



UNIVERSITY OF MINNESOTA

Fall 1991

Graduate School

Commencement



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The Honorable Jean B. Keffeler, Minneapolis
The Honorable Elton A. Kuderer, Fairmont
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The Honorable Mary J. Page, Olivia
The Honorable Thomas R. Reagan, Gilbert
The Honorable David K. Roe, Minneapolis
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The Honorable Stanley D. Sahlstrom, St. Cloud
The Honorable Ann J. Wynia, St. Paul

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The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, religion, color, sex, national origin, handicap, age, veteran status, or sexual orientation.

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

Order of Events

Prelude Concert	From 6 to 7 p.m., music is provided by Diana Lee Lucker, D.M.A., organist.
Processional	At 7 p.m., the macebearer and the United States flag marshal march onto the stage, heralding the arrival of the academic procession of candidates. In the procession are administrators, faculty, distinguished guests, and regents. The order of march of candidates is as follows: Doctor of Philosophy Specialist Certificate in Education Doctor of Education Master's Degrees Doctor of Musical Arts Crown Imperial MarchWilliam Walton
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 the ramparts we watch'd were so gallantly streaming? And the rockets' red glare, the bombs bursting in air, Gave proof thro' the night that our flag was still there. O, say, does that star-spangled banner yet wave O'er the land of the free and the home of the brave?
Speaking for the University	Acting Dean Walter Weyhmann, Ph.D., Graduate School
Introduction of Commencement Speaker	Acting Dean Walter Weyhmann
Commencement Address	"A Different 2000" John Fiske, Professor, Communication Arts, University of Wisconsin-Madison; Hill Visiting Professor of Comparative Studies in Discourse and Society
Organ Solo	Pièce HéroïqueCésar Franck
Presentation of Candidates for Master's Degrees and Specialist Certificates	Associate Dean Stephen Hedman, Ph.D., will present the candidates for professional master's, master of science, and master of arts degrees, and specialist certificates in education to Dean Weyhmann and the audience. All candidates will proceed across the stage as they are presented.

Presentation of Candidates for Doctoral Degrees	Associate Dean Kenneth Zimmerman, 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 Zimmerman will present him or her to Dean Weyhmann.
Conferring of Degrees	Regent Jean B. Keffeler will confer certificates and degrees upon the candidates.
Closing Remarks	Acting Dean Walter Weyhmann
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 the academic procession has marched out. Grand ChoeurThéodore Dubois
Commencement Reception	The commencement reception in the lobby of Northrop Memorial Auditorium immediately follows the ceremony. All candidates and their guests are invited.

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

Academic Costume and the University Mace

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

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

Master's gowns, black and untrimmed, have pointed sleeves. Doctor's 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 Ph.D. gown and matching tam made their appearance in 1988 to celebrate the centenary of the first Minnesota doctor of philosophy degree. The Minnesota gown is maroon trimmed with black velvet chevrons and gold metallic braid.

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

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

The Mace

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

The University of Minnesota

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

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

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

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

Two students received bachelor of arts degrees at the first commencement in June 1873. Since then, the University has granted a total of 451,122 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 1991 was 50,886 on all five campuses. Enrollment was 39,315 on the Twin Cities campus, 7,770 at Duluth, 1,915 at Morris, 550 at Waseca, and 1,336 at Crookston.

During the 1990-1991 academic year, the University of Minnesota conferred 10,983 degrees on all its campuses: 6,092 in July, August, and December 1990 and March 1991, and 4,891 in June 1991.

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 has more than 2,500 faculty members, more than 10,000 students, and offers degrees in approximately 175 fields.

Degrees Awarded

The following individuals had completed all the requirements for their degrees as of September 30, 1991. The month of graduation is noted for each student. Degrees

are listed in presentation order as follows: professional master's degrees, master of science and master of arts degrees, specialist certificates, and doctoral degrees.

Professional Master's Degrees

Kris Amy Abdulla, Eagan

B.S.Ed. '79, University of North Dakota. Degree: Master of Business Administration, May '91. Major: Business Administration. Major Adviser: Donald R. Bell

Marc Wesley Abelson, Kansas City, Mo.

B.M. '86, University of Missouri. Degree: Master of Music, July '91. Major: Music. Major Adviser: Roland Vamos

Carlos Manuel Acevedo-Quintero, Bogota, Colombia

Degree: Master of Business Administration, May '91. Major: Business Administration. Major Adviser: Donald R. Bell

Kenneth Wayne Ackerman, Minnetonka

B.S.E.E. '71, South Dakota School of Mines and Technology. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Anthony Brent Adams, Oil Springs, Ky.

B.A. '85, University of Kentucky. Degree: Master of Fine Arts, June '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Stephen C. Kanee

Carmen Renee Adams, Burnsville

B.A. '83, Augustana College. Degree: Master of Social Work, September '91. Major: Social Work. Major Adviser: Jane F. Gilgun

Gitika Agrawal, Minneapolis

M.M.S. '86, University of Bombay. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

Peter Wesley Ahn, Roseville

B.A. '88, Macalester College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

David John Alampi, Winona

B.S. '85, Iowa State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Thomas Alberg, White Bear Lake

B.A. cum laude '87, Macalester College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Daniel Paul Albitz, Minneapolis

B.S.B. '88, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Brenda Lu Alexander, Minneapolis

B.A. cum laude '89, St. Olaf College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Joel Walker Allen

B.A. '84, St. John's University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Mary Jane Althoff, Minneapolis

B.A. '74, University of Minnesota. Degree: Master of Business Administration, September '91. Major: Business Administration. Major Adviser: Donald R. Bell

Beth Ellen Anderson, Duluth

B.A. '86, University of Minnesota. Degree: Master of Social Work, September '91. Major: Social Work. Major Adviser: Jean K. Quam

Christine Ann Anderson, St. Paul

B.A. cum laude '85, Concordia College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Dan Nels Anderson, Barron, Wis.

B.S. '87, University of Wisconsin. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Joseph K. Anderson, St. Paul

B.S. '86, Mankato State University. Degree: Master of Fine Arts, July '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Gail A. Crellin

Kimberly Rae Anderson, Cokato

B.B.A. '87, University of Minnesota. Degree: Master of Business Administration, August '91. Major: Business Administration. Major Adviser: Donald R. Bell

Patricia Lynn Angell, Mendota Heights

B.S. '80, University of Oregon. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Julia Olson Augdahl, Minneapolis

B.B.A. '88, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Helge Austgulen, Bergen, Norway

B.S.C.E. '88, South Dakota School of Mines and Technology. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Martha Jean Hanson Bacon, San Diego, Calif.

B.S. cum laude '84, Augsburg College. Degree: Master of Social Work, July '91. Major: Social Work. Major Adviser: Sara M. Taber

Martin W. Bader, Jr., Bloomington

B.B.A. cum laude '75, Wisconsin State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Robert M. Baerg

B.S. magna cum laude '83, Mankato State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Curtis Jay Bailey, Bloomington

B.B.A. with honors '82, University of Notre Dame. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Jessica Margolin Bailey, Albuquerque, N.M.

B.A. '85, University of California; M.S. '89, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Susan Marie Banal, Minneapolis

B.A. '84, College of St. Benedict. Degree: Master of Social Work, June '91. Major: Social Work. Major Adviser: Jeffrey L. Edleson

Elizabeth Adair Banz, Minneapolis

B.S. '85, St. Cloud State University. Degree: Master of Social Work, June '91. Major: Social Work. Major Adviser: Oliver J. Williams

Jay R. Barnes, Omaha, Neb.

B.F.A. '83, University of Nebraska. Degree: Master of Fine Arts, April '91. Major: Studio Arts. Minor: Related Fields. Major Adviser: Victor Caglioti

Stephanie Lee Barth, Edina

B.S.B. '88, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Pedro Bastos, Rio de Janeiro, Brazil

B.A. '86, Hamline University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Cynthia Marie Baune, Golden Valley

B.Acct. '85, University of Minnesota. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

Margaret A. Beaudoin, Plymouth

B.A. '83, College of St. Benedict. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

Keith Richard Beckstrom, White Bear Lake

B.A. '78, B.Ch.E. '79, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Kenneth Drewry Benson

B.A. '80, Northwestern University. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

John Allan Berkner, Lindstrom

B.A. '88, Macalester College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

James Eugene Bird, Minneapolis

B.S. '82, University of Minnesota. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

Bylgja Birgisdottir, Reykjavik, Iceland

Cand. Oecon. '89, University of Iceland. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Mary Susan Birman, Duluth

B.A. cum laude '88, College of St. Scholastica. Degree: Master of Social Work, August '91. Major: Social Work. Major Adviser: Jean K. Quam

Don L. Birmingham, Minneapolis

B.A. '73, M.A. '74, University of North Dakota. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

Jay Kenneth Blakeborough, Savage

B.A. '86, Gustavus Adolphus College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Vicky A. Blakesley, Aitkin

B.A. magna cum laude '78, University of Minnesota. Degree: Master of Social Work, August '91. Major: Social Work. Major Adviser: Jean K. Quam

Susan Jane Bobolink, Minneapolis

B.S. '87, Augsburg College. Degree: Master of Social Work, June '91. Major: Social Work. Major Adviser: Ronald H. Rooney

Steven Paul Boespflug, Minneapolis

B.B.A. '87, University of North Dakota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Peter V. Bonemeyer, Shoreview

B.S. cum laude '79, Moorhead State University. Degree: Master of Business Taxation, September '91. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Nils Lennart Borgas, Minneapolis

B.A. cum laude '86, University of Utah. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Peter Mikael Borjestedt, Ljungby, Sweden

B.A. with highest distinction '89, University of Maine. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Wallace G. Brandjord, Souris, N.D.

B.S. '89, North Dakota State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

John David Brandvold, Minneapolis

B.F.A. '88, North Dakota State University. Degree: Master of Fine Arts, June '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Carl L. Brockman

James Joseph Broda, Sauk Rapids

B.S. cum laude '77, College of St. Benedict. Degree: Master of Social Work, August '91. Major: Social Work. Major Adviser: Jean K. Quam

Jeffrey Paul Brooks, Des Moines, Iowa

B.A. cum laude '83, St. Olaf College; M.S. '85, University of Minnesota. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

Steve Alan Brown, Brooklyn Park

B.S.B. '87, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

William Hugh Brown

B.G.S. '88, University of Iowa. Degree: Master of Business Taxation, June '91. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

James Lawrence Buchholz, Golden Valley

B.S. cum laude '84, St. Cloud State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Kathryn Grace Buckley, St. Paul

B.S. '86, Marquette University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

John Douglas Bullough, Minneapolis

B.S. cum laude '80, Utah State University. Degree: Master of Social Work, July '91. Major: Social Work. Major Adviser: Nancy M. Abramson

Thomas Marshall Burke

B.A. '88, University of Minnesota. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Deborah Ann Burnell, Rockford, Ill.

B.A. '80, George Williams College. Degree: Master of Social Work, June '91. Major: Social Work. Major Adviser: Nancy M. Abramson

Mark Gregory Bury, Minneapolis

B.S. summa cum laude '81, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Joel Steven Bush, Minneapolis

B.S.Econ. '88, University of Pennsylvania. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Mary Elizabeth Butler, Ramsey

B.S. with distinction '87, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Jennifer Sue Campbell, Sylvania, Ohio

B.A. magna cum laude '88, Miami University. Degree: Master of Fine Arts, June '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Barbara Reid

Alan Edward Carter

B.A. magna cum laude '77, Williams College; M.D. '81, Case Western Reserve University. Degree: Master of Business Administration, September '91. Major: Business Administration. Major Adviser: Donald R. Bell

Julian George Carter

B.M. '88, North Carolina School of the Arts. Degree: Master of Music, May '91. Major: Music. Major Adviser: Almita Vamos

Tabatha Sparrow Casey, Danville, Ky.

