

MSU
1988



UNIVERSITY OF MINNESOTA

Spring 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 2 to 3 p.m., music is provided by the University of Minnesota Brass Choir, conducted by Charles Sommer. Canzona XV (1615) Giovanni Gabrieli Brandenburg Concerto No. 3 J. S. Bach Pavane (1887). Gabriel Faure
Processional	At 3 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: Doctor of Philosophy Specialist Certificate in Education Doctor of Education Master's Degrees Doctor of Musical Arts Triumphal March Edvard Grieg
The National Anthem	As soloist Rosalind Laskin steps to the microphone, the entire audience will stand and join in singing the national anthem: O, say! can you see, by the dawn's early light, What so proudly we hail'd at the twilight's last gleaming, Whose broad stripes and bright stars, thro' the perilous fight O'er 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?
Speaking for the University	Dean Robert T. Holt, Ph.D., Graduate School
Introduction of Commencement Speaker	Dean Robert T. Holt
Commencement Address	“One-Way Streets and Ties that Bind,” Dean John H. D’Arms, Ph.D., Horace H. Rackham School of Graduate Studies, University of Michigan

Musical Selection	Brass Choir Folk Song Edvard Grieg
Presentation of Candidates for Specialist and Master Degrees	Assistant Dean John Hatten, 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 Dean Patricia Swan, 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, Dean Swan will present him or her to Dean Holt.
Conferring of Degrees	Regent M. Elizabeth Craig will confer certificates and degrees upon the candidates.
Closing Remarks	Dean Robert 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. Canzon duodecimi toni (1597) Giovanni Gabrieli
Commencement Reception	The commencement reception on the plaza of Northrop Memorial Auditorium immediately follows the ceremony. All candidates and their guests are invited.

University of Minnesota Brass Choir

Charles Sommer, conductor.
 Trumpets: Michael Supple, David Haglund, Karisa Kuhn, Scott Ivester, Dan Massoth.
 Horns: James Engebretson, Rebecca Rucker, R. Scott Marvin, Theresia Perry.
 Trombones: Darian Gray, Andrew Caranicas, Keith Brand (bass).
 Baritones: Thane Sheetz, Christopher Gaukel.
 Tubas: Wayne Rice, Ben Kirby.

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 18 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 420,967 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 1988 was 54,517 on all five campuses. Enrollment was 42,571 on the Twin Cities campus, 7,535 at Duluth, 2,021 at Morris, 1,169 at Waseca, and 1,221 at Crookston.

During the 1987-1988 academic year, the University of Minnesota conferred 10,733 degrees on all its campuses: 5,881 in July, August, and December 1987 and March 1988, and 4,852 in June 1988.

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 10,000 students and offers degrees in more than 180 fields.

Candidates for Degrees

The following students have applied for graduation. The month of graduation is noted for those who have completed graduation requirements. "Graduation Pending" is noted

for students who had not completed graduation requirements at the time the book was compiled. Degrees are listed alphabetically.

Doctor of Education

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. Graduation Pending.

Doctor of Musical Arts

Isla Anne Hejny

B.A. '67, College of St. Catherine; M.A.T. '68, St. Thomas College. Major: Music. Minor: Supporting Program. Major Adviser: Prof. J.E. Anderson. November Graduate.

Robert Christopher Palmer

B.A. '76, St. John's University; M.M. '78, Peabody Conservatory of Music. Major: Music. Minor: Supporting Program. Major Adviser: Prof. P.W. Freed. November Graduate.

Doctor of Philosophy

Saado Younis Abboud, Dier Attya, Syria

B.S.Ag. '77, University of Damascus; M.S. '85, University of Minnesota. Major: Animal Science. Minor: Supporting Program. Thesis: Genetic and Phenotypic Parameters Associated with Growth of Purebred and Crossbred Lambs. Major Adviser: Prof. W.J. Boylan. October Graduate.

Mahmoud Mohamed Abdel-Aziz, Alexandria, Egypt

B.Sc. '75, M.Sc. '81, Alexandria University. Major: Animal Science. Minor: Supporting Program. Thesis: Genetic and Phenotypic Variation in Growth, Reproduction and Wool of Several Sheep Breeds and Their Crosses. Major Adviser: Prof. W.J. Boylan. Graduation Pending.

Brian Hinton Aberly, Minneapolis

B.A. '77, Trinity College; M.S. '80, University of Hartford. Major: Educational Psychology. Minor: Supporting Program. Thesis: Family Interaction and the School-Based Competence of Children with Down Syndrome. Major Adviser: Prof. V.L. Erickson. October Graduate.

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. Graduation Pending.

Mohamed Omar Achouri

Dipl. '77, Institut Agronomique et Veterinaire Hassan II. Major: Plant Pathology. Minor: Supporting Program. Thesis: The Endogonaceae of Souss-Massa, Morocco. Major Adviser: Prof. E.L. Stewart. March Graduate.

Wiktor Lucian Adamowicz, Edmonton, Canada

B.S.Ag. with distinction '81, M.S.Ag.Econ. '83, University of Alberta. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Extramarket Benefit Evaluation and Revealed Preference. Major Advisers: Profs. B.H. Senauer and T.D. Graham-Tomasi. December Graduate.

Leslie Levine Adler, Minneapolis

A.B. '77, University of Michigan; M.A. '82, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: MMPI Personality Types Among Adolescent Substance Abusers. Major Advisers: Profs. J.N. Butcher and C.L. Williams. October Graduate.

Ijaz Ahmad, Sheikhpura, Pakistan

D.V.M. '76, University of Agriculture, Lyallpur; M.S. '85, University of Minnesota. Major: Theriogenology. Minor: Supporting Program. Thesis: In vitro Induction of Capacitation and Fertilizability in Bovine Spermatozoa. Major Adviser: Prof. A.G. Hunter. March Graduate.

Iosken Tito Aighewi, Benin City, Nigeria

B.S. '82, M.S. '85, Tuskegee University. Major: Soil Science. Minor: Supporting Program. Thesis: Predicting Soil Potassium Supply and Modeling Its Availability to Alfalfa (*Medicago sativa* L.). Major Adviser: Prof. M.P. Russelle. October Graduate.

Bruce Dean Alexander, Cottage Grove

B.A. cum laude '84, St. Olaf College. Major: Chemistry. Minor: Supporting Program. Thesis: The Synthesis, Characterization, and Reactivity of Heterobimetallic Gold Hydride Cluster Complexes of Ruthenium, Osmium, Rhodium, and Iridium. Major Adviser: Prof. L.H. Pignolet. October Graduate.

Douglas James Ammerman, Somerset, Wis.

B.C.E. with high distinction '84, M.S.C.E. '86, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Behavior and Design of Frames with Semi-Rigid Composite Connections. Major Adviser: Prof. R.T. Leon. October Graduate.

Gopal P. Ananth, Madras, India

B.E. '78, Bangalore University. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Experimental and Numerical Investigations of Particulate Contamination in Disk Drives. Major Advisers: Profs. V.A. Marple and B.Y.H. Liu. January Graduate.

Kevin Lee Anderson, Forest Lake

B.A. '81, Gustavus Adolphus College; M.A. '84, University of Minnesota. Major: Geography. Minor: Supporting Program. Thesis: GJWRSM: A Geographically Integrated Water Resources Simulation Model with Application to the Twin Cities. Major Adviser: Prof. J.R. Borchert. March 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. Graduation Pending.

Robert Donald Anderson, Scandia

B.A. '71, M.A. '78, University of Minnesota. Major: Mass Communication. Minor: Supporting Program. Thesis: The Law of Defamation in American Political Campaigns: The Emerging Protection of Political Commentary, 1800-1964. Major Adviser: Prof. D.M. Gillmor. February Graduate.

Marilyn Ditzen Angle, Edina

B.A. '55, University of California; M.A. '83, College of St. Thomas. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Relationship of Perceived Competence to Subjective Well-Being, Fear of Aging, and Sex-Role Orientation in Older Women. Major Adviser: Prof. L.S. Hansen. November 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. Graduation Pending.

Margaret Isabelle Asgian, Minneapolis

B.C.E. with distinction '75, M.S.C.E. '77, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: A Numerical Study of Fluid Flow in Deformable, Naturally Fractured Reservoirs. Major Adviser: Prof. P.A. Cundall. December 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. Graduation Pending.

Abdolreza Assadi-Lamouki, Iran

B.C.E. with high distinction '82, M.S.C.E. '84, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Development of Improved Timoshenko Beam and Mindlin Plate Theories for the Analysis of Reinforced Concrete Structures Subjected to Impulsive Loads. Major Adviser: Prof. Theodor Krauthammer. October Graduate.

Peter Odion Atakpu, Eme-Ora, Nigeria

B.S. '81, Central State University; M.A. '87, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: "Involvement" as a Measure of Student Growth and Development for Persistence in Higher Education: An Application of Causal Modeling. Major Adviser: Prof. W.M. Ammentorp. Graduation Pending.

John Harold Augustine, Minneapolis

B.A. with highest honor '79, Wheaton College; M.A. '81, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: The Influence of the Reformed Doctrines of Scripture and the Fall on Elizabeth Poetics. Major Adviser: Prof. T.S. Clayton. Graduation Pending.

Mark Richard Axelrod, Philadelphia, Pa.

A.B. '69, A.M. '77, Indiana University. Major: Comparative Literature. Minor: Supporting Program. Thesis: Scapigliatura or The Politics of Style in Balzac's Le Pere Goriot, Beckett's Watt, and Cortazar's Rayuela. Major Adviser: Prof. R.W. Sousa. December 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. Graduation Pending.

Margaret Scattergood Bacon, Wareham, Mass.

B.A. '69, University of Pennsylvania; M.S.W. '72, University of Connecticut. Major: Psychology. Minor: Supporting Program. Thesis: Antecedents and Correlates of Depressive Symptoms in Middle Childhood: A Longitudinal Perspective. Major Adviser: Prof. Byron Eglend. January Graduate.

Mohammed Badraoui, Rabat, Morocco

Dipl.Ing.Agron. '81, Institut Agronomique et Veterinaire Hassan II. Major: Soil Science. Minor: Supporting Program. Thesis: Mineralogy and Potassium Availability in Soils from the Chaouia and Gharb Regions of Northwestern Morocco. Major Adviser: Prof. P.R. Bloom. October 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 on Communication and Acculturation Patterns of Korean Immigrant Employees at American Organizations. Major Adviser: Prof. R.E. Sykes. Graduation Pending.

Argiros Bailas, Thessaloniki, Greece

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

Kenneth Wayne Bailey, Smithtown, N.Y.

B.S. Ag. '81, University of Arkansas. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: The Impact of the Food Security Act of 1985 on U.S. Wheat Exports: An Econometric Analysis. Major Adviser: Prof. J.P. Houck. October Graduate.

Charleen Mary Baker, Cinnaminson, N.J.

B.S. '82, Delaware Valley College. Major: Horticulture. Minor: Supporting Program. Thesis: Cultural Factors Affecting in vitro Meristematic Development of Tulip (*Tulipa gesneriana*). Major Adviser: Prof. P.D. Ascher. Graduation Pending.

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. Graduation Pending.

Jonathan Louis Banitt

B.A. cum laude '83, St. Olaf College. Major: Chemistry. Minor: Supporting Program. Thesis: Studies Toward the Total Synthesis of the Venturicidin Aglycone. Major Adviser: Prof. T.R. Hoye. November Graduate.

Elie Kamil Barbour, Kfarshima, Lebanon

B.S. '71, M.S. '76, University of Beirut. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Evaluation of *Mycoplasma Gallisepticum* (MG) Bacterin in Chickens. Major Adviser: Prof. J.A. Newman. December Graduate.

Wenette Patrice Barden, Minnetonka

B.S. high distinction '77, M.A. '83, University of Minnesota. Major: Music. Minor: Supporting Program. Thesis: Children's Perception of Melody and Rhythm as Invariant Qualities: The Selective Attention of Children in Grades 1, 4, and 7 to Melody or Rhythm in Five-Note Sequences. Major Adviser: Prof. Stephen Schultz. December Graduate.

Gwendolyn Barnes, Marion, Iowa

B.A. '77, Central College; M.A. '78, Middlebury College. Major: Hispanic and Luso-Brazilian Literature. Minor: Education. Thesis: Sermons and the Discourse of Power: The Rhetoric of Religious Oratory in Spain (1550-1900). Major Adviser: Prof. Nicholas Spadaccini. December 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. Graduation Pending.

Gibson L. Batch, Grosse Ile, Mich.

B.S.Ch.E. with highest distinction '82, Purdue University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Crosslinking Free Radical Kinetics and the Pultrusion Processing of Composites. Major Adviser: Prof. C.W. Macosko. March 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 cracilis* Z. Major Adviser: Prof. R.L. Crawford. Graduation Pending.

John Warren Beck, Duluth

B.S.Geol. '81, University of Minnesota. Major: Geology. Minor: Supporting Program. Thesis: Implications for Early Proterozoic Tectonics and the Origin of Continental Flood Basalts, Based on Combined Trace Element and Neodymium/Strontium Isotopic Studies of Maficigneous Rocks of the Penokean Lake Superior Belt, Minnesota, Wisconsin, and Michigan. Major Adviser: Prof. V.R. Murthy. November Graduate.

Ray Robert Benkendorf, San Diego, Calif.

B.S. '62, Northern State Teachers College; M.A. '70, Los Angeles State College. Major: Speech-Communication. Minor: Supporting Program. Thesis: Ralph Nader: A Rhetorical Criticism of Epideictic Performative Discourse. Major Adviser: Prof. R.L. Scott. November Graduate.

Michael Scott Benner, Mechanicsburg, Pa.

B.S. magna cum laude '84, Shippensburg University; M.S. '86, University of Minnesota. Major: Plant Breeding. Minor: Supporting Program. Thesis: Methionine-Rich Storage Protein Accumulation in Maize (*Zea mays* L.): A Genetic and Protein/Amino Acid Analysis. Major Adviser: Prof. R.L. Phillips. December Graduate.

Kathleen Rose Berwick, River Falls, Wis.

B.S. '74, University of Wisconsin; M.S. '80, Memphis State University. Major: Education. Minor: Supporting Program. Thesis: Stress Among Student Affairs Administrators: The Relationship of Personal Characteristics and Organizational Variables to Work-Related Stress. Major Adviser: Prof. S.M. Clark. Graduation Pending.

Subramanyam Bhadriraju, Manhattan, Kan.

B.S. '81, Andhra Pradesh Agricultural University; M.S. '84, University of Minnesota. Major: Entomology. Minor: Supporting Program. Thesis: Insect Species Infesting Stored Barley in Minnesota: Their Detection, Distribution, Estimation, and Resistance to Organophosphates. Major Adviser: Prof. P.K. Harein. November Graduate.

Alexios Nikolaos Birbas

Dipl. '85, University of Patras; M.S.E.E. '86, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Fluctuation Phenomena and Noise Characterization of Si and GaAs Electron Devices. Major Adviser: Prof. Aldert van der Ziel. January Graduate.

Timothy Edward Blackwell, Detroit, Mich.

D.V.M. '77, Michigan State University; M.S. '84, University of Guelph. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Studies on the Birth Weights of Pigs. Major Adviser: Prof. A.D. Leman. January Graduate.

Joseph Christopher Bodziock

B.A. '74, St. Joseph's College; M.A. '77, University of New Hampshire. Major: English. Minor: Supporting Program. Thesis: What I Am About: Creating the Self in the Ante-Bellum Slave Narratives. Major Adviser: Prof. K.R. Bales. November Graduate.

Martha Birkett Bordwell, Coon Rapids

B.A. '70, University of Iowa; M.A. '83, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Relationship of Length of Counseling to Expectations About Length and to Satisfaction. Major Adviser: Prof. M.L. Snoke. December Graduate.

Daniel Robert Boue, Mamaroneck, N.Y.

B.A. cum laude '76, Carleton College. Major: Pathobiology. Minor: Supporting Program. Thesis: Structure/Function Studies of the Human B Lymphocyte-Restricted Differentiation Antigen CD22: Comparison with CD21 (C3d Receptor/Epstein-Barr Virus Receptor). Major Adviser: Prof. T.W. LeBien. December Graduate.

David Mallory Boush, Eugene, Ore.

B.A. '75, M.B.A. '77, University of Wisconsin. Major: Business Administration. Minor: Supporting Program. Thesis: A Categorization Model of Attitude Transfer and Its Application to Brand Extension. Major Adviser: Prof. B.J. Loken. October Graduate.

Khalid Bouzoubaa

D.V.M. '81, Institute Agronomique et Veterinaire Hassan II. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Fowl Typhoid: An Epidemiologic Study in Morocco and an Approach to Control with Membrane Proteins. Major Advisers: Profs. J.A. Newman and K.V. Nagaraja. February Graduate.

Ann Cerne Bowers

B.S. '80, University of Wisconsin. Major: Microbiology. Minor: Supporting Program. Thesis: The Molecular Characterization of a Gamma-Ray Induced Mutation Resulting in Altered HLA-B5 Gene Expression. Major Advisers: Profs. H.T. Orr and P.W. Plagemann. December Graduate.

Dawn O. Braithwaite, Morris

B.A. with honors '78, M.A. '80, California State University. Major: Speech-Communication. Minor: Supporting Program. Thesis: An Interpretive Analysis of the Way Persons with Disabilities Make Attributions and Use Impression Management Strategies in Their Communication with Able-Bodied Persons. Major Adviser: Prof. E.G. Bormann. December Graduate.

Kimberly Hawkins Brockman, Meade County, Ky.

B.A. summa cum laude '83, Western Kentucky University; M.A. '86, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Parental Perspectives Regarding the Independent Living Skills of Their Children with Disabilities. Major Adviser: Prof. R.H. Bruininks. December Graduate.

Daniel Jeffrey Brotslaw, Milwaukee, Wis.

B.S. '82, University of Wisconsin; M.S. '85, University of Missouri. Major: Plant Breeding. Minor: Supporting Program. Thesis: Crosses of Spring by Winter Wheats: Agronomic and Breadmaking Quality of Spring Wheat Progeny. Major Adviser: Prof. R.H. Busch. October Graduate.

James Edward Burgett, Lexington, Ky.

B.A. '70, Berea College; M.A. '76, University of Kentucky. Major: German. Minor: French. Thesis: The Facts of Fiction. Major Adviser: Prof. F.D. Hirschbach. December Graduate.

Jeffrey Edward Burkart, Chicago, Ill.

B.A. '71, Concordia College; M.A. '77, University of Nebraska. Major: Education. Minor: Supporting Program. Thesis: The Effects of a Developmental Kindergarten on Promotion to First and Second Grades. Major Adviser: Prof. H.S. Hansen. December Graduate.

Billy David Burke, Minneapolis

B.A. '67, M.A. '80, University of Minnesota. Major: South Asian Languages. Minor: Supporting Program. Thesis: An Analysis of Udayana's Arguments Against the Buddhist Doctrine of Ksanabhanga as Presented in the Atmatattvaviveka. Major Adviser: Prof. I.Y. Junghare. March Graduate.

Ronald Sidney Burman, LaCrosse, Wis.

B.S. '59, University of Wisconsin; A.M. '62, Indiana University. Major: American Studies. Thesis: A Study of the Dynamics of Conversion and Identity in the Life and Works of Jonathan Edwards. Major Adviser: Prof. E.M. Griffin. December Graduate.

Linda Hammer Burns

B.A. '72, Hamline University; M.A. '83, College of St. Thomas. Major: Family Social Science. Minor: Supporting Program. Thesis: Perceptions of Parenting After Infertility: A Study of Outcomes and Impacts. Major Adviser: Prof. P.C. Rosenblatt. January Graduate.

John Douglas Campbell, Ames, Iowa

B.A. '78, Wesleyan University; M.A. '83, University of Minnesota. Major: History. Minor: Supporting Program. Thesis: The Gender Division of Labor, Slave Reproduction, and the Slave Family Economy on Southern Cotton Plantations, 1800-1865. Major Adviser: Prof. R.R. Menard. October Graduate.

Fabio Canova, Carpi, Italy

Laurea '80, Università Degli Studi di Modena; M.A. '82, University of Southern California. Major: Economics. Minor: Supporting Program. Thesis: Three Essays on Seasonality in Economics. Major Adviser: Prof. C.A. Sims. October 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. Graduation Pending.

Yves Castonguay

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

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. Graduation Pending.

Shu Chang

B.A. '83, Berea College. Major: Materials Science and Engineering. Minor: Physics. Thesis: Catalytic Oxidation of GaAs Surfaces. Major Adviser: Prof. Alfonso Franciosi. October 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. Graduation Pending.

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. Dawis and D.D. Hendel. Graduation Pending.

Isabel Gonzalez Chell, St. Paul

A.B. magna cum laude '75, University of Miami. Major: Psychology. Minor: Supporting Program. Thesis: Psychological Adjustment in Adolescents with Inflammatory Bowel Disease. Major Adviser: Prof. G.R. Leon. December 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. Sobelman. Graduation Pending.

Won Jo Cheong, Korea

B.S.E. '77, Seoul National University; M.S. '79, Korea Advanced Institute of Science and Technology. Major: Chemistry. Minor: Supporting Program. Thesis: Measurements of Limiting Activity Coefficients of Homologous Series of Solutes and Their Application to the Study of Retention Mechanism in Reversed Phase Liquid Chromatography. Major Adviser: Prof. P.W. Carr. January Graduate.

Jeongwen Chiang, Taipei, Taiwan

B.S.Econ. '78, National Taiwan University. Major: Economics. Minor: Supporting Program. Thesis: Discrete/Continuous Choice and Purchase Decision Econometric Models for Consumer Demand. Major Adviser: Prof. L.F. Lee. November Graduate.

Kuang-Yueh Chiang, Kaohsiung, Taiwan

B.Med. '82, Kaohsiung Medical College. Major: Physiology. Minor: Supporting Program. Thesis: Modulation of the Effect of Gamma-Interferon on Hematopoiesis. Major Advisers: Profs. E.D. Zanjani and L.C. Lasky. Graduation Pending.

Kwon Kook Choh, Korea

B.S. magna cum laude '73, Sogang University; M.S. '77, Korea Advanced Institute of Science. Major: Electrical Engineering. Minor: Physics. Thesis: Magnetic, Micromagnetic, and Microstructural Studies on RF-Sputtered Amorphous CoZrNb Thin Films. Major Adviser: Prof. J.H. Judy. Graduation Pending.

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. Graduation Pending.

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. Graduation Pending.

Russell Paul Christensen, Hendricks

B.A. '66, Carleton College; M.A. '71, University of Minnesota. Major: German. Minor: Supporting Program. Thesis: The Surge of the Imaginary: Charting Male Subjectivity in Late-Weimar Texts. Major Adviser: Prof. T.G. Plummer. December Graduate.

Hsiang-Chi Julie Chu, Taipei, Taiwan

B.Ed. '82, National ChengChi University; M.S.Ed. '83, Southern Illinois University. Major: Education. Minor: Supporting Program. Thesis: Effects of Using On-Line Learning Aids on Facilitating Recall and Comprehension of Computer-Presented Text. Major Adviser: Prof. C.A. Carrier. January Graduate.

Randall Takashi Chun, Honolulu, Hawaii

B.A. '81, Reed College. Major: Political Science. Minor: Supporting Program. Thesis: Evangelicalism Divided: An Examination of Factors Contributing to Evangelical Political Diversity. Major Adviser: Prof. Samuel Krislov. November 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. Graduation Pending.

Carolyn Ann Cohen, Canton, Mass.

B.A. summa cum laude '82, University of Massachusetts. Major: Psychology. Minor: Supporting Program. Thesis: A Comparison of Procedures for Inducing Neonatal Undernutrition on Brain Development and Function in Young and Adult Rats. Major Advisers: Profs. T.I. Thompson and S.B. Sparber. Graduation Pending.

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: A Case Study Considering the Meanings of Dress in an American Context, 1863-1916. Major Adviser: Prof. M.R. DeLong. Graduation Pending.

Christopher Heinz Contag, New Ulm

B.S. '82, University of Minnesota. Major: Microbiology. Minor: Biochemistry. Thesis: Neuropathogenesis of Lactate Dehydrogenase-Elevating Virus: Involvement of an Endogenous Retrovirus. Major Advisers: Profs. A.T. Haase and P.G.W. Plagemann. October Graduate.

Daniel James Conway, Willmar

B.A. '79, Gustavus Adolphus College; M.A. '85, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: Erotic Arguments: Rhetoric and Sexuality in Seventeenth-Century English Stage Adaptations of Plutarch. Major Adviser: Prof. C.M. Nolte. March Graduate.

Guy Andrew Cordonier, Clarksdale, Mo.

B.S. '84, University of Missouri. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Dynamics of Forced and Unforced Catalytic Reactors. Major Advisers: Profs. L.D. Schmidt and Rutherford Aris. March Graduate.

Brian Edward Corr, Mount Prospect, Ill.

B.S. high honors '82, University of Illinois. Major: Horticulture. Minor: Plant Physiology. Thesis: Factors Influencing Growth and Flowering of *Zantedeschia elliptica* and *Z. Rehmannii*. Major Adviser: Prof. R.E. Widmer. October Graduate.

David W. Crowe, Minneapolis

B.A. cum laude '82, Luther College; M.A. '87, University of Minnesota. Major: English. Minor: Supporting Program. Thesis: Problems of Ernest Hemingway's Poetics. Major Adviser: Prof. Martin Roth. Graduation Pending.

Eva Daddesio

Lic. '78, Mait. '79, Université de la Sorbonne Nouvelle, Paris III. Major: French. Minor: Spanish. Thesis: Plasticité Graphique et Métamorphose dans l'Écriture de Maurice Blanchot: une Lecture de Thomas l'Obscur. Major Adviser: Prof. T.C. Conley. December 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 Effusion. Major Advisers: Profs. R.K. Anderson and R.W. Gibson. Graduation Pending.

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. ottoe* (Lepidoptera: Hesperidae), and Their Risk of Mortality During Prescribed Fires in Spring. Major Adviser: Prof. W.E. Miller. Graduation Pending.

Ekaterini Ioannis Daniil-Margariti, Athens, Greece

Dipl. '83, National Technical University of Athens; M.S.C.E. '85, University of Minnesota. Major: Civil Engineering. Minor: Fluid Mechanics. Thesis: The Effect of Waves on Air-Water Gas Transfer. Major Adviser: Prof. J.S. Gulliver. December Graduate.

Thomas David Daws, Cedar Falls, Iowa

B.A. with high honors '78, University of Northern Iowa. Major: Genetics. Minor: Supporting Program. Thesis: Regulation of Several Genes Involved in DNA Replication in *Escherichia coli*. Major Adviser: Prof. J.A. Fuchs. October Graduate.

Geert Adolf De Veirman, Antwerp, Belgium

Ing. '84, Katholieke Universiteit Leuven. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Design of Bipolar Monolithic Video-Frequency Filters. Major Adviser: Prof. Rolf Schaumann. November Graduate.

Abdelhafid Debbarh, 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. Graduation Pending.

David Mark Dehnel

B.A. '78, University of Wisconsin; M.A. '81, University of Minnesota. Major: Political Science. Minor: Supporting Program. Thesis: The Policy Agenda of the Supreme Court in Three Partisan Eras. Major Adviser: Prof. Samuel Krislov. January Graduate.

Sister 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. Graduation Pending.

James Matthew Delehanty, Minneapolis

B.A. '77, University of Minnesota; M.A. '79, University of Chicago. Major: Geography. Minor: Supporting Program. Thesis: The Northward Expansion of the Farming Frontier in Twentieth Century Central Niger. Major Adviser: Prof. P.W. Porter. December Graduate.

Robert Claude delMas, Minneapolis

B.A. '79, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effect of Activity-Based Instruction and Directed Evaluation of Predictions on Misconceptions of Probability. Major Adviser: Prof. W.M. Bart. December Graduate.

Zhi Deng, Nanchang, China

M.S. '85, University of Minnesota. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Active Corrosion Protection of Passive Metals Using Electroactive Films. Major Adviser: Prof. W.H. Smyrl. Graduation Pending.

Mark Charles Dienhart, St. Paul

B.A. summa cum laude '75, College of St. Thomas; M.A. '78, University of Minnesota. Major: Education. Minor: Mass Communication. Thesis: Managing Uncertainty: The Application of Enrollment Management in a Private Liberal Arts College, 1973-83. Major Adviser: Prof. S.M. Clark. December Graduate.

Rochelle Ellen Diers, Eden Prairie

B.A. '75, M.A. '80, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Student Financial Aid at the University of Minnesota, Twin Cities: A Descriptive Case Study. Major Adviser: Prof. W.M. Ammentorp. February Graduate.

Patience Frances Dirkx, Marshfield, Wis.

B.S. Med. Tech. '63, Marquette University; M.A. '86, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Personality Predictors of Individual Differences in Adjustment to Multiple Sclerosis. Major Advisers: Profs. R.V. Dawis and T.I. Thompson. December 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-Branched Agent in the Poinsettia. Major Adviser: Prof. H.F. Wilkins. Graduation Pending.

