psychology. Minor: Supporting Program. Thesis: Adolescent Religious Development and Commitment: A Structural Equation Model of the Role of Family, Peer Group, and Educational Influences. Major Adviser: Prof. G.M. Maruyama.

Myron Clifford Falken, Brookings, S.D.

B.S. '74, M.S. '76, South Dakota State University; M.P.H. '83, University of Minnesota. Major: Environmental Health. Minor: Supporting Program. Thesis: Isolation of Phycomycetes and Candida Species from Dietary Products and Disease Occurrence in Bone Marrow Transplant Recipients. Major Adviser: Prof. Donald Vesley.

Jeanne-Marie Elizabeth Faller, Franklin Square, N.Y.

B.A. '72, Molloy Catholic College for Women; M.A. '76, Adelphi University. Major: Educational Administration. Minor: Supporting Program. Thesis: Teacher Perception of At-Risk Students: An Ecological Perspective. Major Adviser: Prof. W.M. Ammentorp.

Shenggen Fan

B.S. '82, M.S. '85, Nanjing Agricultural University. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Regional Productivity Growth in China's Agriculture. Major Adviser: Prof. V.W. Ruttan.

Fuh-Min Fang, Taichung, Taiwan

B.S. '79, National Chung-Hsing University; M.S. '84, Clemson University. Major: Fluid Mechanics. Minor: Supporting Program. Thesis: Flow Characteristics in Three-Dimensional Channel Contractions. Major Adviser: Prof. Cesar Farrell.

Scott Jarrett Forbes, Indianapolis, Ind.

B.S.C.E. with distinction '80, Purdue University; M.S.A.E. '84, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: In-Line Particle Holography Applied to Fluid Velocity Measurement. Major Adviser: Prof. T.H. Kuehn.

Todd William Fortune, Apple Valley

B.A. magna cum laude '80, Macalester College; M.A. '84, University of Minnesota. Major: Communication Disorders. Minor: Supporting Program. Thesis: Envelope Effects in Simultaneous Masking: The Influence of Temporal Fluctuations on the Shape of the High-Level Psychophysical Tuning Curve. Major Adviser: Prof. D.A. Nelson.

Rodney Kevin Frank

B.S. with honors '75, D.V.M. with honors '77, University of Illinois. Major: Veterinary Pathology. Minor: Supporting Program. Thesis: Investigations of the Cause and Pathologic Changes of Perirenal Hemorrhage Syndrome in Growing Turkeys. Major Adviser: Prof. G.R. Ruth.

David Richard Gast, Wittenberg, Wis.

B.S. '74, M.S. '76, University of Wisconsin. Major: Animal Science. Minor: Supporting Program. Thesis: Effects of Particle Size and Intake on Forage Digestion. Major Adviser: Prof. R.D. Goodrich.

Joni Carmen Gray, Minneapolis

B.A. with honors '76, University of Northern Iowa. Major: Chemistry. Minor: Supporting Program. Thesis: Studies in Chemical Reaction Dynamics and Molecular Energy Transfer. Major Adviser: Prof. D.G. Truhlar.

Bernard Guillaume, Grande Rivier du Nord

Dipl. Agron. '79, Université d'Etat d'Haïti; M.S. '87, University of Minnesota. Major: Animal Science. Minor: Statistics. Thesis: Response of Lactating Holstein Cows to Different Dietary Protein Concentrations and Sources and Rumens-Protected Methionine and Lysine. Major Adviser: Prof. D.E. Otterby.

Azar Midokht Hadadianbazarjani, Teheran, Iran

B.A. '74, College of Translation. Major: Educational Psychology. Minor: Supporting Program. Thesis: Attachment and Communication Behaviors Beyond Infancy: Parents-Hearing Impaired Child Interactions and Attitudes. Major Adviser: Prof. Susan Rose.

David Jon Haglin, Staples

B.A. magna cum laude '82, Concordia College; M.S. '87, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Results on Matching, Maximum Cut, and Related Problems. Major Adviser: Prof. S.M. Venkatesan.

Magdy Sobhy Hanna, Cairo, Egypt

B.S. '75, Suez Canal University; M.S. '81, Cairo University. Major: Computer and Information Sciences. Minor: Business Administration. Thesis: UDM: a Unified Data Modeling Approach for Logical Database Design. Major Advisers: Profs. M.L. Stein and G.C. Everest.

Linda Kay Hansen, Minneapolis

B.A. '83, Northwestern University; M.P.H. '85, University of Minnesota. Major: Pathobiology. Minor: Supporting Program. Thesis: Proteins Synthesized in Response to Mitogenic Signals and Heat Stress in Human Peripheral Blood Lymphocytes. Major Adviser: Prof. J.J. O'Leary.

Beth Elaine Haverkamp, Minneapolis

B.A. '76, The College of Wooster. Major: Psychology. Minor: Supporting Program. Thesis: Hypothesis Testing in Counseling Trainees. Major Adviser: Prof. J.C. Hansen.

Debra Joy Herreid, Sauk Centre

B.A. summa cum laude '82, Macalester College; M.A. '89, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: The Trans-theoretical Approach as a Model of Counselor Development. Major Adviser: Prof. J.C. Hansen.

Elaid Hlal

Dipl. Ing. '82, Institut Agronomique et Vétérinaire Hassan II; M.S. '87, University of Minnesota. Major: Forestry. Minor: Supporting Program. Thesis: Goal Programming for Multiple-Objective Forest Management: An Application to the RIF Cedar Forest of Morocco. Major Adviser: Prof. D.W. Rose.

Mark David Hoffbeck, Tipton, Ind.

B.S. with high distinction '86, Purdue University. Major: Plant Breeding. Minor: Supporting Program. Thesis: The Effect of Backcrossing and Introgression of Adapted X Exotic Maize Populations. Major Adviser: Prof. D.D. Stuthman.

Lawrence Paul Holmquist

B.A. summa cum laude '81, Macalester College; M.S.E.E. '84, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Concurrent Error Detection with Latency in Sequential Circuits. Major Adviser: Prof. L.L. Kinney.

Rollin Hull Hotchkiss, Burbank, Calif.

B.S. '76, Brigham Young University; M.S. '80, Utah State University. Major: Civil Engineering. Minor: Supporting Program. Thesis: Reservoir Sedimentation and Sediment Sluicing: Experimental and Numerical Analysis. Major Adviser: Prof. Gary Parker.

Hussein Shaaban Hussein, Alexandria, Egypt

B.Ag.Sc. '79, M.Sc. Ag.Sc. '84, University of Alexandria. Major: Animal Science. Minor: Supporting Program. Thesis: Influence of Protein and Carbohydrate Source on Ruminant Microbial Protein Degradation and Synthesis. Major Adviser: Prof. R.M. Jordan.

Abdel-Rahiem Sayed Ibrahim, Luxor, Egypt

B.Pharm.Sci. '76, M.S. Pharm.Sci. '82, Cairo University. Major: Pharmacognosy. Minor: Supporting Program. Thesis: Substrate Specificity in Microbiological Transformation of Flavonoids. Major Adviser: Prof. Y.J. Abul-Hajj.

Philip Nord Jenkins, Bloomington

B.E.E. '82, M.S. '85, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Design and Simulation of Ultra High Speed GaAs Integrated Circuits. Major Adviser: Prof. Michael Shur.

Diane Fjeld Joseph, White Bear Lake

B.A. cum laude '71, University of Washington; M.A.T. '72, Lewis and Clark College. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Visual Structural Overviews and Advance Organizers on Deaf Students' Reading Comprehension. Major Advisers: Profs. Susan Rose and S.L. Deno.

Catherine Mary Joyce, Minneapolis

B.A. cum laude '80, Carleton College. Major: Genetics. Minor: Supporting Program. Thesis: Characterization of Alpha-Tubulin and Beta-Tubulin Isotype Expression in Zea mays. Major Adviser: Prof. C.D. Silflow.

Maythee Jensen Kantar, Minneapolis

B.A. summa cum laude '79, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Children's Responses to Televised Adaptations of Literature. Major Adviser: Prof. J.C. Manning.