B.S.Ag. with high distinction '88, B.S. with high distinction '88, University of Kentucky. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Andrew Cecere, Mounds View

B.A. cum laude '82, College of St. Thomas. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Bin Chen, Beijing, China

M.S. '84, Peking University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Kristin Cheronis, Minneapolis

B.A. '81, University of Arizona. Degree: Master of Fine Arts, June '91. Major: Studio Arts. Minor: Related Fields. Major Adviser: Curtis C. Hoard

Li-Chi Chiu, Taichung, Taiwan

B.S. '84, National Tsing Hua University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Eleanore Marie Chodacki

B.S. '50, Northwestern University. Degree: Master of Business Administration, September '91. Major: Business Administration. Major Adviser: Donald R. Bell

Shih-Yu Chuang, Chiayi, Taiwan

B.A. '84, Tunghai University. Degree: Master of Music, June '91. Major: Music. Major Adviser: Paul W. Freed

Holly Maurine Church, Minneapolis

B.A. '82, University of Minnesota. Degree: Master of Social Work, June '91. Major: Social Work. Major Adviser: Linda E. Jones

Robert John Cigalio, Duluth

B.A. '73, University of Minnesota. Degree: Master of Social Work, April '91. Major: Social Work. Major Adviser: Jean K. Quam

Elisa Cockburn, Lima, Peru

Bachiller '88, Universidad de Lima. Degree: Master of Business Administration, August '91. Major: Business Administration. Major Adviser: Donald R. Bell

Mark Herbert Cole, Lummi Island, Wash.

B.A. '87, University of Washington. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Mary Elizabeth Conner

B.A. '79, University of Dallas. Degree: Master of Fine Arts, May '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: H. Lee Adey

Deanna Marie Cook, Deer Park, Wis.

B.A. '87, University of Wisconsin. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Cynthia Simmons Cooper, Tallahassee, Fla.

B.S. '72, Florida A. & M. University. Degree: Master of Social Work, June '91. Major: Social Work. Major Adviser: Rama S. Pandey

Matthew Guy Crum, Plymouth

B.S. '87, Rensselaer Polytechnic Institute. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Michael Peter Cusick, Brooklyn Park

B.S. '85, Moorhead State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Rami Farouk Daher, Amman, Jordan

B.S. Arch. '88, University of Jordan. Degree: Master of Architecture, June '91. Major: Architecture. Thesis: Legacy of Thought, Legacy of Building (Historical Train Station in Amman, Jordan). Major Adviser: John G. Rauma

Kelly Ernest Dahl, Woodbury

B. Acct. cum laude '82, B.B.A. cum laude '82, University of Minnesota. Degree: Master of Business Administration, May '91. Major: Business Administration. Major Adviser: Donald R. Bell

Ioana Daciu, St. Paul

B.F.A. summa cum laude '87, University of Minnesota. Degree: Master of Fine Arts, July '91. Major: Studio Arts. Minor: Related Fields. Major Adviser: Thomas R. Cowette

Catherine Sue DeLeeuw

B.A. '86, Denison University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Donna Mary Dempewolf, Spring Valley

B.S.B. with distinction '86, University of Minnesota. Degree: Master of Business Administration, August '91. Major: Business Administration. Major Adviser: Donald R. Bell

Sheila Laraine Dingels, Minneapolis

B.S. magna cum laude '87, Mankato State University. Degree: Master of Social Work, June '91. Major: Social Work. Major Adviser: Jerome Beker

Kathleen Regina Dion, Minneapolis

B.S. '70, Wisconsin State University. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Elizabeth Mary Doherty, Minneapolis

B.A. '69, University of Minnesota. Degree: Master of Social Work, April '91. Major: Social Work. Major Adviser: Linda E. Jones

Michael Albert Donahue, New Brighton

B.S.B. '84, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Kelly Kuhn Donohue, Bloomington

B.S. with distinction '83, University of Iowa. Degree: Master of Social Work, July '91. Major: Social Work. Major Adviser: Jean K. Quam

David William Dosland, St. Paul

B.A. cum laude '85, Concordia College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Christopher Lloyd Drahn, St. Paul

B.A. magna cum laude '80, Wartburg College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Donna Rae DuBois-Thomas, Dunseith, N.D.

B.S.W. '76, University of North Dakota. Degree: Master of Social Work, August '91. Major: Social Work. Major Adviser: Jean K. Quam

Michael Allen Dworsky, Columbia Heights

B.S. '86, North Dakota State University. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Timothy Donald Dye, Greene, Iowa

B.B.A. '87, Iowa State University of Science and Technology. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Diane Marie Dynes, Eau Claire, Wis.

B.A. '89, Southwest State University. Degree: Master of Social Work, August '91. Major: Social Work. Major Adviser: Jean K. Quam

Jean Ellen Dziengel, Minneapolis

B.A. '81, College of St. Catherine. Degree: Master of Social Work, June '91. Major: Social Work. Major Adviser: Maura Sullivan

Joanne Gale Eekhoff

B.A. '87, University of Minnesota. Degree: Master of Social Work, August '91. Major: Social Work. Major Adviser: Jean K. Quam

David Robert Egemo, Minnetonka

B.S.B. '84, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Timothy Alan Ehde, Luverne

B.S.B.A. highest honors '90, University of South Dakota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Hilmi Elifoglu, Kutahya, Turkey

Diploma '67, Ankara University; M.A. '72, Ph.D. '76, New School Social Research. Degree: Master of Business Administration, September '91. Major: Business Administration. Major Adviser: Donald R. Bell

Linda Louise Ell, Minneapolis

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B.S. '86, Michigan State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '71, College of St. Scholastica. Degree: Master of Social Work, August '91. Major: Social Work. Major Adviser: Jean K. Quam

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B.S.E.E. '87, South Dakota School of Mines and Technology. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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A.B. '85, College of the Holy Cross. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Romona Consteen Merritt

B.M. '88, North Carolina School of the Arts. Degree: Master of Music, July '91. Major: Music. Major Adviser: Roland Vamos

Donald Dean Metzler, Jr., Minneapolis

B.A. '82, Concordia College. Degree: Master of Social Work, August '91. Major: Social Work. Major Adviser: Jean K. Quam

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B.A. with distinction '85, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. magna cum laude '88, University of Utah. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Roger F. Miller, St. Paul

B.A. '74, Antioch College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

David Gerald Minkinen, Cloquet

B.B.A. '89, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Paul Duane Moe, Columbia Heights

B.S. '84, St. Cloud State University. Degree: Master of Business Taxation, July '91. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Brian Loren Mogensen, Pine River

B.S. '90, St. Cloud State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Andre Anne Moncheur de Rieudotte

B.S. '82, Oregon State University. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

Andrew Fletcher Montgomery, Edina

B.A. '85, Bucknell University. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.B.A. with honors '87, Cameron University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.M.E. '85, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '86, University of the State of New York. Degree: Master of Business Administration, August '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S.B. '87, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. cum laude '85, Moorhead State University. Degree: Master of Business Administration, September '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '74, Bemidji State College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Daniel Joseph Nadenicek, Inver Grove Heights

B.S. magna cum laude '73, Mankato State University. Degree: Master of Landscape Architecture, June '91. Major: Landscape Architecture. Minor: Related Fields. Thesis: The Literary Landscape of Horace Cleveland. Major Adviser: Lance M. Neckar

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B.A. '67, B.B.A. '73, University of Iowa; M.B.T. '84, University of Minnesota. Degree: Master of Business Administration, September '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S.B. '83, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '75, University of Missouri. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. summa cum laude '88, College of St. Benedict. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Susan Kay Nestegard, Woodbury

B.S. with distinction and with high honors '82, University of Wisconsin. Degree: Master of Materials Science and Engineering, May '91. Major: Materials Science and Engineering. Minor: Related Fields. Project: Qualification of a Replacement Polymer: A Study of the Optical, Blushing, and Impact Properties of Impact Modified Polypropylene. Major Adviser: Christopher W. Macosko

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B.F.A. '86, University of North Dakota. Degree: Master of Fine Arts, June '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Gail A. Crellin

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B.M. cum laude '85, Augsburg College, M.M. '89, Kent State University. Degree: Master of Music, August '91. Major: Music. Major Adviser: Thomas S. Lancaster

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B.S.W. '86, University of Wisconsin. Degree: Master of Social Work, September '91. Major: Social Work. Major Adviser: Jean K. Quam

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B.Acct. '83, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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A.B. '88, Washington University in St. Louis. Degree: Master of Architecture, April '91. Major: Architecture. Thesis: The Essence of Place as Represented in Architectural Form and Space. Major Adviser: John G. Rauma

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M.Acct. '86, B.B.A. with honors '86, Florida Atlantic University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '82, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '86, St. John's University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '74, South Dakota State University. Degree: Master of Fine Arts, July '91. Major: Studio Arts. Minor: Related Fields. Major Adviser: Victor Caglioti

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B.S. '76, Taylor University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. magna cum laude '88, Mankato State University. Degree: Master of Social Work, June '91. Major: Social Work. Minor: Gerontology. Major Adviser: Maura Sullivan

Leif Inge Sandven, Bergen, Norway

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B.S. '83, University of Wisconsin. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '82, Northwestern University. Degree: Master of Fine Arts, July '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Jean A. Montgomery

Grant Peter Sarris, Green Bay, Wis.

B.S. '88, University of Wisconsin. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Jens Peter Sawkins, Minneapolis

B.A. '85, Yale College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '78, College of St. Catherine. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

Patrick Karl Schmidt, Wayzata

A.B. '89, Ripon College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.B.A. '83, University of Wisconsin. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '85, College of St. Thomas. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. cum laude '88, Mankato State University. Degree: Master of Business Administration, May '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '76, Culver-Stockton College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.B.A. '90, University of Wisconsin. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '83, Kalamazoo College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '78, University of Washington. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. magna cum laude '83, College of St. Thomas. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S.B. '78, University of Minnesota. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. cum laude '89, Utah State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '81, St. Olaf College. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.B.A. '87, University of Wisconsin. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '86, North Dakota State University. Degree: Master of Social Work, June '91. Major: Social Work. Major Adviser: Jean K. Quam

Larry Lee Smith, Superior, Wis.

B.S. '82, University of Wisconsin. Degree: Master of Business Taxation, August '91. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Raymond Alan Smith, St. Paul

B.M. '81, University of Iowa. Degree: Master of Music, June '91. Major: Music. Major Adviser: David B. Baldwin

Leverett Tyrrell Smith III, Rocky Mount, N.C.