Katherine Mary Doliszny, St. Catherines, Ontario, Canada

B.S. 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. Graduation Pending.

David Curtis Dollahite, Fairfax, Calif.

B.A. '83, M.S. '85, Brigham Young University. Major: Family Social Science. Minor: Supporting Program. Thesis: Familial Support Resources and Individual Coping Efforts in Economically Stressed Farm Men and Women. Major Adviser: Prof. K.D. Rettig. December Graduate.

Stanton Baldwin Dotson, Mattoon, Ill.

B.S. with highest distinction '84, Colorado State University; M.S. '86, University of Minnesota. Major: Genetics. Minor: Biochemistry. Thesis: Purification and Characterization of Aspartate Kinase in Wild-Type Corn and Lysine Plus Threonine Resistant Mutants. Major Adviser: Prof. D.A. Somers. February Graduate.

Thomas C. Eagle, Knoxville, Tenn.

B.S. Ag. with honors '75, University of Tennessee. Major: Wildlife. Minor: Supporting Program. Thesis: Movement Patterns of Mink in the Prairie Pothole Region of North Dakota. Major Adviser: Prof. D.B. Siniff. March Graduate.

Teresa Lynn Ebert, Oregon

B.A. '73, M.A. '75, University of Oregon. Major: American Studies. Thesis: Patriarchy, Ideology, Subjectivity: Towards a Theory of Feminist Critical Cultural Studies. Major Adviser: Prof. D.W. Noble. October Graduate.

Willie James Edwards

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. Graduation Pending.

Gunnlaug H. Einarsdottir, Reykjavik, Iceland

Major: Chemistry. Minor: Supporting Program. Thesis: Electron Transfer Properties of Salicylate Hydroxylase from *Pseudomonas cepacia* and Anthranilate Hydroxylase from *Trichosporon cutaneum*. Major Adviser: Prof. M.T. Stankovich. December Graduate.

Nader Abdel-Aziz El-Sanhurry

B.S. '77, Alexandria University; M.A. '83, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: Effects of Freedom to Control a Science Learning Sequence of Computer-Based Instruction on Achievement and Attitudes of Junior High School Formal and Non-Formal Reasoners. Major Adviser: Prof. E.D. Gennaro. Graduation Pending.

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. Graduation Pending.

Nancy Carolyn Erickson, Roseau

B.A. summa cum laude '70, Concordia College; M.A. '73, University of Minnesota. Major: German. Minor: Supporting Program. Thesis: A Contextual Analysis of the Cooking Vocabulary in Gunter Grass's *Der Butt* with Regard to the Novel's Thematic Structure with Concordance. Major Adviser: Prof. L.L. Duroche. Graduation Pending.

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. Graduation Pending.

James Marilyn 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. Graduation Pending.

Marco Antonio Espinosa, Mexico City, Mexico

Lic. '81, Instituto Tecnológico Autónomo de México; M.A. '83, University of Minnesota. Major: Economics. Minor: Supporting Program. Thesis: Multiple Reserve Requirements in a Small Open Economy. Major Adviser: Prof. Neil Wallace. October Graduate.

David Alan Fabry, Green Bay, Wis.

B.A. '81, M.A. '84, University of Minnesota. Major: Communication Disorders. Minor: Supporting Program. Thesis: Evaluation of an Articulation Index-Based Model for Assessing Adaptive Frequency Response Hearing Aids. Major Adviser: Prof. D.J. Van Tasell. November 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. Graduation Pending.

David John Fast, Cambridge

B.A. magna cum laude '83, Concordia College. Major: Microbiology. Minor: Supporting Program. Thesis: Role of Toxic Shock Syndrome Toxin-1 (TSST-1) in the Non-Purulent Response to *Staphylococcus aureus* Infecting Surgical Wounds: Inhibitory Effect of TSST-1 on Human Neutrophil Chemotactic Function. Major Adviser: Prof. R.D. Nelson. March Graduate.

Oluremi Eric Fayemi, Nigeria

D.V.M. '72, University of Ibadan; M.S. '78, University of Minnesota. Major: Theriogenology. Minor: Supporting Program. Thesis: Studies on Boar Infertility Associated with Sperm Antibodies. Major Adviser: Prof. H.S. Joo. October Graduate.

Francisco Javier Fernandez, St. Paul

Dipl. Ing. '82, Rheinisch-Westfälische Technische Hochschule Aachen. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Linear CMOS Transconductors for Analog Applications. Major Adviser: Prof. J.E. Holte. October Graduate.

James Michael Fink, St. Louis Park

B.S. summa cum laude '83, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: Characterization of Lipopolysaccharide Mutants of *Myxococcus xanthus*. Major Adviser: Prof. J.F. Zissler. October 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. Graduation Pending.

Barry Brent Fish, Big Springs, Tex.

B.S.Ch.E. '83, Texas Tech University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: A Study of Moving Bed and Simulated Moving Bed Separators and Reactors. Major Adviser: Prof. R.W. Carr. December Graduate.

Lance Alexander Fisher, Sydney, Australia

B.A. '76, MacQuarie University. Major: Economics. Minor: Business Administration. Thesis: Essays on the Term Structure of Interest Rates. Major Adviser: Prof. E.M. Foster. December Graduate.

Kelly Khan Frame, Blue Mounds, Wis.

B.S.Ch.E. with distinction '79, University of Wisconsin. Major: Chemical Engineering. Minor: Supporting Program. Thesis: A Kinetic Study of Hybridoma Growth and Monoclonal Antibody Production in a CSTR. Major Adviser: Prof. W.S. Hu. February Graduate.

Gregory Alfred Frascadore, Colorado Spring, Colo.

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

Leta Jane Frazier, Rogers

B.A. cum laude '59, Tennessee Temple College; M.A.T. '61, University of Tennessee; M.A. '80, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: A Contextual, Content Analysis of the Rhetorical Visions in Parenting, Self-Help Books (1940-1979). Major Adviser: Prof. E.G. Bormann. October Graduate.

Patricia Ann Frazier

B.A. '79, St. Olaf College; M.A. '84, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Attributions and Adjustment to Rape. Major Adviser: Prof. Eugene Borgida. December Graduate.

Elizabeth Haanes Fritz, St. Paul

B.S. with distinction '80, University of Michigan. Major: Microbiology. Minor: Supporting Program. Thesis: Studies on the Molecular Evolution of Group A Streptococcal M Proteins. Major Adviser: Prof. P.P. Cleary. February 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. Graduation Pending.

Curman Louis Gaines, Woodbury

B.A. Elem. Ed. '63, M.Ed. '72, Southern University. Major: Educational Administration. Minor: Supporting Program. Thesis: Funding and Service Delivery Among Intermediate School Districts, Special Education Cooperatives, and Single Districts in Providing Low Incidence Special Education Programs in Minnesota. Major Adviser: Prof. V.D. Mueller. January Graduate.

Wenjie Gao, China

Major: Mathematics. Minor: Internal Supporting Program. Thesis: Boundary Value Problems on Lipschitz Domains for General Elliptic Systems. Major Adviser: Prof. E.B. Fabes. December Graduate.

Kevin Lee Garber, Kettering, Ohio

B.S. '82, University of Cincinnati. Major: Chemistry. Minor: Supporting Program. Thesis: Electrochemical and Spectroscopic Characterization of [Rh₂(dimen)₂(dppm)₂](PF₆)₂: A Survey of the Reactivity of an Electrogenerated d⁷-d⁸ Radical. Major Adviser: Prof. J.F. Evans. January Graduate.

John Miles Gay, Broadus, Mont.

B.S.M.E. '73, University of Washington; D.V.M. '78, Washington State University. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: The Effects of Subclinical Paratuberculosis in Dairy Cattle: An Epidemiological Study. Major Advisers: Profs. D.M. Sherman and S.L. Diesch. December 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. Graduation Pending.

Robert Stanley Goodman, Northbrook, Ill.

B.S. '67, University of Wisconsin; M.A. '71, University of Iowa. Major: Business Administration. Minor: Supporting Program. Thesis: The Determinants of Banks' Success and Failure in a Changing Regulatory Environment: Substantive, Methodological, and Statistical Implications for Corporate Strategy. Major Adviser: Prof. W.B. Erickson. December Graduate.

Stephen Charles Goshorn, Ringwood, N.J.

B.S. '83, Rutgers University. Major: Microbiology. Minor: Supporting Program. Thesis: A Molecular Analysis of Streptococcal Pyrogenic Exotoxin Type C. Major Adviser: Prof. P.M. Schlievert. January Graduate.

Kenneth D. Gossett, 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. Major Adviser: Prof. R.F. Weatherman. Graduation Pending.

James John Griesgraber, St. Paul

B.A. '69, M.A. '72, Spec. Cert. '77, St. Thomas College. Major: Educational Administration. Minor: Supporting Program. Thesis: Job Satisfaction and Role Clarity of the Catholic Elementary School Principal. Major Adviser: Prof. N.C. Nickerson. October Graduate.

Patrick R. Gruber, 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. Graduation Pending.

Teresa Ann Gruber, St. Paul

B.S. Ag. with high distinction '83, University of Nebraska; M.S. '86, University of Minnesota. Major: Plant Breeding. Minor: Supporting Program. Thesis: Relation of Early Vigor S1 Lines with Agronomic Performance in an Elite Population of Maize. Major Adviser: Prof. J.L. Geadelmann. March 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. Graduation Pending.

Chad Daniel Hagen, Wells

B.S. with distinction '79, M.S. '82, University of Minnesota. Major: Animal Science. Minor: Animal Physiology. Thesis: Alfalfa Haylage for Gestating Swine. Major Advisers: Profs. S.G. Cornelius and R.L. Moser. October Graduate.

Arturo Hale, Mexico

Ing. Quim. '82, Universidad Autonoma Metropolitana. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Epoxies Used in the Encapsulation of Integrated Circuits: Chemistry, Rheology, Glass Transition, and Reactive Processing. Major Adviser: Prof. C.W. Macosko. October Graduate.

John Wendell Hall, Orem, Utah

B.A. cum laude '76, M.A. '79, Brigham Young University. Major: Education. Minor: Spanish. Thesis: The Effects of Visual, Subliminal Cues on the Scores of Computerized Vocabulary Exercises of First-Year French and Spanish Students at the University Level. Major Adviser: Prof. H.L. Jorstad. March 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. Graduation Pending.

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. Graduation Pending.

Hwataik Han, Korea

B.S.E. '80, M.S.E. '82, Seoul National University. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Double Diffusive Natural Convection in a Vertical Rectangular Enclosure. Major Adviser: Prof. T.H. Kuehn. December Graduate.

David Roy Hanson, Roseville

B.Phys. with distinction '83, University of Minnesota. Major: Physics. Minor: Supporting Program. Thesis: Laboratory Studies of Stratospheric Trace Constituents: Ozone and Nitric Acid. Major Adviser: Prof. Konrad Mauersberger. January Graduate.

Martha Jane Harding, London, Ontario, Canada

D.V.M. with honors '82, University of Guelph. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Molecular Pathogenesis of Porcine Parvovirus in Immune Cells. Major Advisers: Profs. T.W. Molitor and S.K. Maheswaran. Graduation Pending.

Kevin Michael Harrington, St. Paul

B.B.A. cum laude '79, Loyola University; M.Ed. '84, University of Houston. Major: Educational Psychology. Minor: Supporting Program. Thesis: Personal Characteristics of Diplomates Defined as Master Therapists. Major Adviser: Prof. T.M. Skovholt. December Graduate.

John Thomas Harty, Roseville

B.S. '80, University of Minnesota. Major: Microbiology. Minor: Supporting Program. Thesis: Humoral Immunity to the Lactate Dehydrogenase-Elevating Virus in Persistent and Pathogenic Infections. Major Adviser: Prof. P.G. Plagemann. March 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. Graduation Pending.

Elizabeth Sharon Hayenga

B.A. '65, M.A. '68, University of Denver. Major: American Studies. Thesis: Dieting Through the Decades: A Comparative Study of Weight Reduction in America as Depicted in Popular Literature and Books from 1940 to the Late 1980's. Major Advisers: Profs. D.W. Noble and M.Q. Sibley. December Graduate.

Ellen Merrill Heath

B.A. high honors '73, William Smith College; M.S. '75, University of Delaware. Major: Genetics. Minor: Supporting Program. Thesis: Repression of Transposable Element Activity in *Drosophila melanogaster*. Major Adviser: Prof. M.J. Simmons. December Graduate.

Mohsen Abdel Fattah Hedaya, Tanta, Egypt

B.S. '80, University of Tanta. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Zidovudine Pharmacokinetics and Interaction Studies Probenecid. Major Adviser: Prof. R.J. Sawchuk. Graduation Pending.

James Paul Held, Eagan

B.Ch.E. with distinction '72, M.S. '84, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Extending the Capabilities of Database Management Systems to Support the Needs of Expert Systems. Major Adviser: Prof. J.V. Carlis. November Graduate.

Paula Jo Herald, Knoxville, Tenn.

B.S. '80, M.S. '82, University of Tennessee. Major: Food Science. Minor: Supporting Program. Thesis: Characterization of the Attachment of *Pseudomonas fragi* ATCC 4973 to a Food Contact Surface. Major Adviser: Prof. E.A. Zottola. November 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. Graduation Pending.

Choon Lin Ho, Singapore

B.S. 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. Graduation Pending.

Georgios Marios Horsch, Greece

Dipl. '80, National and Capodistrian University of Athens; M.S. '82, Rutgers University. Major: Civil Engineering. Minor: Supporting Program. Thesis: Cooling-Induced Convective Littoral Currents in Lakes. Major Adviser: Prof. H.G. Stefan. December Graduate.

Kathleen Ryan Huyen

B.S. '60, College of St. Scholastica; M.A. '72, Spec. Cert. '82, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: A Comparison of the Achievement and Academic Self-Concept of Transitional and Traditional First-Grade Students. Major Adviser: Prof. N.C. Nickerson. October Graduate.

Shyh-Yuan Hwang, Taipei, Taiwan

B.S.E. '80, National Taiwan University; M.S. '84, University of Maryland. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Surface Chemistry of C-N Bonds on Transition Metals. Major Adviser: Prof. L.D. Schmidt. February Graduate.

Ruth Marie Hyland-Forsythe

B.A. cum laude '73, St. Olaf College; M.A. '78, University of Minnesota. Major: Japanese. Minor: Supporting Program. Thesis: Songs of Longing: The Art of Hayashi Fumiko. Major Adviser: Prof. E.M. Copeland. November Graduate.

Maria Ijeoma, Umuahia, Nigeria

B.A. '78, M.A. '81, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Relationships Between Educational Environments and Institutional Goals in Institutions of Higher Education. Major Adviser: Prof. V.L. Hendrix. Graduation Pending.

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. Graduation Pending.

Selahattin Imrohorglu, Turkey

B.S. '80, Middle East Technical University. Major: Economics. Minor: Supporting Program. Thesis: Two Essays on Inflation. Major Adviser: Prof. T.J. Sargent. December Graduate.

Neal Roger Iverson

B.S. with distinction '83, Iowa State University. Major: Geology. Minor: Supporting Program. Thesis: Theoretical and Experimental Analyses of Glacial Abrasion and Quarrying. Major Adviser: Prof. R.L. Hooke. February Graduate.

Douglas Burtner Jacoby, Boston, Mass.

B.A. magna cum laude '82, Kenyon College. Major: Biochemistry. Minor: Supporting Program. Thesis: Characterization of the Thyroid Hormone and Carbohydrate Regulation of Spot 14 Gene Expression in Rat Liver. Major Adviser: Prof. H.C. Towle. October Graduate.

Ji-Won Jang, Seoul, Korea

B.E. '80, Korea University; M.S.Met. '84, University of Illinois. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Wear Behaviors of Martensite and Ferrite in High-Chromium Steel Balls in Wet Grinding. Major Adviser: Prof. Iwao Iwasaki. December 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. Graduation Pending.

Scott Robert Jeffrey

B.S. Ag. '82, M.S. '84, University of Guelph. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: Future Performance and Structure of Upper Midwestern Dairy Farms: A Stochastic Simulation Analysis. Major Adviser: Prof. V.R. Eidman. November Graduate.

Tao Jiang, Lanzhou, China

B.C.Sc. '84, University of Science and Technology of China. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Efficient Simulations and Complexity Results Concerning Regular Networks of Finite-State Machines and Logic Gates. Major Adviser: Prof. O.H. Ibarra. January Graduate.

Helgi Johannesson, Reykjavik, Iceland

B.S. '83, University of Iceland; M.S.C.E. '85, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Theory of River Meanders. Major Adviser: Prof. Gary Parker. November 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. Graduation Pending.

Mark Kevin Jones, Media, Pa.

B.A. '83, Oberlin College. Major: Physics. Minor: Supporting Program. Thesis: Pion Elastic Scattering and the $(\pi, \pi' p)$ Reaction on ^4He in the Delta 3,3 Region. Major Adviser: Prof. D.K. Dehnhard. Graduation Pending.

Kosasi Kadir

Ins. '71, Mag. '81, Institut Pertanian Bogor. Major: Forestry. Minor: Supporting Program. Thesis: Effects of Air Velocity on the Drying of One-Inch-Thick Red Oak and the Dependence of Equilibrium Moisture Content on Sample Geometry. Major Adviser: Prof. R.W. Erickson. October Graduate.

Michael Arthur Kahlow, Mayville, Wis.

B.A. magna cum laude '81, Lawrence University. Major: Chemistry. Minor: Supporting Program. Thesis: Subpicosecond Solvation Dynamics in Polar Solvents. Major Adviser: Prof. P.F. Barbara. December 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. Graduation Pending.

Chang Wook Kang, Seoul, Korea

B.E. '81, Hanyang University; B.A. '84, M.S. '88, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: Recursive Residuals as Diagnostics for Nonlinear Regression Models. Major Adviser: Prof. D.M. Hawkins. Graduation Pending.

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 Reactions in Solution. Major Adviser: Prof. P.F. Barbara. Graduation Pending.

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. Graduation Pending.

Todd Arthur Kappauf, Rochester

B.M.E. '80, M.S.M.E. '85, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Production of Hydrogen and Sulfur from Hydrogen Sulfide in a High Temperature Solar Furnace. Major Adviser: Prof. E.A. Fletcher. December Graduate.

Steven Alexander Katovich, Wautoma, Wis.

B.S. '80, University of Illinois; M.S. '84, University of Wyoming. Major: Entomology. Minor: Supporting Program. Thesis: Impact of Cone and Seed Insects in Red Pine Seed Orchards. Major Adviser: Prof. H.M. Kulman. December Graduate.

James Michael Kaufmann, Burnsville

B.A. '72, Pennsylvania State University; M.A. '76, St. Bonaventure University. Major: English. Minor: Supporting Program. Thesis: The Rhetoric of Medical Writing: Case Studies of Physicians Writing for Journal Publication. Major Adviser: Prof. R.L. Brown, Jr. November 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. Graduation Pending.

Laura Sue Keller, St. Paul

B.A. summa cum laude '80, St. Olaf College. Major: Psychology. Minor: Supporting Program. Thesis: Characteristics and Correlates of the Revised Minnesota Multiphasic Personality Inventory (MMPI-2) in a Chronic Pain Patient Population. Major Adviser: Prof. J.N. Butcher. December Graduate.

Lauren Marie Keller, Anoka

B.S. summa cum laude '82, College of St. Thomas; M.A. '84, University of Minnesota. Major: Industrial Relations. Minor: Supporting Program. Thesis: Genetic and Environmental Factors Associated with Work Values. Major Adviser: Prof. R.D. Arvey. December Graduate.

Ellen Jane Kennedy, Minneapolis

A.B. '69, University of Michigan; M.A. '71, Northern Michigan University; M.A. '86, University of Minnesota. Major: Business Administration. Minor: Sociology. Thesis: The Socialization of Women into the Industrial Sales Force: A Network Approach. Major Adviser: Prof. R.C. Cardozo. December Graduate.

Marilyn Anne Kerns, St. Paul

B.A. '68, Carleton College; M.A.T. '70, Vanderbilt University. Major: Educational Administration. Minor: Supporting Program. Thesis: A Community Education Needs Assessment Model: Correlations Between School District Demographic Data and Perceived Community Needs. Major Adviser: Prof. S.H. Popper. Graduation Pending.

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. Graduation Pending.

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. Graduation Pending.

Jungho Kim

B.S. '82, University of California; M.S.M.E. '87, University of Minnesota. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: The Effects of Concave Curvature, Free-Stream Turbulence, and Free-Stream Acceleration on Heated Transitional Boundary Layers. Major Adviser: Prof. T.W. Simon. Graduation Pending.

Young Ho Kim, Seoul, Korea

B.S. '82, Yonsei University; M.S. '85, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Thesis: Low Temperature Silicon Sputter Deposition Epitaxy and Sputter Deposition of High-Tc Superconducting Ceramics. Major Adviser: Prof. G.K. Wehner. Graduation Pending.

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. Graduation Pending.

Victor James Klimoski, St. Paul

B.A. '67, St. John's University; M.S. '81, St. Cloud State University. Major: Education. Minor: Supporting Program. Thesis: The Relationship Between Participation in Continuing Professional Education for Clergy and Perceived Role Stress and Role Satisfaction. Major Adviser: Prof. H.G. Copeland. January 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. Graduation Pending.

Govind Prasad Koirala, Dumja, Nepal

M.A. '78, University of 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. Graduation Pending.

Solvina Konrads, Iceland

B.A. '83, University of Iceland; M.A. '85, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Cross-Validation of Cross-Cultural Vocational Interests of Lawyers and Engineers Measured by Linguistically Equivalent Forms of the Strong-Campbell Interest Inventory. Major Adviser: Prof. R.V. Dawis. Graduation Pending.

Paul Francis Korkowski

B.A. summa cum laude '84, College of St. Thomas. Major: Chemistry. Minor: Supporting Program. Thesis: Synthetic and Mechanistic Studies of Reactions of Organometallic Carbene Complexes with Enynes. Major Adviser: Prof. T.R. Hoye. Graduation Pending.

Steven Charles Krantz, Minneapolis

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

David Harris Kretchmar, Milwaukee, Wis.

B.S. '80, University of Wisconsin. Major: Animal Science. Minor: Biochemistry. Thesis: Effect of Dietary Beta-Agonist on Calcium-Activated Proteinase and Cathepsin Activities in Ovine Muscle Tissue. Major Advisers: Profs. W.R. Dayton and M.R. Hathaway. December Graduate.

John Milo Kruger, Bloomington

B.A. summa cum laude '77, Concordia College; D.V.M. '81, University of Minnesota. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Feline Lower Urinary Tract Disease: Etiologic Role of Cell-Associated Herpes Virus. Major Adviser: Prof. C.A. Osborne. March Graduate.

Roger James Kuhns, Minneapolis

B.S. '77, Beloit College; M.S. '80, Washington State University. Major: Geology. Minor: Supporting Program. Thesis: The Golden Giant Deposit, Hemlo, Ontario: Geologic and Geochemical Relationships Between Mineralization, Alteration, Metamorphism, Magmatism, and Tectonism. Major Adviser: Prof. F.J. Sawkins. November Graduate.

Vijaya M.S. Kumar

B.Tech. '78, Indian Institute of Technology. Major: Civil Engineering. Minor: Supporting Program. Thesis: Dynamic Modelling and Pricing Strategy Evaluation in Intercity Air Travel. Major Adviser: Prof. Y.J. Stephanedes. November Graduate.

Wan Chu Kung, China

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

Lorraine Patricia Kvistberg, Minneapolis

B.S. with distinction '71, M.A. '79, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Comparison of Structure of Knowledge and Thinking Processes in Relation to Performance Differences Among Experts, Intermediates, and Novices Solving Housing Selection Problems. Major Adviser: Prof. R.G. Thomas. Graduation Pending.

Terry G. Langan, Oxford, Ohio

B.A. egregia cum laude '80, St. John's University. Major: Economics. Minor: Supporting Program. Thesis: Inter-Firm Vertical Bundling Arrangements. Major Adviser: Prof. H.D. Mohring. October Graduate.

David Victor Lapakko, Minneapolis

B.A. '72, Macalester College; M.A. '82, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: Beliefs About "Good" Public Speaking: A Study of Special Theories of Communication and the Degree to Which They Are Shared. Major Adviser: Prof. R.L. Scott. October Graduate.

Brett 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. Graduation Pending.

Daniel Patrick Lavin, Claymont, Del.

B.A., B.S.Ch.E. cum laude '80, Bucknell University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Flow Cytometric Analysis of Particle Uptake of a Suspension-Feeding Protozoan. Major Advisers: Profs. A.G. Fredrickson and Friedrich Srien. Graduation Pending.

Quang Canh Le

B.E.E. '81, M.S.E.E. '83, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Correlation of Yield and Reliability. Major Adviser: Prof. A.A. Tuszynski. February Graduate.

Susan Gail Leach, St. Paul

B.S.N. '77, M.N. '82, University of Kansas. Major: Family Social Science. Minor: Supporting Program. Thesis: Comparison of Families with High and Low Drug Using Adolescents: A Family Interaction Study. Major Adviser: Prof. W.J. Doherty. Graduation Pending.

Richard Owen Leder, Minneapolis

B.A. '79, Yale College. Major: Biochemistry. Minor: Supporting Program. Thesis: Diffusion-Enhanced Energy Transfer Studies of Bacteriorhodopsin from Halobacterium halobium. Major Adviser: Prof. D.D. Thomas. November 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. Graduation Pending.

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. Graduation Pending.

Gaye K. Lehman

B.A. '82, Carthage College. Major: Chemistry. Minor: Supporting Program. Thesis: Electroorganic Reductions at High Negative Potentials and Ammonium-Mercury Formation. Major Adviser: Prof. Esther Kariv-Miller. Graduation Pending.

Lisa Marie Letcher-Glebo, Miami, Fla.

M.S. '85, University of Southern Florida. Major: Communication Disorders. Minor: Supporting Program. Thesis: The Career Maturity of Adolescents with Clefts. Major Adviser: Prof. C.D. Starr. January 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 and in Construction of a Genetic Linkage Map for Tuber-Bearing Solanum. Major Adviser: Prof. S.L. Desborough. Graduation Pending.

Patricia Susan Lindberg, Minneapolis

B.A. '82, M.A. '85, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Investigation of Female Identity and cSelf-Esteem. Major Adviser: Prof. L.S. Hansen. Graduation Pending.

Chih Hsin Liu, Rochester

B.S.E.E. '72, Northeastern University; M.S.E.E. '75, Massachusetts Institute of Technology. Major: Electrical Engineering. Minor: Supporting Program. Thesis: New Approaches to Pole Assignment via Generalized Linear Quadratic Regulator Designs. Major Adviser: Prof. E.B. Lee. November Graduate.

Lee-Chin Hsu Liu

B.A. '69, National Chung-Hsing University. Major: Computer and Information Science. Minor: Supporting Program. Thesis: Detail Routers for Digital System. Major Adviser: Prof. D.H. Du. Graduation Pending.

James Allen Long, St. Louis, Mo.

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

Hang Lou, China

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

James Albert Louisell, Duluth

B.Math. with distinction '80, University of Minnesota. Major: Mathematics. Minor: Electrical Engineering. Thesis: Differential-Delay Systems: A Stability Analysis for Several Classes of Delay. Major Adviser: Prof. Lawrence Markus. March Graduate.

Hsiang-Hwa Lu

B.S. '71, Chung Cheng Institute of Technology; M.S. '81, Northwestern University. Major: Civil Engineering. Minor: Supporting Program. Thesis: Plastic Design of Single-Span and Multi-Span Gable Frame for Optimization. Major Adviser: Prof. T.V. Galambos. November Graduate.

Karen V. Lundstrom, Fargo, N.D.

B.S. with honor '65, M.S. '71, North Dakota State University. Major: Education. Minor: Supporting Program. Thesis: The Relationship Between School Context Variables and the Continuation of a Planned Curriculum Change. Major Adviser: Prof. R.D. Kimpston. December 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. Durham. Graduation Pending.

Robert Stewart MacLennan

A.B. '63, Occidental College. Major: Ancient Studies. Thesis: Four Early Christian Texts on Jews and Judaism in the Second Century C.E. Major Advisers: Profs. T.G. Stavrou and A.T. Kraabel. December Graduate.

Scott A. Magnuson-Martinson, Minneapolis

B.A. magna cum laude '77, Augsburg College; M.A. '81, University of Minnesota. Major: Sociology. Minor: Supporting Program. Thesis: Self-Esteem and Marital Satisfaction in Spouses Experiencing the Transition to Parenthood: The Role of Their Parents in Socialization and Consensual Validation. Major Adviser: Prof. D.G. McTavish. February 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. Graduation Pending.

Blanca Martinez

Quim.Farmac. '74, Universidad de Antioquia. Major: Pharmacognosy. Minor: Supporting Program. Thesis: Artemisinin Production in Artemisia annua Tissue Cultures. Major Adviser: Prof. E.J. Staba. November Graduate.