Joan Felice Kennedy, St. Paul

B.S.Ed. '62, Marian College; M.A. '82, College of St. Thomas. Major: Educational Administration. Minor: Supporting Program. Thesis: Motivation, Activities, and Satisfaction Outcomes Associated with Sabbatical Leave Participation in an Urban School District. Major Adviser: Prof. T.L. Mazzoni.

Hae-Jaeon Kim, Jon-Ju, Korea

B.Home Ec. '70, M.Home Ec. '73, Seoul National University. Major: Design, Housing, and Apparel. Minor: Supporting Program. Thesis: Far Eastern Influence on Western Women's Dress, 1890-1927. Major Adviser: Prof. M.R. Delong.

Seoggwan Kim, Seoul, Korea

B.E. '82, Yonsei University; M.S.M.E. '88, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Real-Time Cutting Tool Condition Monitoring in Milling by Means of the Torsional Vibration Measurement of the Spindle Shaft. Major Adviser: Prof. B.E. Klamecki.

Brian Jon Knudson, Houston

B.S. '82, Iowa State University of Science and Technology; M.S. '86, University of Minnesota. Major: Animal Science. Minor: Biochemistry. Thesis: Influence of Bioenergetics upon Metabolite Levels, Body Composition, and Reproductive Performance of Female Swine. Major Adviser: Prof. R.L. Moser.

Koichi Koyama, Japan

B.A. '74, Keio University; M.Econ. '80, Hitotsubashi University. Major: Economics. Minor: Supporting Program. Thesis: Mechanism Design for an Economy with Increasing Returns to Scale. Major Adviser: Prof. Leonid Hurwicz.

Judith Louise Koza, St. Paul

B.A. '72, Hamline University. Major: Education. Minor: Supporting Program. Thesis: Comparison of the Achievement of Mathematics and Reading Levels and Attitude Toward Learning of High Risk Secondary Students Through the Use of Computer Aided Instruction. Major Advisers: Profs. R.J. Park and C.R. Bruning.

Prasad Mehar Kuchibhotla, India

B.Tech. '75, Andhra University; M.Tech. '79, Indian Institute of Technology, Kanpur. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Kinetic Investigation of Laser Induced Chemical Reactions. Major Adviser: Prof. R.W. Carr.

Ashwini Kumar, Lucknow, India

B.Tech. '82, Govind Ballabh Pant University of Agriculture and Technology; M.SC. '84, University of Manitoba. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Modeling Thermal and Aseptic Processing of Food Products. Major Advisers: Profs. M. Bhattacharya and R.V. Morey.

Roger Dean Lagunoff, Los Angeles, Calif.

B.A. cum laude '84, Ohio State University. Major: Economics. Minor: Supporting Program. Thesis: Fully Endogenous Mechanism Selection: An Essay on Endogenous Institutional Structure. Major Adviser: Prof. M.K. Richter.

Char-Huei Lai, Taipei, Taiwan

B.D.M. '77, Taipei Medical College. Major: Oral Biology. Minor: Anatomy. Thesis: Purification and Characterization of Adhesins from Outer Membrane of Haemophilus Parainfluenzae HP-28. Major Adviser: Prof. W.F. Liljemark.

Susan Clarke Gettys Larson, Knoxville, Tenn.

B.S. with honors '80, M.S. '83, University of Tennessee. Major: Food Science. Minor: Supporting Program. Thesis: The Study of Membrane Fouling During Ultrafiltration of Milk. Major Adviser: Prof. E.A. Zottola.

Nancy Ann Lawroski, Chicago, Ill.

B.A. '72, M.A. '76, University of Chicago. Major: Psychology. Minor: Supporting Program. Thesis: Cognitive and Emotional Aspects of Empathic Process and Their Relation to Personality Traits and Situational Variables. Major Adviser: Prof. Eric Klinger.

Yean-Shiang Leu, Kaohsiung, Taiwan

B.S.E. '78, National Cheng Kung University; M.S. Aero.E. '81, M.S. '84, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Very High Speed Network Based on the Unidirectional Twin Bus Architecture. Major Adviser: Prof. D.H. Du.

Mirng-Ji Lii, Taiwan

B.S. '80, National Taiwan University. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Stress State Near Bi-Material Interfaces. Major Adviser: Prof. W.W. Gerberich.

Ture Tina Lii, Taiwan

B.S. '82, National Taiwan University; M.S. '87, University of Minnesota. Major: Physiology. Minor: Supporting Program. Thesis: Characterization of a Cation Selective Channel and an Activating Protein from Sea Urchin Egg. Major Adviser: Prof. D.G. Levitt.

Wen Feng Lu, Singapore

B.S.M.E. with honors '79, University of Tennessee; M.S. '82, State University of New York. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Prediction of Chatter Onset in Turning Process with a New Process Model. Major Adviser: Prof. B.E. Klamecki.

John Brian Lynch

B.A. summa cum laude '85, Canisius College. Major: Chemistry. Minor: Supporting Program. Thesis: The Dinuclear Iron Center and Tyrosine Radical of the Ribonucleotide Reductase B2 Subunit from E.coli: Spectroscopic and Chemical Studies. Major Adviser: Prof. Lawrence Que.

Laurie Ellen Lynch, Buffalo, N.Y.

B.S. magna cum laude '80, Canisius College. Major: Chemistry. Minor: Supporting Program. Thesis: Electrochemically Controlled Transport Across Polyvinylchloride Membranes. Major Adviser: Prof. L.L. Miller.

Robert Anthony Maranto, Baltimore, Md.

B.A. '80, University of Maryland. Major: Political Science. Minor: Supporting Program. Thesis: Political Executives and Career Bureaucrats in the Reagan Administration. Major Adviser: Prof. C.E. Walcott.

Silvestra Mariniello, Florence, Italy

Laur. '79, Università di Firenze. Major: Comparative Literature. Minor: Supporting Program. Thesis: Film and Modernity: the Case Kuleshov. Major Advisers: Profs. Wlad Godzich and Reda Bensmaïa.

Miriam A. Marquez

B.B.A. '66, M.P.A. '75, University of Puerto Rico. Major: Hospital and Health Care Administration. Minor: Supporting Program. Thesis: The Impact of Myocardial Infarction on the Spouse. Major Adviser: Prof. V.E. Weckworth.

Gail D. Hughes McClure, Lyons, Kan.

B.A. '67, M.A. '70, Kansas State University. Major: Education. Minor: Supporting Program. Thesis: Organizational Culture as Manifest in Critical Incidents: A Case Study of the Faculty of Agriculture, University of the West Indies. Major Adviser: Prof. S.M. Clark.

Neil Daniel McElroy, Eau Claire, Wis.

B.S. '80, University of Wisconsin. Major: Pharmacology. Minor: Supporting Program. Thesis: Intrarenal Arterial Adrenoceptor: Identification, Characterization, and Functional Alterations in Renovascular Hypertension. Major Adviser: Prof. B.G. Zimmerman.

Thomas Rodolfo Melli, Argentina

Ing. Quim. '79, Universidad Nacional del Litoral. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Two-Phase Cocurrent Downflow in Packed Beds Macroscale from Microscale. Major Adviser: Prof. L.E. Scriven.

Giuliana Menozzi

Laur. '77, Università Degli Studi di Bologna. Major: Comparative Literature. Thesis: Aspects of the Discourse of Wildness within Modernity. Major Adviser: Prof. Wlad Godzich.

Pamela Jean Mittlefehldt, Anoka

B.A. summa cum laude '68, North Central College; M.A.T. '70, University of Chicago; M.A. '75, University of Minnesota. Major: American Studies. Thesis: A Politics of Transformation: Women and Story in American Culture. Major Adviser: Prof. G.G. Yates.

Phillip Newton Moye

B.A. '67, M.S. '71, St. Cloud College. Major: Educational Administration. Minor: Supporting Program. Thesis: Investigation of Superintendents' Management Practices in Minnesota's First Statutory Operating Debt Districts. Major Adviser: Prof. C.P. Hooker.