B.A. '84, University of North Carolina. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Cheryl Ann Sohm, Rochester

B.B.A. magna cum laude '88, St. Norbert College.
Degree: Master of Business Administration, June '91.
Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. with distinction '77, Colorado State University.
Degree: Master of Business Administration, April '91.
Major: Business Administration. Major Adviser: Donald R. Bell

Michael Dale Sorenson, St. Paul

B.Math. '84, University of Minnesota. Degree: Master of Business Administration, August '91. Major: Business Administration. Major Adviser: Donald R. Bell

Patrick Dennis Spangler

B.S.B. '78, University of Minnesota. Degree: Master of Business Taxation, July '91. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Thomas Edward Stanke, Maple Grove

B.M.E. '85, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

James Paul Steiner, St. Paul

B.A. '82, Yale University; M.Ed. '87, Harvard University. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Michael Stellmacher, Minneapolis

B.S. '77, University of Wisconsin. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. with high distinction '78, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '86, Wheaton College. Degree: Master of Business Administration, April '91. Major: Business Administration. Major Adviser: Donald R. Bell

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James Barron Swick, Minneapolis

B.A. cum laude '78, University of Minnesota. Degree: Master of Fine Arts, May '91. Major: Studio Arts. Minor: Art History. Major Adviser: Gary L. Hallman

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B.A. cum laude '87, Macalester College. Degree: Master of Business Administration. June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Todd Edward Wilkening, Perry, Iowa

B.A. summa cum laude '86, Wartburg College. Degree: Master of Business Administration. June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Denise Renae Wilkens, Minneapolis

B.S.B.A. '75, University of North Dakota. Degree: Master of Business Administration. April '91. Major: Business Administration. Major Adviser: Donald R. Bell

Jason Collins Willett, Madison, Wis.

B.S. highest honors '78, University of Wisconsin. Degree: Master of Business Administration. June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Dennis K. Williams, Minneapolis

B.B.A. '83, University of Wisconsin. Degree: Master of Business Administration. June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Link Stephan Wilson, St. Paul

B.S.Arch.St. '85, University of Nebraska. Degree: Master of Architecture. May '91. Major: Architecture. Thesis: A Search for Appropriate Architectural Form that has Relevant Meaning to the Time and Activities of Place. Major Adviser: Gunter A. Dittmar

Robert Darrell Wilson, Minnetonka

B.S.B. '85, University of Minnesota. Degree: Master of Business Administration. June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Thomas Arne Windfeldt, Apple Valley

B.S. '73, St. Cloud State College. Degree: Master of Business Administration. July '91. Major: Business Administration. Major Adviser: Donald R. Bell

Lisa Anne Winkelman

B.A. '79, University of Minnesota. Degree: Master of Architecture. December '82. Major: Architecture. Thesis: A City Center Revitalization: Rochester, Minnesota. Major Adviser: Roger D. Clemence

James Martin Wise, Faribault

B.S.B. '71, University of Minnesota. Degree: Master of Business Administration. June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Ralph E. Woehle, Marshall

B.S. '69, M.S. '70, University of North Dakota. Degree: Master of Social Work. September '91. Major: Social Work. Major Adviser: Irl E. Carter

Rowena Wong, Hong Kong

Diploma '86, Hong Kong Baptist College. Degree: Master of Business Administration. June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Joseph Wusterbarth

B.B.A. magna cum laude '84, University of Wisconsin. Degree: Master of Business Administration. June '91. Major: Business Administration. Major Adviser: Donald R. Bell

Randall Lee York, Wichita, Kan.

B.A. '84, Wichita State University. Degree: Master of Fine Arts. July '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Carl L. Brockman

Jian Guo Zhao, People's Republic of China

B.A. '82, Xian Foreign Languages Institute; B.S.S. '85, Cornell College; M.A. '87, University of Northern Iowa. Degree: Master of Business Administration. June '91. Major: Business Administration. Major Adviser: Donald R. Bell

*Professional Master's Degrees***University of Minnesota, Duluth****Gregory Ralph Anderson, Duluth**

B.A. cum laude '78, Mankato State University. Degree: Master of Social Work. July '91. Major: Social Work. Major Adviser: Melanie F. Shepard

Patricia Annette Anderson, Superior, Wis.

B.S. with high honors '72, Wisconsin State University. Degree: Master of Business Administration. May '91. Major: Business Administration. Major Adviser: John W. Boyer, Jr.

Brad Michael Arneson, La Crosse, Wis.

B.S. '85, University of Wisconsin. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: C. M. Kochunny

Cathy Annette Bergh

B.S. magna cum laude '87, St. Cloud State University. Degree: Master of Social Work, August '91. Major: Social Work. Major Adviser: James A. Campbell

David Mark Bosley, Duluth

B.A. with honor '76, Wisconsin State University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Jerrold M. Peterson

James Vernon Carr, Duluth

B.A. '78, University of Minnesota. Degree: Master of Social Work, July '91. Major: Social Work. Major Adviser: Melanie F. Shepard

Nanchiang Chang, Taipei, Taiwan

B.B.A. '86, National Taiwan University. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Shee Q. Wong

Bradley Keith Christiansen

B.B.A. honors '89, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Richard W. Lichty

Katherine Ann Forslund, Duluth

B.S. '72, University of Wisconsin. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Fawzi G. Dimian

Jane M. Gilley, Duluth

B.A. '74, Saint John's University. Degree: Master of Social Work, July '91. Major: Social Work. Major Adviser: Joyce M. Kramer

Ronald Edward Hagland, Orr

B.S.W. '82, University of Minnesota. Degree: Master of Social Work, May '91. Major: Social Work. Major Adviser: Joyce M. Kramer

John Wayland Hawley, Duluth

B.A. '70, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Kjell R. Knudsen

Michael Albert Klopp, Duluth

B.E.E. '79, University of Minnesota. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Kjell R. Knudsen

Gary Petrovicholson, Duluth

B.A. '83, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Jon L. Pierce

Karen Ellen Salmela, Duluth

B.S. magna cum laude '75, B.Acct. with distinction '83, University of Minnesota. Degree: Master of Business Administration, September '91. Major: Business Administration. Major Adviser: Jon L. Pierce

Yasuko Tsutsui, Toyama, Japan

B.A. '90, University of Minnesota. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Jerrold M. Peterson

Mary Jo Erickson Wall, St. Paul

B.A. cum laude '73, College of St. Scholastica. Degree: Master of Business Administration, June '91. Major: Business Administration. Major Adviser: Jerrold M. Peterson

Margaret Mary Wood, Duluth

B.B.A. magna cum laude '82, University of Minnesota. Degree: Master of Business Administration, July '91. Major: Business Administration. Major Adviser: Kjell R. Knudsen

*Master of Science***Aziz Abdesselam, Algiers, Algeria**

Diplome '83, Universite des Sciences et de la Technologie d'Alger. Degree: Master of Science in Electrical Engineering, May '91. Major: Electrical Engineering. Minor: Related Fields. Thesis: Implementation and Performance of Active R.C. Biquad Filters Using a Differential Output Operational Amplifier. Major Adviser: Rolf Schaumann

Lionel Patrick Aboulkheir, Paris, France

Diplome d'Ingenieur '89, Ecole Nationale Supérieure des Mines de Saint-Etienne. Degree: Master of Science in Civil Engineering, August '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Geostatistics for Pavement Design on Variable Soils. Major Adviser: Randal J. Barnes

Jamil Ahmad

D.V.M. '82, University of Agriculture Faisalabad.
Degree: Master of Science. September '91. Major:
Veterinary Microbiology. Minor: Related Fields. Major
Adviser: Jagdev M. Sharma

Ann Marie Albertson, St. Paul

B.A. '83, College of St. Thomas. Degree: Master of
Science. May '91. Major: Nutrition. Minor: Related
Fields. Major Adviser: Elaine H. Asp

Preston Rice Aldrich, Lake City

B.A. '87, St. Olaf College. Degree: Master of Science.
August '91. Major: Botany. Minor: Related Fields.
Thesis: Molecular Population Genetics of Cultivated and
Wild Sorghum. Major Adviser: John Doebley

Farideh Amiri

B.C.E. '84, B.Math. '86, University of Minnesota.
Degree: Master of Science in Civil Engineering, August
'91. Major: Civil Engineering. Minor: Related Fields.
Major Adviser: Panos Michalopoulos

Amy Lou Anderson, Rochester

B.A. magna cum laude '81, Gustavus Adolphus College.
Degree: Master of Science. June '91. Major: Nursing.
Minor: Gerontology. Major Adviser: Muriel B. Ryden

Charles Ronald Anderson, Apple Valley

B.S.Ch.E. '66, M.S.Ch.E. '68, Purdue University;
M.B.A. '72, Xavier University. Degree: Master of
Science. July '91. Major: Microbial Engineering. Minor:
Related Fields. Thesis: Evaluation of Conduction
Calorimetry for Monitoring Cell Growth During Direct
Production of CMA by Thermophilic Bacillus. Major
Adviser: Michael C. Flickinger

Craig Blewett Anderson

B.A. '78, B.S. with distinction '81, M.D. '86,
University of Minnesota. Degree: Master of Science in
Otolaryngology. August '91. Major: Otolaryngology.
Minor: Related Fields. Thesis: Alcian Blue Demonstration
of Cell Surface Glycoconjugates in the Chinchilla Organ
of Corti. Major Adviser: Peter A. Santi

Kathryn Elaine Anderson, Eau Claire, Wis.

B.S. with distinction '69, M.S. '81, M.S. '83, University
of Wisconsin. Degree: Master of Science. June '91.
Major: Nursing. Minor: Related Fields. Major Adviser:
Patricia S. Tomlinson

Mark William Anderson, River Falls, Wis.

B.S. '87, University of Wisconsin. Degree: Master of
Science. April '91. Major: Environmental Health. Minor:
Related Fields. Major Adviser: Charles E. McJilton

Karen Lorraine Andrews, Aumsville, Ore.

B.S. cum laude '79, Brigham Young University; D.V.M.
'84, Oregon State University. Degree: Master of Science,
July '91. Major: Veterinary Microbiology. Minor: Food
Science. Thesis: The Use of Ribotyping and DNA
Hybridization for the Molecular Characterization of
Campylobacter coli. Major Advisers: Theodore E. Molitor
and Michael Pullen

Kingsley Kwabena Ayisi, Amanokrom, Ghana

B.Sc.(Ag.) '86, University of Cape Coast. Degree:
Master of Science, July '91. Major: Agronomy. Minor:
Related Fields. Thesis: Biological Nitrogen Fixation in
White Lupin. Major Adviser: Daniel H. Putnam

Jan Erik Backlund, St. Paul

B.S. with high distinction '88, University of Minnesota.
Degree: Master of Science, July '91. Major: Plant
Pathology. Minor: Biochemistry. Thesis: Physical
Characteristics of the Puccinia Graminis F.SP. Tritici
Genome. Major Adviser: Alan P. Roelfs

Kim Susan Baglien, Plato

B.S. with high distinction '79, University of Minnesota.
Degree: Master of Science, July '91. Major: Food
Science. Minor: Related Fields. Thesis: Developing High
Fiber Foods for Human Nutrition Studies. Major Adviser:
Joanne L. Slavin

Sterling Thomas Bennett, Brooklyn Park

B.S. magna cum laude '82, M.D. '87, University of
Utah. Degree: Master of Science, August '91. Major:
Health Informatics. Minor: Related Fields. Thesis:
Reference Laboratory Certification of Clinical Laboratory
Cholesterol Measurements Using Patient Specimens: A
Computer Simulation Model. Major Adviser: Donald P.
Connelly

Cindy Dolores Berg, Hibbing

B.A. '81, University of Minnesota. Degree: Master of
Science in Mechanical Engineering, June '91. Major:
Mechanical Engineering. Minor: Biomedical Engineering.
Major Adviser: Thomas H. Kuehn

Michael Howard Bergin, Minneapolis

B.M.E. '87, University of Minnesota. Degree: Master of
Science in Mechanical Engineering, July '91. Major:
Mechanical Engineering. Minor: Related Fields. Thesis:
Laboratory and Field Measurements of Collection
Efficiency of Industrial Dust Collectors. Major Adviser:
David Y. H. Pui

Scott David Birkliid, Bloomington

B.A. '86, B.S. '86, Bemidji State University. Degree:
Master of Science, June '91. Major: Nutrition. Minor:
Related Fields. Thesis: Molecular Regulation of Hepatic
Fat Oxidation in Intra-abdominal Sepsis. Major Adviser:
Linda J. Brady

Even Bjornstad, Rindal, Norway

B.S. '89, University of Minnesota. Degree: Master of
Science, July '91. Major: Agricultural and Applied
Economics. Minor: Related Fields. Major Adviser: Kent
D. Olson

Peter Mirijan Bobgan

B.M.E. with distinction '89, University of Minnesota.
Degree: Master of Science in Mechanical Engineering,
July '91. Major: Mechanical Engineering. Minor: Related
Fields. Thesis: A Theoretical and Experimental Study on
Stability Based Performance Limitations in Telerobotic
Systems. Major Adviser: Homayoon Kazerooni

Paul John Boettcher, Leland, Wis.