Denise Antona Marvinney, Franklin Lakes, N.J.

A.B. cum laude '76, Brandeis University. Major: Child Psychology. Minor: Supporting Program. Thesis: Sibling Relationships in Middle Childhood: Implications for Social-Emotional Development. Major Adviser: Prof. L.A. Sroufe. March Graduate.

Debra Pearce McCall, Minneapolis

B.A. magna cum laude '80, University of Pennsylvania; M.S. '83, University of Wisconsin. Major: Family Social Science. Minor: Supporting Program. Thesis: Daughters' and Parents' Perceptions of Their Postdivorce/Remarried Systems: Family Relationships, Family Boundaries, and the Ritual of the Daughters' Weddings. Major Adviser: Prof. P.G. Boss. December 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. Graduation Pending.

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. Graduation Pending.

Jeffrey Thomas McPhee, Bay City, Mich.

B.S. '81, Central Michigan University; M.S. '83, Purdue University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Differences in Emotional Expression Between Children with Febrile Seizures and Normal Controls. Major Adviser: Prof. Byron Egeland. January Graduate.

William Ward Merrill, Syosset, N.Y.

B.S.Ch.E. '83, M.S.Ch.E. '83, Massachusetts Institute of Technology. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Relaxation Dynamics of Entangled Polymers in Fields and at Interfaces. Major Adviser: Prof. M.V. Tirrell. December Graduate.

Louise Brearley Messer, Minneapolis

B.D.Sc. '63, M.D.Sc. '75, University of Melbourne. Major: Nutrition. Minor: Supporting Program. Thesis: Development of an in vitro System for Molar Mineralization. Major Adviser: Prof. P.B. Swan. November Graduate.

Eva-Maria Metcalf

Filkand '69, Stockholm University; M.A. '82, University of Minnesota. Major: German. Minor: Supporting Program. Thesis: Children in the Prime of Their Lives: Children and Childhood in the Books of Christine Nostlinger. Major Adviser: Prof. G.H. Weiss. March Graduate.

Ruth Kraemer Meyer, Melrose

B.A. '65, B.S. '73, University of Minnesota; M.B.A. '81, St. Cloud State College. Major: Business Administration. Minor: Supporting Program. Thesis: Contributions to the Construction of Exact D-Optimal Experimental Designs. Major Adviser: Prof. C.J. Nachtsheim. March Graduate.

Martha Elizabeth Milk

B.A. honors '71, Whittier College; M.P.H. '76, University of North Carolina; M.A. '76, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: A Delphic Perspective for the Year 2010 on Continuing Education for Public Health Educators. Major Adviser: Prof. R.A. Willie. March Graduate.

Howard James Miller, Minneapolis

B.F.A. '73, Kent State University; M.A. '76, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: Acting Together: The Effects of Shared Creative Activities on the Integration of Students with Disabilities into the Mainstream. Major Adviser: Prof. J.E. Rynders. Graduation Pending.

Margaret Mary Miller, Buffalo, N.Y.

B.A. summa cum laude '82, State University of New York. Major: Child Psychology. Minor: Supporting Program. Thesis: Intimacy Between Adolescent Girls and Their Mothers: Grade-Related Differences in Self-Disclosure and Relations to Psychosocial Development Status. Major Adviser: Prof. W.A. Collins. December Graduate.

Michaelene Pfeifer Mirr, Eau Claire, Wis.

B.S.N. cum laude '77, M.S. '81, University of Wisconsin. Major: Nursing. Minor: Neuroscience. Thesis: Decisions Made by Family Members of Patients with Severe Head Injury. Major Adviser: Prof. Mariah Snyder. November Graduate.

Susan Diemert Moch, Eau Claire, Wis.

B.A. '71, College of St. Scholastica; M.S. '73, University of Colorado. Major: Nursing. Minor: Educational Psychology. Thesis: Health in Illness: Experiences with Breast Cancer. Major Adviser: Prof. M.A. Newman. November Graduate.

Russell Lawrence Morris

B.A. '80, Luther College; M.S. '82, University of Minnesota. Major: Chemistry. Minor: Supporting Program. Thesis: Oscillatory Electric Birefringence Properties of Polymer Solutions. Major Adviser: Prof. T.P. Lodge. December Graduate.

Rosalind Urbach Moss, Richmond, Va.

B.A. '70, Virginia Commonwealth University. Major: American Studies. Thesis: Reinventing Spinsterhood: Competing Images of "Womanhood" in American Culture, 1880-1960. Major Advisers: Profs. S.M. Evans and M.Q. Sibley. December Graduate.

Patricia Irene Mulcahy, Cranston, R.I.

B.A. highest distinction '74, Rhode Island; M.Ed. '77, Colorado State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Improving Comprehensibility of Computer Instructions: The Effect of Different Text Structures on Success in Performing Procedures. Major Adviser: Prof. S.J. Samuels. October 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. Graduation Pending.

John Robert Murray, White Bear Lake

B.S. '82, University of Massachusetts. Major: Plant Physiology. Minor: Supporting Program. Thesis: Flavonoid Metabolism in Relation to Differential Anthocyanin Accumulation in Juvenile and Mature Phase *Hedera helix* L. Major Adviser: Prof. W.P. Hackett. December Graduate.

Paula Anne Nania, Indiana, Pa.

B.A. magna cum laude '82, Marquette University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Identifying and Serving Young Children at Risk for Educational Failure: A Critical Evaluation of the Gesellian Approach. Major Adviser: Prof. J.E. Ysseldyke. November 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. Person. Graduation Pending.

Fred Gonzales Ninonuevo, Palos Verdes, Calif.

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

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, Power, and Promotion Perceptions by Women in Nevada Public Schools. Major Advisers: Profs. S.M. Clark and T.L. Mazzoni. Graduation Pending.

Obioma Grace Nnaemeka, Agulu, Nigeria

B.A. '72, University of Nigeria; M.A. '77, University of Minnesota. Major: French. Thesis: Anamorphosis and Dominance in Agrippa D'Aubigne's L'Hecatombe A Diane. Major Adviser: Prof. A.A. Renaud. Graduation Pending.

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. Graduation Pending.

Hideobu N. A. Okuda

B.Econ. '80, M.Econ. '82, Hitotsubashi University. Major: Economics. Minor: Supporting Program. Thesis: Models of Taxation on the Financial System in Less Developed Countries. Major Adviser: Prof. Neil Wallace. Graduation Pending.

Francis Babatunde Olatunji, Logbo-Ekiti, Nigeria

B.S. honors '75, University of Nigeria; M.S. with honors '82, Pittsburgh State University. Major: Vocational Education. Minor: Supporting Program. Thesis: Identifying Training, Selection, and Performance Appraisal Criteria of Technical Education Teachers in Nigeria. Major Adviser: Prof. D.C. Bjorkquist. December Graduate.

Luiz Antonio de Oliveira, Igarapava, Brazil

Eng. Agron. '76, Universidade Estadual Paulista "Julio de Mesquita Filho." Major: Soil Science. Minor: Supporting Program. Thesis: Competitive Ability of Rhizobium leguminosarum bv. Phaseoli Strains. Major Adviser: Prof. P.H. Graham. December Graduate.

Anne Elizabeth O'Meara, Minneapolis

B.A. cum laude '70, Clarke College; M.A. '72, University of Massachusetts. Major: English. Minor: Supporting Program. Thesis: Representing Emily Dickinson: A Study of Literary Practice. Major Adviser: Prof. Donald Ross. January 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. Graduation Pending.

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. P.J. Reed. Graduation Pending.

Kathryn Kelley Ott, Lorain, Ohio

B.A. '69, Rosary College; M.A. '71, University of Michigan. Major: Speech-Communication. Minor: Supporting Program. Thesis: An Historic Explanatory Study of the Evolution and Development of Organizational Culture in Organizational Communication in Speech Communication. Major Adviser: Prof. E.G. Bormann. Graduation Pending.

Bernardo Pacheco De Carvalho, Lisbon, Portugal

Eng. Agron. '80, Mestre '82, Universidade de Sao Paulo. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Demand Constraints and Technical Change. Major Adviser: Prof. W.L. Peterson. January 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. Graduation Pending.

Woe-Chul Park

B.E. '77, Dong-A University; M.M.E. '83, North Carolina State University. Major: Fluid Mechanics. Minor: Supporting Program. Thesis: Computation of Flow Past Single and Multiple Bluff Bodies by a Vortex Tracing Method. Major Adviser: Prof. Hiroshi Higuchi. March Graduate.

Margaret Engel Parker, St. Paul

B.A. 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.I.C. Hansen. Graduation Pending.

Simmie Parlow, Toronto, Canada

B.A. '81, York University; M.A. '83, University of Minnesota. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Evaluation of a Comprehensive Life/Career Development Program for Canadian High School Students. Major Advisers: Profs. M.L. Snoko and L.S. Hansen. December Graduate.

Lori Elnora Pearce, South St. Paul

B.S. '79, M.S. '84, University of Minnesota. Major: Food Science. Minor: Supporting Program. Thesis: Application of Electron Spin Resonance Techniques to Model Batter and Dough Systems. Major Adviser: Prof. E.A. Davis. February Graduate.

Erie Conrad Pereira, Poona, India

B.Tech. '80, Indian Institute of Technology; M.S. Ag. E. '84, University of Minnesota. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Heat Transfer Through Non-Newtonian Laminar Flowing Fluids in a Double Tube Heat Exchanger. Major Advisers: Profs. R.V. Morey and Mrinal Bhattacharya. December Graduate.

William Shepard Perry, South Burlington, Vt.

B.A. '70, Macalester College; M.A. '79, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: The Relationship of the Test of English as a Foreign Language (TOEFL) and Other Critical Variables to the Academic Performance of International Graduate Students. Major Adviser: Prof. D.L. Lange. November Graduate.

Brent O. Peterson, Eau Claire, Wis.

B.A. '71, Johns Hopkins University; M.A. '73, University of Iowa. Major: German. Minor: History. Thesis: Popular Narratives and the Constitution of Ethnic Identity: Literature and Community in Die Abendschule. Major Advisers: Profs. G.H. Weiss and Jochen Schulte-Sasse. March Graduate.

George Eric Plum, Virginia Beach, Va.

B.A., B.S. summa cum laude '82, Washington and Lee University. Major: Biochemistry. Minor: Supporting Program. Thesis: Interactions of Spermidine and Analogues with DNA. Major Adviser: Prof. V.A. Bloomfield. March Graduate.

John Kenneth Polgreen, Roseville

B.S.Ag. '74, Wisconsin State University; M.Ag. '74, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: An Image of the Future for a Rural Kenyan Community Through Ethnographic Delphi Futures Research. Major Adviser: Prof. R.L. Peterson. December 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. Graduation Pending.

Minette Elizabeth Ponick, Eau Claire, Wis.

B.A. '66, M.S. '70, University of Wisconsin. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparison of the Prevalence of Loneliness Among Adolescents in Grades 10, 11, and 12 Who are Designated as "At-Risk" and "Not At-Risk" for Dropping Out Using the UCLA Loneliness Scale. Major Adviser: Prof. M.L. Snoke. March Graduate.

Clara Ponsati-Obiols, Barcelona, Spain

Lic. '80, Universidad de Barcelona. Major: Economics. Minor: Supporting Program. Thesis: Incomplete Information Two-Person Bargaining with a Finite Set of Possible Agreements. Major Adviser: Prof. J.S. Jordan. November Graduate.

Susan Karyl Price, Chanhassen

B.A. '79, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: A Developmental View of Depression in Children: The Relationship of Symptomatology to Age. Major Adviser: Prof. R.A. Weinberg. December Graduate.

Rosalinda Quintanilla-Villanueva, Monterrey, Mexico

Lic. '76, Instituto Tecnológico y de Estudios Superiores de Monterrey. Major: Economics. Minor: Supporting Program. Thesis: Trade, Distortions, and Employment in Mexico. Major Adviser: Prof. A.O. Krueger. November 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. Graduation Pending.

Sanjay Ranka

B.Tech. '85, Indian Institute of Technology; M.S. '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Parallel Algorithms for Image Processing and Pattern Recognition. Major Adviser: Prof. S.K. Sahni. November 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. Graduation Pending.

Gerald William Recktenwald, Perkinsville, N.Y.

B.S. '80, Cornell University; M.S.M.E. '85, University of Minnesota. Major: Mechanical Engineering. Minor: Mechanics. Thesis: A Study of Heat Transfer Between the Walls and Gas Inside the Cylinder of a Reciprocating Compressor. Major Advisers: Profs. J.W. Ramsey and S.V. Patankar. March Graduate.

E. Dianne Rekow, Shafer

B.S. '66, B.M.E. '70, M.S.M.E. '82, University of Minnesota. Major: Biomedical Engineering. Minor: Supporting Program. Thesis: Feasibility of an Automated System for Production of Dental Restorations. Major Adviser: Prof. A.G. Erdman. November Graduate.

Carol Marie Rembacki, Detroit, Mich.

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

Lilian Esmat Riad, Cairo, Egypt

B.Pharm. '78, Cairo University. Major: Pharmaceutics. Minor: Supporting Program. Thesis: The Gastrointestinal Absorption and First-Pass Metabolism of Carbamazepine in the Rabbit. Major Adviser: Prof. R.J. Sawchuk. Graduation Pending.

Oliver Riccius

Dipl. '83, Technische Hochschule Darmstadt. Major: Mechanics. Minor: Supporting Program. Thesis: Shear-Wave Speeds and Elastic Moduli for Different Liquids and Related Topics. Major Adviser: Prof. D.D. Joseph. March Graduate.

Martin Peter Rigney, St. Paul

B.S. '76, St. John's University. Major: Chemistry. Minor: Supporting Program. Thesis: The Development of Porous Zirconia as a Support for Reversed-Phase High-Performance Liquid Chromatography. Major Adviser: Prof. P.W. Carr. March Graduate.

John Chapman Robbins, Bronxville, N.Y.

A.B. '81, Cornell University. Major: Microbiology. Minor: Supporting Program. Thesis: The emm12 Gene of Streptococcus pyogenes. Major Adviser: Prof. P.P. Cleary. December Graduate.

Katherine Anne-Marie Roberts, Moorhead

B.A. summa cum laude '80, Moorhead State University; M.A. '84, University of Minnesota. Major: Art History. Minor: American Studies. Thesis: Hearth and Soul: The Fireplace in American Culture. Major Adviser: Prof. K.A. Marling. Graduation Pending.

John Lester Rodgers, Greensboro, N.C.

B.Ag.Econ. '79, University of New England; M.A. '79, University of Sussex. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: Structural Change in Agriculture. Major Adviser: Prof. W.L. Peterson. November Graduate.

Valerie Mildred Rogosheske, St. Cloud

B.S. '69, M.S. '75, St. Cloud State University. Major: Physical Education. Minor: Supporting Program. Thesis: Comparison of Low- and High-Mileage Female Runners Aged 18-43 with Respect to Body Composition and Incidence of Menstrual Dysfunction. Major Adviser: Prof. R.C. Serfass. February Graduate.

Martha Jean Rosen, West Hartford, Conn.

B.A. '73, University of Iowa. Major: Educational Psychology. Minor: Supporting Program. Thesis: Factors Related to Behavior Problems Among Hearing-Impaired Elementary School Children. Major Adviser: Prof. Byron Egeland. February Graduate.

Karl Sven Rosengren, Ridgewood, N.J.

B.A. '81, College of Wooster. Major: Child Psychology. Minor: Supporting Program. Thesis: The Role of Vision and Proprioception in the Development of Balance Control. Major Adviser: Prof. H.L. Pick. January Graduate.

Alvin Charles Rueter, St. Paul

B.A. cum laude '42, Dana College; M.A. '72, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Minnesota Powerline Dispute: A Fantasy Theme Analysis of the Public Hearings. Major Adviser: Prof. J.V. Jensen. December Graduate.

Nancy Tich 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 NAD+ Metabolite with Calcium-Releasing Ability. Major Adviser: Prof. H.C. Lee. Graduation Pending.

Christopher Michael Ryan

B.A. '83, Gustavus Adolphus College. Major: Chemistry. Minor: Supporting Program. Thesis: Electroreductions at Highly Negative Potentials and Formation of Tetraalkylammonium-Mercury Solids. Major Adviser: Prof. Esther Kariv-Miller. March Graduate.

Peter Yao Kanze Sallah, Akatsi, Ghana

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

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 Representative of the Straube Tradition. Major Adviser: Prof. C.E. Furman. Graduation Pending.

Randall Dean Schnepf, Rock Rapids, Iowa

B.S.B.A. '76, University of South Dakota; M.S. '81, University of Kentucky. Major: Agricultural and Applied Economics. Minor: Statistics. Thesis: Southern Minnesota Rural Household Economic Linkages: An Agricultural Household Model Application. Major Adviser: Prof. B.H. Senauer. November Graduate.

Kirsten Louise Schoenleber, Jamestown, N.Y.

B.A. '79, Wesleyan University. Major: Psychology. Minor: Supporting Program. Thesis: Parental Perceptions and Expectations and Their Relationship to Parent-Child Conflict and Parental Satisfaction During the Transition to Adolescence. Major Advisers: Profs. W.A. Collins and J.N. Butcher. November Graduate.

Steven Robert Scholl

B.A. '70, M.S. '74, Florida State University. Major: Vocational Education. Minor: Supporting Program. Thesis: Nature of Vocational Development Among Secondary Vocational Education Students. Major Advisers: Profs. G.H. Copa and G.I. Swanson. October Graduate.

Joseph David Schroeder, Oconomococ, Wis.

B.S. cum laude '83, University of Wisconsin. Major: Chemistry. Minor: Internal. Thesis: Synthetic Studies Related to the Synthesis of Sesbanimide. Major Adviser: Prof. T.R. Hoye. November 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. Graduation Pending.

Jean Fitzgerald Schultz, Alpharetta, Ga.

B.S. '62, Wisconsin State College; M.A. '75, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationship of Teacher Participation in Evaluation Program Development and Their Attitudes Toward Evaluation. Major Adviser: Prof. V.D. Mueller. March Graduate.

Daniel Dennett Schultz-Ela, Grand Junction, Colo.

B.A. magna cum laude '78, Carleton College. Major: Geology. Minor: Supporting Program. Thesis: Strain Patterns and Deformation History of the Vermilion District, Northeastern Minnesota. Major Adviser: Prof. P.J. Hudleston. December 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 of 4/4 Red Oak Lumber. Major Adviser: Prof. R.W. Erickson. Graduation Pending.

Gary Ray Seiler, Oakdale

B.S. with distinction '72, M.A. '75, M.B.A. '78, University of Minnesota. Major: Business Administration. Minor: Supporting Program. Thesis: A Study of the Economic Content in Antitrust Litigation. Major Adviser: Prof. W.B. Erickson. March Graduate.

Joerg Reinhart Seume, Minneapolis

M.S.M.E. '84, University of Wisconsin. Major: Mechanical Engineering. Minor: Fluid Mechanics. Thesis: An Experimental Investigation of Transition in Oscillating Pipe Flow. Major Adviser: Prof. T.W. Simon. December 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. Graduation Pending.

Patrick Randolph Shannon

B.A. '76, University of California; M.S.Psy. '80, San Diego State University. Major: Psychology. Minor: Supporting Program. Thesis: An Examination of the Generalization of Validity Coefficients for Personality and Biographical Inventories in Predicting Job Proficiency. Major Adviser: Prof. M.D. Dunnette. December Graduate.

Anu Radha Sharma, Slippery Rock, Pa.

B.S. '78, M.A. '83, M.Ed. '84, Pennsylvania State University. Major: Educational Psychology. Minor: Supporting Program. Thesis: Personality Subtypes Among Adult Children of Alcoholics. Major Adviser: Prof. W.F. Shaffer. Graduation Pending.

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. Graduation Pending.

Sheng-Hua Shih, Taiwan

B.A. Econ. '78, National Taiwan University; M.S.A. '83, University of Akron. Major: Business Administration. Minor: Supporting Program. Thesis: Financial Synergy and Merger Movements: Personal and Corporate Income Taxes as an Explanation. Major Adviser: Prof. Robert Vigeland. January Graduate.

Kevin Lyle Siefering, Oskaloosa, Iowa

B.S.Ch.E. with distinction '84, Iowa State University. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Growth and Characterization of Metal Oxide Thin Films on Copper Surfaces. Major Adviser: Prof. G.L. Griffin. November Graduate.

Jerry Kay Simon, Tekoa, Wash.

B.S. Ag.Ed. '78, M.S. '82, Washington State University. Major: Education. Minor: Supporting Program. Thesis: The Effectiveness of a Mentor Program for the Induction of Beginning Vocational Agriculture Teachers in Rural Schools. Major Advisers: Profs. G.W. Wardlow and E.A. Persons. Graduation Pending.

Steven Vincent Simpson, Green Bay, Wis.

B.S. '76, University of Wisconsin; M.A. '81, University of Minnesota. Major: Education. Minor: Supporting Program. Thesis: An Analysis of National Park Legislative Histories and Legal Foundations: Recreational Management Directives for the New River Gorge National River. Major Adviser: Prof. L.H. McAvoy. December Graduate.

Donald Reginald Singh, Minneapolis

B.Eng. '72, University of Jabalpur; M.S.E.E. '80, University of Minnesota. Major: Electrical Engineering. Minor: Supporting Program. Thesis: GaAs Schottky Contact Coplanar Waveguide with Applications to Monolithic Microwave Integrated Circuits. Major Adviser: Prof. K.S. Champlin. Graduation Pending.

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. Graduation Pending.

Karen McCarty Smith, Apple Valley

B.S. '70, St. Cloud State College; M.A. '72, Spec. Cert. '73, University of Minnesota. Major: Educational Administration. Minor: Supporting Program. Thesis: Patterns of Student Involvement in Non-Academic Activities: A Study of Student Behavior in Secondary Education. Major Adviser: Prof. W.M. Ammentorp. March Graduate.

Janet Louise Solberg, St. Paul

B.A. '73, Macalester College; M.A. '76, University of Minnesota. Major: French. Minor: Supporting Program. Thesis: Beyond Folklore: Textuality and Metatextuality in the Early French Nouvelle. Major Adviser: Prof. Tom Conley. October Graduate.

Yan China Song, Beijing, China

Dipl. '69, Beijing University. Major: Physics. Minor: Supporting Program. Thesis: Self-Organization Process and Anomalous Transport in the Magnetosphere and Ionosphere. Major Adviser: Prof. R.L. Lysak. January Graduate.

Margaret Mary Stahler, Jordan

B.S. '77, University of Wisconsin; M.P.H. '78, University of California. Major: Plant Breeding. Minor: Supporting Program. Thesis: Evaluation of Variation in Minnesota/Wisconsin *Fragaria virginiana* for Horticultural and Morphological Traits. Major Advisers: Profs. P.D. Ascher and J.J. Luby. Graduation Pending.

Elizabeth Katovich Stamm, Westerville, Ohio

B.S. '81, Purdue University; M.S. '84, University of Arkansas. Major: Agronomy. Minor: Supporting Program. Thesis: A Characterization of Correlatively Inhibited Root Buds of Common Milkweed (*Asclepias syriaca*). Major Adviser: Prof. D.L. Wyse. January Graduate.

James Lee Steele, St. Louis Park

B.S. '82, M.S. '85, University of Minnesota. Major: Genetics. Minor: Biochemistry. Thesis: Examination of the Mechanisms of Conjugal Transfer and the Phenotypes Conjugaally Transferred by *Streptococcus lactis* Subsp. *Diacetylactis* 11007. Major Adviser: Prof. L.L. McKay. January Graduate.

Andrew David Strand, Alexandria

B.S. '83, University of Minnesota. Major: Biochemistry. Minor: Supporting Program. Thesis: Analysis of the Major DNase I Hypersensitive Site on the Yeast Two-Micron DNA Plasmid. Major Adviser: Prof. D.M. Livingston. January 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 an Expressive Vehicle for Spiritual Values: La Corona (John Donne/Ernst Krenek). Major Advisers: Profs. Johannes Riedel and R.T. Laudon. Graduation Pending.

Peter Copeland Stryker, Grosse Ile, Mich.

A.B. Ed. '71, University of Michigan; M.S.M.E. '83, University of Minnesota. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Precise Measurement of the Thermal Conductivity of Solid n-Eicosane Paraffin. Major Adviser: Prof. E.M. Sparrow. March Graduate.

Karen Lane Stube, Fayetteville, N.Y.

B.S. cum laude '77, St. Lawrence University; M.A. '82, Miami University. Major: Physical Education. Minor: Supporting Program. Thesis: Improving Motor Skills and Physical Fitness in the Elementary School: Can You Do Both? Major Advisers: Profs. Michael Wade and A.W. Burton. Graduation Pending.

Thomas Joseph Sullivan, St. Paul

B.A. '66, M.S. '76, St. Mary's College. Major: Botany. Minor: Supporting Program. Thesis: The Lichens of Acadia National Park, Maine. Major Adviser: Prof. C.M. Wetmore. Graduation Pending.

Chee-Chuong Sum, Singapore

B.Eng. '82, National University of Singapore. Major: Business Administration. Minor: Supporting Program. Thesis: Heuristic Approaches to Capacity Constrained Order Sizing and Scheduling in a Material Requirements Planning Environment. Major Adviser: Prof. A.V. Hill. Graduation Pending.

Min Peter Sun, Taiwan

B.S. '76, M.S. '78, National Tsing Hua University. Major: Mathematics. Minor: Supporting Program. Thesis: A Streamline-Diffusion Method for Miscible and Immiscible Flow in Porous Media. Major Advisers: Profs. M.B. Lusk and Bernardo Cockburn. December Graduate.

Dace Susan Svikis, Columbia, Md.

B.A. summa cum laude '81, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Methodological Issues in Twin Studies of Alcoholism. Major Adviser: Prof. J.N. Butcher. March Graduate.

Janet Kay Swim, Midland, Mich.

B.A. '83, Hope College. Major: Psychology. Minor: Supporting Program. Thesis: Toward a Social-Cognitive Understanding of Gender-Biased Evaluations. Major Adviser: Prof. Eugene Borgida. October Graduate.

John Raymond Tabor, Knoxville, Tenn.

B.S. '83, M.S. '85, University of Illinois. Major: Geology. Minor: Supporting Program. Thesis: Deformational and Metamorphic History of Archean Rocks in the Rainy Lake District, Northern Minnesota. Major Adviser: Prof. P.J. Hudleston. December Graduate.

Susan Hartman Taylor, Calif.

A.B. '69, University of Michigan. Major: Psychology. Minor: Supporting Program. Thesis: Conceptual and Methodological Issues in the Assessment of Sex-Related Pay Discrimination. Major Adviser: Prof. M.D. Dunnette. December 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. Graduation Pending.

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 Estrous Synchronization in Moroccan Sheep. Major Advisers: Profs. E.F. Graham and B.E. Sequin. Graduation Pending.

Carlos E. Tobon, Columbia

Ing. '82, Escuela Politecnica Nacional; M.S. '84, University of Minnesota. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Multiple Fault Detection in Combinational Network Topologies. Major Adviser: Prof. A.S. Vergis. March Graduate.

Steven J. Trank, Overland Park, Kan.

B.S. with highest distinction '84, University of Kansas. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Design and Application of Temperature-Sensitive Hydrogels. Major Adviser: Prof. E.L. Cussler. November Graduate.

Paul Vincent Trescony, Orinda, Calif.

A.B. '72, University of California. Major: Biochemistry. Minor: Supporting Program. Thesis: Characterization of Proteoglycans from Bovine Aortic Endothelial Cells in Culture and from the Murine Engelbreth-Swam-Holm Basement Membrane Tumor in Culture. Major Adviser: Prof. T.R. Oegema. November Graduate.

Cynthia Koehler Troy, San Diego, Calif.

B.A. highest honors '80, University of California. Major: Psychology. Minor: Supporting Program. Thesis: Coping Behaviors of Autistic Children in Stressful Situations with Consideration of Adrenocortical Functioning. Major Advisers: Profs. G.R. Leon and M.R. Gunnar. December Graduate.

Peter Wurtele Vaughan, Minneapolis

B.A. '78, Dartmouth College. Major: Ecology. Minor: Fisheries. Thesis: I. Radiance and Irradiance in Freshwater Lakes. II. The Spatial and Temporal Distribution of Zooplankton in Lake Itasca. Major Adviser: Prof. R.O. Megard. October Graduate.

Eva Ventura-Colera, Barcelona, Spain

Lic. '80, Universidad Autonoma de Barcelona. Major: Economics. Minor: Supporting Program. Thesis: Heterogeneous Consumers and Goodness of Fit in a Stock Pricing Model: A Test Using Panel Data. Major Adviser: Prof. C.A. Sims. February Graduate.

Anne Patricia Villamil, Florida

B.A. cum laude '80, University of Rochester. Major: Economics. Minor: Supporting Program. Thesis: Essays on Imperfect Information and Monetary Economics. Major Adviser: Prof. Neil Wallace. November Graduate.