Priscilla Murphy-Young, St. Paul

B.A. cum laude '61, M.A. '82, University of Minnesota. Major: English. Minor: Feminist Studies. Thesis: "Then Sunrise Kissed My Chrysalis": Figurations of the Erotic in the Poetry of Emily Dickinson. Major Adviser: Prof. T.A. McNaron.

Mary Beth Murray, New Brighton

B.S. '82, University of Minnesota. Major: Biochemistry. Minor: Supporting Program. Thesis: Multiple Thyroid Hormone Receptors and Their Interactions with DNA. Major Adviser: Prof. H.C. Towle.

Susan Elizabeth Naegele, St. Paul

B.A. with highest honors '77, Bethel College; M.A. '83, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Teachers' Conceptions of Mathematical Problem Solving Instruction. Major Adviser: Prof. J.E. Stochl.

Cathy Louise Nelson

B.A. summa cum laude '74, Gustavus Adolphus College; M.Ed. '81, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Gender and the Social Studies: Training Preservice Secondary Social Studies Teachers. Major Adviser: Prof. A.D. Glenn.

Nathan Harold Nelson, Minneapolis

B.A. '73, University of Minnesota; M.A.T. '74, Northwestern University. Major: English. Minor: Supporting Program. Thesis: The Dissidence of Suffering: Disaster Narratives and the Novelization of England's Maritime Epic. Major Adviser: Prof. J.C. Weinsheimer.

John Alan Noennig, Glencoe

B.A. '67, Concordia College; M.S. '72, Spec. Cert. Ed. Ad. '77, Mankato State University. Major: Educational Administration. Minor: Supporting Program. Thesis: Adaptive Behavior and Expectations in Elementary Schools. Major Adviser: Prof. W.M. Ammentorp.

Hee-Bang Noh, Seoul, Korea

B.A. '77, Seoul National University; M.A. '85, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: The Spatial Pattern and Process of Migration in Korea, 1960-1985. Major Adviser: Prof. J.R. Borchert.

Karen Suzanne Oberhauser, Minneapolis

A.B. cum laude '79, Radcliffe College; B.S. '81, University of Wisconsin. Major: Ecology. Minor: Genetics. Thesis: Material Investment in Mating by Male Monarch Butterflies (*Danaus plexippus*). Major Advisers: Profs. P.A. Abrams and J.W. Curtsinger.

William Eugene Olszewski, Mankato

B.A. '57, M.A. '59, St. Louis University. Major: Education. Minor: Supporting Program. Thesis: Conceptions of Intimacy: Implications for Adult Education. Major Adviser: Prof. H.Y. Williams.

Thomas Robert Omstead, Weaverville, Calif.

B.S. with highest honors '85, University of California. Major: Chemical Engineering. Minor: Electrical Engineering. Thesis: Metalorganic Chemical Vapor Deposition (MOCVD) of GaAs Using Organometallic Arsenic Precursors. Major Adviser: Prof. K.F. Jensen.

Jeffrey Robert Ondich, Minneapolis

B.A. magna cum laude '83, St. Olaf College. Major: Mathematics. Minor: Supporting Program. Thesis: Partially Invariant Solutions of Differential Equations. Major Adviser: Prof. P.J. Olver.

Scott Hunter Oppler, Potomac, Md.

B.S. summa cum laude '85, Duke University. Major: Psychology. Minor: Supporting Program. Thesis: Three Methodological Approaches to the Investigation of Subgroup Bias in Performance Measurement. Major Adviser: Prof. J.P. Campbell.

Rick Lee Orpen, Austin

B.S. with distinction '75, M.A. '79, University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: Rhythm Analyses of Compositions for Percussion Ensemble by Chavez, Creston, and Varese. Major Advisers: Profs. D.A. Damschroeder and Stephen Schultz.

Michael Raymond Osmera, Portland, Ore.

B.A. '69, University of Oregon; M.A. '78, University of Minnesota. Major: Anthropology. Minor: Supporting Program. Thesis: Risk and Recreation: An Anthropological Study of Mountain Climbing. Major Adviser: Prof. F.C. Miller.

Paolo S.A. Palladino

A.B. '82, Columbia University. Major: History of Science and Technology. Minor: Supporting Program. Thesis: Entomology and Ecology: The Ecology of Entomology. The "Insecticide Crisis" and Entomological Research in the United States in the 1960s and 1970s: Political, Institutional, and Conceptual Dimensions. Major Adviser: Prof. John Beatty.

Robin Hornik Parritz, St. Paul

A.B. summa cum laude '83, Brandeis University. Major: Psychology. Minor: Supporting Program. Thesis: An Examination of Toddlers Coping in Three Challenging Situations. Major Advisers: Profs. M.R. Gunnar and G.R. Leon.

Robert John Pawlosky, Minden City, Mich.

B.S. '76, University of Michigan; M.S. '80, University of Minnesota. Major: Plant Pathology. Minor: Supporting Program. Thesis: An Analytical Technique for the Detection of Fusarium Mycotoxins with Microcolumn HPLC Fast Atom Bombardment Mass Spectrometry. Major Adviser: Prof. C.J. Mirocha.

Pablo Pedregal

Major: Mathematics. Minor: Supporting Program. Thesis: Topics in Non-Linear Analysis. Major Adviser: Prof. D.S. Kinderlehrer.

Anita Sue Pershern, Menomonie, Wis.

B.A. cum laude '55, St. Olaf College; M.S. '71, University of Wisconsin. Major: Food Science. Minor: Supporting Program. Thesis: Shelf Life Studies and Analysis of Stability Factors in American Grown Hazelnuts (*Corylus*). Major Adviser: Prof. W.M. Breene.

Michael Joseph Pesch, St. Cloud

B.A. '78, University of Minnesota; M.S. '81, M.B.A. '82, Ohio State University. Major: Business Administration. Minor: Supporting Program. Thesis: Defining and Measuring the Focused Factory. Major Adviser: Prof. R.G. Schroeder.

Virginia Marie Peschke, Woodstock, Ill.

B.S. with honors '83, University of Illinois; M.S. '86, University of Minnesota. Major: Plant Breeding. Minor: Supporting Program. Thesis: Tissue Culture-Induced Variability in Maize: Genetic and Molecular Analysis of Tissue Culture-Derived Transposable Elements. Major Advisers: Profs. R.L. Phillips and B.G. Gengenbach.

Richard Carl Pleus

B.S. with honor '77, Michigan State University; M.S. '83, University of Minnesota. Major: Environmental Health. Minor: Supporting Program. Thesis: Effect on Learning and Memory in Offspring of Methadone-Induced Maternal Hypoxia/Hypercapnia. Major Adviser: Prof. D.E. Barber.

Robert James Pluth, Blaine

B.S. '69, Bemidji State College; M.S. '72, Winona State College. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationship of Community Variables to School Board and Superintendent Influence in Policy Formulation. Major Adviser: Prof. T.L. Mazzoni.

Nancy Floros Rajanen, Coon Rapids

B.A. magna cum laude '77, Augustana College; M.P.H. '83, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Environmental Effects on Adaptive Behavior. Major Adviser: Prof. R.F. Weatherman.

Bharat Ramaswami, India

B.A. '80, M.A. '82, University of Delhi. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: Incompleteness in Insurance: An Analysis of Crop Insurance Schemes. Major Adviser: Prof. T.L. Roe.

Robert Dale Randall II, Apple Valley

B.S. '82, Pharm.D. '85, M.S. '85, University of Nebraska. Major: Pharmacology. Minor: Supporting Program. Thesis: Chronic Angiotensin Converting Enzyme Inhibition or Bilateral Nephrectomy Abolishes Long Term Adrenergic Influence of Renin-Angiotensin System in the Rabbit. Major Adviser: Prof. B.G. Zimmerman.

Laura Page Whitmore Ranum, Minneapolis

B.A. cum laude '82, St. Olaf College. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Mapping Nuclear Sequences in *Chlamydomonas reinhardtii* Using Restriction Fragment Length Polymorphisms. Major Adviser: Prof. C.D. Silflow.