B.S. '88, University of Wisconsin. Degree: Master of Science, July '91. Major: Animal Science. Minor: Statistics. Thesis: Genetic Evaluation of Holstein Bulls for Somatic Cells in Milk of Daughters. Major Adviser: Leslie B. Hansen

Jay Edwin Bosch, Rochester

B.E.E. with distinction '79, University of Minnesota. Degree: Master of Science in Electrical Engineering, August '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Richard Y. Kain

Jane Marie Boster, Spring Lake Park

B.S.N. '84, University of Minnesota. Degree: Master of Science, June '91. Major: Nursing. Minor: Related Fields. Major Adviser: Marilyn R. Gustafson

Kristin Marie Brahmstedt-Sutherland, Cookeville, Tenn.

B.S. highest honors '89, University of Tennessee. Degree: Master of Science, July '91. Major: Biomedical Engineering. Minor: Related Fields. Thesis: Oxidative Degradation of Polyether Urethane. Major Adviser: John W. Eaton

Timothy Vernon Brelje, St. Paul

B.M.E. '81, University of Minnesota. Degree: Master of Science, May '91. Major: Statistics. Minor: Related Fields. Major Adviser: F. Kinley Larntz

James M. Bridell, Minneapolis

B.Geo-E. '87, University of Minnesota. Degree: Master of Science in Geo-Engineering, June '91. Major: Geo-Engineering. Minor: Related Fields. Thesis: Reducing Frictional Constraint in Compression Testing Through Lubrication. Major Adviser: Joseph F. Labuz

Susan Ewald Brink, St. Paul

B.S.Geol. with honors '80, New Mexico Institute of Mining and Technology. Degree: Master of Science, August '91. Major: Geology. Minor: Related Fields. Thesis: Petrology and Geochemistry of an Early-Proterozoic Massive Sulfide Occurrence and Associated Volcanogenic Rock Suite, North-Central Wisconsin. Major Adviser: Frederick J. Sawkins

Ann Marie Brooks, Elk Grove, Ill.

B.A. '85, Saint Mary's College. Degree: Master of Science, September '91. Major: Chemistry. Minor: Related Fields. Thesis: Studies Involving the Alkaloids of *Dendrobium Pierardii*. Major Adviser: Edward Leete

Becky Jo Brooks, Minneapolis

B.S.N. cum laude '79, University of Wisconsin. Degree: Master of Science, June '91. Major: Public Health. Minor: Epidemiology. Thesis: Identifying Factors Influencing the Transition of Adult Southeast Asian Students Into and Through a Practical Nursing Program. Major Adviser: Mila A. Aroskar

Carol Sue Brown, Mankato

B.A. magna cum laude '74, College of St. Scholastica. Degree: Master of Science, August '91. Major: Public Health. Minor: Related Fields. Thesis: A Study of Chlamydial Pneumonia in Infants. Major Adviser: Mila A. Aroskar

David Allen Brown, St. Paul

B.E.E. with distinction '83, University of Minnesota. Degree: Master of Science in Electrical Engineering, September '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Larry L. Kinney

Ann Magdalen Bruce, Roseville

B.S. '82, University of Minnesota. Degree: Master of Science, May '91. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

Richard August Budde, Avon

B.M.E. '86, University of Minnesota. Degree: Master of Science in Mechanical Engineering, July '91. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Homayoon Kazerooni

Mary Sausen Buettner, Rochester

B.S. '86, University of Wisconsin. Degree: Master of Science, April '91. Major: Nursing. Minor: Related Fields. Major Adviser: Sheila A. Corcoran-Perry

Paul Christopher Burkhouse, Shafer

B.S. '87, Miami University. Degree: Master of Science, August '91. Major: Botany. Minor: Related Fields. Major Adviser: David D. Biesboer

Arch William Butler, Duluth

B.Comp.Sc. '84, University of Minnesota. Degree: Master of Science, July '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Maria Gini

ZhiLing Cai

Degree: Master of Science, August '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Ravi Janardan

Sandra Lee Caligiuri, Des Moines, Iowa

B.A. '77, Drake University. Degree: Master of Science, June '91. Major: Nursing. Minor: Related Fields. Thesis: Use of Passive Muscle Relaxation to Decrease State Anxiety in Patients Undergoing Coronary Angiography. Major Adviser: Mariah Snyder

Andy Caranicas, Minneapolis

B.M. summa cum laude '89, University of Minnesota. Degree: Master of Science, July '91. Major: Statistics. Minor: Related Fields. Major Adviser: Kathryn M. Chaloner

Judy Ann Carmein, Minneapolis

B.M.E. with distinction '83, University of Minnesota. Degree: Master of Science in Mechanical Engineering, June '91. Major: Mechanical Engineering. Minor: Computer and Information Sciences. Major Adviser: Arthur G. Erdman

Kathy Ellen Carter

B.S.Ed. '78, M.Ed. '80, University of Virginia. Degree: Master of Science, July '91. Major: Technical Communication. Minor: Related Fields. Thesis: Developing a Framework for Evaluating Health-Related Print Communication. Major Adviser: Laurie S. Hayes

Janet Katz Cass, St. Paul

B.A. '81, Macalester College. Degree: Master of Science, May '91. Major: Laboratory Medicine. Minor: Pathobiology. Thesis: Characterization of Three Antibodies Raised Against Human Glomerular Basement Membrane. Major Adviser: Ralph J. Butkowski

Martha Elena Chaverra

Microbiologa '87, Universidad de Cos Andes. Degree: Master of Science, May '91. Major: Soil Science. Minor: Related Fields. Thesis: Early Infection and Efficiency of Nodule Initiation Among Bean Cultivars (Phaseolus vulgaris L.). Major Adviser: Peter H. Graham

Junping Chen, Shijiazhuang, People's Republic of China

B.Ag. '82, Hebei Agricultural University. Degree: Master of Science, September '91. Major: Plant Physiology. Minor: Related Fields. Thesis: Effects of Aluminum and Temperature on Cell Membranes of Red Oak (*Quercus rubra*) Root Cortex Cells. Major Adviser: Eduard Stadelmann

Xuan Cheng, People's Republic of China

B.S. '83, Northeast University of Technology. Degree: Master of Science in Mineral Engineering, July '91. Major: Mineral Engineering. Minor: Related Fields. Thesis: Effects of Pulp Potential and Chalcopyrite-Pyrrhotite Interaction on Flotation Separation. Major Adviser: Iwao Iwasaki

Paula C. Cheslik, Minneapolis

B.S. summa cum laude '80, Texas Christian University; M.A. '82, Memphis State University. Degree: Master of Science, September '91. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Perry L. Blackshear

Grant Stolpe Christiansen, Rochester

B.E.E. with high distinction '83, University of Minnesota. Degree: Master of Science in Electrical Engineering, May '91. Major: Electrical Engineering-Rochester. Minor: Related Fields. Major Adviser: Ahmed H. Tewfik

Andrea Marie Cicero, Green Bay, Wis.

B.A. '88, Illinois Wesleyan University. Degree: Master of Science, August '91. Major: Chemistry. Minor: Related Fields. Thesis: Studies in Hydrogen Bond Topology Using Alcohols and Nitroanilines as Model Systems. Major Adviser: Margaret C. Etter

Gary Lee Clayman, Cleveland, Ohio

D.D.S. '82, Case Western Reserve University; M.D. '86, Northeastern Ohio Universities College of Medicine. Degree: Master of Science in Otolaryngology, May '91. Major: Otolaryngology. Minor: Related Fields. Thesis: Autologous Serum Modulation in the Effector Phase of Natural Killer and LAK Cells: An in vitro Model for Immunomodulation. Major Adviser: George L. Adams

Bradley Alan Cleveland, Plymouth

B.A. cum laude '82, St. Olaf College. Degree: Master of Science, June '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Maria Gini

David James Colburn, Mendota Heights

B.M.E. with distinction '87, University of Minnesota. Degree: Master of Science, August '91. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Arthur G. Erdman

Andrew Bryan Conru, Michigan City, Ind.

B.S. summa cum laude '90, Rose-Hulman Institute of Technology. Degree: Master of Science in Mechanical Engineering, September '91. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Homayoon Kazerooni

Maureen Elizabeth Coskran, St. Paul

B.A. '86, St. Mary's College. Degree: Master of Science, May '91. Major: Environmental Health. Minor: Related Fields. Major Adviser: Rexford D. Singer

Carla Jo Crepeau, Maple Grove

B.A. '83, Luther College. Degree: Master of Science, April '91. Major: Food Science. Minor: Related Fields. Major Adviser: David E. Smith

Pamela Marie Crouse, Duluth

B.S. '74, College of Saint Teresa. Degree: Master of Science, July '91. Major: Nursing. Minor: Related Fields. Major Adviser: Sara S. Dehart

Marcio Antonio DaFonseca

Cirurgiao Dentista '88, Universidade de Juiz de Fora. Degree: Master of Science, August '91. Major: Dentistry. Minor: Related Fields. Thesis: An Investigation of Head, Face, Neck, and Intraoral Injuries Due to Child Maltreatment. Major Adviser: Robert J. Feigal

Scott Andrew Dahl, Minneapolis

B.A.E.M. '85, University of Minnesota. Degree: Master of Science in Aerospace Engineering, August '91. Major: Aerospace Engineering. Minor: Mechanical Engineering. Major Adviser: Thomas A. Posbergh

Ethan Mark Dawson

B.S.E. with high honors '84, Princeton University. Degree: Master of Science in Geo-Engineering, July '91. Major: Geo-Engineering. Minor: Related Fields. Major Adviser: Andrzej Drescher

Joseph Allan DePuydt, Lafayette

B.M.E. with high distinction '89, University of Minnesota. Degree: Master of Science in Mechanical Engineering, June '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Tradeoffs Between Stability and Performance for a Two Degree of Freedom Telerobotic System. Major Adviser: Homayoon Kazerooni

Thomas Henry Dick, Stillwater

B.A. '88, Hamline University. Degree: Master of Science in Industrial Engineering, August '91. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Patrick J. Starr

Sait Dogru, Diyarbakir, Turkey

B.S. '87, Hacettepe University. Degree: Master of Science, September '91. Major: Computer and Information Sciences. Minor: Psychology. Major Adviser: James R. Slagle

James Scott Douglas, White Bear Lake

B.M.E. with high distinction '89, University of Minnesota. Degree: Master of Science in Mechanical Engineering, April '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Determination of Moisture Transport Properties for Common Building Materials: Methods and Measurements. Major Adviser: Thomas H. Kuehn

Mark Gerald Dube, Brewer, Me.