James Lee Wade

B.A. cum laude '81, Carleton College. Major: Chemistry. Minor: Supporting Program. Thesis: The Theory of Nonlinear Chromatography and Its Application to Affinity Chromatography. Major Adviser: Prof. P.W. Carr. December Graduate.

Jerome Valentine Wagnild, Minneapolis

B.S. '68, University of Minnesota; M.A.T. '78, University of Berkeley. Major: Education. Minor: Supporting Program. Thesis: The Relationship Between Years of High School French Study and Performance on Proficiency Tests in Listening, Reading, Speaking, and Writing for Entering Freshmen at the University of Minnesota. Major Adviser: Prof. H.L. Jorstad. December Graduate.

Gregory Howard Wakefield, Ann Arbor, Mich.

B.A. summa cum laude '78, M.S.E.E. '82, Ph.D. '85, University of Minnesota. Major: Psychology. Minor: Supporting Program. Thesis: Perceived Azimuth in Multiple-Source Acoustic Environments. Major Adviser: Prof. N.F. Viemeister. December Graduate.

Yunxia Wang, Shanghai

Major: Plant Physiology. Minor: Supporting Program. Thesis: Molecular Analysis of mtDNAs from Maize cms-S Fertile Revertants. Major Adviser: Prof. B.G. Gengenbach. November Graduate.

Samuel Adam Wathen, Minneapolis

B.S. '75, University of Illinois; M.S. '77, Virginia Polytech Institute and State University; M.B.A. '82, Oklahoma State University. Major: Business Administration. Minor: Supporting Program. Thesis: A Contingency Approach to the Design of Service Transformation Processes. Major Adviser: Prof. J.C. Anderson. December Graduate.

Kathleen Brittamart Watters, St. Paul

B.S. '76, M.A. '79, University of Minnesota. Major: Speech-Communication. Minor: Supporting Program. Thesis: Campaign Communication and the Undecided Voter: An Analysis of the Rhetorical Visions of the 1980 Presidential Campaign. Major Adviser: Prof. E.G. Bormann. December 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. Graduation Pending.

Robert Erin Weiss, Roseville

B.Math. '84, M.S. '87, University of Minnesota. Major: Statistics. Minor: Mathematics. Thesis: A Graphical Statistic for Case Influence Assessment. Major Adviser: Prof. R.D. Cook. January Graduate.

Louise Marie Wheeler, Kent, Ohio

B.S. with highest honors '83, Case Western Reserve University. Major: Chemistry. Minor: Supporting Program. Thesis: Diffusion of Linear and Star-Branched Polystyrenes in Dilute, Semidilute, and Concentrated Ternary Solutions. Major Adviser: Prof. T.P. Lodge. October 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. Graduation Pending.

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. Graduation Pending.

Karen L. Peterson Wilson, Northfield

B.A. cum laude '77, St. Olaf College; M.A. '79, University of Minnesota. Major: Theatre Arts. Minor: Supporting Program. Thesis: A Study of the Managerial Techniques Practised by Directors of Theatre at Lort A, B + , B, C, and D Theatres in 1987-1988. Major Adviser: Prof. J.G. Congdon. November Graduate.

Sharon Lamb Wilson, St. Paul

B.S. cum laude '65, Linwood College; M.A. '69 Michigan State University. Major: Family Social Science. Minor: Supporting Program. Thesis: Sibling Relationships: A Phenomenological Three-Generation Family Study. Major Adviser: Prof. M.J. Hogan. October Graduate.

Ruth Ylvisaker Winger

B.A. cum laude '76, M.S.S.W. '83, University of Wisconsin. Major: Social Work. Minor: Supporting Program. Thesis: The Impact of Tax Legislation on Corporate Income Security Planning for Retirees. Major Adviser: Prof. G.S. Hoshino. February Graduate.

Patricia Wood, Minneapolis

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

Wenchen Wu, Taiwan

B.Pharm. '73, Taipei Medical College; M.B.A. '83, University of Minnesota. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: Impact of Regulatory Control on the Pharmaceutical Industry. Major Advisers: Profs. R.S. Hadsall and A.I. Wertheimer. December Graduate.

Constantine Xykis, Athens, Greece

B.C.E. '81, M.S.C.E. '83, University of Minnesota. Major: Civil Engineering. Minor: Supporting Program. Thesis: Lateral Torsional Stability of Non-Linear Rigid Space-Frame Systems. Major Adviser: Prof. T.V. Galambos. December Graduate.

Chia Valentine Yapi, Adzope, Ivory Coast
Dipl. Agron. Gen. '82, Ecole Nationale Supérieure
Agronomique d' Abidjan; M.S. '85, University of Illinois.
Major: Animal Science. Minor: Supporting Program.
Thesis: A Genetic Analysis of Lamb Mortality. Major
Adviser: Prof. W.J. Boylan. December 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.
Chin-Chuan Lee. Graduation Pending.

Willem Jan Zaadnoordijk, Alkmaar, Nederland
Ing. '83, Technische Hogeschool Delft. Major: Civil
Engineering. Minor: Mathematics. Thesis: Analytic
Elements for Transient Groundwater Flow. Major Adviser:
Prof. O.D.L. Strack. December Graduate.

Larry George Zechman, Westerville, Ohio
B.S. high distinction '75, Pennsylvania State University;
M.S. '83, University of Minnesota. Major: Food Science.
Minor: Supporting Program. Thesis: Heat Inactivation
Kinetics of *Bacillus stearothermophilus* Spores. Major
Adviser: Prof. I.J. Pflug. December Graduate.

Robert James Zeleznikar, Duluth
B.S. '79, M.S. '88, University of Minnesota. Major:
Pharmacology. Minor: Supporting Program. Thesis: High
Energy Phosphate and Cyclic Nucleotide Metabolism in
Skeletal Muscle Determined by Phosphoryl Labeling with
18O. Major Adviser: Prof. N.D. Goldberg. Graduation
Pending.

George Lee Zimmerman, Boise, Idaho
B.S.E.E. cum laude '84, University of Utah. Major:
Electrical Engineering. Minor: Supporting Program.
Thesis: Visual Recognition: Defining the Interaction
Between the Organism and the Environment. Major
Advisers: Profs. N.K. Huang and H.M. Wechsler.
Graduation Pending.

Doctor of Philosophy in Physical Medicine and Rehabilitation

Dennis Dale Dykstra, Eagan
A.B. with high honors '72, Ohio University; M.D. '76,
University of Cincinnati. Major: Physical Medicine and
Rehabilitation. Minor: Anatomy. Thesis: A Study on the
Effects of the Toxin of Botulinum A on Detrusor-Sphincter
Dyssynergia in Patients After Spinal Cord Injury. Major
Adviser: Prof. F.J. Kottke. November Graduate.

Master of Architecture

Tim Russell Bjella, Minneapolis
B.S.D. summa cum laude '87, Arizona State. Major:
Architecture. Thesis: Alure of Ruins. Major Adviser: Prof.
J.G. Rauma. Graduation Pending.

Bonnie Lee Brueni, South Heart, N.D.
B.A. '77, North Dakota State University. Major:
Architecture. Thesis: Medor, North Dakota: A Hotel for a
Western Theme Town. Major Adviser: Prof. J.G. Rauma.
Graduation Pending.

Jong Moon Han, Seoul, Korea
B.S. '86, Hanyang University. Major: Architecture. Thesis:
Community Life Center at Bethel College. Major Adviser:
Prof. D.M. Mulfinger. Graduation Pending.

Jeffrey Robert Johnson
B. Design with honors '81, University of Florida. Major:
Architecture. Thesis: Symbolism in Design: A Liturgical
Expression. Major Adviser: Prof. G.C. Rockcastle. January
Graduate.

Julie Zeiler Maple
B. Env. D. '84, University of Colorado. Major:
Architecture. Thesis: Architectural Opportunities in the
Reuse of a Historic Urban Site. Major Adviser: Prof. D.M.
Mulfinger. December Graduate.

Steven Cleo Martens, Fargo, N.D.
B.A. '75, North Dakota State University. Major:
Architecture. Thesis: Ethnic Tradition and Innovation as
Influences on a Rural, Midwestern Building Vernacular:
Findings from Investigation of Brick Houses in Carver
County, Minnesota. Major Adviser: Prof. J.G. Rauma.
November Graduate.

Karin Posapiwatana, Bangkok, Thailand
B. Arch '85, Chulalongkorn University. Major:
Architecture. Thesis: Design with Daylighting: University
Museum. Major Adviser: Prof. J.G. Rauma. February
Graduate.

Carol Ann Prafcke, Minneapolis
B.B.A. '80, University of Iowa. Major: Architecture.
Thesis: Creating an Architecture of Psychological Support
as Demonstrated in an Alcohol Treatment Center. Major
Adviser: Prof. M.S. Ubbelohde. Graduation Pending.

Farid Jean Sabongi
Dipl. '77, Beirut College of Fine Arts. Major: Architecture.
Thesis: The Milwaukee Road Depot and Environs: A
Demonstration of a Theory of Historic Rehabilitation,
Conservation, and Reuse of an Existing Historical
Structure. Major Adviser: Prof. J.G. Rauma. December
Graduate.

Brandon T. Sigris, Minneapolis

B.A. '85, University of Minnesota. Major: Architecture. Thesis: The West Coast Gateway-Symbolic Expression in Architecture. Major Advisers: Profs. J.G. Rauma and D.M. Mulfinger. March Graduate.

Daniel Jon Sutter

B.A. with distinction '81, Iowa State University. Major: Architecture. Thesis: Metaphysica. Major Adviser: Prof. R.D. Clemence. Graduation Pending.

David Michael Zanley, Wyandotte, Mich.

B.S. cum laude '80, Lawrence Institute of Technology. Major: Architecture. Thesis: A Retreat Camp in Southeastern Michigan. Major Adviser: Prof. G.C. Rockcastle. October Graduate.

Daniel Jon Zutter

B.A. with distinction '81, Iowa State University of Science and Technology. Major: Architecture. Thesis: Metaphysica. Major Adviser: Prof. R.D. Clemence. January Graduate.

*Master of Arts***Gregory Francis Adams**

B.A. with honors '75, California State University. Major: Public Affairs. Major Adviser: Prof. D.P. Geesaman. December Graduate.

Scott Wesley Aker, Rosemount

B.S. with distinction '75, University of Minnesota. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. R.L. Jackson. February Graduate.

Jocelyn Lumbo Ancheta

B.S. '82, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. J.E. Brandl. December Graduate.

Janice Dorene Anderson, Minneapolis

B.S. '81, University of Minnesota. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Prof. E.D. Larkin. December Graduate.

Karen Ann Nordholm Anderson, St. Paul

B.A. '86, University of Northern Colorado. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. Susan Rose. January Graduate.

Nancy Beckett Anderson, Minneapolis

B.A. with distinction '82, University of Virginia. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. W.W. Tennyson. Graduation Pending.

Nancy Ellen Ashbrooke, St. Paul

B.I.S. '87, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. G.L. Shapiro. December Graduate.

Heidar Ghajar Azodanloo

B.A. '85, University of Minnesota. Major: Political Science. Minor: Related Fields. Major Adviser: Prof. Edwin Fogelman. March Graduate.

Donald Frederick Barga, St. Paul

B.A. '61, Our Lady of Snows Scholasticate. Major: Speech-Communication. Minor: Business Administration. Major Adviser: Prof. G.L. Shapiro. February Graduate.

Kathleen Jane Bedford

B.S. '84, University of Wisconsin. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. E.G. Bormann. December Graduate.

Nancy Elizabeth Belpedio, Coon Rapids

B.A. '77, Gustavus Adolphus College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. B.E. Balow. November Graduate.

Yoko Mizuno Benda, Japan

B.A. '80, Rikkyo University. Major: Japanese. Minor: Related Fields. Major Adviser: Prof. E.M. Copeland. December Graduate.

Sidney Lee Bender, Grand Forks, N.D.

B.A. magna cum laude '80, B.S.P.A. magna cum laude '80, University of North Dakota. Major: Public Affairs. Major Adviser: Prof. J.E. Jernberg. November Graduate.

Christopher Avery Benjamin, Atlanta, Ga.

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

Julie Marie Binko, St. Paul

A.B. '79, University of Illinois. Major: Education. Minor: Related Fields. Major Adviser: Prof. C.A. Carrier. October Graduate.

Elizabeth Marie Blair, Chicago, Ill.

B.A. magna cum laude '69, Luther College. Major: English. Minor: Related Fields. Major Adviser: Prof. R.L. Brown, Jr. October Graduate.

S. Elizabeth Blanks, Des Moines, Iowa

B.A. cum laude '84, St. Olaf College. Major: Mass Communication. Minor: Related Fields. Thesis: Professionalism, Localism, and the Definition of News: A Case Study of a Neighborhood Newspaper. Major Adviser: Prof. T.L. Glasser. March Graduate.

Mary Ann Bock, Minneapolis

B.A. '84, Indiana University. Major: English. Minor: Feminist Studies. Major Advisers: Profs. R.L. Brown, Jr. and Ellen Messer-Davidow. January Graduate.

Robert Joseph Bonadurer, Minneapolis

B.S. honors '84, University of Wisconsin. Major: Marketing Education. Minor: Related Fields. Major Adviser: Prof. J.R. Stone III. November Graduate.

John Bosma, Minneapolis

B.A. '75, Concordia College. Major: Education. Minor: Speech-Communication. Major Adviser: Prof. H.G. Copeland. November Graduate.

Larry David Bourgerie, Minneapolis

B.S. '76, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.A. Fossum. Graduation Pending.

Robin Rae Brenneise-Sarshad, Rapid City, S.D.

B.A. '84, University of South Dakota. Major: Communication Disorders. Minor: Related Fields. Thesis: Aphasic and Non-Brain-Damaged Speakers' Sensitivity to Listeners' Knowledge of the Discourse Topic. Major Adviser: Prof. R.H. Brookshire. November Graduate.

Christine Anne Brezny, Minneapolis

B.S. high distinction '78, University of Minnesota. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. D.L. Monson. March Graduate.

Kathryn Flitsch Burrell, Roseville

B.A. '63, Iowa State Teachers College. Major: Communication Disorders. Minor: Related Fields. Thesis: Instrumental Manipulation of Nasality. Major Adviser: Prof. C.D. Starr. Graduation Pending.

Debra Louise Carlson, Clear Lake

B.A. with distinction '72, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. J.E. Brandl. March Graduate.

James Russell Casebolt, Minneapolis

B.A. with high honors '68, Texas Lutheran College; Ph.D. '82, University of Iowa. Major: Public Affairs. Major Adviser: Prof. D.P. Geesaman. December Graduate.

Molly Jane Casserly

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

Jose Antonio Cerna-Bazan

Bach. '83, Lic. '85, Universidad Nacional Mayor de San Marcos. Major: Hispanic Literature. Minor: Hispanic Linguistics. Thesis: Narracion, Imagenes de la Nacionalidad y Figuracion del Discurso en el Siglo XIX Latinoamericano. Major Adviser: Prof. Rene Jara. October Graduate.

Hyeon-Woo Cho, Taegu, Korea

B.A. '81, Kyungpook National University. Major: Linguistics. Minor: Related Fields. Major Adviser: Prof. G.A. Sanders. March Graduate.

Yang Ho Choi

B.S. '81, Chosun University; B.S. '85, University of Wisconsin. Major: Mass Communication. Minor: Related Fields. Major Adviser: A.R. Tims. Graduation Pending.

Leo Gregory Christenson

B.A. '85, Pennsylvania State University. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. V.D. Mueller. Graduation Pending.

Moo Sung Chung, Korea

B.A. '84, Soong Jun University; M.A. '86, Seoul National University. Major: Public Affairs. Major Adviser: Prof. S.M. Fass. December Graduate.

Jennifer Jane Clelland

A.B. summa cum laude '85, San Diego State University. Major: Political Science. Minor: Related Fields. Major Adviser: Prof. J.L. Sullivan. December Graduate.

Jean Marie Clifton, St. Paul

B.A. '83, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.E. Azevedo. November Graduate.

Paul William Conley

B.A. '83, St. John's University. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. R.D. Arvey. November Graduate.

Caroline Elizabeth Cory, Montara, Calif.

B.A. '82, University of Nebraska. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.F. Bognanno. Graduation Pending.

Kathleen Johnson Coskran, Minneapolis

B.A. '65, Agnes Scott College. Major: English. Minor: Related Fields. Major Adviser: Prof. C.J. Sugnet. November Graduate.

Thomas Richard Crain, St. Paul

B.S. '85, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Effects of an Adaptive Filter Hearing Aid on Speech Recognition Thresholds in Noise for Normal-Hearing and Hearing-Impaired Listeners. Major Adviser: Prof. D.J. VanTasell. January 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. Graduation Pending.

Kathleen Ann Culhane-Pera, St. Paul

B.A. '75, Carleton College; M.D. '83, Michigan State. Major: Anthropology. Minor: Related Fields. Thesis: Analysis of Cultural Beliefs and Power Dynamics in Disagreements About Health Care of Hmong Children. Major Adviser: Prof. R.E. Prell. March Graduate.

Roberta Jean Cullen

B.S. with distinction '82, Northwestern University. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. G.W. Gadberry. March Graduate.

Mitzi Beth Curtis, Minneapolis

B.S. '77, Illinois State University. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. F.H. Wood. February Graduate.

Debra Lynn Dailey, White Bear Lake

B.A. '78, University of Minnesota. Major: Public Affairs. Major Adviser: Prof. R.S. Bolan. October Graduate.

Laura Eileen Davis

B.A. '86, University of Minnesota. Major: History. Minor: Theatre Arts. Major Adviser: Prof. J.L. Altholz. November Graduate.

Diana Maitland Dean, Gloucester, R.I.

B.A. magna cum laude '80, Dartmouth College. Major: Anthropology. Minor: Related Fields. Major Adviser: Prof. W.L. Rowe. March Graduate.

Fern Graber DeRubeis, Newport

B.A. magna cum laude '86, University of Minnesota.
Major: Family Social Science. Minor: Related Fields.
Major Adviser: Prof. D.H. Olson. October 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. Graduation Pending.

Maiheng Dietrich, Beijing, China

Dipl. '82, Beijing Languages Institute. Major: English.
Minor: Related Fields. Major Adviser: Prof. Michael Hancher. December Graduate.

Malcolm Dixon, Liverpool, England

B.A. with honors '84, Sunderland Polytechnic. Major: English. Minor: Related Fields. Major Adviser: Prof. A.I. Geffen. January Graduate.

Laura Marie Dolby, Eugene, Ore.

B.A. '83, University of California. Major: Comparative Literature. Minor: Related Fields. Major Adviser: Prof. R.W. Sousa. October 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. Graduation Pending.

Mari Kristin Edmonds, Minnetonka

B.A. cum laude '77, Gustavus Adolphus College. Major: Art Education. Minor: Related Fields. Major Adviser: Prof. K.J. Freedman. December Graduate.

Frieda Edwin Ekotto

B.A. '86, Colorado College. Major: French. Minor: Related Fields. Major Adviser: Prof. M.F. Paganini. Graduation Pending.

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. Graduation Pending.

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. Graduation Pending.

Faye Nadine Erickson, Minneapolis

B.S. '86, B.A. '86, University of Minnesota. Major: Communication Disorders. Minor: Related Fields. Thesis: Functional Gain, Insertion Gain, and 2-CC Coupler Gain of High-Power In-The-Ear Hearing Aids. Major Adviser: Prof. D.J. Van Tasell. February Graduate.

Susan Jean Erickson, Mead, Neb.

B.A. '83, University of Nebraska. Major: Scandinavian. Minor: Related Fields. Thesis: From Stories to History, Letters, and Documents: Swedes in Saunders County, Nebraska, 1867-1914. Major Adviser: Prof. G.K.N. Stockenstrom. February Graduate.

Antoinette Errante, Bronx, N.Y.

B.S. '85, Georgetown University. Major: Education. Minor: Related Fields. Major Adviser: Prof. J.J. Cogan. December Graduate.

Joyce Gertrudis Maria Fagel, Arnhem, The Netherlands

B.A. cum laude '85, Augsburg College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. T.M. Skovholt. December Graduate.

John Courtney Fick, Bagley

B.A. '83, Concordia College. Major: History. Minor: Related Fields. Thesis: Longbow to Musket: The Evolution of the Tudor Army, 1509-1603. Major Adviser: Prof. S.E. Lehmborg. December Graduate.

John Berg Fitzpatrick, Fridley

B.A. '86, University of Minnesota. Major: Industrial Education. Minor: Related Fields. Major Adviser: Prof. D.J. Pucel. Graduation Pending.

Dorothy Chaffee Flaherty

B.A. '76, Iowa State University. Major: French. Minor: Related Fields. Major Adviser: Prof. E.B. Sivert. December Graduate.

Linda Mary Fletcher, St. Paul

B.A. '72, University of Iowa. Major: English. Minor: Related Fields. Major Adviser: Prof. Norman Fruman. November Graduate.

Guillermo Americo Fossati, Uruguay

Psicologo '79, Pontificia Universidade Catolica do rio Grande do sul. Major: Educational Psychology. Minor: Related Fields. Major Advisers: Profs. R.H. Bruininks and R.F. Weatherman. March Graduate.

Kimberly Ann Frank, Minneapolis

B.A. summa cum laude '82, University of Wisconsin. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.A. Zaidi. Graduation Pending.

Shelley Mackay Freeman, New Brighton

B.A. '71, Lawrence University. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. N.C. Nickerson. February 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. Graduation Pending.

Katherine Louise French, Northboro, Mass.

B.A. '84, Carleton College. Major: History. Minor: Related Fields. Major Adviser: Prof. B.A. Hanawalt. January Graduate.

Linda Ruth Fretheim, St. Paul

B.A. '77, North Park College. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. V.D. Mueller. November Graduate.

Joshua Stuart Friedlander, Staten Island, N.Y.

B.S. '87, Cornell University. Major: Industrial Relations. Minor: Related Fields. Thesis: The Rise of Canadian Nationalism and Its Effect on Locals of International Unions. Major Adviser: Prof. J.G. Scoville. November Graduate.

Kathleen Mary Galvin, Minneapolis

B.S. cum laude '83, Loyola University. Major: Psychology. Minor: Related Fields. Major Adviser: Prof. R.V. Dawis. November Graduate.

Theresa Marie Ganglghasselouei, St. Paul

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

Dana Kierstin Glass, Huxley, Iowa

B.S. '86, Iowa State University of Science and Technology. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. J.E. Ysseldyke. December Graduate.

Dianne Sattinger Goldstaub, Minneapolis

A.B. '68, Stanford University; M.A. '70, Brown University. Major: History. Minor: Related Fields. Major Adviser: Prof. R.L. Rudolph. January Graduate.

William Jay Golfus

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

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. Graduation Pending.

Meg Carroll Grove

B.A. magna cum laude '79, Drake University. Major: Public Affairs. Major Adviser: Prof. Arthur Naftalin. December Graduate.

Long-Wen Ha, China

Major: Chinese. Minor: Related Fields. Thesis: Perfect Realization Daoism and the Yuan Daoist Play, Ren Fengzi. Major Adviser: Prof. V.B. Cass. January Graduate.

Judith Marion Halberstam, Nottingham, England

B.A. highest honors '85, University of California. Major: English. Minor: Related Fields. Major Adviser: Prof. Martin Roth. November Graduate.

James Thomas Hale, Albuquerque, N.M.

B.A. '82, College of the Pacific. Major: History. Minor: Related Fields. Major Adviser: Prof. S.E. Lehmberg. December Graduate.

Duke Hamilton, Racine, Wis.

B.A. '73, Dominican College. Major: Business Education. Minor: Related Fields. Major Adviser: Prof. G.N. McLean. January Graduate.

Dorothy Ellis Hammer

B.S. '60, University of California. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.A. Fossum. January Graduate.

Thomas Allen Hanson, Kerkhoven

B.A. '84, University of Minnesota. Major: Sociology. Minor: Related Fields. Thesis: The Relationship Between Questionnaire Item Ordering and Responses to a Sexual Permissiveness Survey. Major Adviser: Prof. I.L. Reiss. October Graduate.

Jane Michelle Harper, Birchwood

B.A. cum laude '76, Macalester College. Major: Public Affairs. Major Adviser: Prof. J.M. Bryson. December Graduate.

Lynn Markay Harris, Apple Valley

B.A. summa cum laude '67, Coe College. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.J. Flagler. December 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. Graduation Pending.

Kay Margaret Hawley, Edina

B.S. with distinction '72, University of Minnesota. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. Stephen Schultz. October 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. Graduation Pending.

Diane Fay Hipkins, Forest Lake

B.A. '74, B.S. '85, University of Minnesota. Major: Music Education. Minor: Related Fields. Major Adviser: Prof. R.L. Borg. December 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. Graduation Pending.

Laura Evelyn Hutton, Tuscaloosa, Ala.

A.B. summa cum laude '81, University of Alabama. Major: Sociology. Minor: Related Fields. Major Adviser: Prof. Joseph Galaskiewicz. February 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.E. Einsweiler. Graduation Pending.

Linda Sue Ignatowicz, Minneapolis

B.S.B. '83, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.A. Zaidi. March Graduate.

Eric Leroy Iverson, Fayetteville, N.Y.

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

James Hugh Jackson, Kemmerer, Wyo.

B.A. '86, University of Wyoming. Major: History. Minor: Related Fields. Major Adviser: Prof. S.E. Lehmberg. March Graduate.

Seongki Jang

B.Pol.S. '86, Yonsei University. Major: Public Affairs.
Major Adviser: Prof. D.R. Geesaman. January Graduate.

Mark Richard Jensen, Madison, S.D.

B.M. magna cum laude '78, North Texas State University.
Major: Linguistics. Minor: Related Fields. Major Adviser:
Prof. R.V. Miranda. March Graduate.

Mark Richard Jensen, Madison, S.D.

B.M. magna cum laude '78, North Texas State University.
Major: English as a Second Language. Minor: Related
Fields. Thesis: The Function of the Passive: An Empirical
Study. Major Adviser: Prof. J.K. Gundel. March Graduate.

Sylvia Fay Wood Johanneson

B.S. with distinction '59, University of Minnesota. Major:
Education. Minor: Related Fields. Major Adviser: Prof.
H.G. Copeland. December Graduate.

Brad Hoyt Johnson, Burnsville

B.S. '75, B.S. '77, University of Minnesota. Major:
Education. Minor: Related Fields. Major Adviser: Prof.
E.D. Gennaro. October Graduate.

Joan Tressa Johnson

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

Keith G. Johnson, Tacoma, Wash.

B.A. with honors '86, Grinnell College. Major: English.
Minor: Related Fields. Major Adviser: Prof. R.L. Brown,
Jr. January Graduate.

Laura Annette Johnson, Excelsior

B.A. '83, St. Olaf College. Major:
Speech-Communication. Minor: Related Fields. Major
Adviser: Prof. E.G. Bormann. January Graduate.

Mayumi Lukiko Johnson

B.A. '80, Seijo University. Major: Japanese. Minor:
Related Fields. Major Adviser: Prof. W.M. Jacobsen.
Graduation Pending.

Stephany Lydia Johnson, New Orleans, La.

B.A. '78, Concordia College. Major: Educational
Psychology. Minor: Related Fields. Major Adviser: Prof.
R.H. Bruininks. November Graduate.

Ki In Joo, Seoul, Korea

B.Econ. '85, Yonsei University. Major: Sociology. Minor:
Related Fields. Major Adviser: Prof. David Knoke. March
Graduate.

Karen Marie Jorstad, Minneapolis

B.A. magna cum laude '82, California Lutheran College.
Major: Educational Psychology. Minor: Related Fields.
Major Adviser: Prof. J.E. Rynders. October Graduate.

Marianne Kolsto Kaldager, Minneapolis

B.A. '87, University of Minnesota. Major: English. Minor:
Scandinavian Studies. Major Adviser: Prof. E.B. Savage.
December Graduate.

Patricia Christensen Karg, St. Paul

B.A. cum laude '83, Macalester College. Major:
Education. Minor: Related Fields. Major Adviser: Prof.
H.L. Jorstad. January Graduate.

Terri Ann Karis

B.S. high distinction '80, University of Minnesota. Major:
Family Social Science. Minor: Related Fields. Major
Adviser: Prof. P.C. Rosenblatt. March Graduate.

Scott Gerald Kassner, Kewaunee, Wis.

B.S. summa cum laude '85, University of Wisconsin.
Major: American Studies. Major Adviser: Prof. G.G.
Yates. January Graduate.

Nancy Ellen Kassover, Walnut Creek, Calif.

B.A. '76, Antioch University. Major:
Speech-Communication. Minor: Related Fields. Major
Adviser: Prof. G.L. Shapiro. March Graduate.