Angelika Maria Rauch, Minneapolis

Staatsexamen '80, Universitat Munchen. Major: German. Minor: Comparative Literature. Thesis: The Psychoanalytic Foundation of Tradition. Major Adviser: Prof. Jochen Schulte-Sasse.

Bruce Willard Renken, Minneapolis

B.A. with distinction '75, Swarthmore. Major: Psychology. Minor: Supporting Program. Thesis: Antecedents of Childhood Aggression: Predicting Aggression in Elementary School from Characteristics of the Child and Caretaking Environment in the First Four Years of Life. Major Adviser: Prof. Auke Tellegen.

Sandra Catherine Robin, Moorhead

B.A. '70, University of Minnesota; M.S.W. '76, University of Denver. Major: Social Work. Minor: Supporting Program. Thesis: Family Based Services: Success as Defined and Experienced by Families and Providers. Major Adviser: Prof. R.H. Rooney.

Linda Rochford

B.Chem. '78, M.B.A. '83, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: The Effects of Amount and Usage of Information on the New Product Process. Major Adviser: Prof. C.W. Rudelius.

Judy Irene Rommel, River Falls, Wis.

B.S. '71, M.S. '76, University of Wisconsin. Major: Family Social Science. Minor: Supporting Program. Thesis: Wives' and Husbands' Resource Adequacy Perception, Conflict Resolution, and Contextual Variables: A Longitudinal Study. Major Adviser: Prof. M.J. Hogan.

Anton B. Rosenthal

B.A. '73, San Francisco State University; M.A. '84, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: Controlling the Line: Worker Culture, Transport Capital, and Collective Behavior on the Railroads of Ecuador and Central Africa, 1916-1950. Major Adviser: Prof. A.E. Isaacman.

Thomas Donald Rossin, Minneapolis

B.M.E. '72, Valparaiso University; M.F.A. '75, University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: The Bible of Johann Sebastian Bach: Rationale for the Decline of His Compositional Output. Major Adviser: Prof. S.W. Schultz.

Marta Rostan, Argentina

Lic.Mat. '78, Universidad Nacional del Sur. Major: Control Science and Dynamical Systems. Thesis: 2-D Systems: Optimal Control. Major Adviser: Prof. E.B. Lee.

Hope Guerrero Rovira, Quezon City, Philippines

D.V.M. '78, University of the Philippines. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Characterization of the Outer Membrane Proteins of *Actinobacillus (haemophilus) pleuropneumoniae*: Identification of Outer Membrane Antigens as Potential Vaccine Candidates. Major Adviser: Prof. S.K. Maheswaran.

Jeannie Marie Ryan, Eden Prairie

B.S. '71, M.A. '80, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: An Investigation of the Perceptions and Attitudes of Stakeholders Regarding the Implementation of an Innovative Elementary Public School. Major Adviser: Prof. V.D. Mueller.

Juan Camilo Samper, Colombia

Med.Vet. '85, Universidad Nacional de Colombia. Major: Theriogenology. Minor: Animal Physiology. Thesis: Evaluation of Membrane Integrity of Preserved Stallion Spermatozoa. Major Adviser: Prof. B.G. Crabo.

Michael Frank Sancilio, New York, N.Y.

B.A. '82, Haverford College. Major: Psychology. Minor: Supporting Program. Thesis: Making Friends: The Development of Dyadic Social Relationships in Previously Unacquainted Adolescent Boys. Major Advisers: Profs. Auke Tellegen and W.W. Hartup.

Mayra Carlota Santiago, San Juan, Puerto Rico

B.A. '74, Hollins College; M.Ed. '79, Harvard University; M.A. '86, University of Minnesota. Major: Physical Education. Minor: Supporting Program. Thesis: Effects of a Forty-Week Walking Program of Twelve Miles Per Week on Blood Lipids, Lipoproteins, and Lipoprotein Subfractions in Sedentary Women. Major Adviser: Prof. R.C. Serfass.

Karen Ann Schmidt

B.S. with high distinction '79, Pennsylvania State University; M.S. '86, University of Minnesota. Major: Food Science. Minor: Supporting Program. Thesis: Gum-Milk Protein Interactions as Determined by Viscosity. Major Adviser: Prof. D.E. Smith.

Raafat Abdel-Aziz Seifeldin, Alexandria, Egypt

Pharm.D. '84, M.S. '86, University of Minnesota. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: Cost Benefit Analysis of Immunosuppressive Drug Regimens in Renal Transplant. Major Advisers: Profs. A.I. Wertheimer and D.M. Canafax.

John Nicholas Shadid, Wis.

B.S. with honors '80, M.E. '81, M.S. '82, University of Wisconsin. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Experimental and Computational Study of the Stability of Natural Convection Flow in an Inclined Enclosure. Major Adviser: Prof. R.J. Goldstein.

AjitKumar Kantil Shah, Sakri, Maharashtra, India

B.Pharm. '78, M.Pharm. '80, Nagpur University. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Pharmacokinetic Studies of Cyclosporine in the Rabbit and in Heart Transplant Patients. Major Adviser: Prof. R.J. Sawchuk.

Barbara Jane Skudlark Shin, St. Paul

B.S. '61, M.A. '82, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study to Describe Culture-Fair Schooling for a Culturally Diverse Population and to Examine the Relationship Between Culture-Fair Schooling, Student Achievement, and Student School Affiliation. Major Adviser: Prof. T.L. Mazzoni.

Stephen Richard Skilling, St. Paul

B.S. '79, D.V.M. '81, University of Minnesota. Major: Veterinary Physiology and Pharmacology. Minor: Neuroscience. Thesis: Excitatory Amino Acids and Nociception: Interaction with Substance P (SP), SP Fragments and Calcitonin Gene-Related Peptide. Major Adviser: Prof. A.A. Larson.

David C. Skouby, Webster Groves, Mo.

B.S.C.E. with honors '84, University of Missouri. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Modeling and Laser Diagnostic Experiments in Laser-Assisted Chemical Vapor Deposition. Major Advisers: Profs. K.F. Jensen and R.W. Carr.

Gregory Alan Smith, Vincennes, Ind.

B.S. cum laude '79, Rose-Hulman Institute of Technology. Major: Biomedical Engineering. Minor: Chemical Engineering. Thesis: Electrochemical Transdermal Drug Delivery. Major Adviser: Prof. L.L. Miller.

Philip Cooper Smith

B.S. '79, University of Minnesota. Major: Pharmacology. Minor: Supporting Program. Thesis: The Effect of Oxazaphosphorine and Non-Oxazaphosphorine DNA Cross-Linking Agents on Murine Lymphoid Cells. Major Adviser: Prof. N.E. Sladek.

James Patrick Sychalla, Antigo, Wis.

B.S. '79, University of Wisconsin. Major: Plant Physiology. Minor: Biochemistry. Thesis: The Contribution of Endogenous Antioxidants and Fatty Acids to the Processing Quality of Stored Tubers of *Solanum tuberosum* L. Major Adviser: Prof. S.L. Desborough.

Kathleen Mary Steffens, Plymouth

B.S. with distinction '76, M.Ed. '81, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Leisure-Recreation Patterns and Social Networks of Young Adults with Moderate to Profound Levels of Mental Retardation. Major Adviser: Prof. R.H. Bruininks.

Steven Robert Suppan, Minneapolis

B.A. '72, Valparaiso University; M.A. '76, University of Wisconsin. Major: Comparative Literature. Minor: Spanish. Thesis: *Translatio Imperii et Studii: The Project and Limits of Spanish Humanism (1492-1580)*. Major Adviser: Prof. R.W. Sousa.

Keith Alan Thorne, Batavia, Ill.

B.S. with honor '78, Michigan State University; M.S. '80, University of Illinois. Major: Physics. Minor: Supporting Program. Thesis: Precision Measurement of the Xi-0 Lifetime and Decay Asymmetry. Major Adviser: Prof. Kenneth Heller.

Linda Kay Tomaselli, River Falls, Wis.

B.A. cum laude '69, M.S. '73, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: A Geographic Information Systems Approach to Fiscal Impact Analysis. Major Adviser: Prof. J.R. Borchert.