B.S. magna cum laude '89, Rensselaer Polytechnic Institute. Degree: Master of Science in Mechanical Engineering, July '91. Major: Mechanical Engineering. Minor: Industrial Engineering. Thesis: Development of Thermoplastic Reaction Injection Pultrusion. Major Adviser: Jeffrey H. Vogel

Mohammad Amir Durrani, Karachi, Pakistan

B.S. cum laude '89, University of Massachusetts. Degree: Master of Science in Chemical Engineering, September '91. Major: Chemical Engineering. Minor: Related Fields. Thesis: Mathematical Modeling of Biomechanical Phenomenon in Wound Contraction. Major Adviser: Robert T. Tranquillo

Paul Richard Dykes, Minneapolis

B.S. '89, Kansas State University. Degree: Master of Science, May '91. Major: Ecology. Minor: Related Fields. Major Adviser: James W. Curtsinger

Judith Ann Eddy, La Crescent

B.S.N. summa cum laude '84, Viterbo College. Degree: Master of Science, April '91. Major: Nursing. Minor: Related Fields. Major Adviser: Sandra R. Edwardson

Michael David Edlund, St. Paul

B.C.E. '83, University of Minnesota. Degree: Master of Science in Civil Engineering, July '91. Major: Civil Engineering. Minor: Related Fields. Thesis: A Conformal Mapping Application to the Analytic Element Method. Major Adviser: Otto D. L. Strack

Abdelfatah Elbehri, Sale, Morocco

Diplome d'Ing. Agron. '85, Institut Agronomique Veterinaire Hassan II. Degree: Master of Science, July '91. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Terry L. Roe; Degree: Master of Science, July '91. Major: Agronomy. Minor: Related Fields. Thesis: Applied Nitrogen and Cultivar Effects on Grain Yield and Nitrogen Use Efficiency of Grain Amaranth. Major Adviser: Daniel H. Putnam

Rose Marie Elliott, Inver Grove Heights

B.Mech.E. '82, University of Minnesota. Degree: Master of Science in Mechanical Engineering, May '91. Major: Mechanical Engineering. Minor: Computer and Information Sciences. Thesis: Finite Element Stress Analysis of a Three-Dimensional Segmental Bone Defect Replacement Prosthesis. Major Adviser: Donald R. Riley

Steven Mark Emerson, St. James

B.E.E. '86, University of Minnesota. Degree: Master of Science in Electrical Engineering, August '91. Major: Electrical Engineering. Minor: Industrial Engineering. Major Adviser: William A. Plice

Laurie Ann Erdman, Valley Center, Calif.

B.S. with honors '89, University of California. Degree: Master of Science, April '91. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: EC – U.S. Soybean and Soybean Product Trade Policy Issues and Disputes. Major Adviser: C. Ford Runge

Mary Ann Elizabeth Evans, Fort Collins, Colo.

B.A. magna cum laude '86, University of Northern Colorado. Degree: Master of Science, August '91. Major: Nutrition. Minor: Related Fields. Major Adviser: Dennis A. Savaiano

Xing Fang

B.Eng. '87, Tsinghua University. Degree: Master of Science in Civil Engineering, April '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Integral Jet Model for Flows in Strong Open Channel Expansions (Inflows to Shallow Lakes and Reservoirs). Major Adviser: Heinz G. Stefan

Ali Faradjnya, Oroumieh, Iran

B.Eng. '87, Tsinghua University. Degree: Master of Science in Agricultural Engineering, June '91. Major: Agricultural Engineering. Minor: Related Fields. Major Adviser: Jonathan Chaplin

Evelyn Reynoso Fernandez, Laguna, Philippines

B.S.A. '80, M.S. '85, University of the Philippines. Degree: Master of Science, July '91. Major: Soil Science. Minor: Related Fields. Thesis: Characterization of Bradyrhizobium Japonicum Strains from Northern Thailand. Major Adviser: Peter H. Graham

Paul Bernard Fischer, Rochester, N.Y.

B.S.Eng. with high honors '89, Case Western Reserve University. Degree: Master of Science in Electrical Engineering, June '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Shelley N. Chou

Ann Marie Fleischmann, Blair, Neb.

B.S. with high distinction '88. University of Nebraska. Degree: Master of Science. April '91. Major: Food Science. Minor: Related Fields. Thesis: The Dielectric and Rheological Properties of Whey Proteins. Major Adviser: Eugenia A. Davis

Maria Elena Flores

D.D.S. '82, Universidad Central del Ecuador. Degree: Master of Science. June '91. Major: Dentistry. Minor: Related Fields. Thesis: Prevalence of Craniomandibular Disorders, Malocclusion, and Parafunctional Habits in a Group of Children and Adolescents Prior to Orthodontic Treatment. Major Adviser: Thomas M. Speidel

Doug S. Foulk

B.A. '82, University of Minnesota. Degree: Master of Science. August '91. Major: Horticulture. Minor: Related Fields. Major Adviser: Emily E. Hoover

Deanna Lynn Francis, Pocahontas, Iowa

B.A. '87, University of Minnesota. Degree: Master of Science. March '91. Major: Nutrition. Minor: Related Fields. Thesis: The Effect of Dietary RNA on Nucleotide Synthesis and Pancreatic Ribonuclease Activity. Major Adviser: Dennis A. Savaiano

Steven Gary Frank, St. Paul

B.S.Comp.E. '83, University of New Mexico. Degree: Master of Science. July '91. Major: Computer and Information Sciences. Minor: Cognitive Science. Major Adviser: Maria Gini

Susan Beth Fredstrom, Minneapolis

B.S. with distinction '73, University of Minnesota. Degree: Master of Science. September '91. Major: Nutrition. Minor: Related Fields. Thesis: Applications of Dietary Fiber Methodology: A Comparison of Dietary Fiber Content in Enteral Feedings; Apparent Digestibility of Three Fibers in Men and Women; a Trial of Near Infrared Reflectance Spectroscopy in a Human Digestibility Study. Major Adviser: Joanne L. Slavin

Todd J. Freeman, Urbandale, Iowa

B.A. summa cum laude '82. M.D. '85, University of Nebraska. Degree: Master of Science in Otolaryngology. June '91. Major: Otolaryngology. Minor: Related Fields. Thesis: Inhibition of Endogenous Superoxide Dismutase with Diethyldithiocarbamate in Acute Island Skin Flaps. Major Adviser: Robert H. Maisel

Jonathan L. French, Frederick, Md.

B.A. cum laude '89, University of Delaware. Degree: Master of Science. September '91. Major: Statistics. Minor: Related Fields. Major Adviser: Frank B. Martin

Michael James Friedel, Lakeville

B.S. '83, M.S. '86, University of Wisconsin. Degree: Master of Science. August '91. Major: Geo-Engineering. Minor: Agricultural Engineering. Major Advisers: Joseph F. Labuz and John L. Nieber

Geoffrey Todd Friedman, West Hartford, Conn.

B.S. with distinction '88. Cornell University. Degree: Master of Science in Mechanical Engineering. July '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Experimental Investigation of Fluid Mechanics in Oscillating Flow: A Detailed Study at a Single Operating Point. Major Adviser: Terrence W. Simon

Irong Fu, Taichung, Taiwan

B.Sc. '84, National Taiwan Normal University. Degree: Master of Science. September '91. Major: Chemistry. Minor: Related Fields. Thesis: Micro-Quantitation of Cyclosporine and its Metabolites and Determination of Their Spectral Absorptivities. Major Adviser: Larry D. Bowers

Kathleen Louise Furey, St. Paul

B.A. '74, College of St. Catherine. Degree: Master of Science. May '91. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

Navindra Singh Gambhir, Jodhpur, India

B.Tech '89, Indian Institute of Technology. Degree: Master of Science. September '91. Major: Computer and Information Sciences. Minor: Mathematics. Major Adviser: Ravi Janardan

Rohit Garg

B.Tech. '87, Banaras Hindu University. Degree: Master of Science. July '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: James R. Slagle

Rohit Garg

B.Tech. '87, Banaras Hindu University. Degree: Master of Science. June '91. Major: Mathematics. Minor: Related Fields. Major Adviser: E. Gebhard Fuhrken

Andres Domingo Gil, Montevideo, Uruguay

D.V.M. '77, Universidad de la Republica. Degree: Master of Science. June '91. Major: Veterinary Medicine. Minor: Statistics. Major Adviser: Stanley L. Diesch

Paul Amos Gilsdorf, Dickinson, N.D.

B.S. '86, North Dakota State University. Degree: Master of Science. May '91. Major: Biomedical Engineering. Minor: Physiology. Major Adviser: Robert P. Patterson

Mark Frank Giordano, Walla Walla, Wash.

B.A. '88, Whitman College. Degree: Master of Science. April '91. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Terry L. Roe

Daniel E. Glumac, Hibbing

B.E.E. '89, University of Minnesota. Degree: Master of Science in Electrical Engineering. August '91. Major: Electrical Engineering. Minor: Related Fields. Thesis: Linear Piezoelectric Actuator Utilizing a Meander Line Geometry. Major Adviser: William P. Robbins

Theresa Ann Goerke, St. Paul

B.S. '73, Winona State College. Degree: Master of Science. June '91. Major: Physics. Minor: Related Fields. Major Adviser: Walter H. Johnson, Jr.

Katherine Logan Gordon, La Jolla, Calif.

B.A. '82, Carleton College. Degree: Master of Science, September '91. Major: Geology. Minor: Related Fields. Thesis: Petrologic Characterization of a Keweenawan Diabase. Major Adviser: Paul W. Weiblen

Susan Adele Gordon

B.S. '82, M.S. '83, University of Wisconsin. Degree: Master of Science, June '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: John V. Carlis

Christopher Dale Gram, Bloomington

B.A. '86, Yale College. Degree: Master of Science, September '91. Major: Cell and Developmental Biology. Minor: Related Fields. Thesis: An Analysis of the Amino Acid Side Chain Requirement at Position 177 of the Lactose Permease Which Confers the Ability to Recognize Maltose. Major Adviser: Robert J. Brooker

Jorunn Grande, Steinkjer, Norway

B.S. '89, University of Minnesota. Degree: Master of Science, June '91. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Kent D. Olson

Todd Alan Grant, Eagan

B.S. '87, University of Minnesota. Degree: Master of Science, May '91. Major: Wildlife Conservation. Minor: Related Fields. Thesis: Foraging Ecology and Habitat Use of Trumpeter Swans Breeding on the Copper River Delta, Alaska. Major Adviser: James A. Cooper

Katharine Anne Green, Penns Grove, N.J.