María Veronica Kaune de Wilde, La Paz, Bolivia

B.A. magna cum laude '86, Macalester College. Major:
Educational Psychology. Minor: Related Fields. Major
Adviser: Prof. L.S. Hansen. December Graduate.

Steven James Keillor, Askov

B.A. '74, B.S. with distinction '74, University of
Minnesota. Major: History. Minor: Political Science.
Thesis: Hjalmar Petersen of Minnesota: The Politics of
Provincial Independence. Major Adviser: Prof. J.R. Howe.
October Graduate.

Scott Lee Kephart, St. Paul

B.S. '73, University of Minnesota. Major: Educational
Administration. Minor: Related Fields. Major Adviser:
Prof. N.C. Nickerson. October Graduate.

Cheryl Ann Kerfeld

B.A. cum laude '83, University of Minnesota. Major:
English. Minor: Related Fields. Major Adviser: Prof.
Norman Fruman. January Graduate.

Shafi Ahmed Khaled, Dhaka, Bangladesh

Major: Economics. Minor: Related Fields. Major Adviser:
Prof. N.J. Simler. March Graduate.

Kathryn Ann Klemp, Fridley

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

Steven Wayne Kobs, St. Paul

B.S. magna cum laude '77, Mankato State University.
Major: Industrial Relations. Minor: Related Fields. Thesis:
Relationships of Personnel Reaction Blank Scores,
Demographic Data, and Status of the Professional License
of Registered Nurses in Minnesota. Major Adviser: Prof.
R.D. Arvey. March Graduate.

Ali Umran Komuscu, Turkey

Major: Geography. Minor: Related Fields. Major Adviser:
Prof. R.H. Skaggs. Graduation Pending.

Krystyna B. Kornilowicz, Albany, N.Y.

B.A. '80, M.A. '83, Syracuse University. Major: English
as a Second Language. Minor: Related Fields. Major
Adviser: Prof. E.E. Tarone. December Graduate.

Nanciann Zimmitti Kruse

B.S. '77, Rutgers College. Major: Physical Education. Minor: Related Fields. Major Adviser: Prof. M.L. Krotee. January Graduate.

Karen Frances Kurtz

B.S. high honors '79, Western Illinois University. Major: Public Affairs. Major Adviser: Prof. N.N. Eustis. October Graduate.

Kathryn Ellen Lange, Minneapolis

B.A. '72, Augsburg College. Major: Education. Minor: Related Fields. Major Adviser: Prof. J.J. Cogan. Graduation Pending.

Rita Ann Langteau, Minneapolis

B.A. '77, University of Minnesota. Major: Mass Communication. Minor: Business Administration. Major Adviser: Prof. J.C. Busterna. October 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. Graduation Pending.

Karin Elizabeth Larson, Minneapolis

B.A. cum laude '81, St. Olaf College. Major: Education. Minor: English as a Second Language. Major Adviser: Prof. R.M. Paige. November Graduate.

Mark Waldo Larson, Wyoming

B.A. '83, St. Olaf College. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. V.D. Mueller. December Graduate.

Sheryl Ann Larson, Mounds View

B.A. '85, Bethel College. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. J.E. Turnure. Graduation Pending.

Roger Latevi-Owolabi Lawson

B.A. '83, University of Ife. Major: Luso-Brazilian Literature. Minor: Related Fields. Major Adviser: Prof. R.W. Sousa. November Graduate.

Vivian Waifong Lee, San Francisco, Calif.

B.A. '84, University of California. Major: Public Affairs. Major Adviser: Prof. J.E. Brandl. Graduation Pending.

Yin Ada Lee, China

B.A. '73, Dipl. Educ. '80, Chinese University of Hong Kong. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. J.E. Rynders. January Graduate.

Thomas Russell Lehman, Washington, D.C.

B.A. '79, Bethel College. Major: Public Affairs. Major Adviser: Prof. T.R. Dewar. March 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. Graduation Pending.

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. Graduation Pending.

Hung Shufen Lin, Hsinchu, Taiwan

B.A. '80, FuJen Catholic University; M.A. '83, Chinese Culture University. Major: Japanese. Minor: Related Fields. Major Adviser: Prof. E.M. Copeland. February Graduate.

Anne Helene Reeb Lindgren

B.A. '82, Case Western Reserve University. Major: Communication Disorders. Minor: Related Fields. Thesis: The Effects of Exposure Versus Training on the Perception of Synthetic Speech with Adult and Child Listeners. Major Adviser: Prof. J.E. Reichle. October Graduate.

Jane Connelly Loeb, Minneapolis

B.S. '82, Oregon State University. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. Judine Mayerle. November Graduate.

Ellen Udine Logacz, Minneapolis

B.A. '66, Augsburg College. Major: Family Social Science. Minor: Related Fields. Major Adviser: Prof. D.H. Olson. January Graduate.

Donald Fredrick MacLeod, Minneapolis

B.A. summa cum laude '71, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Thesis: Workplace and Personal Stresses and Insurance-Related Losses Due to Accidents and Injuries. Major Adviser: Prof. B.D. Steffy. Graduation Pending.

Connie Jo Magnuson, Oak Park, Ill.

B.S. '85, Wayne State University. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Prof. L.H. McAvoy. Graduation Pending.

Kristin Jean Makholm, Milwaukee, Wis.

B.A. with honors '85, Northwestern University. Major: Art History. Minor: Related Fields. Major Adviser: Prof. C.W. Haxthausen. February Graduate.

Paul Phillip Maravelas, Mayer

B.A. '81, University of Minnesota. Major: History. Minor: Related Fields. Major Adviser: Prof. J.D. Tracy. March Graduate.

Gianna Marie Martella, Trinidad, Uruguay

A.B. magna cum laude '86, Mount Holyoke College. Major: Hispanic Literature. Minor: Related Fields. Thesis: Imagen De La Bruja En La Narrativa Latinoamericana (1960-1985). Major Adviser: Prof. Rene Jara. October Graduate.

Idalisse Martinez

B.S. '84, Elmira College. Major: Communication Disorders. Minor: Related Fields. Thesis: Interaural-Intensity Differences and Dichotic Listening in Subjects with Simulated Hearing Losses. Major Adviser: Prof. C.E. Speaks. October Graduate.

Timothy Richard McClernon, St. Paul

B.A. '79, College of St. Thomas. Major: Industrial Education. Minor: Related Fields. Major Adviser: Prof. R.A. Swanson. November Graduate.

Winston Charles McDowell, New York, N.Y.

B.A. '80, University of Pennsylvania; M.A. '82, University of Wisconsin; M.A. '84, Northwestern University. Major: Public Affairs. Major Adviser: Prof. T.R. Dewar. January Graduate.

Robert John McFarlin, Jr., Minnetonka

B.S.B. '81, University of Minnesota. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Prof. D.L. Rarick. January Graduate.

Joan Elizabeth Meacham, Minnetonka

B.A. '75, Bethel College. Major: Education. Minor: Related Fields. Major Adviser: Prof. S.M. Clark. Graduation Pending.

Birte Marie Mesoy, Norway

Cand.Mag. '85, University of Oslo. Major: Mathematics. Minor: Related Fields. Thesis: The Lusternik-Schnirelmann Category of Topological Spaces. Major Adviser: Prof. D.W. Kahn. November Graduate.

Tammy Ann Metcalf-Filzen, Northfield

B.A. '83, St. Olaf College. Major: Physical Education. Minor: Related Fields. Major Adviser: Prof. L.J. Stoner. March Graduate.

Nancy Gardner Miller, Minneapolis

B.S. '68, B.A. '77, Iowa State University. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Prof. A.M. Erickson. December Graduate.

Lois Juanita Miller-DeLeon

B.S. '83, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. R.W. Beach. March Graduate.

Susanne Cocklin Mills, Burnsville

B.S. '70, Eastern Michigan University. Major: Home Economics Education. Minor: Related Fields. Thesis: Adolescent Beverage Consumption Patterns and the Attitudes Which Influence Those Patterns. Major Adviser: Prof. M.M. Rossmann. October Graduate.

Robert Murray Monetti, Coon Rapids

B.S. '72, Bemidji State College. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. V.D. Mueller. December Graduate.

Masako Mori, Japan

B.A. '73, M.A. '77, Nara Women's University. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Prof. J.K. Gundel. November Graduate.

Christine Helen Morton, Minneapolis

A.B. '84, University of Missouri. Major: Sociology. Minor: Related Fields. Thesis: Changing Social and Normative Factors Affecting Living Arrangements: A Comparison of 1940 and 1970. Major Adviser: Prof. Barbara Laslett. December Graduate.

Joseph Kent Moses, Minneapolis

B.F.A. magna cum laude '83, Emerson College. Major: English. Minor: Related Fields. Major Adviser: Prof. J.L. Mitchell. March 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. Graduation Pending.

Brenda Jean Murphy, St. Paul

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

Katherine Ann Nagel, Valparaiso, Ind.

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

Teresa Lee Nechville

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

Beth Eloise Nelson, Minneapolis

B.S. with distinction '74, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. S.L. Deno. December Graduate.

John Frederic Nelson

B.A. '79, St. Olaf College. Major: German. Minor: Related Fields. Major Adviser: Prof. G.H. Weiss. Graduation Pending.

Laurie Ann Newstrom

B.S. magna cum laude '74, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. C.A. Carrier. Graduation Pending.

Diane Elizabeth Nickerson-Stang, Eagan

B.A. '81, University of Wisconsin. Major: Sociology. Minor: Related Fields. Major Adviser: Prof. R.K. Leik. January 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. Graduation Pending.

Maureen Bridget O'Brien, St. Paul

B.A. '80, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Thesis: An Assessment of User Satisfaction: State Government Monitoring of Human Service Providers. Major Adviser: Prof. W.W. Welch. Graduation Pending.

Francis Babatunde Olatunji, Ilogbo-Ekiti, Nigeria

B.S. honors '75, University of Nigeria. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. W.M. Ammentorp. December Graduate.

Rolf Scott Olson, Minnetonka

B.A. magna cum laude '80, Concordia College. Major: English. Minor: Related Fields. Major Adviser: Prof. R.L. Brown. October Graduate.

Mary Beth Onkka, Prior Lake

B.A. '77, College of St. Teresa. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. M.F. Bognanno. March Graduate.

Christine Oprecht, Switzerland

Lehrpat.Sekschul. '80, University of Berne; M.A. '86, University of Minnesota. Major: Education. Minor: Related Fields. Major Adviser: Prof. H.L. Jorstad. November Graduate.

Phyllis Ann Owens

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

David Perry Page, Mason City, Iowa

B.A. with distinction '77, Iowa State University; M.A. '80, University of Iowa. Major: English. Minor: Related Fields. Major Adviser: Prof. C.J. Sugnet. January Graduate.

Robert Alan Parsons, St. James

B.A. '82, University of Minnesota. Major: Music. Minor: Related Fields. Thesis: Six Moods for Winds and Percussion. Major Adviser: Prof. Paul Fetler. March 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. Graduation Pending.

Tammy Renee Peet-Sass, Kansas City, Kan.

B.A. '87, Rockhurst College. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.G. Scoville. Graduation Pending.

Janet Aili Pelto

B.A.Sc.'78, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. M.L. Snoke. Graduation Pending.

Oscar Pereira, Madrid, Spain

Major: Hispanic Literature. Minor: Related Fields. Thesis: The Function of Love in the Songs of the Archpriest of Hita. Major Adviser: Prof. A.N. Zahareas. Graduation Pending.

Romaine Victoria Perin

Dipl., Middlesex Polytechnic. Major: Art History. Minor: Related Fields. Major Adviser: Prof. M.W. Stoughton. October Graduate.

David Forrest Pierce

B.A. '74, American University. Major: Speech-Communication. Minor: Related Fields. Thesis: What Individuals Say or Write are Their Concerns About Dying, What Medical Treatment They Want if Unable to Communicate/Direct Their Own Care, and What They Have Done to Address Those Concerns. Major Adviser: Prof. G.L. Shapiro. March Graduate.

Paul Spencer Plummer, United Kingdom

B.A. '85, Portsmouth Polytechnic. Major: Geography. Minor: Related Fields. Major Adviser: Prof. E.S. Sheppard. Graduation Pending.

Delin Qu, Shanghai, China

B.A. '82, Shanghai Teachers' College. Major: Political Science. Minor: Related Fields. Major Adviser: Prof. J.R. Freeman. October Graduate.

Mary Helen Quirk, Minneapolis

A.B. with honors '74, Grinnell College. Major: Public Affairs. Major Adviser: Prof. T.R. Dewar. January Graduate.

Rebecca Kay Raimann, Hastings

B.S. with distinction '73, University of Minnesota. Major: Mathematics Education. Minor: Related Fields. Major Adviser: Prof. P.A. House. January Graduate.

Susan May Rainey, Brooklyn Park

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

Jay Beck Rasmussen, Tallahassee, Fla.

B.S. '75, Florida State University. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. V.L. Hendrix. March Graduate.

Diane Linda Reader, Worthing, West Sussex, England

B.S. '85, University of Southampton. Major: Public Affairs. Major Adviser: Prof. Harlan Cleveland. October Graduate.

Julia L. Reitan

B.A. summa cum laude '78, Macalester College. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Prof. M.O. Bagley. October Graduate.

Gustavo Adrian Remedi, Montevideo, Uruguay

B.S. with distinction '86, University of Minnesota. Major: Hispanic Literature. Minor: Related Fields. Thesis: Profecias Marginales: Entre La Degradacion Y La Utopia. Major Adviser: Prof. Herman Vidal. Graduation Pending.

Anita Adell Rentz, St. Paul

B.A. '84, College of St. Catherine. Major: Elementary Education. Minor: Related Fields. Major Adviser: Prof. F.N. Finley. Graduation Pending.

Katherine Allison Retan, Minneapolis

B.A. magna cum laude '81, Amherst College. Major: English. Minor: Related Fields. Major Adviser: Prof. G.D. Hirsch. February Graduate.

Andrew Jay Riffkin, Boca Raton, Fla.

B.A. '74, University of Vermont. Major: Social and Philosophical Foundations of Education. Minor: Economics. Major Adviser: Prof. R.H. Beck. Graduation Pending.

Thomas Edmund Ring, Minneapolis

B.A. '76, University of Minnesota. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Prof. J.A. Fossum. November Graduate.

Dagmar Maria Romano, St. Paul

B.A. '64, University of Toronto. Major: Public Affairs. Major Adviser: Prof. D.P. Geesaman. November Graduate.

Carolyn Maria Roney, Decatur, Ill.

B.S. '83, University of Wisconsin. Major: Educational Administration. Minor: Related Fields. Major Adviser: Prof. V.D. Mueller. March Graduate.

Robert James Roos, Minneapolis

A.B. '72, Hope College. Major: Mass Communication.
Minor: Related Fields. Major Adviser: Prof. P.J. Tichenor.
February Graduate.

Thomas Gregory Rosholt, Bloomsburg, Pa.

B.A. '85, Luther College. Major: Mathematics. Minor:
Statistics. Major Adviser: Prof. W.E. Pruitt. January
Graduate.

Sheila Kay Roth, Minneapolis

B.A. '67, Mankato State College. Major: Education.
Minor: Related Fields. Major Adviser: Prof. H.G.
Copeland. March Graduate.

Richard Ernest Sandeen, Minneapolis

B.A. cum laude '68, Augsburg College. Major: Education.
Minor: Related Fields. Major Adviser: Prof. A.D. Glenn.
Graduation Pending.

Kent Lee Sandstrom, Proctor

B.A. magna cum laude '77, University of Minnesota.
Major: Sociology. Minor: Related Fields. Major Adviser:
Prof. R.L. Fulton. December Graduate.

Arti Sanghi, New Delhi, India

B.A. '80, M.A. '82, University of Delhi. Major: Industrial
Relations. Minor: Related Fields. Major Adviser: Prof. J.A.
Fossum. January Graduate.

Mamta Rani Saraf

M.A. '73, Kanpur University. Major: Mass
Communication. Minor: Related Fields. Major Adviser:
Prof. J.C. Busterna. Graduation Pending.

Kim Roxann Savick, Eden Prairie

B.A. cum laude '86, University of Minnesota. Major:
Industrial Relations. Minor: Related Fields. Major Adviser:
Prof. R.E. Azevedo. Graduation Pending.

Paul David Schersten, Palatine, Ill.

B.A. magna cum laude '77, Macalester College. Major:
Public Affairs. Minor: Related Fields. Major Adviser: Prof.
C.P. Bradford. February Graduate.

Annette Kay Schultz, Medina, N.D.

B.A. '86, Moorhead State University. Major:
Speech-Communication. Minor: Related Fields. Major
Adviser: Prof. E.G. Bormann. Graduation Pending.

Nancy Marie Schwartz

B.A. '82, University of Minnesota. Major: Family Social
Science. Minor: Related Fields. Thesis: Family Dinnertime
Dynamics: Conflict and Conflict Settlement. Major
Adviser: Prof. W.J. Doherty. November Graduate.

Judith Naomi Scott, Minneapolis

B.A. cum laude '61, University of Minnesota. Major:
Educational Psychology. Minor: Related Fields. Major
Adviser: Prof. J.R. Rest. March Graduate.

Lynn Louise Sikkink, Minneapolis

B.A. with distinction '81, University of Colorado. Major:
Anthropology. Minor: Related Fields. Thesis:
Ethnoarchaeology of Harvest and Crop-Processing in Four
Households in the Central Andes, Jauja, Peru. Major
Adviser: Prof. C.A. Hastorf. October Graduate.

Aynsley Marie Smith

B.S. cum laude '84, Winona State University. Major:
Physical Education. Minor: Related Fields. Thesis: The
Emotional Responses of Athletes to Injury. Major Adviser:
Prof. M.L. Young. January Graduate.

Leonard Leo Snyder, Blaine

B.A. '87, Metropolitan State University. Major:
Educational Psychology. Minor: Related Fields. Major
Adviser: Prof. R.D. Tennyson. Graduation Pending.

David Francis Steele, Oakdale

B.A. magna cum laude '80, Macalester College. Major:
Public Affairs. Major Adviser: Prof. Harlan Cleveland.
February Graduate.

Mary Ruth Strand

A.B. cum laude '84, Smith College. Major: German.
Minor: Comparative Literature. Major Adviser: Prof.
Jochen Schulte-Sasse. November Graduate.

Laura Allison Stringer, Atlanta, Ga.

B.A. '85, College of William and Mary. Major:
Recreation, Park, and Leisure Studies. Minor: Related
Fields. Major Adviser: Prof. L.H. McAvoy. December
Graduate.

Mary Bernadette Suchy, St. Paul

B.S. with distinction '80, University of Minnesota. Major:
Business Education. Minor: Related Fields. Major Adviser:
Prof. J.J. Lambrecht. December Graduate.

Laurel Ann Swanson, Chaska

B.S. '80, University of Minnesota. Major: Education.
Minor: Related Fields. Major Adviser: Prof. H.G.
Copeland. November Graduate.

Midori Tago, Osaka, Japan

B.Pharm.S. '79, Kyoto University. Major:
Speech-Communication. Minor: Related Fields. Major
Adviser: Prof. J.N. Martin. November Graduate.

Ruth Elaine Tharaldson, Minneapolis

B.A. high honors '81, Wheaton College. Major:
Speech-Communication. Minor: Related Fields. Major
Adviser: Prof. J.N. Martin. Graduation Pending.

Dawna Lichtscheidl Tierney, Forest Lake

B.A. '81, College of St. Benedict. Major: Public Affairs.
Major Adviser: Prof. N.N. Eustis. December Graduate.

Charles David Tillery, Woodbury

B.S.B. '87, University of Minnesota. Major: Industrial
Relations. Minor: Related Fields. Major Adviser: Prof.
M.F. Bognanno. Graduation Pending.

Diane Marie Nelson Towle, Duluth

B.A. '65, M.A. '66, University of Iowa. Major: Art
History. Minor: Related Fields. Major Adviser: Prof. N.W.
Canedy. December Graduate.

Mang-So Tsoi-Pullar

B.S. '61, Whitworth College; M.S. '63, Ph.D. '66,
University of Washington. Major: Educational Psychology.
Minor: Related Fields. Major Adviser: Prof. J.L. Romano.
October Graduate.

Kerry Louise Uker-Philips, Denison, Iowa

B.S. summa cum laude '87, University of Minnesota.
Major: Communication Disorders. Minor: Related Fields.
Thesis: Family Needs Perceived by Parents of Handicapped
Toddlers and Parents of Nonhandicapped Toddlers. Major
Adviser: Prof. P.A. Broen. Graduation Pending.

Mary Gibson Upton, Birmingham, Mich.

B.Int.S. '83, School for International Training. Major:
Speech-Communication. Minor: Related Fields. Major
Adviser: Prof. J.V. Jensen. Graduation Pending.

Thomas Albin Upton, Grand Rapids, Mich.

B.A. with high honors '83; M.A. '85, Wheaton College.
Major: English as a Second Language. Minor: Related
Fields. Major Adviser: Prof. E.E. Tarone. Graduation
Pending.

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B.A. '81, University of Minnesota. Major: Educational
Psychology. Minor: Related Fields. Major Adviser: Prof.
W.W. Tennyson. November Graduate.

Barbara Jo VanDrasek, Minneapolis

B.A. '83, University of Minnesota. Major: Geography.
Minor: Related Fields. Thesis: Social Structure and
Residence in Minneapolis, 1860-1940. Major Adviser:
Prof. J.S. Adams. Graduation Pending.

Ambrosio Velasco-Gomez, Mexico City, Mexico

Lic. '80, Universidad Nacional Autonoma de Mexico.
Major: Political Science. Minor: Related Fields. Major
Adviser: Prof. W.H. Flanigan. Graduation Pending.

Wendy Ann Vierow, Annandale, N.J.

B.A. '77, Ohio Wesleyan University. Major: Theatre Arts.
Minor: Related Fields. Thesis: A Structural Analysis of
Long Run Dramatic Plays on Broadway: Common
Elements and Implications for the Future, 1974-1984.
Major Adviser: Prof. C.M. Nolte. December Graduate.

Denise Ann Walen, Summit, Ill.

B.A. summa cum laude '84, Rosary College. Major:
Theatre Arts. Minor: Related Fields. Major Adviser: Prof.
G.W. Gadberry. February Graduate.

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B.A. '81, University of Minnesota. Major: Educational
Psychology. Minor: Related Fields. Major Adviser: Prof.
Susan Rose. March Graduate.

Charles Arthur Walkinshaw, Ferndale, Wash.

B.A. '79, University of Maryland. Major: Agricultural
Education. Minor: Related Fields. Major Adviser: Prof.
E.A. Persons. Graduation Pending.

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B.A. '81, M.A. '81, University of Minnesota; Fil Kan '79,
Stockholm University. Major: Germanic Philology. Major
Adviser: Prof. J.L. Mitchell. December Graduate.

Margaret Elizabeth Weber, Minneapolis

B.A. '74, University of Minnesota. Major: Public Affairs.
Major Adviser: Prof. N.N. Eustis. December Graduate.

Carolyn Jeanette Weberg, Coon Rapids

B.A. magna cum laude '76, Concordia College. Major:
Music. Minor: Related Fields. Major Adviser: Prof. A.J.
Lubet. Graduation Pending.

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B.S. with honor '71, Winona State College. Major: Theatre
Arts. Minor: Speech-Communication. Major Adviser: Prof.
Barbara Reid. November Graduate.

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B.A. magna cum laude '79, Wichita State University.
Major: Mass Communication. Minor: Related Fields. Major
Adviser: Prof. Hazel Dicken-Garcia. January Graduate.

Mary Elizabeth West, Maplewood

B.S. with distinction '86, University of Minnesota. Major:
Industrial Relations. Minor: Related Fields. Major Adviser:
Prof. D.A. Ahlburg. December Graduate.

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B.A. '84, Duke University. Major: Anthropology. Minor:
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November Graduate.

Silke Wolter, Dreieich, West Germany

Dipl. '86, Fachhochschule des Landes Rheinland-Pfalz.
Major: Design, Housing, and Apparel. Minor: Related
Fields. Major Adviser: Prof. M.O. Bagley. Graduation
Pending.

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A.B. summa cum laude '82, Augustana College. Major:
English. Minor: Related Fields. Major Adviser: Prof. S.N.
Garner. Graduation Pending.

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B.S.B. '75, University of Minnesota. Major: Psychology.
Minor: Related Fields. Major Adviser: Prof. T.I.
Thompson. March Graduate.

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B.A. '67, University of Minnesota. Major: Sociology.
Minor: Related Fields. Major Adviser: Prof. J.T. Mortimer.
January Graduate.

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B.Law '73, Fu Jen Catholic University. Major: Sociology.
Minor: Related Fields. Major Adviser: Prof. David
Cooperman. January Graduate.

William John Yourd, Turtle River

A.B. '75, Grinnell College. Major: Ancient Studies. Major
Adviser: Prof. G.E. Gibbon. January Graduate.

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B.A. '85, University of Minnesota. Major: German. Minor:
Linguistics. Thesis: Naturmetaphorik in den Werken
Zeitgenossischer Schweizer Schriftstellerinnen. Major
Adviser: Prof. G.H. Weiss. November Graduate.

Michele M. Zurakowski, Warsaw, Ind.

B.S. '82, Manchester College. Major:
Speech-Communication. Minor: Related Fields. Thesis:
The Ephemeral Rhetoric of Ti-Grace Atkinson: Style and
Strategy in Amazon Odyssey. Major Adviser: Prof. K.K.
Campbell. Graduation Pending.

University of Minnesota, Duluth

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B.A. '86, University of Minnesota. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Prof. M.H. Smaby. Graduation Pending.

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Ramesh Arunachalam, Madras, India

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Bret William Borth, Eagan

B.A. '85, St. Mary's College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. November Graduate.

Bruce Robert Boyea, Richfield

B.S. Acct. '87, Valparaiso University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Celeste Louise Brausen, Eden Prairie

B.A. magna cum laude '83, College of St. Thomas. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Michael Kennedy Brown, Minneapolis

B.S. '83, Marquette University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

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B.A. magna cum laude '78, Bethel College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

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B.S.B. with distinction '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Constance Jane Campbell, Minneapolis

B.A. cum laude '85, Carleton College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Bruce Edwin Carlson, Eden Prairie

B.S.B. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

Carmen Elizabeth Carlson, Golden Valley

B.A. '84, Wheaton College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Murty S.R. Chamarty

Major: Business Administration. Major Adviser: Prof. D.R. Bell. October Graduate.

Robert George Chatmas, Plymouth

B.S.B.A. '75, University of Arkansas. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Linda Larson Checky, Mounds View

B.S.N '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Stephen Dennis Coleman

B.S. magna cum laude '78, University of Wisconsin; M.D. '82, Medical College of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Jill Lesley Conda, Minneapolis

B.S. '84, Moorhead State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

Jane Johnson Conway, Minneapolis

B.S.B. '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. February Graduate.

James Bradley Corwin, Minneapolis

B.A. '72, Moorhead State College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

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B.S. cum laude '85, Winona State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

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B.S. with honors '83, University of Texas. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

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B.S.B. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Scott Girard Dacko, Minneapolis

B.M.E. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Mark Anthony De Simone, White Bear Lake

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B.S.B.A. '73, University of North Dakota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

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B.S. '81, University of Iowa. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

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B.C.E. '85, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

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B.S.B. '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Stephen Richard Eikos, Eagan

B.E.E. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

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B.E.E. with distinction '81, M.S.E.E. '86, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

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B.A. '75, University of Chicago. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

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David Charles Gadow, St. Paul

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B.A. '78, St. Olaf College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

Teresa Helene Johnson, Blaine

B.A. '79, College of St. Benedict. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Hyunsoo Kahng, Seoul, Korea

B.S. honors '86, Illinois Institute of Technology. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Wendy Lynn Karstedt, Minneapolis

B.A. '81, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

David Hyman Katkov, Edina

B.S.B. '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Joel Darnel Kennedy, St. Paul

B.A. '88, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Rozmond Herron Kennon, Minneapolis

B.A. '84, Stanford University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

Karen Jean Kiedrowski, St. Paul

B.S.B. high distinction '88, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Frederick Gerard Koerschner, White Bear Lake

B.S.M.E. with honors '81, Michigan Technological University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Richard Joseph Kohlan, Minneapolis

B.A. '84, Carleton College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Virginia Vogt Kolstad, Shorewood

B.A. '77, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Tamara Ann Koopman, Ivanhoe

B.S. summa cum laude '86, Southwest State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Kathleen Dolores Krueger, Eden Prairie

B.S. high distinction '75; B.A. '75, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

Jolene M. Kubista, Owatonna

B.A. high distinction '88, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Robert Thomas Kulpinski

B.S.B.A. '83, Boston University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Steven John LaFave, Falcon Heights

B.A. with high honors '76, Michigan State University; A.M. '78, University of Michigan. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Thomas Eugene Lerach, Shoreview

B.M.E. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Wendy Marie Lerach

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

Catherine Marie Libbe, Minneapolis

B.S. '80, Illinois State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Scott Alan Lindall, Stillwater

B.S. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

John Jerome Lindell, Minneapolis

B.S.B. '78, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. November Graduate.