Zhijun Tong

M.S.E.E. '85, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Rollback Recovery Schemes for Distributed Systems. Major Adviser: Prof. R.Y. Kain.

Carol Beth Toris, St. Paul

B.A. cum laude '73, Rockford College; M.S. '79, University of Minnesota. Major: Physiology. Minor: Supporting Program. Thesis: Aqueous and Uveal Fluid Dynamics in Normal and Inflamed Eyes. Major Adviser: Prof. R.E. Purple.

James Russell Valentine, Worcester, Mass.

B.S. '83, Southeast Massachusetts University. Major: Chemistry. Minor: Supporting Program. Thesis: Cation Transport in Electrically Conducting Polymer Composites. Major Adviser: Prof. L.L. Miller.

Ilija Milija Vitomirov, Belgrade, Yugoslavia

Dipl. '83, University of Belgrade. Major: Materials Science and Engineering. Minor: Physics. Thesis: Structural, Chemical, and Electrical Characterization of Metal-Semiconductor Interfaces. Major Adviser: Prof. J.H. Weaver.

Henrique Ralph VonGersdorff, Rio de Janeiro, Brazil

Fisico '83, Universidade Federal do Rio de Janeiro. Major: Physics. Minor: Supporting Program. Thesis: Probing the Dynamics of Ultrarelativistic Nucleus-Nucleus Collisions. Major Adviser: Prof. J.I. Kapusta.

Kyla Louise Wahlstrom, Minneapolis

B.S. with distinction '71, University of Minnesota; M.A. '76, College of St. Thomas. Major: Educational Administration. Minor: Supporting Program. Thesis: School District Decision-Making in the Adoption of Innovation. Major Adviser: Prof. V.D. Mueller.

Herbert Bigelow Ward, St. Paul

B.A. magna cum laude '73, M.D. '77, University of Minnesota. Major: Surgery. Minor: Cell and Developmental Biology. Thesis: Adenine Nucleotide Metabolism During Myocardial Ischemia and Recovery. Major Adviser: Prof. J.E. Foker.

Randy Dean Weckman, Lexington, Ky.

B.S. '73, Kansas State University; M.A. '76, University of Kentucky. Major: Mass Communication. Minor: Supporting Program. Thesis: Distributional Inequality: Cable Television in Rural and Urban Communities. Major Adviser: Prof. B.J. Tichenor.

Jill Ann Weiss

B.S. with distinction '78, University of Wisconsin. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Retrospective Investigation of Selected Educational Outcomes for an Early Childhood Special Education Population. Major Advisers: Profs. S.R. McConnell and J.E. Ysseldyke.

Steven Dwight Wescott, St. Louis Park

B.A. '73, M.A. '80, University of Minnesota. Major: Music. Minor: American Studies. Thesis: Miklos Rozsa: A Portrait of the Composer as Seen Through an Analysis of His Early Works for Feature Films and the Concert Stage. Major Adviser: Prof. Johannes Riedel.

William Albert Williams, Lawrenceville, N.J.

B.S. with honors '83, University of Wisconsin. Major: Biochemistry. Minor: Supporting Program. Thesis: Structure/Function Relationships Within Pig Heart CoA Transferase. Major Adviser: Prof. J.B. Howard.

John Gregory Woiwode, Jackson, Wyo.

B.S. '73, M.S. '80, University of Idaho. Major: Fisheries. Minor: Supporting Program. Thesis: The Effects of Temperature, Photoperiod, and Ration Size on the Growth and Thermal Resistance of the Hybrid Striped X White Bass. Major Adviser: Prof. I.R. Adelman.

Yang Xian, China

Major: Physics. Minor: Supporting Program. Thesis: A Study of Two-Dimensional Quantum Many-Body Systems. Major Adviser: Prof. C.E. Campbell.

Seung Mun You, Busan, Korea

B.S. '82. Seoul National University; M.S.M.E. '86. University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: Pool Boiling Heat Transfer Experiment with Highly Wetting Dielectric Fluids. Major Adviser: Prof. T.W. Simon.

Yuo-Jin Eugene Yun, Seoul, Korea

B.Econ. '82. Yonsei University. Major: Economics. Minor: Supporting Program. Thesis: Information, Business Cycles, and Currency Management: Three Essays. Major Adviser: Prof. E.C. Prescott.

*Doctor of Philosophy in Otolaryngology***Rick Mathew Odland, Houghton, S.D.**

B.A. '77. South Dakota State University; M.D. '81. Creighton University. Major: Otolaryngology. Minor: Supporting Program. Thesis: Measurement of Tissue Compliance in Skin Flaps. Major Adviser: Prof. A.J. Duvall.

*Doctor of Philosophy in Surgery***Caliann Tsuitsin Lum, San Antonio, Tex.**

M.D. '73. Tufts University. Major: Surgery. Minor: Cell and Developmental Biology. Thesis: Experimental and Clinical Studies on the Significance of the Enzyme Adenosine Deaminase in Transplantation Biology. Major Adviser: Prof. J.S. Najarian.

*Master of Architecture***Ronald Peter Brustad**

B.A. '81. Iowa State University of Science and Technology. Major: Architecture. Thesis: Adaptive Reuse. Major Adviser: Prof. J.G. Rauma.

Andrea Ursula Burgel

Dipl. '84. Fachhochschule Karlsruhe. Major: Architecture. Thesis: Architecture and Dwelling: Diomedea. Major Adviser: Prof. J.G. Rauma.

Robert Francis Gavin, Oshkosh, Wis.

B.S. '77. University of Wisconsin. Major: Architecture. Thesis: An AIDS Community: Utilizing Psychotherapeutic Studies in Design Program. Major Adviser: Prof. D.M. Mulfinger.

Eames Richard Gilmore, Minneapolis

B.S. '82. University of Wisconsin. Major: Architecture. Thesis: The Urban Responsibility of the Tall Building. Major Adviser: Prof. M.H. Thompson.

Peter Richard Grover

B.A. '84. Wesleyan University. Major: Architecture. Thesis: The Craft of the In-Between; An Applied Art Center for Downtown Minneapolis. Major Adviser: Prof. J.G. Rauma.

Christopher John Oakley, Minneapolis

B.A. '83. Trinity College. Major: Architecture. Thesis: The Massachusetts Museum of Contemporary Art: An Exploration of Architectural Transformation. Major Adviser: Prof. D.M. Mulfinger.

Patrick Francis Thibaudeau, Green Bay, Wis.

B.E.D. '87. University of Minnesota. Major: Architecture. Thesis: Home and Work: A Contemporary Architectural and Behavioral Integration. Major Adviser: Prof. J.G. Rauma.

Master of Arts

Patricia Louise Andersen

B.S. '80, University of Minnesota. Major: Design, Housing, and Apparel. Minor: Related Fields. Thesis: Co-Operative Housing in the Cedar-Riverside Neighborhood of Minneapolis: An Analysis of One Management Co-op. Major Adviser: Prof. E.M. Franklin.

Jeanne Marie Anderson, White Bear Lake

B.S. '82, University of Minnesota. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. Robert Dykstra.

Sonia Arreaza, Caracas, Venezuela

Prof. '71, Instituto Pedagogico; M.A. '78, University of London; Dipl. '78, University of Reading. Major: Education. Minor: Related Fields. Major Adviser: Prof. J.C. Hearn.

Donald Leslie Auld, St. Paul

B.S. '63, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. S.J. Miletech.

Joanne Caladine Bailey, Ilkley, Yorkshire, England

B.A. '87, Cambridge University. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. J.A. Mestenhauser.

Leslie Ann Balaban, Bismarck, N.D.

B.S. '86, North Dakota State University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. Susan Rose.

Rosanne Marie Bane, Kenosha, Wis.

B.A. magna cum laude '80, B.S. magna cum laude '80, University of Wisconsin. Major: English. Minor: Linguistics. Major Adviser: Prof. C.J. Sugnet.