B.S.N. '82, University of Pennsylvania. Degree: Master of Science, April '91. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

Lori Sue Gross, St. Paul

B.S. with distinction '88, University of Minnesota. Degree: Master of Science, June '91. Major: Nutrition. Minor: Related Fields. Major Adviser: Joanne L. Slavin

Hongyan Gu

B.S. '82, Fudan University. Degree: Master of Science in Mechanical Engineering, June '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Laser-Induced Fluorescence System for Thermal Plasma Processing Studies. Major Advisers: Emil Pfender and Steven L. Girshick

Heidi Joyce-Christensen Haines, St. Paul

B.S. '85, St. Olaf College. Degree: Master of Science, June '91. Major: Public Health. Minor: Related Fields. Thesis: Parental Distress in the Home Care of Medically Fragile Children. Major Adviser: Robert W. Tenbensen

Martin Jacob Halverson, Parkville

B.C.E. '83, University of Minnesota. Degree: Master of Science in Civil Engineering, April '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Air-Water Gas Transfer and Secondary Currents in Open Channel Flow. Major Adviser: John S. Gulliver

Anna Marguerite Halvorson, Rochester

B.A. '81, Luther College. Degree: Master of Science, June '91. Major: Nursing. Minor: Related Fields. Thesis: Description of Effort Spent on Nursing Documentation Described Through a Framework of Nursing Documentation Initiators. Major Adviser: Sandra R. Edwardson

Kassem Ali Hamze

B.E.E. '88, University of Minnesota. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Stephen A. Campbell

Jorge Hanchi-Mawyin, Ecuador

Ingeniero Mecanico '86, Escuela Superior Politecnica del Litoral. Degree: Master of Science in Mechanical Engineering, April '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Study of the Mild-Severe Wear Transition Using Acoustic Emission Monitoring. Major Adviser: Barney E. Klamecki

Michael Delane Hanson, Minot, N.D.

B.M.E. '84, University of Minnesota. Degree: Master of Science in Industrial Engineering, August '91. Major: Industrial Engineering. Minor: Related Fields. Thesis: Effective Warning Signs and Labels for Consumer Products. Major Adviser: Tarald O. Kvalseth

Richard Ellsworth Harrison, Jr., Peoria, Ill.

B.S. with distinction '87, Iowa State University of Science and Technology. Degree: Master of Science, September '91. Major: Horticulture. Minor: Plant Breeding. Thesis: Reproductive Fertility in Highbush and Half-High Blueberries. Major Advisers: James J. Luby and Peter D. Ascher

Robert John Hasslen, Eden Prairie

B.E.E. '81, University of Minnesota. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: James E. Holte

Bonnie Ann Hatten, Duluth

B.A. magna cum laude '86, University of Minnesota. Degree: Master of Science, June '91. Major: Genetics. Minor: Bioethics. Major Adviser: Richard A. King

Jianming He, People's Republic of China

B.S. '82, Chengdu University of Science and Technology; M.S. '84, Institute of Water Conservancy and Hydroelectric Power Research. Degree: Master of Science, June '91. Major: Fluid Mechanics. Minor: Related Fields. Thesis: Numerical Simulation of Turbulent Flow in Two Dimensional Symmetric Diffuser. Major Adviser: Charles C. S. Song

Michael Roy Henderson, Minneapolis

B.Phys. '89, University of Minnesota. Degree: Master of Science, August '91. Major: Physics. Minor: Related Fields. Major Adviser: Charles E. Campbell

Sharon Lee Henry, Vadnais Heights

B.S. cum laude '79, Mankato State University. Degree: Master of Science. April '91. Major: Environmental Health. Minor: Related Fields. Major Adviser: Jeffrey B. Stevens

William Robert Herb, Madison, Wis.

B.S.M.E. with distinction '85, University of Wisconsin. Degree: Master of Science in Mechanical Engineering. May '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: An Experimental Investigation of Vibration in Spark Ignition Engines Due to Normal Combustion and Knock. Major Adviser: Darrell A. Frohrib

Luke Morrison Hopkins, Scott City, Kan.

B.S.E.E. magna cum laude '87, Rice University; M.S. '89, New York University. Degree: Master of Science in Electrical Engineering, June '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Richard Y. Kain

Jia Hu, Cherdu, People's Republic of China

B.S. '82, Harbin Institute of Naval Architecture; M.S.Eng. '84, Thermophysics Institute (C.A.S.S.). Degree: Master of Science, April '91. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Perry L. Blackshear

Brenda Faye Hughes

B.S. magna cum laude '89, Clemson University. Degree: Master of Science, July '91. Major: Food Science. Minor: Related Fields. Thesis: Development of Bacteriophage-Resistant Lactococci Through the Use of a Food-Grade Vector Coding for Phage and Nisin Resistance. Major Adviser: Larry L. McKay

Dana Sheryl Huseby, St. John, Wash.

B.S.Ag.Econ. cum laude '88, Washington State University. Degree: Master of Science, July '91. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Claudia A. Parliament

Rebecca Jean Jablonski, Minneapolis

B.A. '79, College of St. Scholastica. Degree: Master of Science, April '91. Major: Nursing. Minor: Related Fields. Major Adviser: Ruth D. Lindquist

Tayeb Jaouzi, Rabat, Morocco

Degree: Master of Science, September '91. Major: Veterinary Microbiology. Minor: Related Fields. Thesis: Studies on the Effects of Newcastle Disease Virus and Infectious Bronchitis Virus ("G" Strain) on Egg Production and Egg Quality in Moroccan Commercial Layer Hens. Major Adviser: Vaithianathan Sivanandan

Slah Jendoubi

B.M.E. with distinction '89, University of Minnesota. Degree: Master of Science in Mechanical Engineering, September '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Radiative Transfer Solution for Cylindrical Coordinates with Emitting, Absorbing and Anisotropic Scattering Medium. Major Adviser: Haok S. Lee

Zhaoping Jiang, Beijing, People's Republic of China

B.Sc. '86, Peking University. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Stephen Y. Chou

Andrew Alan Johnson, Stillwater

B.Aero.E. and Mech. with distinction '90, University of Minnesota. Degree: Master of Science in Aerospace Engineering, August '91. Major: Aerospace Engineering. Minor: Related Fields. Thesis: Numerical Simulation of Flows Past Spatially Periodic Arrays of Cylinders. Major Adviser: Tayfun E. Tezduyar

Bradford Willingham Johnson, Minneapolis

B.Math. '81, M.S. '88, University of Minnesota. Degree: Master of Science, July '91. Major: Statistics. Minor: Related Fields. Major Adviser: Morris L. Eaton

Kevin Christopher Johnson

B.S. high honors '87, Illinois Institute of Technology. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Mostafa Kaveh

Paul Grumstrup Johnson, Cedar Falls, Iowa

B.S. honors '86, Iowa State University of Science and Technology. Degree: Master of Science, June '91. Major: Horticulture. Minor: Related Fields. Thesis: Factors Affecting Seed Set in *Poa annua* L. Using an Excised Stem Technique. Major Adviser: Donald B. White

Steven Gerard Johnson, St. Paul

B.Phys. with distinction '85, University of Minnesota. Degree: Master of Science, June '91. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: ONYX: An Object-Oriented Language for the Nexus Distributed Operating System. Major Adviser: Anand R. Tripathi

Mourad Kallel, Tunisia

B.E.E. with distinction '88, University of Minnesota. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Related Fields. Thesis: Loop Gain-Phase Shaping Techniques for Robust Multi-Axis Coordinated Motion Control. Major Adviser: Fredric N. Bailey

Brent Ronald Kevern, Rochester

B.S. '84, Central Michigan University. Degree: Master of Science, August '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: John T. Riedl

Joseph Jacob Khouri, Minneapolis

B.M.E. with distinction '84, University of Minnesota. Degree: Master of Science in Mechanical Engineering, July '91. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Kim A. Stelson

Dal-Ho Kim

B.S. '80, M.S. '82, Kyungpook National University. Degree: Master of Science, June '91. Major: Statistics. Minor: Related Fields. Major Adviser: F. Kinley Larntz

Morten Klepp, Stavanger, Norway

Cand. Odont. '82, University of Oslo. Degree: Master of Science, July '91. Major: Dentistry. Minor: Related Fields. Thesis: Demineralized Freeze-Dried Bone Allografts in Periodontal and Subcutaneous Lesions in Dogs. Major Adviser: James E. Hinrichs

Karson L. Knutson, Eau Claire, Wis.

B.A. cum laude '88, St. Olaf College. Degree: Master of Science in Electrical Engineering, June '91. Major: Electrical Engineering. Minor: Chemical Engineering. Major Adviser: Stephen A. Campbell

Owen Charles Kolstad, St. Paul

B.S. '78, North Dakota State University. Degree: Master of Science in Mechanical Engineering, June '91. Major: Mechanical Engineering. Minor: Computer and Information Sciences. Major Adviser: Arthur G. Erdman

Kyle David Korzenowski, Minnetonka

B.S. '89, Rensselaer Polytechnic Institute. Degree: Master of Science in Industrial Engineering, July '91. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Patrick J. Starr

Paul Harold Kramer, Rochester

B.A. magna cum laude '71, Wartburg College; M.S. '74, Iowa State University. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Richard Y. Kain

Harish Krishnamurthy, Bangalore, India

M.S.M.E. '87, University of Toledo. Degree: Master of Science, June '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Maria Gini

John Thomas Kubesh, Buffalo Lake

B.Ag.E. with distinction '88, University of Minnesota. Degree: Master of Science in Mechanical Engineering, June '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Combustion in a Natural Gas-Diesel Fuel Dual-Fuel Compression Ignition Engine. Major Adviser: Diana D. Brehob

Andreas Joachim Kullmann, Bad Soden, Germany

Approbation Als Zahnarzt '86, Bayerisches Staatsministerium Des Innern; D.M.D. '88, Julius-Maximilians University. Degree: Master of Science, August '91. Major: Dentistry. Minor: Related Fields. Thesis: Reliability Testing of an Ultrasonic Real-Time Motion Tracking Device. Major Adviser: John K. Schulte

Boniface Kaihey Lee, Hong Kong

B.E.E. with distinction '84, University of Minnesota. Degree: Master of Science in Electrical Engineering, June '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Larry L. Kinney

Joo-Sang Lee, Seoul, Korea

B.S.E.E. '86, Hanyang University. Degree: Master of Science in Electrical Engineering, June '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Keshab K. Parhi

Jyh-Liang Amy Lee, Minneapolis

B.A. '83, National Chung Hsing University; M.A. '88, University of Minnesota. Degree: Master of Science, July '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Ting-Chuen Pong

Sung Kyu Lee, Korea

B.S. '82, M.S. '84, Hanyang University. Degree: Master of Science, August '91. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Electrochemical Study of Reactions in Molten Carbonates. Major Adviser: David A. Shores

Wenlin Lee, Taiwan

B.S. '85, China Medical College. Degree: Master of Science, July '91. Major: Nursing. Minor: Related Fields. Major Adviser: Ruth D. Lindquist

Ping Li

B.Eng. '84, Guilin Institute of Geology. Degree: Master of Science, September '91. Major: Geophysics. Minor: Materials Science and Engineering. Thesis: An Experimental Study on High Temperature Creep of Polycrystalline Calcium Titanate Perovskite and its Application to Lower Mantle Rheology. Major Adviser: Shun-ichiro Karato

Xu Li, Anhua, Hunan, People's Republic of China

B.S. '86, Peking University. Degree: Master of Science, August '91. Major: Physics. Minor: Related Fields. Major Adviser: Larry McLerran

Victor C. Lin

B.S. '87, National Chiao Tung University. Degree: Master of Science, June '91. Major: Computer and Information Sciences. Minor: Electrical Engineering. Major Adviser: David H. Du

LeAnn V. Lindeman, Mankato

B.S. summa cum laude '73, Mankato State College. Degree: Master of Science, April '91. Major: Nursing. Minor: Related Fields. Major Adviser: Bernadine M. Feldman

Michael John Link, St. Paul

B.S.E.E. '85, University of Missouri. Degree: Master of Science in Electrical Engineering, June '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Kevin M. Buckley

JiaJer Liou

B.S. '85, M.S. '87, National Cheng Kung University. Degree: Master of Science, September '91. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Arthur J. Coury

Yi Liu, Taipei, Taiwan

B.S. '88, National Taiwan Normal University. Degree: Master of Science, April '91. Major: Biochemistry. Minor: Chemistry. Thesis: Complex Formation Between the Protein Components of Methane Monooxygenase from *Methylosinus trichosporium* OB3b. Major Adviser: John D. Lipscomb

Elizabeth Rose Logan, St. Paul

B.M.E. with distinction '86, University of Minnesota. Degree: Master of Science in Mechanical Engineering. April '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Three Position Synthesis and Analysis of Planar Four-Bar Mechanisms with Prismatic and Revolute Joints. Major Adviser: Arthur G. Erdman

Mary Grace Loreti, Ironwood, Mich.