Paula R. Lubotsky, Minneapolis

B.S.N. '80, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

David John Madison

B.S.B. '86, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

William Jesse Mau, Minnetonka

B.S. '86, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.

Patrick Joseph McCarthy, Plymouth

B.S.B. '82, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Lynne Marie McDonald, Minneapolis

B.S. high distinction '76, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Michael John McFarlane, Edina

B.S. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Teri Ann Meads

B.A. '84, Carleton College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

Frances Lynn Mehen, Minneapolis

B.A. cum laude '84, Middlebury College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Kim Irene Metz, Minneapolis

B.A. cum laude '77, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Steven Jon Moen, Richfield

B.S. '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

John Thomas Mullins

B.A. '69, Ohio State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Steven Roy Mumm, Roseville

B.S. cum laude '80, Mankato State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Joy Ann Murphy, Maple Grove

B.A. cum laude '81, College of St. Thomas. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Karmen Marie Nelson, Minneapolis

B.A. summa cum laude '77, Macalester College; J.D. cum laude '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Lynn Marie Newman, Bloomington

B.A. magna cum laude '79, College of St. Benedict. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Betsy Jean Nichols, Minneapolis

B.S.B. '81, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Jean Ellen Nix, St. Paul

B.S. with honors '84, Bemidji State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Allison Lynn Norsted, St. Paul

B.A. magna cum laude '79, College of St. Thomas. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Brenda Joyce Fisher Norwood, Shreveport, La.

B.S. '71, Southern University and A&M College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Carole Smith Ohnstein, Minneapolis

B.A. '75, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

David James Olson, St. Paul

B.S.B. '87, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. November Graduate.

Mary Jean Overend, Minneapolis

B.A. '74, Augsburg College. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.

Terrence Jerome Palmer, Roseville

B.S.B. high distinction '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Jeannette Kay Parr, Golden Valley

B.S. '82, University of Nebraska. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Daniel Sean Patton, Minneapolis

B.S. '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

Roger Allen Peters, St. Paul

B.S.B. with distinction '83, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Francois Henri Petre, Vineuil-St. Firmin, France

Ing. Comm. '71, Universite de Nancy. Major: Business Administration. Major Adviser: Prof. R.N. Cardozo. Graduation Pending.

Douglas Paul Phillips, Lauderdale

B.A. '84, Washington State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Kathryn Sue Pocras, Roseville

B.B.A. '86, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Mark M. Powell, Edina

B.A. '71, Cornell College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Lori Anne Raduenz, St. Paul

B.S.B. '80, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Passi Rassa, St. Paul

B.A. '84, Macalester College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

Renato J. Recio, Rochester

B.S.E. with honors '82, University of Illinois. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Susan Koenig Reed, Crystal Lake, Ill.

B.A. cum laude '80, DePauw University; M.S. '82, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Sue Ann Reimer, Golden Valley

B.A. cum laude '85, College of St. Benedict. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Richard John Renk, Jr., Winona

B.S. '80, Iowa State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

DiAnne Lee Riboh, Minneapolis

B.S. '75, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

Douglas Allen Rivord, Minneapolis

B.S. '71, M.A. '72, Wisconsin State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Martin Allan Rossing, Ramsey

B.E.E. '82, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Robin Pederson Ruegg, Richfield

B.S.E. high distinction '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Russell Thomas Sach, Minneapolis

B.S.B. '88, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Timothy Manecke Sandry, Mankato

B.A. '78, Gustavus Adolphus College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Stephen Thomas Sawyer, Bloomington

B.A. '86, St. Olaf College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Mary Patricia Schell, Fairbault

B.S. '81, Mankato State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Naomi Fern Schibonski, Monticello

B.S.B. with distinction '82, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Bruce Carl Schmidt, Eden Prairie

B.S. '81, Moorhead State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Paula Jean Schmidt, Minneapolis

B.A. '79, College of St. Benedict. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

Rick Arnold Schmidt, Pendleton, Ore.

B.S. '82, Oregon State University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. October Graduate.

Francis Henry Schoeder, Reeder, N.D.

B.A. '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Brenda Kay Schultz, Minneapolis

B.A. '78, College of St. Catherine. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Anna Yusun Schuweiler

B.S. '80, University of the Philippines; M.S. '85, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

Ann Elizabeth Schwarz, Minneapolis

B.A. '71, Carleton College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Karen Ann Scofield

B.A. '81, Augsburg College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Stephen Edward Sebastian, Park Forest, Ill.

B.S.B. with honors '85, Roosevelt University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Carol Jean Seehafer, Wayzata

B.S. '79, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

William Kenneth Selden, Minneapolis

B.A. '80, Carleton College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

Inshik Seol, Seoul, Korea

B.A. '85, Indiana University. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. March Graduate.

Preeti Shridhar

B.A. '86, College of St. Catherine. Major: Business Administration. Major Adviser: Prof. D.R. Bell. February Graduate.

David Donald Simonson, Minneapolis

B.S.B. with distinction '84, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. December Graduate.

Glen Alan Skarbakka, Anoka

B.E.E. high distinction '77, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

Roger Allen Stawski, Fridley

B.S. '84, Mankato State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Pamela Jean Stegora, Minneapolis

B.A. '85, College of St. Catherine. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Mary Thomas Steiner, Eden Prairie

B.S. '82, South Dakota State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Wing Chun Szeto, Hong Kong

B.S. '87, Moorhead State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Rockee Moriak Tanimoto, Sacramento, Calif.

B.S. '78, San Diego State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Catherine Ann Taylor, Bloomington

B.A. '75, J.D. cum laude '78, University of Minnesota. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. Graduation Pending.

Norris Donovan Thompson

B.B.A. magna cum laude '85, University of North Dakota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

Paul Andrew Tippett, Bradenton, Fla.

B.A. '86, Bethel College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Dennis Alden Tone

B.S. '73, United States Military Academy. Major: Business Administration. Major Adviser: Prof. D.R. Bell. February Graduate.

Thomas Frank Uhlemann, Edina

B.A. '78, Carleton College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Karin Lynn Van Dyke

B.S.B. '76, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Douglas Lynch Van Metre, Minneapolis

B.A. '81, Colorado College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Donald Edward Vasatka, Eagan

B.S.B. with distinction '79, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Jean Theresa Wangard

B.B.A. '83, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

Bruce Allen Whelan, Minneapolis

B.B.A. '84, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Ellen Elizabeth Widmark, Hibbing

B.A. '83, St. Cloud State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

Cindy Joan Wilcox, Owatonna

B.S. '84, School for International Training; M.S. '88, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Mary Peterson Williams, St. Paul

B.S. '63, Macalester College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. January Graduate.

Cheryl Ann Wilms, Minneapolis

B.A. magna cum laude '85, Wartburg College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. February Graduate.

Dennis Neil Wipperling, Bloomington

B.S. '75, Minot State College. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

John Walter Worthington, Minneapolis

B.C.S. '78, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. Graduation Pending.

Terri Lynn Wottrich, Roseville

B.A. '81, University of Denver. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

David Kaluen Yeung

B.Ch.E. high distinction '86, University of Minnesota. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Kerry Robert Yndestad, Minneapolis

B.S. '82, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

James Henry Zappa, Cumberland, Wis.

B.B.A. '75, Wisconsin State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. December Graduate.

Michael Andrew Zeman

B.A. with honors '81, University of Chicago. Major: Business Administration. Major Adviser: Prof. N.L. Chervany. January Graduate.

Mary Beata Zweber, Oakdale

B.S. '80, St. Cloud State University. Major: Business Administration. Major Adviser: Prof. D.R. Bell. March Graduate.

*Master of Business Administration***University of Minnesota, Duluth****Bruce Alan Browsers, Duluth**

B.S.M.E. with honors '72, Michigan Technological University. Major: Business Administration. Major Adviser: Prof. W.A. Jesswein. Graduation Pending.

Seok-Hyo Jang, Seoul, Korea

B.A. '84, Inha University. Major: Business Administration. Major Adviser: Prof. K.R. Knudsen. Graduation Pending.

Mark S. Sitek, Superior, Wis.

B.S. summa cum laude '81, University of Wisconsin. Major: Business Administration. Major Adviser: Prof. F.G. Dimian. March Graduate.

Adi Sofyan, Jakarta, Indonesia

Sarj. '82, Universitas Indonesia. Major: Business Administration. Major Adviser: Prof. K.R. Knudsen. Graduation Pending.

Master of Business Taxation

Daniel Lee Aitwegg, St. Paul

B.S. '76, Mankato State University; J.D. '80, Hamline University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. March Graduate.

Paul James Bischel, Farmington

B.A. '83, St. Thomas College. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

Thomas Whitmore Cronmiller, Appleton, Wis.

B.A. '81, Earlham College. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. February Graduate.

John Charles Demro, Nashua, Iowa

B.A. with honors '80, University of Northern Iowa. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. October Graduate.

Charles Anthony Fitzer, Coon Rapids

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

William Dan Frudden, Minneapolis

B.A. '82, University of Northern Iowa. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. December Graduate.

Laura Ann Hetchler, Loyal, Wis.

B.A. summa cum laude '81, University of Wisconsin. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. December Graduate.

Joseph Darwin Kenyon, Minneapolis

B.S. with distinction '73, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

Michael Elmer Newburg

B.B.A. with distinction '83, University of Wisconsin. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

Scott William Rynda, Minneapolis

B.S.B. '82, University of Minnesota. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. December Graduate.

Thomas Claude Tait, Jr., Rhinelander, Wis.

B.S. '69, Wisconsin State University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. December Graduate.

James Kevin Taylor, Brooklyn Park

B.S. '82, St. Cloud State University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. October Graduate.

Russell G. Taylor, Minneapolis

B.S. '71, State University College. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. Graduation Pending.

Jodi Kathrine Tomm

B.S. magna cum laude '83, Mankato State University. Major: Business Taxation. Major Adviser: Prof. F.R. Jacobs. October Graduate.

Master of Civil Engineering

Scott Matthew Korpi, Mountain Iron

B.S.C.E. '87, University of North Dakota. Major: Civil Engineering. Minor: Related Fields. Project: A Cross-Sectional Analysis Program. Major Adviser: Prof. T.V. Galambos. February Graduate.

Master of Electrical Engineering

Randall Lynn Dodson, New Hope

B.S. '83, DeVry Institute of Technology. Major: Electrical Engineering. Minor: Related Fields. Project: Interactive Bar Code Scanning System. Major Adviser: Prof. W.A. Plice. February Graduate.

Ronald Andrew Hagen

B.E.E. '80, University of Minnesota. Major: Electrical Engineering. Project: H-bus Specification Revision: 1.0. Major Adviser: Prof. W.A. Plice. Graduation Pending.

Master of Fine Arts

Kelly Ann Bertenshaw, Phoenix, Ariz.

B.F.A. '85, University of Arizona. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. E.H. Nash. Graduation Pending.

Christopher Edward Dashke, Caseyville, Ill.

B.A. '78, Southern Illinois University. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. W.E. Potratz. February Graduate.

Santos Fernandez, Cehegin, Spain

B.F.A. '79, University of Minnesota. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. W.E. Potratz. February Graduate.

Lynette Kim Henderson, Minneapolis

B.F.A. '86, Minneapolis College of Art and Design. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. W.N. Roode. Graduation Pending.

John Howell Hood, Tempe, Ariz.

B.F.A. '85, Arizona State University. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. Wendell Josal. November 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. Graduation Pending.

Dorothy Kay Schlesselman, St. Paul

B.A. '71, Macalester College; M.A. '79, Mankato State University. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. G.L. Hallman. January Graduate.

John Phillip Seibert, Carbondale, Ill.

B.S. '79, Southern Illinois University. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. E.H. Nash. November Graduate.

Nancy Ellen Silva, Sacramento, Calif.

B.A. '73, California State University. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Prof. H.L. Adey. March Graduate.

Linda Marie Young, Carmel, Ind.

B.A. '84, DePauw University. Major: Studio Arts. Minor: Related Fields. Major Adviser: Prof. K.E. Bethke. December Graduate.

Master of Music

Jon Brian Arnason, Edina

B.M. '88, University of Minnesota. Major: Music. Major Adviser: Prof. J.E. Anderson. Graduation Pending.

Paul Duane Babcock, Brooklyn Park

B.A. cum laude '87, Monmouth College. Major: Music. Major Adviser: Prof. B.E. Kopetz. December Graduate.

Esther Kathleen Cook

B.M. '81, University of Oregon. Major: Music. Major Adviser: Prof. D.W. Billmeyer. Graduation Pending.

Mary Kathryn Geston, Minneapolis

B.A. '79, North Dakota State University. Major: Music. Major Adviser: Prof. T.S. Lancaster. March Graduate.

Lois Jean Laitinen, Minneapolis

B.S. cum laude '75, University of Minnesota. Major: Music. Minor: Related Fields. Major Adviser: Prof. D.C. Ware. Graduation Pending.

Laure Ann Meloy, Jenison, Mich.

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

Master of Planning

Aaron Rubenstein, Minneapolis

B.A. '81, Northwestern University. Major: Planning. Major Adviser: Prof. R.C. Einsweiler. Graduation Pending.

Dennis Charles Washington, Detroit, Mich.

B.A. '87, Oakland University. Major: Planning. Major Adviser: Prof. J.M. Bryson. Graduation Pending.

Laures Gene Young, Shoreview

B.S. high distinction '76, University of Minnesota. Major: Planning. Major Adviser: Prof. R.C. Einsweiler. Graduation Pending.

Master of Science

Said Aboulfaraj, Meknes, Morocco

Ing. Agron. '83, Institut Agronomique et Veterinaire Hassan II. Major: Entomology. Minor: Related Fields. Thesis: Some Effects of the Shaparew Honey Drying Ventilator and Pollen Trap on Honey Bee (*Apis mellifera* L.) Colonies in East Central Minnesota. Major Adviser: Prof. Basil Furgala. January Graduate.

Sherril June Abrahamson, Minneapolis

B.S. magna cum laude '85, Mankato State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. R.D. Lindquist. March Graduate.

Mariquita Aurora Accibal, Trenton, N.J.

A.B. '86, Smith College. Major: Chemistry. Minor: Related Fields. Thesis: Comparison of Several Cu(I) and Cu(II) Precursors for the Sol-Gel Preparation of High Tc Superconducting Metal Oxides. Major Adviser: Prof. W.L. Gladfelter. March Graduate.

Janice Woodman Alden, Chanhassen

S.B. '62, Simmons College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.A. Corcoran. December Graduate.

Janet Lynn Andersen, Minneapolis

B.A. summa cum laude '79, LeTourneau College. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. J.L. Roberts. November Graduate.

Debra Marie Anderson

B.S.N. '77, University of Wisconsin. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. Graduation Pending.

Mary Cecilia Anderson, Burnsville

B.S. '79, South Dakota State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. R.D. Lindquist. December Graduate.

Paul Leighton Anderson, Apple Valley

D.V.M. '75, Iowa State University. Major: Veterinary Medicine. Minor: Related Fields. Thesis: Factors Associated with the Circulation of Pseudorabies Virus in Swine Herds. Major Adviser: Prof. R.B. Morrison. November Graduate.

Dora E. Angelaki, Greece

Dipl. '85, National Technical University of Athens. Major: Biomedical Engineering. Minor: Electrical Engineering. Thesis: Polarization Vector of Otolith Afferents. Major Adviser: Prof. R.E. Poppele. Graduation Pending.

Eleazar Antonio Antunez, Peru

Med.Cir. '78, Universidad Peruana "Cayetano Heredia." Major: Laboratory Medicine. Minor: Pathobiology. Thesis: Enzyme Immunoassay for Quantitation of the Classical Pathway of the Complement System Using a Monoclonal Antibody to C9 Neoantigen. Major Adviser: Prof. Walid Yasmineh. October Graduate.

Julie Rae Apolinario, Ankeny, Iowa

B.S. with honors '83, Iowa State University. Major: Forestry. Minor: Related Fields. Thesis: The Use of a Remote Sensing Based Geographic Information System to Estimate Soil Loss. Major Adviser: Prof. M.E. Bauer. Graduation Pending.

Boedi Armanto

Sarj. '82, Institut Pertanian Bogor. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. V.W. Ruttan. February Graduate.

David Lloyd Aspie, Aurora

B.S. magna cum laude '86, University of Minnesota. Major: Geo-Engineering. Minor: Statistics. Thesis: The Cost of Classification Errors in Geologic Site Characterization. Major Adviser: Prof. R.J. Barnes. February Graduate.

Zine El Abidine Attia El Hili, Tunisia

Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. A.R. Tripathi. March Graduate.

Lance Bischoff Augustin, Chicago, Ill.

B.S. '81, Northern Illinois University. Major: Biochemistry. Minor: Related Fields. Thesis: Changes in a Telomere Related Sequence Are Associated with Human Leukemias and Lymphomas. Major Adviser: Prof. J.L. Schottel. Graduation Pending.

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. Graduation Pending.

Alberto Back, Brazil

Med.Vet. '77, Universidade Federal de Santa Maria. Major: Veterinary Microbiology. Minor: Related Fields. Thesis: Pathogenicity of Chicken Reovirus Strains S1133 and 1733 for Turkeys. Major Adviser: Prof. K.V. Nagaraja. October 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. Graduation Pending.

Dorothy Moen Baker, Eagan

B.S. high distinction '71, University of Minnesota. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. M.B. Ryden. Graduation Pending.

Steven Balaban

B.S. cum laude '86, University of North Dakota. Major: Chemistry. Minor: Related Fields. Thesis: Phosphine Exchange Reaction of Organogold Compounds and a Mixed-Metal Gold Cluster. Major Adviser: Prof. L.H. Pignolet. Graduation Pending.

William Michael Bartodziej

B.S. '86, University of Minnesota. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. J.A. Perry. Graduation Pending.

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. Graduation Pending.

Matthew Anthony Bergan, Hibbing

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

Peter Mason Bierman

B.S. with distinction '85, University of Minnesota. Major: Horticulture. Minor: Related Fields. Thesis: Nutritional Factors Affecting Leaf Edge Burn on Poinsettia Stock Plants. Major Adviser: Prof. H.F. Wilkins. December Graduate.

Karla Anne Brasaemle

B.A. cum laude '80, B.S. with honors '80, Case Western Reserve University. Major: Geophysics. Minor: Related Fields. Thesis: A Refinement of a Heat-Flow Based Model for the Evolution of the Continental Crust. Major Adviser: Prof. G.H. Shaw. December Graduate.

Doreen Lynn Brass, Marshall

B.S. '80, South Dakota State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. November Graduate.

Ruth A. Bryant, Shoreview

B.S. '76, Mount Marty College. Major: Nursing. Minor: Related Fields. Thesis: Anxiety Differences Between Blunters and Monitors After Receiving Standardized Teaching. Major Adviser: Prof. Mariah Snyder. Graduation Pending.

James Marlowe Bullis, St. Paul

B.C.S. 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. Graduation Pending.

Brenda Kathleen Burk, Amboy

B.S. summa cum laude '87, Mankato State University. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: Regional-Cost-of-Living Comparisons, with Specific Application to Minnesota. Major Adviser: Prof. G.L. Nelson. Graduation Pending.

Dianne Lee Bynum, Andover

B.S. '78, University of Southern Mississippi. Major: Nursing. Minor: Related Fields. Thesis: The Effect of Purposeful Touch Upon ICP Levels in Head Injured Comatose Patients. Major Adviser: Prof. Mariah Snyder. March Graduate.

Joan Kay Callahan, La Crescent

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

Corey Dean Carlson, Clarissa

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

Michael Thomas Catalano, New Prague

B.A. summa cum laude '84, St. Olaf College. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. J.L. Roberts. January Graduate.

Maria Benedict Cecilio, Lisboa, Portugal

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

Lap-Chiu Gary Chan, Hong Kong

B.Pharm. '83, University of Bradford. Major: Hospital Pharmacy. Minor: Related Fields. Thesis: Pharmacokinetics of 6-Thiouric Acid in Renal Allograft Recipients: Evaluation for Use in Monitoring Azathioprine Therapy. Major Adviser: Prof. D.M. Canafax. November Graduate.

Kevin Edward Charlwood, Menomonee Falls, Wis.

B.S. magna cum laude '86, Carroll College. Major: Mathematics. Minor: Mechanical Engineering. Major Adviser: Prof. D.G. Aronson. October Graduate.

Shuyuan Chen, Singapore

B.C.S. '84, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. December Graduate.

Yong Chen, Nanjiang, Jiangsu, China

B.S. '82, Nanjiang Forestry University. Major: Forestry. Minor: Related Fields. Thesis: Paper Birch as the Core Material for Aspen-Oriented Strand Board. Major Adviser: Prof. R.O. Gertjensen. January Graduate.

Thim Kian Cheng, Penang, Malaysia

B.S. '84, National Taiwan University. Major: Animal Science. Minor: Related Fields. Thesis: Calcium Feeding Studies with Laying Hens. Major Adviser: Prof. C.N. Coon. March Graduate.

Xiaoxi Cheng, Changchun, China

Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. R.M. Hardt. March Graduate.

Iwen Chiu, Taipei, Taiwan

B.S. '87, National Taiwan University. Major: Food Science. Minor: Biochemistry. Thesis: Use of Nisin Producing Lactic Streptococci for Control of Listeria monocytogenes in Cheese. Major Adviser: Prof. S.R. Tatini. Graduation Pending.

Leemin Chong, Malaysia

B.C.S. high distinction '86; M.B.A. '88, University of Minnesota. Major: Computer and Information Sciences. Minor: Business Administration. Major Adviser: Prof. W.T. Tsai. February Graduate.

Beverly Ann Chookiatsirichai

B.A. '78, Bethel College. Major: Laboratory Medicine. Minor: Related Fields. Thesis: Evaluation of Dual Column Procedure for Metanephrines with Special Emphasis on Drug Interference. Major Adviser: Prof. E.F. Freier. December Graduate.

Heidi Joyce Christensen, St. Paul

B.S. '85, St. Olaf College. Major: Public Health. Minor: Related Fields. Thesis: Parental Distress in the Home Care of Medically Fragile Children. Major Adviser: Prof. R.W. ten Bensel. Graduation Pending.

Amy Therese Christopherson, St. Paul

B.S.A. honors '86, University of Arkansas. Major: Food Science. Minor: Related Fields. Thesis: Growth and Activity of Mesophilic Lactic Acid Bacteria in Ultrafiltered Milk, Whey, and Their Permeates. Major Adviser: Prof. E.A. Zottola. October Graduate.

King Leung Chu, Hong Kong

B. C. S. with distinction '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.B. Thompson. October Graduate.

Jeanne Austwick Ciborowski, St. Paul

B.A. '80, University of New York. Major: Plant Pathology. Minor: Related Fields. Thesis: Studies of Purple Spot on Asparagus, Caused by *Stemphylium vesicarium*, in Minnesota. Major Adviser: Prof. J.A. Percich. March Graduate.

Krista Ann Coleman, Charleston, Ill.

B.S. '78, Eastern Illinois University; B.S. Phys. Therapy '80, University of Illinois. Major: Physical Therapy. Minor: Related Fields. Thesis: The Effect of Selected Modalities on Transthoracic Electrical Impedance Measurements. Major Adviser: Prof. R.P. Patterson. December Graduate.

Charles Wheaton Congdon, Richmond, Mass.

B.A. cum laude '86, Williams College. Major: Astronomy. Minor: Related Fields. Thesis: The Effects of Mass Loss on Subsequent Star Formation and the Evolution of Galaxies. Major Adviser: Prof. R.C. Kennicutt. November Graduate.

Blanca Elena Contreras, San Salvador, El Salvador

Lic. '85, La Universidad Centroamericana "Jose Simeon Canas." Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Patrick Powell. December Graduate.

Sabrina Michiko Cook

B.S. '86, Michigan State University. Major: Soil Science. Minor: Related Fields. Thesis: Influence of Soil Physical Properties on Mungbean Emergence in Rice Soils. Major Adviser: Prof. S.C. Gupta. February Graduate.

Jeffrey Alan Cooper, Minneapolis

B.A. magna cum laude '84, Gustavus Adolphus College. Major: Biochemistry. Minor: Related Fields. Thesis: Sequence Characterization of Sterol Carrier Protein from Rat Liver, Heart, and Kidney Tissue. Major Adviser: Prof. M.E. Dempsey. November Graduate.

Eduardo Eugenio Corpeno, San Salvador, El Salvador

Ing. Quim. '75, La Universidad Centroamericana. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Patrick Powell. January Graduate.

Mary Margaret Cullen

B.S. '85, University of Minnesota. Major: Laboratory Medicine. Minor: Pathobiology. Thesis: Characterization of Monoclonal Antibody 13B3. Major Adviser: Prof. D.A. Valleria. October Graduate.

Monica Mary Daniel, Flint, Mich.

B.S. '83, Cornell University; B.S.N. cum laude '86, Creighton University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. January Graduate.

Houdin Dehnad

B.S. '84, Washington University. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Prof. P.L. Blackshear. December Graduate.

Barbara Catherine Delaney

B.A. '79, College of Wooster. Major: Botany. Minor: Ecology. Thesis: Early Stages of Old-Field Succession in East Central Minnesota. Major Adviser: Prof. Thomas Morley. December 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. Graduation Pending.

Hyonseung Dho, Korea

B.S. '85, Cheongju University. Major: Mineral Engineering. Minor: Related Fields. Thesis: Role of Sodium Silicate in Phosphate Flotation. Major Adviser: Prof. Iwao Iwasaki. October Graduate.

Anastasios Dimitropoulos

Dipl. '85, National and Capodistrian University of Athens. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.R. Slagle. March Graduate.

Murray Eldon Dixon, Calgary, Alberta, Canada

B.S. '85, University of Calgary. Major: Astronomy. Minor: Related Fields. Thesis: Spectral Synthesis of Galaxies. Major Adviser: Prof. R.C. Kennicutt. February Graduate.

Jane Ellen Donaho, St. Paul

B.E.S. '74, University of Minnesota; M.A. '80, United Theological Seminary, Twin Cities. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Maria Gini. October Graduate.

Julie Marie Dorn, St. Cloud

B.S. with distinction '86, University of Minnesota. Major: Animal Physiology. Minor: Related Fields. Thesis: Biopotency of Human Growth Hormone Releasing Factor and Analogs in Sheep and Cattle. Major Adviser: Prof. J.E. Wheaton. Graduation Pending.

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. Graduation Pending.

Karlyn Kay Eckman

B.E.S. '77, University of Minnesota; M.A. '81, Johns Hopkins University. Major: Forestry. Minor: Related Fields. Thesis: Measurement of Land Degradation; Implications for Sustainability of Land Use in East and Southern Africa: A Watershed Perspective. Major Adviser: Prof. H.M. Gregerson. Graduation Pending.

Daryll Anton Emery

B.S. '76, Mankato State University. Major: Veterinary Microbiology. Minor: Related Fields. Thesis: The Development of a Temperature Sensitive Mutant of *Escherichia Coli* for the Control of Colibacillosis Caused by Serotype 078 in Turkeys. Major Adviser: Prof. K.V. Nagaraya. March Graduate.

Anne Lana Erdmann

B.S. with honor '81, California Institute of Technology. Major: Geophysics. Minor: Geology. Thesis: A Paleomagnetic Investigation of the Ankareh Formation, Overthrust Belt, Utah. Major Adviser: Prof. S.K. Banerjee. December Graduate.

Phillip Julius Ernst

B.S. cum laude '82, D.D.S. '86, Creighton University. Major: Dentistry. Minor: Related Fields. Thesis: A Histologic Evaluation of Various Periodontal Regenerative Procedures in Primates. Major Adviser: Prof. J.E. Hinrichs. December Graduate.

Peggy Jo Espey, Byron

B.S. '77, Mankato State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.A. Corcoran. January Graduate.

Anne Elizabeth Faassen, Minneapolis

B.A. '84, St. Olaf College. Major: Clinical Laboratory Science. Minor: Pathobiology. Thesis: Diminished Synthesis of Two Heat Shock Proteins by Mitogen-Activated Human T Lymphocytes in Advanced Age. Major Adviser: Prof. H.M. Hallgren. December Graduate.

Cesar Augusto Falconi, Lima, Peru

Bach. '84, Lic. '84, Universidad del Pacifico. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. J.P. Houck. January Graduate.

Zahra Ferji, Azrou, Morocco

Dipl. '82, Institut Agronomique et Veterinaire Hassan II. Major: Plant Pathology. Minor: Related Fields. Thesis: Role of Small Bacilliform Virus in Etiology of Top Spotting Disease of Kalanchoe blossfeldiana and Some Properties of the Virus. Major Adviser: Prof. B.E.L. Lockhart. January Graduate.

Carol Mattson Francis, Onamia

B.S.N. cum laude '75, St. Olaf College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. V.C. Gordon. March Graduate.

Cynthia Anne Gauger, San Antonio, Tex.