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B.A. '87, St. John's University. Major: Philosophy. Minor: Related Fields. Thesis: An Assimilation of Phenomenological and Empirical Theories on the Relationship Between Technology and Science. Major Adviser: Prof. D.E. Lewis.

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B.A. '87, College of St. Catherine. Major: Mass Communication. Minor: Related Fields. Thesis: The Evolution of Journalistic Standard of Attribution: An Historical Study of the Change in Attribution Practices by Journalists Between 1890-1924. Major Adviser: Prof. Hazel Dicken-Garcia.

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B.S.O.T. with high distinction '66, University of Minnesota. Major: Physical Education. Minor: Related Fields. Thesis: Cardiorespiratory Responses to Upper Extremity Aerobic Training By Post-Polio Subjects. Major Adviser: Prof. R.C. Serfass.

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B.A. magna cum laude '74, Wartburg College. Major: Communication Disorders. Minor: Related Fields. Thesis: Language Skills of Kindergarten Children with Phonological Deficits. Major Adviser: Prof. P.A. Broen.

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B.A. summa cum laude '79, Buena Vista College. Major: Speech-Communication. Minor: Related Fields. Thesis: "Shall it be a Woman?": A Rhetorical Analysis of the Works of Maria Miller Stewart. Major Adviser: Prof. K.K. Campbell.

Hagar Lipkin

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B.S. '84, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Recovery from Forward Masking in Listeners with Normal Hearing, Sensorineural Hearing Loss, and Simulated Hearing Loss. Major Adviser: Prof. D.A. Nelson.

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Major Adviser: Prof. Wlad Godzich.

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Monopsonistic Practices of U.S. Daily Newspapers: An
Analysis. Major Adviser: Prof. J.C. Busterna.

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Context on Children's Elicited Imitation Performance. Major
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Thesis: The Influence of Size and Dimension of Normal
Children's Non-Identity Matching Skills. Major Adviser:
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Master of Business Administration

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B.S.E.E. '83, University of Notre Dame; M.S.E.E. '84,
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Master of Business Taxation

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Michael Edward King

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Master of Civil Engineering

Jeffrey Gardner McNabb, Minneapolis

B.C.E. '86, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Project: Stormwater Management Using the DR3M (USGS) Model. Major Adviser: Prof. H.G. Stefan.

Master of Fine Arts

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Gary Allen Ness, Minneapolis

B.F.A. with high honors '84, University of Northern Iowa. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. G.L. Hallman.

Master of Music

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Master of Planning

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Master of Science

Mohamed Masood Ali

Major: Biophysical Sciences. Major Adviser: Prof. EM. Khan.

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B.S. '87, University of Minnesota. Major: Animal Science. Minor: Animal Physiology. Thesis: Comparison of Two Estrous Synchronization Procedures for Virgin Heifers. Major Adviser: Prof. J.C. Meiske.

Thomas Gerard Arnold, Cold Spring

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B.A.E.M. '88, University of Minnesota. Major: Mechanics. Minor: Related Fields. Thesis: Vortex Rings in Immiscible Liquids. Major Adviser: Prof. D.D. Joseph.

Laura Walton Bell, Appomattox, Va.

B.S. '87, Virginia Polytechnic Institute and State University. Major: Design, Housing, and Apparel. Minor: Gerontology. Thesis: Involuntary Relocation of Elderly: Recovery Following a Fire Disaster. Major Adviser: Prof. B.L. Yust.

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B.A. '87, Virginia Polytechnic Institute and State University. Major: Food Science. Minor: Related Fields. Thesis: Aspartame Degradation Kinetics in Low and Intermediate Moisture Food Systems. Major Adviser: Prof. T.P. Labuza.

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Dipl. '86, Aristotelian University of Thessalonika. Major: Microbial Engineering. Minor: Related Fields. Thesis: Experimental Techniques for Study of Immunoglobulin Related Messenger RNAs in Hybridoma Cells. Major Adviser: Prof. M.C. Flickinger.

George Leo Bollweg

B.S. '85, University of Minnesota. Major: Environmental Health. Minor: Related Fields. Thesis: Greater Food Deprivation and Exogenous GM1 Ganglioside Modulate Learned Behavior in Nonlesioned and Trimethyltin Lesioned Rats. Major Adviser: Prof. J.B. Stevens.

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B.A. '86, Reed College. Major: Ecology. Minor: Related Fields. Major Adviser: Prof. D.A. Andow.

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B.S.N. '72, University of Maryland. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Patricia Crisham.

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B.A. magna cum laude '80, Macalester College; D.D.S. '84, University of Minnesota. Major: Dentistry. Minor: Related Fields. Thesis: Pulpal Blood Flow Studied by Laser Doppler Flowmetry. Major Adviser: Prof. M.E. Eiddeeb.

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B.S. with high distinction '77, University of Minnesota. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. K.W. Easter.

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B.A. '84, College of St. Catherine. Major: Cell and Developmental Biology. Minor: Genetics. Thesis: The Effect of Elevated Cytoplasmic Calcium Levels on Junctional Permeability in Cultured Bovine Lens Cells and Cultured Embryonic Chicken Lens Cells. Major Adviser: Prof. R.G. Johnson.

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B.S.N. cum laude '84, University of Wisconsin. Major: Nursing. Minor: Family Social Science. Major Adviser: Prof. F.E. King.

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B.A., B.D.Sc. '82, University of Dublin. Major: Dentistry. Minor: Related Fields. Thesis: Effect of Prenatal Fluoride on Caries in the Rat. Major Adviser: Prof. L.B. Messer.

Tony Dam

B.C.S. with distinction '87, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai.

Kelly Ann Day, St. Paul

B.A. cum laude '85, College of St. Thomas. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: Federal Funding of Natural Resource Research and Development 1978-1988. Major Adviser: Prof. V.W. Ruttan.

Dimuthu Renuka DeSilva, Kalubowila, Sri Lanka

Major: Fisheries. Minor: Related Fields. Thesis: Restriction Endonuclease Analysis of Mitochondrial DNA for Stock Identification in Lake Trout (*Salvelinus namaycush*). Major Adviser: Prof. A.R. Kapuscinski.

Calvin Wayne Dornbush, Pollock, S.D.

B.S. '83, South Dakota State University. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: Potential Economies of Size for Southeastern Minnesota Dairy Farms. Major Adviser: Prof. E.I. Fuller.

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B.C.S. '88, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Pat Powell.

Jacob Tiku Eta-Nd, Cameroon

Ing. Agron. '58, Centre Universitaire de Dschang. Major: Plant Breeding. Minor: Related Fields. Thesis: Comparison of Several Selection Criteria for Grain Yield and Moisture in Maize. Major Adviser: Prof. S.J. Openshaw.

Rebecca Fanany, Minneapolis

B.A. '87, University of Minnesota. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. O.R. Ruschmeyer.

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B.S.N. '77, University of Iowa. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. R.D. Lindquist.

Felix Friedman

B.A. '86, University of Minnesota. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. G.W. Oehlert.

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B.A. '88, Cambridge University. Major: Geology. Minor: Related Fields. Thesis: A Kinematic Analysis of the Oakhurst Mylonite Belt, Sierra Nevada Foothills, California. Major Adviser: Prof. C.P. Teyssier.

Bradley H. Gettleman, Phoenix, Ariz.

B.A. '83, University of Arizona. Major: Dentistry. Minor: Related Fields. Thesis: Sealer Adhesion to Dentin With/Without the Smear Layer. Major Adviser: Prof. M.E. Eiddeeb.

Aditya Prasad Gurajada, Eiombay, Maharashtra, India

B.Tech. '85, Indian Institute of Technology. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Jaideep Srivastava.

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B.A. magna cum laude '87, College of Santa Fe. Major: Biostatistics. Minor: Related Fields. Major Adviser: Prof. J.E. Connett.

Mary Katherine Harrison, Minneapolis

B.A. '76, Gustavus Adolphus College. Major: Nursing. Minor: Related Fields. Thesis: Body Image and Pubertal Development in Young Adolescent Females. Major Adviser: Prof. D.K. Kjervik.