B.S. '80, College of St. Francis. Degree: Master of Science. July '91. Major: Nursing. Minor: Related Fields. Major Adviser: Sara S. Dehart

Marie Joycelyn Lu Lua, Manila, Philippines

D.D.M. '85, University of the Philippines. Degree: Master of Science. September '91. Major: Dentistry. Minor: Related Fields. Thesis: Clinical Evaluation of an Experimental Shade Guide Based on in-vivo Tooth Color Measurements. Major Adviser: Richard J. Goodkind

Thomas Edward MacDonald, Houlton, Wis.

B.C.E. '89, University of Minnesota. Degree: Master of Science in Civil Engineering. August '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Inventory and Analysis of Stream Meander Problems in Minnesota. Major Adviser: Gary Parker

Paul Michael Mackey, St. Paul

B.A. magna cum laude '89, Macalester College. Degree: Master of Science. June '91. Major: Mathematics. Minor: Related Fields. Major Adviser: Karel L. Prikrý

Jagruti Mahapatra, Bhubaneswar, Orissa, India

M.S. '87, Utkal University. Degree: Master of Science. May '91. Major: Physics. Minor: Related Fields. Major Adviser: Benjamin F. Bayman

Manish Maheshwari, Indore, M.P., India

B.E. '86, Devi Ahilya Vishwavidyalaya. Indore. Degree: Master of Science. September '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Jaideep Srivastava

Kenneth Charles Marston

B.E. summa cum laude '87, State University of New York. Degree: Master of Science in Mechanical Engineering. May '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Film Cooling of the Gas Turbine Cascade Endwall by Discrete Hole Injection. Major Adviser: Richard J. Goldstein

Lisa Dione Mason

B.A. '89, Hamline University. Degree: Master of Science. June '91. Major: Physics. Minor: History of Science and Technology. Major Adviser: Walter H. Johnson, Jr.

Joan Frances Mattila, Minneapolis

B.S. '71, Mankato State College. Degree: Master of Science. April '91. Major: Nursing. Minor: Related Fields. Major Adviser: Patricia S. Tomlinson

Cynthia Ann McComas, St. Paul

B.S. '78, M.S. '80, Texas Christian University. Degree: Master of Science in Civil Engineering. April '91. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Michael J. Semmens

Janice Elaine McDougal, Roseville

B.A. with highest honors '73, Bethel College; B.S.N. '82, University of Minnesota. Degree: Master of Science. June '91. Major: Nursing. Minor: Related Fields. Major Adviser: Marilyne R. Gustafson

Reed Fraser McEwan, Minneapolis

B.A. '86, Colgate University. Degree: Master of Science. July '91. Major: Geology. Minor: Related Fields. Thesis: Structural Analysis and Oxygen and Carbon Isotope Analysis of Quartzcarbonate and Carbonate-rich Veins: Implications for Vein Formation in the Greenschist Facies Rocks of the Lake Vermilion Formation, Vermilion District, Northeastern Minnesota. Major Adviser: Peter J. Hudleston

Martin Robert McGregor

B.S. '81, University of Minnesota. Degree: Master of Science. June '91. Major: Plant Breeding. Minor: Related Fields. Thesis: Recovery and Evaluation of Near Isolines of Maize Inbred Line FR22 Differing in Two Isozyme Loci. Major Adviser: Burle G. Gengenbach

Deborah Ann McIntyre, Edina

B.A. cum laude '84, St. Olaf College. Degree: Master of Science. August '91. Major: Food Science. Minor: Microbiology. Thesis: Electroporation of Lactococcus Lactis Subsp. Lactis and Construction of a First Generation Lactococcal Integrative Food-Grade Cloning Vector. Major Adviser: Susan K. Harlander

Eyasu Jembere Mekonnen

B.S. with high scholarship '87, Oregon State University. Degree: Master of Science. September '91. Major: Soil Science. Minor: Related Fields. Thesis: The Nature of Smectites in Soils Developed on Major Parent Materials in Minnesota. Major Adviser: Edward A. Nater

Nacera Mellal

Degree: Master of Science. July '91. Major: Statistics. Minor: Mathematics. Major Adviser: Glen D. Meeden

Matthew James Menne, Minneapolis

B.S. '88, University of Wisconsin. Degree: Master of Science. September '91. Major: Soil Science. Minor: Related Fields. Thesis: The Spatial and Temporal Distribution of Solar Irradiance in Minnesota. Major Adviser: Mark W. Seeley

Paul Lawrence Middleton

B.E.E. with high distinction '86, University of Minnesota. Degree: Master of Science in Electrical Engineering. April '91. Major: Electrical Engineering. Minor: Related Fields. Thesis: Optimal Rejection of Persistent Bounded Disturbances for Underdamped Structures. Major Adviser: Jeff S. Shamma

Arthur Lawrence Miller, Waseca

B.A.E.M. '86, University of Minnesota. Degree: Master of Science, April '91. Major: Fluid Mechanics. Minor: Related Fields. Thesis: Disintegration of a Waterjet into a Larger Diameter Pipe. Major Adviser: Roger E. A. Arndt

Maria Lourdes Moline

B.S. summa cum laude '87, University of Minnesota. Degree: Master of Science, June '91. Major: Genetics. Minor: Bioethics. Major Adviser: Richard A. King

Deane Teig Morrison, Vancouver, Wash.

B.S.C.E. summa cum laude '88, Washington State University. Degree: Master of Science in Civil Engineering, June '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Transport in Heterogeneous Porous Media: Spatial Moments and Correlation Structures. Major Adviser: Roko Andricevic

Juan Carlos Munyo, Montevideo, Uruguay

Doctor en Veterinaria '79, Universidad de la Republica. Degree: Master of Science, August '91. Major: Nutrition. Minor: Food Science. Major Advisers: Paul B. Addis and Michael Pullen

Robert Ulysses Murdock, St. Paul

B.M.E. with distinction '85, University of Minnesota. Degree: Master of Science in Civil Engineering, September '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Uncertainty Analysis for Hydropower Feasibility. Major Adviser: John S. Gulliver

Kathleen Johanna Nacos, Dubuque, Iowa

B.S. '81, College of St. Theresa. Degree: Master of Science, September '91. Major: Nursing. Minor: Related Fields. Major Adviser: Muriel B. Ryden

Abolghasem Naghash, Tehran, Iran

B.S. '88, Sharif University of Technology. Degree: Master of Science, July '91. Major: Mechanics. Minor: Related Fields. Major Adviser: Dale F. Enns

Ken Nakatani, San Leandro, Calif.

B.A. '83, University of California. Degree: Master of Science, April '91. Major: Environmental Health. Minor: Related Fields. Major Adviser: Rexford D. Singer

Prafull Devidas Nayak, Bombay, India

B.Eng. '83, University of Mysore; M.M. '86, University of Bombay. Degree: Master of Science, June '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Jaideep Srivastava

Maurine Helen Needham, Bloomington, Ind.

B.S. with high distinction '78, University of Minnesota. Degree: Master of Science, April '91. Major: Forestry. Minor: Related Fields. Major Adviser: Alvin A. Alm

Cynthia R. Nelson, Coon Rapids

B.M.E. '85, University of Minnesota. Degree: Master of Science in Mechanical Engineering, July '91. Major: Mechanical Engineering. Minor: Mathematics. Major Adviser: Warren E. Ibele

Monte Lynn Norgaard, Minneapolis

B.A. summa cum laude '74, University of Minnesota. Degree: Master of Science in Anesthesiology, April '91. Major: Anesthesiology. Minor: Related Fields. Thesis: The Pharmacokinetics of Fentanyl in Congestive Heart Failure. Major Adviser: Jorge A. Estrin

Michael Peter Norman, Minneapolis

B.E.E. with distinction '87, University of Minnesota. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Physics. Thesis: Microwave Plasma Boosted Chemically Assisted Ion Beam Etching System for Sculpting Integrated Optoelectronic Devices and Circuits. Major Adviser: Anand Gopinath

Steven Edmund Nowakowski

B.S.Co.E. '88, B.S.E.E. '88, University of Missouri. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Matthew T. Okeefe

Jeffrey Donald Nygaard, Minneapolis

B.M.E. '87, University of Minnesota. Degree: Master of Science in Mechanical Engineering, May '91. Major: Mechanical Engineering. Minor: Electrical Engineering. Thesis: An Examination of Performance and Stability Robustness for a Coherent Human-Machine Interaction. Major Adviser: Homayoon Kazerooni

Clement Nnamdi Onyenemezu, Imo State, Nigeria

B.Sc. '87, University of Nigeria. Degree: Master of Science, August '91. Major: Chemistry. Minor: Related Fields. Thesis: Emulsifier-Free Polymer Latexes: Styrene with an Ionic Comonomer. Major Adviser: Wilmer G. Miller

Linda Forde Ott, Lake Elmo

B.S. '85, Augsburg College. Degree: Master of Science, April '91. Major: Nursing. Minor: Related Fields. Major Adviser: Patricia Crisham

Mary Elizabeth Overend, Minneapolis

B.A. '84, College of St. Catherine. Degree: Master of Science, April '91. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: John W. Eaton

Jose B. Pacheco

Ingeniero '84, Instituto Tecnologico de Durango. Degree: Master of Science in Civil Engineering, June '91. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Roberto Tomas Leon

Steven Sungyong Pak, Chicago, Ill.

B.S. with honors '89, University of Illinois. Degree: Master of Science in Mechanical Engineering, August '91. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Benjamin Y. H. Liu

Diana Lee Parker, Rochester, N.Y.

B.A. '87, College of Wooster. Degree: Master of Science, August '91. Major: Chemistry. Minor: Related Fields. Major Adviser: Margaret C. Etter

Ethel Louise PaStarr, Minneapolis

B.S. with high honor '77, Michigan State University. Degree: Master of Science, April '91. Major: Nursing. Minor: Related Fields. Thesis: Episiotomy vs. Laceration: A Comparison of the Pain Experienced by Postpartum Women. Major Adviser: Kathleen G. Dineen

Jodi Ann Peterson, Minnetonka

B.A. summa cum laude '82, College of St. Scholastica. Degree: Master of Science, April '91. Major: Clinical Laboratory Science. Minor: Related Fields. Thesis: Preliminary Characterization of the C5A Peptidase Gene of Group G Streptococcus. Major Adviser: Carol L. Wells

Kurt S. Pfaff, Appleton

B.A. with high distinction '83, University of Minnesota. Degree: Master of Science, September '91. Major: Geology. Minor: Related Fields. Thesis: An Irvingtonian Mammalian Fauna from Trout Cave No. 2, Pendleton County, West Virginia. Major Adviser: Robert E. Sloan

Deborah Ann Phillips, River Falls, Wis.