B.Hlth.S. with honors '80, University of Florida. Major: Medical Technology. Minor: Related Fields. Thesis: Double Immunoenzymatic Labeling for Simultaneous Demonstration of Two Immunologic Markers. Major Adviser: Prof. R.D. Brunning. Graduation Pending.

Rene Jo Gelecinskyj

B.A. '86, University of Minnesota. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Prof. R.F. Johnson. Graduation Pending.

Laurella Lynn Gerholz, Minneapolis

B.A. '83, Gustavus Adolphus College. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Maria Gini. January Graduate.

Maureen Kay Gerson, Winona

B.S. magna cum laude '80, Winona State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. E.C. Egan. February Graduate.

Daniel Helof Gillman

B.A. '77, University of Minnesota. Major: Plant Pathology. Minor: Related Fields. Thesis: The Use of Anhydrous Ammonia as a Microbial Inhibitor While Drying High-Moisture Corn with Ambient Air. Major Adviser: Prof. R.A. Meronuck. January Graduate.

Joretta Marlene Graves

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

Haile Kebede Haile, Addis Ababa, Ethiopia

B.Phys. with high distinction '84, University of Minnesota. Major: Mathematics. Minor: Physics. Major Adviser: Prof. P.B. Garrett. November 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. J.W. Halley. Graduation Pending.

Kyungsook Han, Inchon, 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. Graduation Pending.

Timothy Payne Hanson, Minneapolis

B.A. '83, St. Olaf College. Major: Biochemistry. Minor: Related Fields. Thesis: Calmodulin Interaction with Cardiac Sarcoplasmic Reticulum. Major Adviser: Prof. C.F. Louis. January Graduate.

Wantasanee Hanyanun, Bangkok, Thailand

D.V.M. '86, Chulalong Korn University. Major: Veterinary Medicine. Minor: Related Fields. Major Adviser: Prof. R.A. Robinson. Graduation Pending.

Beth Anne Hassler, Roseville

B.S.Cer.E. '80, B.S. '80, University of Washington. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: High Tc Superconducting Thin Films by Sol-Gel Coating. Major Adviser: Prof. M.L. Mecartney. December Graduate.

Kenneth Glenn Heisler, Minneapolis

B.S. '59, University of Maryland. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. February Graduate.

Changfa Hong

Major: Geo-Engineering. Minor: Related Fields. Thesis: Back Analysis of the Initial Stress Field and the Equivalent Elastic Constants of the Rock Mass Surrounding a Cavity in a Regularly Jointed Rock Mass. Major Adviser: Prof. R.L. Sterling. March Graduate.

Bei Hu, Shanghai, China

B.S. '82, M.S. '84, East China Normal University. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. E.B. Fabes. March Graduate.

Shhkerou Carol Hwang, Taiwan

B.S. '81, National Taiwan University; M.A. '84, University of Maryland. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. February Graduate.

Erach Aspandiar Irani

Major: Computer and Information Sciences. Minor: Electrical Engineering. Major Adviser: Prof. J.R. Slagle. January Graduate.

Lauren Beth Jaye

B.A. '85, Evergreen State College; B.S. '86, University of New York. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. December Graduate.

Sean Terry Jiam, New York, N.Y.

B.S. summa cum laude '87, Texas A & M University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. Graduation Pending.

Bradford Willingham Johnson, Minneapolis

B.Math. '81, University of Minnesota. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. B.E. Fristedt. December Graduate.

Bradford Willingham Johnson, Minneapolis

B.Math. '81, University of Minnesota. Major: Physics. Minor: Related Fields. Major Adviser: Prof. J.W. Halley. Graduation Pending.

David Bruce William Jones, Bloomington

B.A. cum laude '86, St. Olaf College. Major: Environmental Health. Minor: Related Fields. Major Adviser: Prof. O.R. Ruschmeyer. October Graduate.

Chang Wook Kang, Daegu, Korea

B.A. '84, University of Minnesota. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. R.D. Cook. October Graduate.

Yoshikazu Kasho, Tagawa, Fukuoka, Japan

B.S.E. with honors '86, Case Western Reserve University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. March 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. Graduation Pending.

Nezha Khaless, Souk El Arba, Morocco

Dipl. Ing. Applic. '83, Institute Agronomique et Veterinaire Hassan II. Major: Plant Pathology. Minor: Related Fields. Thesis: Biological and Physicochemical Characterization of Bermuda Grass Etched-Line Virus. Major Adviser: Prof. B.E.L. Lockhart. January Graduate.

Danny Kilis

B.E.E. '85, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Eugene Ackerman. February Graduate.

Louellyn Janet King

B.S. '81, Augsburg College. Major: Nursing. Minor: Related Fields. Thesis: The Effects of Soothing Music on Intracranial Pressure. Major Adviser: Prof. Mariah Snyder. November 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. Graduation Pending.

Michael Scott Knutson, St. Paul

B.S. '78, University of Wisconsin. Major: Forestry. Minor: Civil Engineering. Major Adviser: Prof. B.M. Franck. October Graduate.

Astrid Annelor Koalska, Stewartville

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

Mary Ellen Koenen

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

Eric Lansing Kruger, Grand Marais

B.S. '84, University of Minnesota. Major: Forestry. Minor: Related Fields. Thesis: Studies of the Effects of Aluminum on the Growth and Root Hydraulic Conductance of *Quercus rubra* L. Major Adviser: Prof. E.I. Sucoff. December Graduate.

Patrice Jean LaHouze, Minnetonka

Lic. '69, Mait. '71, Université Paris Centre d'Orsay. Major: Computer and Information Sciences. Minor: Related Field. Thesis: Efficient Ray Tracing of Bezier Patches Using Resultants. Major Adviser: Prof. W.D. Munro. Graduation Pending.

Norma Kay Larson, Moorhead

B.U.S. '77; M.S. '80, North Dakota State University. Major: Nursing. Minor: Related Fields. Thesis: The Relationship Between Moral Judgement and Choice of Nursing Interventions. Major Adviser: Prof. Patricia Crisham. March Graduate.

Steve Lazar, Minneapolis

Dipl. '83, Technical Institute of Bucharest. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. J.R. Slagle. January Graduate.

Flavio Antonio Lazzari

Eng. Agron. '77, Universidade Federal do Parana. Major: Plant Pathology. Minor: Related Fields. Thesis: Moisture Variability in Soybean Blends and Storage-Fungi-Induced Dry Matter Loss. Major Adviser: Prof. R.A. Meronuck. December 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. Graduation Pending.

Kevin Donald Lee, Columbia Heights

B.S. '80, University of Minnesota. Major: Computer and Information Sciences. Minor: Mathematics. Major Adviser: Prof. D.L. Boley. October 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. Graduation Pending.

James Wallin LeVoir

B.A. '86, University of Minnesota. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. C.D. Parliament. March Graduate.

Mingde Li

B.S. '82, Beijing Forestry University. Major: Forestry. Minor: Statistics. Thesis: Red Pine as a Raw Material for Waferboard. Major Adviser: Prof. R.O. Gertjansen. January 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. Graduation Pending.

Glenda N. Lindseth

B.S. '75, North Dakota State University; M.A. '83, Central Michigan University. Major: Nursing. Minor: Related Fields. Thesis: Nurse's Self-Evaluation of Nutrition Intervention in Health Promotion. Major Adviser: Prof. Patricia Crisham. October Graduate.

Christopher Bond Little, South Australia

B.V.M.S. '82, Murdoch University. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Related Fields. Thesis: A Model of Traumatic Arthritis in the Horse: Hyaluronic Acid Concentration, Sulphated Glycosaminoglycan Concentration, and the Hydrogen Peroxide Scavenging Ability of the Synovial Fluid. Major Adviser: Prof. A.J. Lipowitz. January 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. Graduation Pending.

Rita Marie Mahowald, New Prague

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

Catherine Philips Malave, Woodbury

B.A. '81, University of Chicago. Major: Forestry. Minor: Statistics. Major Adviser: Prof. T.E. Burke. December 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. Graduation Pending.

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. Graduation Pending.

Paul Patrick Melchior, Shakopee

B.A. '85, St. Johns University. Major: Clinical Laboratory Science. Minor: Related Fields. Thesis: Interactions Between Translocating Intestinal Bacteria and Mononuclear Phagocytes. Major Adviser: Prof. C.L. Wells. March Graduate.

Cheryl Ann Middendorf, West Des Moines, Iowa

B.S. '72, Kearney State College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Jean Kintgen-Andrews. October 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. Graduation Pending.

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. Graduation Pending.

Akira Miyake, Tokyo, Japan

B.Ag. '80, M.Ag. '83, University of Tokyo. Major: Agricultural and Applied Economics. Minor: Economics. Major Adviser: Prof. V.W. Ruttan. October Graduate.

Bani Prasanna Mohanty, Cuttack, Orissa, India

B.S. '81, Sambalpur University; M.E. '83, Indian Institute of Science. Major: Mineral Engineering. Minor: Materials Science and Engineering. Thesis: Role of Catalysis in Direct Reduction of Ilmenite. Major Adviser: Prof. K.A. Smith. December Graduate.

Duck In Mok, Seoul, Korea

B.S. '77, Ewha Womans University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Maria Gini. November Graduate.

Richard James Moll, Milwaukee, Wis.

B.S. '80, University of Wisconsin. Major: Computer and Information Sciences. Minor: Mathematics. Major Adviser: Prof. S.M. Venkatesan. February Graduate.

Alan Edward Mozol, Dearborn, Mich.

B.S. '81, University of Michigan. Major: Technical Communication. Minor: Related Fields. Major Adviser: Prof. T.E. Pearsall. January Graduate.

David Morris Nelson, Champaign, Ill.

B.S. with honors '81, University of Illinois. Major: Fisheries. Minor: Related Fields. Thesis: Application of Diallel Crosses to Lake Trout (*Salvelinus namaycush*) Stock Evaluation. Major Adviser: Prof. A.R. Kapuscinski. January Graduate.

Janet Marie Neuwirth, Avon

B.S. cum laude '69, University of Michigan. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. Kathleen Sodergren. November Graduate.

Dolores Ann Nordquist, Mankato

B.S. '84, University of the State of New York. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. F.E. King. December Graduate.

Jennifer Joy Nyberg

B.A. cum laude '85, Hamline University. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Prof. J.P. Houck. October Graduate.

Julie Lee O'Leary

B.S. with honors '82, Michigan Technological University. Major: Horticulture. Minor: Related Fields. Major Adviser: Prof. D.B. White. January Graduate.

Chap-Liong Ong, Malaysia

B.S. honors '83, Universiti Sains Malaysia. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. Graduation Pending.

R. Jonathan Paetz, Muscatine, Iowa

B.A. '82, Luther College; B.S. with distinction '84, Iowa State University. Major: Geophysics. Minor: Related Fields. Thesis: Two-Dimensional Filtering of Shallow Seismic Data. Major Adviser: Prof. F.R. Schult. March Graduate.

Nathaniel John Page, Cavalier, N.D.

B.S. '86, North Dakota State University. Major: Plant Breeding. Minor: Plant Pathology. Thesis: An Evaluation of Factors Affecting Pollination Success of Wild Rice Under Greenhouse Conditions. Major Adviser: Prof. R.E. Stucker. November Graduate.

Christos Papadas, Corinth, Greece

Dipl. '86, Athens School of Economics and Business Science. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: The Farm-to-Retail Price Spreads and Linkages for Dairy Products. Major Adviser: Prof. J.W. Hammond. October Graduate.

Vinod Kumar Pareek

B.S. '65, B.E. '70, University of Rajasthan. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Oxidation of Silicon Carbide in an Alkali Vapor Environment. Major Adviser: Prof. D.A. Shores. October Graduate.

Choonsu Park, Korea

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

Nicholas Ralph Parker, Ontario, Canada

B.V.M.&S. '81, University of Edinburgh. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Related Fields. Major Adviser: Prof. D.D. Caywood. March Graduate.

Craig Edward Parman, St. Paul

B.S. '86, Missouri State University. Major: Physics. Minor: Related Fields. Major Adviser: Prof. D.K. Dehnhard. December Graduate.

Ashvinbhai N. Patel

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

Carrie Jennings Patterson, North Canton, Ohio

B.A. '84, Northwestern University. Major: Geology. Minor: Related Fields. Thesis: Glaciological Variables of Drumlin Formation. Major Adviser: Prof. R.L. Hooke. Graduation Pending.

James Carroll Paulson, Peterson

B.S. 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. Graduation Pending.

Teresa Lee Pearson, Edina

B.S. cum laude '75, Winona State College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. S.A. Corcoran. January Graduate.

Thomas Michael Peters, Waseca

B.S. '80, University of Wisconsin. Major: Animal Science. Minor: Related Fields. Thesis: Energy Utilization for Maintenance and Gain by Holstein and Beef Steers. Major Adviser: Prof. R.D. Goodrich. Graduation Pending.

Barry George Peterson, Minneapolis

B.S. '75, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. O.H. Ibarra. Graduation Pending.

Thomas Howard Peterson, Minneapolis

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

Patricia Ann Philip, Mahtomedi

B.A. '83, University of Rochester. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Catalytic Oxidation of the Silicon (111) Surface. Major Adviser: Prof. Alfonso Franciosi. March Graduate.

Mary Elizabeth Pierik, Marcellus, N.Y.

B.S. cum laude '80, Alfred University. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Prof. A.G. Erdman. October 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. Gertjeansen. Graduation Pending.

Susan LaMotte Quinn, Mahtomedi

B.S. '78, College of St. Benedict. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. K.G. Dineen. February Graduate.

Vickie Lee Raffle, St. Paul

B.S. 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. Graduation Pending.

Gregory Paul Raymer, St. Louis, Mo.

B.S. '85, University of Missouri. Major: Biochemistry. Minor: Related Fields. Thesis: Cloning and Sequencing of the Extra Cellular Esterase Gene of *Streptomyces scabies*. Major Adviser: Prof. J.L. Schottel. March 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. Graduation Pending.

Pamela Jean Roesler, Staten Island, N.Y.

B.S. '82, University of the State of New York. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. M.R. Gustafson. January 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. Graduation Pending.

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. Graduation Pending.

Lore Megan Ruttan, Minneapolis

B.A. '84, University of Chicago. Major: Ecology. Minor: Related Fields. Thesis: The Ecology of Subsociality in *Theridion pictum* (Walckenaer), (Araneae: Theridiidae). Major Adviser: Prof. Craig Packer. December Graduate.

Vicente Carlos Santa-Cruz, Santiago, Chile

Ing.For. '86, Universidad de Chile. Major: Forestry. Minor: Business Administration. Major Adviser: Prof. H.M. Gregersen. December Graduate.

Karl Joseph Sauter

B.S. with honors '85, Michigan State University. Major: Plant Breeding. Minor: Related Fields. Thesis: The Inheritance of High Temperature Tolerance in *Phaseolus vulgaris* L. and Its Determination with the Measurement of Ethylene Evolution. Major Adviser: Prof. D.W. Davis. October Graduate.

Susan Marie Sawyer-DeMaris, Minneapolis

B.S. '80, Mankato State University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. V.C. Gordon. December Graduate.

Sheila Ann Schils, River Falls, Wis.

B.S. cum laude '79, William Woods College. Major: Animal Science. Minor: Related Fields. Major Adviser: Prof. R.M. Jordan. October Graduate.

James David Schuman, Mount Pleasant, S.C.

B.S. cum laude '86, Clemson University. Major: Food Science. Minor: Related Fields. Thesis: Genetic Characterization of a Foodborne Multiple-Antibiotic-Resistant *Salmonella typhimurium* Strain. Major Adviser: Prof. E.A. Zottola. October Graduate.

Michael Mathias Schutz, Eden Valley

B.S. with high distinction '84, University of Minnesota. Major: Animal Science. Minor: Statistics. Thesis: Characterization of Protein Yield, Content, and Quality in Milk from Dairy Cattle. Major Adviser: Prof. L.B. Hansen. February 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. Graduation Pending.

Rodney Arthur Serres, La Crescent

B.S. with distinction '85, Iowa State University. Major: Horticulture. Minor: Plant Physiology. Thesis: Factors Affecting in vitro Rooting of American Chestnut. Major Adviser: Prof. P.E. Read. November 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. Graduation Pending.

Poonam Sharma, Delhi, India

M.S. '87, University of Delhi. Major: Botany. Minor: Genetics. Major Adviser: Prof. D.D. Biesboer. December Graduate.

Dixon Neal Shelstad, Minneapolis

B.S. '75, University of Minnesota. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. D.W. French. February Graduate.

Hongru Shen, Jiangsu, China

B.S. '82, Shanghai Jiaotong University. Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. D.H. Sattinger. March Graduate.

Habibeh Shokohi-Razmpour

B.S. '74, Tehran University. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. A.M. Sime. March Graduate.

Xin Chun Shu

Major: Physiology. Minor: Related Fields. Major Adviser: Prof. J.H. Anderson. March Graduate.

Daniel Chin-To Siu, Hong Kong

B.S. '86, University of Texas. Major: Chemistry. Minor: Related Fields. Thesis: Spectroscopic Studies of Protocatechuate 3,4-Dioxygenase from *Brevibacterium fuscum*. Major Adviser: Prof. Lawrence Que, Jr. March Graduate.

Paul Martin Sivanich, Minnetonka

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

Paul David Spencer, North Branch

B.S. cum laude '86, St. Cloud State University. Major: Fisheries. Minor: Statistics. Thesis: Angler Expectations as a Factor in the Perception of Quality of the Fishing Experience. Major Adviser: Prof. G.R. Spangler. January Graduate.

Richard Andrew Stevens, Rochester

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

Diane Reque Storvick, Alexandria

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

Angela Airoidi Strantz, St. Paul

B.S. '82, University of Wisconsin. Major: Food Science. Minor: Related Fields. Thesis: Survival of Salmonella at Low Temperatures. Major Adviser: Prof. E.A. Zottola. October Graduate.

Kimiati Sutedja, Indonesia

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

Lisya Syu, Tainan, Taiwan

B.S. '85, National Kaohsiung Teachers College. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. W.T. Tsai. Graduation Pending.

Masao Taguchi, Japan

B.Ag. '76, Kyoto University. Major: Food Science. Minor: Related Fields. Thesis: Effects of Variety, Calcium Composition, and Heating Methods on Fracturability of Potato Tissues Treated by Prewarming. Major Adviser: Prof. H.W. Schafer. November Graduate.

Henry Tanadjaja, Indonesia

Major: Physics. Minor: Related Fields. Major Adviser: Prof. T.F. Walsh. Graduation Pending.

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. Graduation Pending.

Paul Alan Tessene, East Troy, Wis.

A.B. cum laude '79, Ripon College. Major: Botany. Minor: Ecology. Major Adviser: Prof. Thomas Morley. January 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. Graduation Pending.

Hezekiah Michael Thuo, Nairobi, Kenya

B.Pharm. '84, University of Nairobi. Major: Social and Administrative Pharmacy. Minor: Related Fields. Major Adviser: Prof. A.I. Wertheimer. November Graduate.

Nacir Tit, Algeria

Dipl. '85, Universite d'Oran. Major: Physics. Minor: Related Fields. Major Adviser: Prof. J.W. Halley. February Graduate.

Elizabeth Ann Tomczyk, Stillwater

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

Frank Jennings Treadwell

B.S. with honors '82, Michigan State University. Major: Plant Breeding. Minor: Plant Pathology. Thesis: A Predictive Formula for Estimating Optimum Progeny Size. Major Adviser: Prof. F.I. Lauer. February Graduate.

Ioana Alexandra Triandaf

Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. Bernardo Cockburn. October Graduate.

Chuen Chyi Tseng

B.D.S. '79, National Taiwan University. Major: Dentistry. Minor: Related Fields. Thesis: Stannous Fluoride Effect on Oral Bacteria: An in vitro Study. Major Adviser: Prof. J.E. Hinrichs. October Graduate.

Karen Louise Updegraff

B.A. honors '81, Earlham College. Major: Forestry. Minor: Soil Science. Thesis: The Nitrogen Budget in a Hybrid Poplar Plantation in Minnesota. Major Adviser: Prof. D.F. Grigal. December Graduate.

Kurt Michael Vandenberg, Kaukauna, Wis.

B.S. '85, Marquette University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Patrick Powell. January Graduate.

Philippe Vandeweghe, France

Dipl. Agron. Gen. '85, Institut National Agronomique Paris-Grignon. Major: Food Science. Minor: Related Fields. Thesis: Flavor Compounds of Significance in Cheddar Cheese. Major Adviser: Prof. G.A. Reineccius. January 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. Graduation Pending.

Dani Bich-Nga Vinh

B.S. '84, University of Minnesota. Major: Clinical Laboratory Science. Minor: Genetics. Thesis: Effect of Different Retroviral Regulatory Elements on Retroviral-Mediated Gene Insertion and Expression in Murine Hematopoietic Tissue. Major Adviser: Prof. R.S. McIvor. March Graduate.

John Gyula Virag, Jr.

B.A. '80, University of Denver; D.M.D. '84, University of Kentucky. Major: Dentistry. Minor: Related Fields. Thesis: Periodontal Disease in Twins: Further Investigations. Major Adviser: Prof. J.E. Hinrichs. November Graduate.

Robert Paul Wawrzynski, Fort Collins, Colo.

B.S. '86, Colorado State University. Major: Entomology. Minor: Related Fields. Thesis: Ash Flower Gall: Sampling Distribution, Chemical Management, and Effect on Tree Vitality. Major Adviser: Prof. M.E. Ascerno. March Graduate.

Renae Marie Weber, Minneapolis

B.C.S. with distinction '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. S.J. Krolkoski. January Graduate.

Steven Leigh Wickstrom, Hopkins

B.A. '82, B.S. '82, Winona State University. Major: Statistics. Minor: Operations Research. Major Adviser: Prof. D.A. Berry. October Graduate.

Bede Daniel Willenbring, Cold Spring

B.A. '70, St. John's University. Major: Chemistry. Minor: Related Fields. Thesis: A Temperature-Programmed Desorption Study of Polar Molecules Sorbed into Nafion Thin Films. Major Adviser: Prof. J.F. Evans. January 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. Graduation Pending.

Gayla Dianne Winslow, Rochester

B.S.N. '80, Grandview College. Major: Nursing. Minor: Related Fields. Major Adviser: Prof. E.C. Egan. January 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. Graduation Pending.

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. Graduation Pending.

James Andrew Wolfe Wood, Minneapolis

B.A. '80, University of Illinois. Major: Microbial Engineering. Minor: Related Fields. Major Adviser: Prof. M.C. Flickinger. January Graduate.

Weng Kee Wong

B.S. honors '83, National University of Singapore; M.S. '85, University of Wisconsin. Major: Statistics. Minor: Related Fields. Major Adviser: Prof. R.D. Cook. March Graduate.

Kari Lynn Wright, Wadena

B.S. '83, South Dakota State University. Major: Animal Science. Minor: Related Fields. Thesis: White Lupins and Triticale in Calf Starters. Major Adviser: Prof. D.E. Otterby. October Graduate.

Carol Ruth Wylie, Okemos, Mich.

B.S. '83, Michigan State University. Major: Horticulture. Minor: Related Fields. Thesis: Changes in Endogenous Cytokinins in Relation to Soybean (*Glycine max*(L.) Merrill) Pod Set. Major Adviser: Prof. M.L. Brenner. February 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. Graduation Pending.

Viboon Yiengvisavakul, Bangkok, Thailand

D.V.M. '82, Kasetsart University. Major: Theriogenology. Minor: Related Fields. Major Adviser: Prof. M.L. Fahning. February Graduate.

Mary Kathryn Zaim, St. Paul

B.A. with honor '77, Hamline University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. Maria Gini. October Graduate.

Carol Joseph Zakkour, Lebanon

B.S. '84, American University of Beirut. Major: Horticulture. Minor: Related Fields. Thesis: Quantifying Vegetative Growth in *Euphorbia pulcherrima* as Controlled by Temperature and Irradiance. Major Adviser: Prof. H.F. Wilkins. March Graduate.

Giovanni Zanzotto

Laurea '84, Universita Degli Studi Di Padova. Major: Mechanics. Minor: Related Fields. Thesis: Thermoelastic Stability of Multiple Growth Twins in Quartz and General Geobarothermometric Implications. Major Adviser: Prof. J.L. Ericksen. November Graduate.

Minyi Zhou

B. Agronomy '82, Guangxi Agricultural College. Major: Forestry. Minor: Related Fields. Major Adviser: Prof. E.I. Sucoff. December Graduate.

Xiaodong Zhou, Wuxi, Jiangsu, China

Major: Mathematics. Minor: Related Fields. Major Adviser: Prof. R.M. Hardt. October Graduate.

Master of Science

University of Minnesota, Duluth

Glenn Richard Andreas, Duluth

B.A. '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Visual Analysis of Information in a Clustered Search Environment. Major Adviser: Prof. D.B. Crouch. Graduation Pending.

James Edward Angelo, Superior, Wis.

B.S. summa cum laude '86, University of Wisconsin. Major: Physics. Minor: Related Fields. Thesis: A Movep Reactor for II-VI Compounds. Major Adviser: Prof. Michael Sydor. October Graduate.

Lonnie Lee Baumgardt, McGregor

B.S. magna cum laude '78, Mankato State University. Major: Biology. Minor: Education. Major Adviser: Prof. G.E. Ahlgren. December Graduate.

Brant Douglas Deppa, Cloquet

B.S. '88, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Prof. R.R. Regal. Graduation Pending.

Samuel Eshete

B.A. '85, Augsburg College. Major: Physics. Minor: Related Fields. Major Adviser: Prof. B.R. Casserberg. December Graduate.

Thomas Jefferson Fitz III, Harvard, Mass.

B.S. '83, St. Lawrence University. Major: Geology. Minor: Related Fields. Thesis: Large Felsic Flows in the Keweenawan North Shore Volcanic Group in Cook County, Minnesota. Major Adviser: Prof. J.C. Green. December Graduate.

Ann Marie Gross, Rockville

B.S. cum laude '86, Bemidji State University. Major: Chemistry. Minor: Physiology. Thesis: The Effect of Copper Deficiency on Norepinephrine in Mice. Major Adviser: Prof. J.R. Prohaska. February Graduate.

Bonnie Ann Hatten, Duluth

B.A. magna cum laude '86, University of Minnesota. Major: Biology. Minor: Related Fields. Thesis: Cytogenetic Studies on *Catostomus commersoni* (White Sucker). Major Adviser: Prof. S.C. Hedman. Graduation Pending.

Craig Francis Haut, Davenport, Iowa

B.S. '84, St. Ambrose College. Major: Biology. Minor: Chemistry. Thesis: The Effects of Short-Term Aluminum Exposure on Demineralized Bone Matrix (DBM)-Induced Bone Formation. Major Adviser: Prof. C.E. Firling. March Graduate.

Keith Michael Hill, Chisholm

B.A.Sc. '85, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Prof. D.E. Anderson. Graduation Pending.

George Julius Hudak III, Duluth

B.A. '84, Carlton 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. Graduation Pending.

Peter Kiebel Jongewaard, Canyon

B.S. '86, University of Minnesota. Major: Geology. Thesis: Physical Volcanology and Hydrothermal Alteration of Footwall Rocks to the Archean Sturgeon Lake Massive Sulfide Deposit, Northwest Ontario. Major Adviser: Prof. R.L. Morton. Graduation Pending.

David Dalton Kingsley, Swan River

B.A. magna cum laude '86, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Prof. J.W. Rowell. Graduation Pending.

Chi-Cheng Lin, Kaohsiung, Taiwan

B.S. '85, National Chiao Tung University. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: D.J. Dunham. Graduation Pending.

Hui Liang Low

B.S. magna cum laude '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Prof. K.R. Pierce. Graduation Pending.

James Homer MacArthur, Brainerd

B.S. '82, University of Wisconsin. Major: Geology. Minor: Related Fields. Thesis: Deformation in the Archean Knife Lake Group, Vermilion District, Northeastern Minnesota. Major Adviser: Prof. T.B. Holst. January Graduate.

Glen William Merrick, Duluth

B.A. '84, Gustavus Adolphus College. Major: Biology. Minor: Education. Thesis: Lake Trout (*Salvelinus namaycush*) and Gentic Community Ecology in an Arctic Ecosystem. Major Adviser: Prof. A.E. Hershey. January Graduate.

Bridget Lane Rogers, Duluth

B.A. '87, University of Minnesota. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Unix Fileservers. Major Adviser: Prof. M.A. Luker. Graduation Pending.

Clyde Otto Rogers, Duluth

B.A. magna cum laude '86, University of Minnesota. Major: Computer and Information Sciences. Minor: Linguistics. Thesis: Enhancement to Ziv-Lempel Text Compression. Major Adviser: Prof. C.D. Thompson. Graduation Pending.

Arlene Beth Rothstein, Duluth

A.B. '81, University of Michigan. Major: Biology. Minor: Related Fields. Thesis: Factors Influencing the Distribution, Abundance, and Reproductive Success of Osprey (*Pandion haliaetus*) in Voyageurs National Park, Minnesota. Major Advisers: Profs. F.J. Cuthbert and D.P. Christian. October Graduate.