John Madison Helmberger, Roseville

B.S. with distinction '77, University of Minnesota. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: Determining Optimal Rotation Length for Short-Rotation Intensive Culture of Hybrid Poplar with Increasing Real Prices: Pulpwood vs. Fuelwood Production. Major Adviser: Prof. T.D. Graham-Tomasi.

Peter John Helmberger, St. Paul

B.S. '86, University of Wisconsin. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. J.E. Fruin.

Robert Shawn Hewitt, Wilaca

B.A. '86, Bethel College. Major: Agricultural and Applied Economics. Minor: Economics. Major Adviser: Prof. G.L. Nelson.

Li-Chiun Hsiao, Republic of China

B.S. '83, Taipei Medical College. Major: Social and Administrative Pharmacy. Minor: Related Fields. Major Adviser: Prof. R.S. Hadsall.

Lan-Chih Hsu, Pingtung, Taiwan

B.Comm. '82, Feng Chia University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.A. Larson.

Brian James Huberty, Willmar

B.S. '82, University of Minnesota. Major: Forestry. Minor: Related Fields. Thesis: Forest Type Classifications of Itasca State Park Using Spectral and Textural Features from Landsat and Spot Images. Major Adviser: Prof. M.E. Bauer.

Frank Jay Jaskulka, Blaine

B.A. '81, College of St. Thomas. Major: Food Science. Minor: Related Fields. Thesis: Optimal Mixture Experimental Design Applied to the Development and Assessment of a Paradigm to Relate Freezing Point Depression to Ice Cream Mix Components. Major Adviser: Prof. D.E. Smith.

Peter Eugene Joria, St. Paul

B.A. cum laude '83, Winona State University. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. D.F. Grigal.

Nestor Antonio Juan, La Pampa, Argentina

Ing. Agron. '79, Universidad Nacional del Sur. Major: Agronomy. Minor: Related Fields. Thesis: Growth of Alfalfa Germplasms Differing in Dormancy Cut at Two Maturity Stages. Major Adviser: Prof. C.C. Sheaffer.

Genevieve Rose Jungers, Stewartville

B.A. '79, College of St. Benedict. Major: Technical Communication. Minor: Related Fields. Major Adviser: Prof. V.M. Mikelonis.

Dennis Hughes Kelly III, Des Moines, Iowa

B.A. '84, St. Olaf College. Major: Chemistry. Minor: Related Fields. Thesis: Studies Directed Toward a Synthesis of Optically Active A-Factor. Major Adviser: Prof. T.R. Hoye.

Stuart Richard Kemp, Durban, South Africa

B.S. with distinction '86, University of Natal. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. P.A. Powell.

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B.S. '86, N.E.D. University of Engineering and Technology. Major: Mechanics. Minor: Mechanical Engineering. Major Adviser: Prof. P.G. Hodge.

Patsy Mae Ellen Klose, Jamestown, N.D.

B.S. '78, Moorhead State University. Major: Nursing. Minor: Related Fields. Thesis: Relationship Between Clinical Supervision and Quality of Nursing Care in a Psychiatric Facility. Major Adviser: Prof. D.K. Kjervik.

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B.S. cum laude '87, University of Delaware. Major: Food Science. Minor: Related Fields. Thesis: Isolation and Characterization of Bacteriophage Resistance Gene From pBF61, A 26 Megadalton Plasmid From Lactococcus Lactis Subspecies Lactis KR5. Major Adviser: Prof. L.L. McKay.

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B.S. '84, University of Minnesota. Major: Nutrition. Minor: Related Fields. Thesis: The In Vitro and In Vivo Effects of Yogurts on Enteropathogenic Microorganisms. Major Adviser: Prof. D.A. Savaiano.

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B.A. cum laude '85, St. Cloud State University. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. C.E. McJilton.

James Harrison Leebens-Mack, Minneapolis

B.S. '87, University of Minnesota. Major: Ecology. Minor: Statistics. Thesis: Spatial Patterns in Seed Rain Density and Seedling Recruitment of Northern Mixed Hardwood Species in Sylvania Wilderness Area, Michigan. Major Adviser: Prof. M.B. Davis.

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B.N. '76, Dalhousie University. Major: Epidemiology. Minor: Related Fields. Major Adviser: Prof. A.S. Leon.

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B.S.H.E. '86, Ohio State University. Major: Design, Housing, and Apparel. Minor: Related Fields. Thesis: Museum Classification Systems for Computerized Costume Collections: A Case Study for the Goldstein Gallery Costume Collection. Major Adviser: Prof. M.P. Grindering.

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B.S. '87, Iowa State University of Science and Technology. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Prof. P.L. Blackshear.

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Major: Geo-Engineering. Minor: Related Fields. Thesis: A Two-Dimensional Static Analysis of the Stability of Blocky Rock Masses Around Underground Excavations. Major Adviser: Prof. Charles Fairhurst.

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B.S.Pharm. '81. University of Montana. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Prof. C.E. Daniels.

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B.S. '84. University of Illinois. Major: Genetics. Minor: Related Fields. Thesis: Characterization of a Telomere-Binding Activity/General Regulatory Factor in the Yeast *Saccharomyces Cerevisiae*. Major Adviser: Prof. J.G. Berman.

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B.A. magna cum laude '81. Carleton College. Major: Wildlife Conservation. Minor: Botany. Thesis: Moose Browsing and Boreal Forest Vegetation Dynamics. Isle Royale, Michigan. USA. Major Advisers: Profs. Yosef Cohen and R.J. Naiman.

Randal Lynn Meyer, Raymond

A.B. '87. Dordt College. Major: Animal Physiology. Minor: Related Fields. Thesis: The Effects of Ovine Inhibin Immunoneutralization on Follicle-Stimulating Hormone and Ovulation Rate. Major Adviser: Prof. J.E. Wheaton.

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B.A. with special honors '82. University of Chicago. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. D.L. Boley.

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B.S. '84. University of Minnesota. Major: Animal Science. Minor: Related Fields. Thesis: Effects of Heifer Diet, Age at Freshening, and Cow Diet on Performance. Major Adviser: Prof. R.D. Appleman.

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B.S. with distinction '86. University of Wisconsin. Major: Fisheries. Minor: Related Fields. Thesis: The Drift of Stream Invertebrates and its Relation to the First Foods of Salmonid Fry in North Shore Streams. Major Adviser: Prof. T.F. Waters.

Panayota Palli, Athens, Greece

Dipl. '84. University of Patras. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. L.J. Tierney.

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B.S.E. '87. Marquette University. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Prof. P.L. Blackshear.

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B.S. summa cum laude '78. Bemidji State University; M.D. '82. University of Minnesota. Major: Family Practice and Community Health. Minor: Related Fields. Major Adviser: Prof. J.T. Kelly.

Nancy Lee Peterson, Richfield

B.A. magna cum laude '86. Concordia College. Major: Biochemistry. Minor: Neuroscience. Thesis: Assay of Natural Toxins for Inhibition of Excitatory Synaptic Transmission. Major Adviser: Prof. J.F. Koerner.

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B.A. '75. University of Iowa. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. W.R. Maki.

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B.S. '81. University of Minnesota. Major: Plant Pathology. Minor: Related Fields. Thesis: Factors Affecting the Invasion of Dry Edible Beans by Storage Fungi and Their Relationship to Allowable Storage Time. Major Adviser: Prof. R.A. Meronuck.

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Robert Michael Resnick, St. Paul

B.S. '76. University of Minnesota. Major: Microbiology. Minor: Related Fields. Thesis: The Phylogenetic Distribution of a New Avian Endogenous Provirus Family EAV-0 Exists in all Gallus Species, Predating The Endogenous Provirus Family RAV-0. Major Adviser: Prof. A.J. Faras.

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B.A. '65, Mount Angel Seminary; B.S. with honors '75, University of Oregon; Ph.D. '82, University of Chicago. Major: Computer and Information Sciences. Major Adviser: Prof. Ravi Janardan.

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B.S. '87, University of Washington. Major: Food Science. Minor: Related Fields. Thesis: Use of Direct Headspace Gas Chromatography to Predict Shelf Life of Pasteurized Milk. Major Adviser: Prof. D.E. Smith.

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B.S. '87, University of Wisconsin. Major: Food Science. Minor: Related Fields. Thesis: Study of the Stability of Vitamin D in Milk. Major Adviser: Prof. J.J. Warthesen.

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B.S.M.T. cum laude '79, University of Wisconsin. Major: Laboratory Medicine. Minor: Biochemistry. Thesis: The Effects of Omega-3 Fatty Acids and Intravenous Lipid Emulsion on Erythrocyte Membrane Phospholipid Fatty Acid Composition. Major Adviser: Prof. M.Y. Tsai.

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B.S.N. cum laude '67, St. Olaf College; M.N. '75, University of Florida. Major: Public Health. Minor: Related Fields. Major Adviser: Prof. R.W. Ten Bensel.

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B.A. '86, University of California. Major: Biochemistry. Minor: Related Fields. Thesis: Rotational Dynamics of Phosphorescent-Labeled Cross-Bridges in Contracting Muscle Fibers. Major Adviser: Prof. D.D. Thomas.

Dwayne Leo Stenlund, St. Paul

B.S. '85, University of Minnesota. Major: Botany. Minor: Related Fields. Thesis: The Role of Vesicular-Arbuscular Mycorrhizae in Floating Mats of Typha Species in Minnesota. Major Adviser: Prof. I.D. Charvat.

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B.A. cum laude '78, Drew University. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: Structural Adjustment Assistance and its Impact on Agriculture: Focus on Latin America. Major Adviser: Prof. V.W. Ruttan.

Paul Richard Viger, Fergus Falls

B.S. '86, North Dakota State University. Major: Agronomy. Minor: Related Fields. Thesis: Corn (Zea mays) Tolerance to Acetanilide Herbicides and the Effect of the Antidote CGA-154281 on Metolachlor Metabolism. Glutathione Content, and Glutathione S-Transferase Activity in Corn. Major Adviser: Prof. D.L. Wyse.

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B.A. '87, University of California. Major: Physics. Minor: Related Fields. Major Adviser: Prof. William Zimmermann.

Jang-Horng Johnny Yu, Kaohsiung, Taiwan

B.S.E. '85, National Taiwan University. Major: Mechanics. Minor: Related Fields. Major Adviser: Prof. Roger Fosdick.

Gang Zhao, China

B.S. '84, Tsinghua University. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Solubility of NiO in Molten Carbonate Binary Mixtures. Major Adviser: Prof. D.A. Shores.

Paulo Francisco Zucula, Maputo, Mozambique

Lic. '82, Universidade Eduardo Mondlane. Major: Agronomy. Minor: Related Fields. Thesis: Evaluating the Corn Kernel Milk Line as an Indicator of When to Harvest Stay-Green Hybrids for Silage. Major Adviser: Prof. R.K. Crookston.

Master of Science

University of Minnesota, Duluth

Kathleen Mary Angstman, Inver Grove Heights

B.S. '87, University of Wisconsin. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Prof. A.M. Castellfranco.

Stephanie Baret Bosard

B.A. '85, College of St. Catherine. Major: Chemistry. Minor: Related Fields. Thesis: Nuclear Magnetic Resonance Studies on Methylmercury Compounds: Effects of Concentration, Solvent, and Temperature on Chemical Shifts and Coupling Constants. Major Advisers: Profs. Ronald Caple and D.E. Samkoll.

Yen-Phi Dang

B.S. '88, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Prof. K.L. James.

Christopher Richard Domeier

Major: Biology. Minor: Related Fields. Thesis: Commercial Minnow Traps as an Alternative to Conventional Gear for Sampling Freshwater Nonsalmonid AGE-O Sportfishes. Major Adviser: Prof. H.L. Collins.

John Joseph Hastings, Side Lake

B.S. '87, St. John's University. Major: Biology. Minor: Related Fields. Thesis: Effects of Low Sodium and High Potassium on Adrenal-Gland Indices of Mineral Balance in Herbivores. Major Adviser: Prof. D.P. Christian.

David Christopher Johnson, Kasson

B.A. '87, Gustavus Adolphus College. Major: Biology. Minor: Related Fields. Thesis: The Effects of Dietary Fiber on Mineral Regulation in *Microtus pennsylvanicus*. Major Adviser: Prof. D.P. Christian.

Mei-Yao Chao Louis, Ann Arbor, Mich.

B.S. '79, University of Michigan. Major: Biology. Minor: Related Fields. Thesis: The Forster's Tern in Minnesota: Status, Distribution, and Reproductive Success. Major Advisers: Profs. D.P. Christian and F.J. Cuthbert.

Paul Allen Mickelson, Hibbing

B.S. '86, University of Minnesota. Major: Biology. Minor: Related Fields. Thesis: Influence of Dietary Potassium on Diet Selection in Meadow Voles (*Microtus pennsylvanicus*). Major Adviser: Prof. D.P. Christian.

Li Sun, Harbin, China

Major: Chemistry. Minor: Related Fields. Thesis: Synthesis of B-Hydroxy-&-Methylene Lactones. Major Adviser: Prof. R.M. Carlson.

Ching Tsui

B.Eng. '84, Beijing Institute of Computer Science. Major: Computer Science. Minor: Related Fields. Thesis: BTMS: A Truth Maintenance System for Backward Reasoning Systems. Major Adviser: Prof. C.R. Colburn.

Master of Science in Aerospace Engineering

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B.A.E.M. '86, University of Minnesota. Major: Aerospace Engineering. Major Adviser: Prof. Hiroshi Higuchi.

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Timothy John Rice

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Master of Science in Agricultural Engineering

Mahesh Padmanabhan, Madras, Tamilnadu, India

B.Tech. '85, Indian Institute of Technology. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Power Consumption and Torque at the Combine Cylinder During the Harvest of Shelled Corn and Corn-Cornob Mixture. Major Adviser: Prof. C.E. Schertz.

John Charles Panuska, Long Lake

B.S.C.E. '85, South Dakota School of Mines and Technology. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Terrain Analysis in the Agricultural Nonpoint Source Pollution Model. Major Adviser: Prof. I.D. Moore.

Master of Science in Chemical Engineering

Mark Steven Jesh, Lakeville

B.S.Ch.E. summa cum laude '86, University of North Dakota. Major: Chemical Engineering. Minor: Related Fields. Thesis: Boron Nitride as a Protective Overcoat Material for Thin Film Magnetic Disk Media. Major Adviser: Prof. J.M Sivertsen.

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Dipl. '87, National Technical University of Athens. Major: Chemical Engineering. Minor: Related Fields. Thesis: Step Dynamics for Modeling of Crystal Surfaces. Major Adviser: Prof. K.F Jensen.

Master of Science in Civil Engineering

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B.S. '77, Sharif University. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. R.T. Leon.

Master of Science in Electrical Engineering

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B.Phys. '79, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: An Investigation of Perpendicular Magnetic Recording Using Single-Pole Type Heads. Major Adviser: Prof. J.H. Judy.

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B.E.E. '87, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: In Vitro Studies of an Oxyhemoglobin Saturation Sensor—Including Influences of Accuracy and Sensitivity. Major Adviser: Prof. J.E. Holte.

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Master of Science in Industrial Engineering

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Master of Science in Mechanical Engineering

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B.M.E. '86, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Prof. V.A. Marple.

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B.S. '86, Shanghai Jiao Tong University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Control Algorithms for Improved Two-Stage Actuation. Major Adviser: Prof. K.A. Stelson.

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B.A. magna cum laude '85, College of St. Thomas. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Finite Element Analysis of Thermal Effects in Vibration Isolators. Major Advisers: Profs. D.A. Frohrib and N.J. Zabaras.

Master of Science in Otolaryngology

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B.S. '80, M.D. '84, University of Minnesota. Major: Otolaryngology. Minor: Related Fields. Thesis: Cochlear Blood Flow: A Study of Biochemically Induced Alteration Measured by Laser Dopplometry. Major Adviser: Prof. S.K. Juhn.

Master of Social Work

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Specialist Certificate in Education

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