Jeffrey Allan Schuldt, Faribault

B.A. '85, Gustavus Adolphus College. Major: Biology. Thesis: Feeding Rates of Larval Fish in Lake Itasca. Major Adviser: Prof. M.C. Whiteside. Graduation Pending.

Margaret Mary Shaughnessy, Duluth

B.A. cum laude '84, St. Olaf College. Major: Biology. Minor: Related Fields. Thesis: Sodium Appetite in *Microtus pennsylvanicus*. Major Adviser: Prof. D.P. Christian. March Graduate.

Michael Joseph West, Medford, Ore.

B.S. '86, Southern Oregon State College. Major: Chemistry. Minor: Related Fields. Thesis: Studies of the Copper Anodic Stripping Voltammetric Doublet Wave. Major Adviser: Prof. T.J. Bydalek. January Graduate.

Bruce Christopher Williams, Duluth

B.S. '86, University of Minnesota. Major: Physics. Minor: Applied and Computational Mathematics. Thesis: Scanning Tunneling Microscopy: Operations and Applications Toward Localized Surface Analysis. Major Adviser: Prof. Jonathan Maps. January Graduate.

Jerome J. Wilson, Webster, Wis.

B.M. '68, Wisconsin State; B.S. magna cum laude '87 University of Wisconsin. Major: Physics. Minor: Applied and Computational Mathematics. Thesis: Photorefractive Characterization of GaAs: Temperature and Angle Dependence. Major Adviser: Prof. Michael Sydor. Graduation Pending.

Steven John Winters, Sauk Centre

B.A. '87, University of Minnesota. Major: Applied and Computational Mathematics. Minor: Related Fields. Thesis: Error Detecting Decimal Codes. Major Adviser: Prof. J.A. Gallian. Graduation Pending.

Qingnan Zhang, Chongqing, Sichuan, China

Dipl. '67, Sichuan University. Major: Physics. Minor: Applied and Computational Mathematics. Major Adviser: Prof. Michael Sydor. Graduation Pending.

*Master of Science in Aerospace Engineering***William James Brocker, Ashwaubenon, Wis.**

B.A.E.M. '87, University of Minnesota. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Prof. W.L. Garrard. March Graduate.

Brian David Bronson, Manitowoc, Wis.

B.A.E.M. '88, University of Minnesota. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Prof. W.L. Garrard. December 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. Graduation Pending.

David Joseph Mehigan, Whitefish Bay, Wis.

B.A.E.M. '86, University of Minnesota. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Prof. T.S. Lundgren. February Graduate.

Gautam Arawind Parasnis, Bombay, India

B.Tech. '87, Indian Institute of Technology Kanpur. Major: Aerospace Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. T.A. Wilson. February Graduate.

Pushpendra Singh, New Delhi, India

B.Tech. '85, Indian Institute of Technology Kanpur. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Prof. D.D. Joseph. Graduation Pending.

Keith Robert Stein, Falcon Heights

B.A. magna cum laude '87, Bethel College. Major: Aerospace Engineering. Minor: Mechanical Engineering. Major Adviser: Prof. Eugene Stolarik. Graduation Pending.

Salimuddin Zahir

B.Eng. '86, N.E.D. University of Engineering and Technology. Major: Aerospace Engineering. Minor: Mechanical Engineering. Major Adviser: Prof. Hiroshi Higuchi. October Graduate.

*Master of Science in Agricultural Engineering***James Edward Chapman, Glencoe**

B.Ag.E. '81, University of Minnesota. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Finite Element Modelling of Airflow Patterns in Flat Grain Storages. Major Adviser: Prof. R.V. Morey. December Graduate.

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. Morey. Graduation Pending.

Bartholomew F. J. Lynch, Ireland

B.E. '83, University College Dublin. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Fan Management Strategies for Ambient Air Drying of Corn. Major Adviser: Prof. R.V. Morey. October 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. Graduation Pending.

Master of Science in Chemical Engineering

Mayumi Maeda, Yokohama, Japan

B.A. cum laude '82, Kalamazoo College. Major: Chemical Engineering. Minor: Related Fields. Thesis: A Method for the Direct Measurement of Double-Layer Forces at the Electrode/Electrolyte Interface. Major Adviser: Prof. H.S. White. January Graduate.

Thomas Lee Ritzdorf, Shelby, Mont.

B.C.E. 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. March Graduate.

Sankar Sen, Calcutta, India

A.B. summa cum laude '85, Brandeis University. Major: Chemical Engineering. Minor: Related Fields. Thesis: Hybridoma Cell Growth and Antibody Production in Batch Suspension Culture: A Flow Cytometric Study. Major Adviser: Prof. W.S. Hu. January 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. Graduation Pending.

Robert Anthony Yapel, Falcon Heights

B.Ch.E. with high distinction '85, University of Minnesota. Major: Chemical Engineering. Minor: Related Fields. Thesis: A Physical Model of the Drying of Coated Films. Major Adviser: Prof. L.E. Scriven. November Graduate.

Master of Science in Civil Engineering

Iossif Argiropoulos, Athens, Greece

B.Eng. '87, National Technological University Athens. Major: Civil Engineering. Minor: Related Fields. Thesis: Advanced Simulation/Assignment Method for Real-Time Control in Freeway Corridors. Major Adviser: Prof. Y.J. Stephanedes. February Graduate.

Yu-yuen William Chang, Taiwan

B.S. '83, National Cheng Kung University. Major: Civil Engineering. Minor: Related Fields. Thesis: Selective Cyanide Recovery from Wastewater Containing Metal Cyanide Complexes. Major Adviser: Prof. M.J. Semmens. November Graduate.

Samir Abdelghani Hajjiri, Amman, Jordan

B.S. '86, University of Jordan. Major: Civil Engineering. Minor: Related Fields. Thesis: Derivation of Traffic Parameters Through Video Image Processing. Major Adviser: Prof. Panos Michalopoulos. March Graduate.

Srinivas Ramrao Kulkarni

B.E. '75, Bangalore University. Major: Civil Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. M.J. Semmens. Graduation Pending.

Murari N. Lakshminarayanan, Bangalore, India

B.Tech '86, Indian Institute of Technology, Madras. Major: Civil Engineering. Minor: Related Fields. Thesis: An Expert System for Strategic Response to Freeway Incidents. Major Adviser: Prof. Y.J. Stephanedes. Graduation Pending.

James Paul Loughlin, Tillson, N.Y.

B.C.E. '85, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Thesis: Experimental M-theta Curves for Semi-Rigid Composite Connections. Major Adviser: Prof. R.T. Leon. March Graduate.

Phillip Wayne Sauser, Chadron, Neb.

B.S. '86, South Dakota School of Mines and Technology. Major: Civil Engineering. Minor: Related Fields. Thesis: A Comparison of Bridge Rating Methods. Major Adviser: Prof. R.T. Leon. Graduation Pending.

Leslie Anne Sherman, Chicago, Ill.

B.A. cum laude '85, Carleton College. Major: Civil Engineering. Minor: Related Fields. Thesis: Sediment Porewater Chemistry of a Low Alkalinity Lake: Little Rock Lake, Wisconsin. Major Adviser: Prof. P.L. Brezonik. December Graduate.

Mitchell Jay Shields, Minnetonka

B.S. '85, magna cum laude '85, Winona State University. Major: Civil Engineering. Minor: Related Fields. Thesis: The Fate and Dynamics of Copper in Two Minnesota Lakes Following Treatment With Copper Sulfate. Major Adviser: Prof. P.L. Brezonik. February Graduate.

John Robert Thene, White Bear Lake

B.S.E. with distinction '86, University of Minnesota. Major: Civil Engineering. Minor: Related Fields. Thesis: Gas Transfer at Weirs Using the Hydrocarbon Gas Tracer Method with Headspace Analysis. Major Adviser: Prof. J.S. Gulliver. December Graduate.

Franz Emile Westermeier, Maple Grove

B.A. '65, College of St. Thomas. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Prof. H.G. Stefan. December Graduate.

Yifan Zheng, Longyun, China

B.S.Eng. '83, East-China Technical University of Water Resource. Major: Civil Engineering. Minor: Related Fields. Thesis: Numerical Simulation of Flow and Bed Topography Along Channel Bend. Major Adviser: Prof. C.C.S. Song. October Graduate.

Master of Science in Electrical Engineering

Afshin Amini, Minneapolis

B.S.E.E. '81, University of Wisconsin. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. A.H. Tewfik. March Graduate.

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. Graduation Pending.

Norman Albert Behnke, Blaine

B.S. '79, Michigan Technological University. Major: Electrical Engineering. Minor: Related Fields. Thesis: Output Evaluation of the Jarvik J7-100 Total Artificial Heart. Major Adviser: Prof. J.E. Holte. March Graduate.

Evgeny Jake Berzon, Minneapolis

B.S. '86, B.S. '86, University of Colorado. Major: Electrical Engineering. Minor: Mathematics. Major Adviser: Prof. K.S.P. Kumar. Graduation Pending.

Rohit Bhatia, New Delhi, India

B.S.E.E. cum laude '86, University of Houston. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. G.E. Sobelman. November Graduate.

Timothy Ernest Bianchi, Minneapolis

B.S.E.E. '86, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: Characterization of Rare Gas Radio Frequency Discharges. Major Adviser: Prof. D.W. Ernie. December Graduate.

William James Brocker, Ashwaubenon, Wis.

B.A.E.M. '87, University of Minnesota. Major: Electrical Engineering. Minor: Aerospace Engineering. Major Adviser: Prof. A.R. Tannenbaum. March Graduate.

Lam Quang Dang

B.S.E.E. '80, University of Iowa. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. L.L. Kinney. October Graduate.

Patrick Leonard Galvin, St. Louis Park

B.S.E.E. with distinction '86, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. W.A. Plice. October Graduate.

Douglas Robert Geston, Minneapolis

B.S. '83, North Dakota State University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. K.M. Buckley. November Graduate.

Bruce Arlen Getting, Little Canada

B.E.E. with distinction '85, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. N.K. Huang. March Graduate.

John Gerard Hayes, Ireland

B.E. '86, National University of Ireland. Major: Electrical Engineering. Minor: Related Fields. Thesis: Zero-Voltage Switching in a Constant Frequency Digitally Controlled Resonant DC-DC Power Converter. Major Adviser: Prof. Ned Mohan. January 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. Graduation Pending.

Mingjue Huang, Taiwan

B.S. '70, National Taiwan Normal University; M.S. '72, National TsingHua University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. J.H. Judy. January Graduate.

Layne Scott Ihrke, Eyota

B.M.E. '84, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Major Adviser: Prof. E.B. Lee. Graduation Pending.

Martin Frederick Kail, Inver Grove Heights

B.S. with distinction '82, Iowa State University of Science and Technology. Major: Electrical Engineering. Minor: Materials Science and Engineering. Major Adviser: Prof. S.A. Campbell. Graduation Pending.

Haizhang Li, China

Major: Electrical Engineering. Minor: Related Fields. Thesis: 3-D Reconstruction of Human Teeth. Major Adviser: Prof. J.E. Holte. January Graduate.

Nancy Jo Louwagie, Stillwater

B.S. '87, North Dakota State University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. J.E. Holte. Graduation Pending.

Eric Paul Lundberg

B.E.E. with distinction '86, University of Minnesota. Major: Electrical Engineering. Minor: Physics. Major Adviser: Prof. A.J. Vellois. Graduation Pending.

Thomas Nathan Marble, Minneapolis

B.E.E. '86, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: Voluntary Cardiorespiratory Synchronization and Health Enhancement. Major Advisers: Profs. J.E. Holte and O.H. Schmitt. December Graduate.

Joseph August Marks

B.E.E. '87, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. K.M. Buckley. Graduation Pending.

Jason Darrell McIntosh, North Branch

B.E.E. with distinction '87, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: Nonlinear Wave Propagation Through Rigid Porous Media. Major Adviser: Prof. R.F. Lambert. February Graduate.

Joseph Harold Mulkern, St. Paul

B.S. '80, North Dakota State University. Major: Electrical Engineering. Minor: Related Fields. Thesis: A Sinusoidal Line Rectifier Using a Zero-Voltage Switching Step-Up Converter. Major Adviser: Prof. Ned Mohan. February Graduate.

Gregory Scott Munson, Albert Lea

B.S. '86, North Dakota State University. Major: Electrical Engineering. Minor: Computer and Information Science. Major Adviser: Prof. K.K. Parhi. Graduation Pending.

Taun Van Ngo, Eden Prairie

B.E.E. '83, University of Minnesota. Major: Electrical Engineering. Major Adviser: Prof. Rolf Schaumann. Graduation Pending.

Gregg Stephen Panning, Anoka

B.E.E. high distinction '84, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. W.A. Plice. Graduation Pending.

Kenneth Richard Persons, Rochester

B.S. '78, Iowa State University of Science and Technology. Major: Electrical Engineering. Minor: Physics. Major Adviser: Prof. J.E. Holte. December Graduate.

Douglas Ronald Peterson, Coleraine

B.E.E. '86, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: A Bias/Amplifier Circuit for a Disc Drive with Magnetoresistive Transducers. Major Adviser: Prof. Rolf Schaumann. December Graduate.

Gale Sean Petrich

B.E.E. with high distinction '86, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Thesis: Time-Dependent Sublimation of AlGaAs Films Grown by Molecular Beam Epitaxy. Major Adviser: Prof. P.I. Cohen. January Graduate.

Lai Q. Pham, Vietnam

B.E.E. with distinction '88, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. K.K. Parhi. Graduation Pending.

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. Graduation Pending.

Alberto Spinoso Recio

Ing. '81, Instituto y de Estudios Superiores de Monterrey. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Knowledge-Based Spectral Estimation. Major Adviser: Prof. Mostafa Kaveh. November Graduate.

Jeffrey Alan Schweitzer, Minneapolis

B.E.E. high distinction '82, University of Minnesota. Major: Electrical Engineering. Minor: Mathematics. Thesis: A Fiber-Optic Probe for Intravascular Blood Gas Monitoring. Major Adviser: Prof. J.E. Holte. December 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. Graduation Pending.

Kevin John Stalsberg, White Bear Lake

B.S.E.E. with honors '81, University of Wisconsin. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. E.B. Lee. December Graduate.

Farry Tjhen, Cirebon, Indonesia

B.E.E. high distinction '87, University of Minnesota. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Prof. W.A. Plice. Graduation Pending.

Michael Floyd Toups, Baton Rouge, La.

B.S.E.E. summa cum laude '83, Louisiana State University and A&M College. Major: Electrical Engineering. Minor: Related Fields. Thesis: An Experimental Study of Ion Bombardment Energy Distributions in RF Discharges. Major Adviser: Prof. D.W. Ernie. January Graduate.

Judy Lynn Westby, Sebeka

B.S. with honor '86, North Dakota State University. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. W.A. Plice. December Graduate.

Dan Howard Ziegler, Brooklyn Center

B.S.E.E. '81, University of Minnesota. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Prof. R.M. Warner. February Graduate.

*Master of Science in Industrial Engineering***Linfu Hu**

B.S. '82, Shanghai Jiao Tong University. Major: Industrial Engineering. Minor: Related Fields. Thesis: A Formulation of Diagnostic System on Fault Localization. Major Adviser: Prof. S.R. Arora. November 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. Graduation Pending.

Kirby Jon Baumgard, Round Lake

B.M.E. '82, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: The Influence of a Ceramic Particle Trap on the Size Distribution of Diesel Particles. Major Adviser: Prof. D.B. Kittelson. December Graduate.

Chia-Pin Chiu, Republic of China

B.S. '84, National Taiwan University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Modelling Particle Formation and Growth in a Plasma Synthesis Reactor. Major Adviser: Prof. S.L. Girshick. December Graduate.

Thomas Michael Hessburg, Edina

B.M.E. high distinction '87, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: A Theoretical and Experimental Study on Physical Human-Machine Interaction with Constrained Motion. Major Adviser: Prof. Homayoon Kazerooni. December 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. Graduation Pending.

Thomas Edward Koehler, Minneapolis

B.M.E. with distinction '80, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Inverse Kinematic Solution for the University of Minnesota Three-Fingered Hand. Major Adviser: Prof. Max Donath. Graduation Pending.

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. Graduation Pending.

Raymond Carl Munro, Jr., Rockford, Ill.

B.S. with honors '86, Michigan Technological University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Nucleation and Growth in Plasma Synthesis. Major Adviser: Prof. S.L. Girshick. Graduation Pending.

Timothy Joseph Osowski

B.S. with honors '87, University of Notre Dame. Major: Mechanical Engineering. Minor: Electrical Engineering. Thesis: The Use of Force Data to Counteract Additional Loads in Robotics. Major Adviser: Prof. Homayoon Kazerooni. October Graduate.

Serge Staroselsky, Des Moines, Iowa

B.S. '83, University of California. Major: Mechanical Engineering. Minor: Electrical Engineering. Thesis: Two-Stage Actuation for Improved Accuracy of Contouring. Major Adviser: Prof. K.A. Stelson. March Graduate.

Bruce Edward Tait, Woodbury

B.M.E. with distinction '80, University of Minnesota. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Prof. A.G. Erdman. December Graduate.

James Richard Talbott, White Bear Lake

B.A. magna cum laude '87, Gustavus Adolphus. Major: Mechanical Engineering. Minor: Electrical Engineering. Major Adviser: Prof. Max Donath. March Graduate.

Ye Tao, Nanjing, China

B.S. '82, Nanjing Institute of Chemical Technology. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Vapor Pressure Measurements for Selected Atmospheric Organic Aerosols. Major Adviser: Prof. P.H. McMurry. October Graduate.

Mustafa Vadnagarwala, Calcutta, India

B.Tech '85, Indian Institute of Technology. Major: Mechanical Engineering. Minor: Related Fields. Major Advisers: Profs. A.G. Erdman and D.R. Riley. December Graduate.

Brian Jeffrey Waibel, Minneapolis

B.S. magna cum laude '87, Brown University. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Robust Compliance Control for Constrained Robotic Manipulation. Major Adviser: Prof. Homayoon Kazerooni. March Graduate.

Robert William Whitmore, Bloomington

B.S.E. '86, University of Iowa. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Fly Height Modulation Measurement Using Capacitive Sensing Technique. Major Adviser: Prof. Homayoon Kazerooni. December 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. Graduation Pending.

*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. Graduation Pending.

Master of Social Work

Lynn M. Anderson, Minneapolis

B.A. '82, Providence College. Major: Social Work. Major Adviser: Prof. N.M. Abramson. Graduation Pending.

Paulette Anderson, Maple Plain

B.A. '72, Union College. Major: Social Work. Major Adviser: Prof. Esther Wattenberg. February Graduate.

Wendy Renee Anderson, Delano

B.S. '82, University of Minnesota. Major: Social Work. Major Adviser: Prof. R.H. Rooney. January Graduate.

Lois Deloris Antoine, Mission, S.D.

B.A. '85, Loretto Heights College. Major: Social Work. Major Adviser: Prof. I.E. Carter. Graduation Pending.

Tammie Louise Barcomb, Minneapolis

B.A. with high honors '81, Wheaton College. Major: Social Work. Major Adviser: Prof. Annalee Stewart. Graduation Pending.

Kathleen Sue Behrens-Wheelock, St. Paul

B.S. with distinction '81, University of Minnesota. Major: Social Work. Major Adviser: Prof. R.S. Pandey. Graduation Pending.

Bradford Bruce Benson, Minneapolis

B.A. '83, University of Minnesota. Major: Social Work. Major Adviser: Prof. R.S. Pandey. Graduation Pending.

Tracie Ann Benson, St. Paul

B.A. '83, Gustavus Adolphus College. Major: Social Work. Major Adviser: Prof. N.M. Abramson. Graduation Pending.

Stephen Joseph Benton, Minneapolis

B.A. cum laude '75, St. Johns University. Major: Social Work. Major Adviser: Prof. Maura Sullivan. Graduation Pending.

Colleen M. Besser-Wiek, Minneapolis

B.A. '84, Metropolitan State University. Major: Social Work. Major Adviser: Prof. Maura Sullivan. Graduation Pending.

Nancy Jo Bird, St. Paul

B.A. '87, University of Minnesota. Major: Social Work. Major Adviser: Prof. N.M. Abramson. Graduation Pending.

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. Graduation Pending.

Patrick Vincent Briese, Rochester

B.S. '79, University of Wisconsin. Major: Social Work. Major Adviser: Prof. Maura Sullivan. Graduation Pending.

Sharon Elizabeth Brown

B.F.A. '84, School of Visual Arts. Major: Social Work. Major Adviser: Prof. J.L. Edleson. Graduation Pending.

Gerald Joseph Bruhn, St. Paul

B.A. '75, College of St. Thomas. Major: Social Work. Major Adviser: Prof. G.S. Hoshino. Graduation Pending.

Paula Margaret Childers, Minneapolis

B.A. '87, Metropolitan State University. Major: Social Work. Major Adviser: Prof. N.M. Abramson. Graduation Pending.

Jae-Sung Choi, Seoul, Korea

B.A. '86, Yonsei University. Major: Social Work. Major Adviser: Prof. G.S. Hoshino. October Graduate.

Patti Jo Christensen, Minneapolis

B.A. magna cum laude '82, Mankato State University. Major: Social Work. Major Adviser: Prof. Annalee Stewart. Graduation Pending.

Susan Strom Crandall, Bloomington

B.A. '83, University of Minnesota. Major: Social Work. Major Adviser: Prof. N.M. Abramson. December Graduate.

Elizabeth Mary Doherty, Minneapolis

B.A. '69, University of Minnesota. Major: Social Work. Major Adviser: Prof. L.E. Jones. Graduation Pending.

Mary Beth Doyle, Minneapolis

B.A. magna cum laude '82, Arizona State University. Major: Social Work. Major Adviser: Prof. Maura Sullivan. Graduation Pending.

Brian William Giesen, St. Paul

B.A. '82, University of Minnesota. Major: Social Work. Major Adviser: Prof. J.F. Gilgun. Graduation Pending.

Karla Kay Harriss, Roseville

B.Soc.Dev. '79, University of Minnesota. Major: Social Work. Major Adviser: Prof. R.H. Rooney. October Graduate.

John Allen Helget

B.S. '75, Wisconsin State University. Major: Social Work. Major Adviser: Prof. J.F. Gilgun. October Graduate.

Lori JoAnn Hendrickson, Rockford, Ill.

B.A. '87, Carthage College. Major: Social Work. Major Adviser: Prof. Annalee Stewart. March Graduate.

Karen Jean Holdgrafer

B.S. '81, University of Minnesota. Major: Social Work. Major Adviser: Prof. N.F. Bracht. Graduation Pending.

Ellen Marie Holmgren, Winona

B.S. '81, Winona State University. Major: Social Work. Major Adviser: Prof. N.F. Bracht. Graduation Pending.

Ruth Ann Johnson

B.A. magna cum laude '75, Moorhead State College. Major: Social Work. Major Adviser: Prof. J.L. Edeleson. Graduation Pending.

Jane Lynette Kople, St. Paul

B.S.S.W. '80, University of North Dakota. Major: Social Work. Major Adviser: Prof. Maura Sullivan. Graduation Pending.

Susan Marie Keskinen, New York Mills

B.A. '74, University of Minnesota. Major: Social Work. Major Adviser: Prof. J.F. Gilgun. March Graduate.

Peggy Louise Kessel, St. Paul

B.A. '84, University of Minnesota. Major: Social Work.
Major Adviser: Prof. Annalee Stewart. March Graduate.

Ivana Marie Klima, Minneapolis

Major: Social Work. Major Adviser: Prof. R.S. Pandey.
January Graduate.

Kristin Mary Knutson, Minneapolis

B.S. '84, University of Minnesota. Major: Social Work.
Major Adviser: Prof. R.A. Kane. December Graduate.

Ginger Lyn-Pederson Krueger, Halstad

B.S. cum laude '81, University of North Dakota. Major:
Social Work. Major Adviser: Prof. J.F. Gilgun. October
Graduate.

Christine Marie Kwak, Mokence, Ill.

B.S. '79, University of Illinois. Major: Social Work. Major
Adviser: Prof. N.M. Abramson. Graduation Pending.

Renee Gail Lanz, Maple Grove

B.A. '82, St. Cloud State University. Major: Social Work.
Major Adviser: Prof. L.E. Jones. March Graduate.

Donald Roy LeTourneau, Minneapolis

B.A. '81, Bethel College. Major: Social Work. Major
Adviser: Prof. N.M. Abramson. Graduation Pending.

Charlene Shirley Levy, Minneapolis

B.A. '60, Newcomb College. Major: Social Work. Major
Adviser: Prof. N.M. Abramson. Graduation Pending.

Jeffrey T. Lewis, Milwaukee, Wis.

B.A. '82, University of Wisconsin. Major: Social Work.
Major Adviser: Prof. R.A. Kane. December Graduate.

Hamda Riaz Malik, Sargodha, Pakistan

M.A. '80, Quaid-i-Azam University. Major: Social Work.
Major Adviser: Prof. B.R. Galaway. Graduation Pending.

Elizabeth Rose Mandel, St. Louis Park

B.A. '87, University of Minnesota. Major: Social Work.
Major Adviser: Prof. R.A. Kane. Graduation Pending.

Megan Harrison Morrissey

B.A. '77, Mundelein College. Major: Social Work. Major
Adviser: Prof. L.E. Jones. Graduation Pending.

Paula Lee Nelson, Minneapolis

B.A. '78, St. Cloud State University. Major: Social Work.
Major Adviser: Prof. R.H. Rooney. Graduation Pending.

Phuc Thi Hong Nguyen, Vietnam

B.S. with distinction '87, University of Minnesota. Major:
Social Work. Major Adviser: Prof. I.E. Carter. Graduation
Pending.

Jolene Marie Noyola, St. Paul

B.A. '85, University of Minnesota. Major: Social Work.
Major Adviser: Prof. G.S. Hoshino. Graduation Pending.

Nancy Diane Oxton

B.A. cum laude '78, University of Wisconsin. Major: Social
Work. Major Adviser: Prof. Maura Sullivan. Graduation
Pending.

Cynthia Packer, Minneapolis

B.F.A. '76, University of Wisconsin. Major: Social Work.
Major Adviser: Prof. J.K. Quam. Graduation Pending.

Julie Ruth Portesan, Minneapolis

B.S. magna cum laude '84, Bemidji State University.
Major: Social Work. Major Adviser: Prof. R.A. Kane.
December Graduate.

Elizabeth Ann Reiser, Minnetonka

B.A. '85, University of Minnesota. Major: Social Work.
Major Adviser: Prof. Annalee Stewart. Graduation
Pending.

Kathryn McCoy Ringham, Minneapolis

B.A. '69, University of Minnesota. Major: Social Work.
Major Adviser: Prof. R.A. Kane. Graduation Pending.

Michael John Sarafolean, St. Paul

B.A. '80, University of Minnesota. Major: Social Work.
Major Adviser: Prof. J.L. Edleson. Graduation Pending.

Sheryl Ann Sichak, Columbia Heights

B.S. '79, University of Wisconsin. Major: Social Work.
Major Adviser: Prof. R.H. Rooney. Graduation Pending.

Debora Anne Smith, Minneapolis

B.A. cum laude '83, Middlebury College. Major: Social
Work. Major Adviser: Prof. G.S. Hoshino. Graduation
Pending.

Amy Dorian Stubenhaus, Fairfield, Conn.

A.B. '79, Grinnell College. Major: Social Work. Major
Adviser: Prof. Esther Wattenberg. Graduation Pending.

David Michael Tremewan, Maple Grove

B.S. '83, University of Minnesota. Major: Social Work.
Major Adviser: Prof. L.E. Jones. Graduation Pending.

Victoria Dawn Van Slyke, Minneapolis

B.S. '74, University of Minnesota. Major: Social Work.
Major Adviser: Prof. R.A. Kane. December Graduate.

Gary Stephan Whitford, Minneapolis

B.S. '73, Wisconsin State University. Major: Social Work.
Major Adviser: Prof. J.K. Quam. March Graduate.

Elizabeth Borger Woodland, St. Paul

B.S. magna cum laude '77, West Virginia University.
Major: Social Work. Major Adviser: Prof. Annalee
Stewart. Graduation Pending.

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. Graduation Pending.

Specialist Certificate in Education

Richard Joseph Paul, Coon Rapids

B.A. cum laude '71, University of Minnesota; M.A. '77, College of St. Thomas. Field: Secondary School Administration. Major: Educational Administration. Major Adviser: Prof. N.C. Nickerson. December Graduate.

Douglas Brian Steele, Burnsville

B.S. cum laude '78, Bemidji State University; M.A. '87, University of Minnesota. Field: Elementary School Administration. Major: Educational Administration. Major Adviser: Prof. V.D. Mueller. October Graduate.

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Scott Lee Neiman

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