B.S. '85, University of the State of New York. Degree: Master of Science, July '91. Major: Nursing. Minor: Related Fields. Major Adviser: Sara S. Dehart

Eric Neil Phillips

B.S. '85, University of Minnesota. Degree: Master of Science, September '91. Major: Environmental Health. Minor: Related Fields. Major Adviser: William A. Toscano, Jr.

Anne Pilli, Duluth

B.S. '76, University of Wisconsin. Degree: Master of Science, July '91. Major: Environmental Health. Minor: Public Affairs. Major Adviser: Deborah L. Swackhamer

Diane Elizabeth Quackenbush, Rochester

B.S.N. '75, University of Minnesota. Degree: Master of Science, September '91. Major: Nursing. Minor: Related Fields. Major Adviser: Sandra R. Edwardson

Jane Ellen Quandt

B.S. '82, North Dakota State University. Degree: Master of Science, August '91. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Related Fields. Major Adviser: Marc R. Raffé

Beverly Ann Radermacher, Woodbury

B.S. '60, College of St. Catherine. Degree: Master of Science, July '91. Major: Nursing. Minor: Related Fields. Major Adviser: Sandra R. Edwardson

Sunil Rao, Ottawa, Ontario, Canada

B.S. '89, University of Ottawa. Degree: Master of Science, June '91. Major: Biostatistics. Minor: Related Fields. Major Adviser: James R. Boen

Syed Babar Raza, Karachi, Pakistan

B.Eng. '86, N.E.D. University of Engineering and Technology; M.S. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Keshab K. Parhi

Kevin Ian Reid, Lexington, Ky.

B.A. '83, Transylvania University. Degree: Master of Science, August '91. Major: Dentistry. Minor: Related Fields. Thesis: The Effect of Diurnal Behavior Modification on Nocturnal Masticatory Muscle Activity Associated with Tooth Contact. Major Adviser: John K. Schulte

Laura Nodzak Rice, Erlanger, Ky.

B.S.N. cum laude '79, Spalding College. Degree: Master of Science, June '91. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

Richard J. Roberts, McCook, Neb.

B.S. '88, University of Nebraska. Degree: Master of Science in Agricultural Engineering, April '91. Major: Agricultural Engineering. Minor: Civil Engineering. Thesis: Surface Sealing of Soil Due to the Combined Effect of Rainfall Impact and Livestock Waste Application. Major Adviser: Charles J. Clanton

Burke Paul Robinson, Phoenix, Ariz.

B.S. with distinction '81, M.D. '85, University of Arizona. Degree: Master of Science in Otolaryngology, August '91. Major: Otolaryngology. Minor: Related Fields. Thesis: Microscopic Pore Size of a PLA Implant as a Determinant of New Bone Growth. Major Adviser: Edward H. Szachowicz II

Jody Louise Rooney, Hugo

B.A. '72, University of Minnesota. Degree: Master of Science, September '91. Major: Agricultural and Applied Economics. Minor: Statistics. Major Adviser: Steven J. Taff

Charles Eugene Rossmann, St. Paul

B.A. cum laude '86, Macalester College. Degree: Master of Science, August '91. Major: Agricultural and Applied Economics. Minor: Statistics. Thesis: A Household Model for Technical Change in Agricultural Development. Major Adviser: Vernon W. Ruttan

Alan Gilbert Roth, Alberta, Canada

B.S. '77, D.D.S. '79, University of Alberta. Degree: Master of Science, August '91. Major: Dentistry. Minor: Related Fields. Thesis: A Retrospective Evaluation of Preventive Resin Restorations. Major Adviser: Robert J. Feigal

Robert Gerard Roy, Hudson, N.H.

B.S. cum laude '80, University of New Hampshire; D.V.M. with high honor '87, Auburn University. Degree: Master of Science, June '91. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Related Fields. Major Adviser: Alan Lipowitz

Claudia Lynne Rudolph, Apple Valley

B.S. magna cum laude '81, University of South Dakota. Degree: Master of Science, July '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Daniel L. Boley

Phillip Joseph Ruhoff

B.S. '78, Iowa State University of Science and Technology. Degree: Master of Science, May '91. Major: Chemistry. Minor: Related Fields. Thesis: The Study of Wet Adhesion Using Modified Acrylic Polymers. Major Adviser: Wilmer G. Miller

Donald Joseph Santel, Minneapolis

B.S.E. '82, Purdue University. Degree: Master of Science in Electrical Engineering, June '91. Major: Electrical Engineering. Minor: Physiology. Thesis: Principal Component Analysis of the Canine Right and Left Ventricular Pressure Signal During Normal and Rapid Ventricular Pacing. Major Adviser: James E. Holte

Kevin William Schatz, Cedar Rapids, Iowa

B.A. cum laude '88, Luther College. Degree: Master of Science, June '91. Major: Environmental Health. Minor: Related Fields. Thesis: The Detection of Organophosphorus Pesticides in Groundwater by Solid-phase Extraction and Gas Chromatographic Mass Spectrometry. Major Adviser: Deborah L. Swackhamer

Daniel Joel Scherping, Waubun

B.S. '88, North Dakota State University. Degree: Master of Science, April '91. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Stanley C. Stevens

Robert Gordon Schlafmann

B.E.E. with high distinction '89, University of Minnesota. Degree: Master of Science in Electrical Engineering, April '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Mostafa Kaveh

William Robert Schnabel, Crookston

B.A. '89, Grinnell College. Degree: Master of Science in Industrial Engineering, May '91. Major: Industrial Engineering. Minor: Business Administration. Major Adviser: Kevin J. Dooley

Marvin Kenneth Schulte, Minneapolis

B.S. '82, St. John's University. Degree: Master of Science, July '91. Major: Biochemistry. Minor: Related Fields. Thesis: Characterization of an Alpha-Linked Acidic Dipeptidase from Rat Brain. Major Adviser: James F. Koerner

Joel Andrew Schurke, Minneapolis

B.A. '82, St. Olaf College. Degree: Master of Science, August '91. Major: Environmental Health. Minor: Related Fields. Major Adviser: Rexford D. Singer

Sylvia Esther Schwarz, St. Paul

B.M. '77, University of Wisconsin; B.Ch.E. '84, University of Minnesota. Degree: Master of Science in Civil Engineering, May '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Operational Aspects of Membrane Air Stripping. Major Adviser: Michael J. Semmens

Jin Keun Seo, Korea

B.S. '85, Yonsei University. Degree: Master of Science, June '91. Major: Mathematics. Minor: Related Fields. Major Adviser: Eugene B. Fabes

Michael John Shea, Rochester

B.S.E.E. with distinction and high honors '84, University of Wisconsin. Degree: Master of Science in Electrical Engineering, July '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: K. S. P. Kumar

Charles Martin Sheaffer, Minneapolis

B.A. '83, Metropolitan State University. Degree: Master of Science, September '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Maria Gini

William Gregory Sherman, Rochester

B.S. with honor '84, University of Wyoming. Degree: Master of Science, July '91. Major: Computer and Information Sciences. Minor: Business Administration. Major Adviser: Jaideep Srivastava

Steven Maurice Shroyer, Muncie, Ind.

B.S. summa cum laude '88, Ball State University. Degree: Master of Science, June '91. Major: Fisheries. Minor: Related Fields. Thesis: Growth of Red Lakes Walleye from the 1940s to the 1980s. Major Adviser: George R. Spangler

Todd David Sjodin, Duluth

B.A. '87, University of Minnesota. Degree: Master of Science, April '91. Major: Pharmacology. Minor: Related Fields. Thesis: Influences of Thromboxane A2 Receptor Activation on Systemic Arterial Blood Pressure and Sympathetic Nerve Activity. Major Adviser: George J. Trachte

Caroline Ann Skokun

B.S.N. '70, University of North Dakota. Degree: Master of Science, September '91. Major: Nursing. Minor: Related Fields. Thesis: Development of a Sensation Information Audiotape for Cardiac Catheterization. Major Adviser: Jean Kintgen-Andrews

Mark P. Smith, White Bear Lake

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Science in Mechanical Engineering, June '91. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Darrell A. Frohrib

Thomas Kevin Sontag, Marshall

B.A.E.M. with distinction '82, University of Minnesota. Degree: Master of Science in Civil Engineering, September '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Gas Phase Adsorption and Photooxidation of Volatile Organic Compounds Over Titanium Dioxide. Major Adviser: Michael J. Semmens

Steve Edward Spear

B.S. with high honors '88, University of Northern Iowa. Degree: Master of Science, September '91. Major: Physics. Minor: Related Fields. Major Adviser: Earl A. Peterson

Brian Duane Speldrich, St. Paul

B.M.E. '86, University of Minnesota. Degree: Master of Science in Mechanical Engineering. July '91. Major: Mechanical Engineering. Minor: Mechanics. Major Adviser: Kim A. Stelson

Jeffrey Jonathan Spurgat, St. Anthony

B.S.E.E. '87, University of Wisconsin. Degree: Master of Science in Electrical Engineering. June '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: K. S. P. Kumar

H R Srinivas, Bangalore, Karnataka, India

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B.S. summa cum laude '87, University of Missouri. Degree: Master of Science in Electrical Engineering. July '91. Major: Electrical Engineering. Minor: Industrial Engineering. Major Adviser: K. S. P. Kumar

Eric Christian Stender, New Hope

B.M.E. '86, University of Minnesota. Degree: Master of Science in Mechanical Engineering. August '91. Major: Mechanical Engineering. Minor: Industrial Engineering. Thesis: A Model for Predicting and Controlling Initial Tension Wound into a Helical Extension Spring. Major Adviser: Kim A. Stelson

Janell Marie Stevens-Johnk

B.A. '85, Hamline University. Degree: Master of Science, September '91. Major: Plant Pathology. Minor: Biochemistry. Thesis: Fatty Acid Analysis of Isolates of *Rhizoctonia Solani*. Major Adviser: Roger K. Jones

David Ray Steward, Bloomington

B.C.E. '83, University of Minnesota. Degree: Master of Science in Civil Engineering. July '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Analytic Boundary Integral Equation Method for Steady-State and Transient Potential Flows. Major Adviser: Otto D. L. Strack

David Ray Steward, Bloomington

B.C.E. '83, University of Minnesota. Degree: Master of Science, May '91. Major: Mathematics. Minor: Related Fields. Major Adviser: Paul B. Garrett

Barbara Jo Stiller, Plymouth

B.A. '88, College of St. Benedict. Degree: Master of Science, April '91. Major: Entomology. Minor: Related Fields. Thesis: *Vairimorpha necatrix* in *Heliothis zea* Cell Cultures. Major Adviser: Timothy J. Kurti

Mark Allan Strand

B.A. '85, Luther College. Degree: Master of Science, July '91. Major: Cell and Developmental Biology. Minor: Related Fields. Thesis: Characterization of the Porcine Cardiac Muscle Sarcoplasmic Ryanodine Receptor. Major Adviser: Charles F. Louis

Carrie I. Sturdy, Vadnais Heights

B.S. '88, University of Kansas. Degree: Master of Science, April '91. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Paul W. Abramowitz

Daniel Thomas Sullivan, St. Paul

B.E.E. with high distinction '87, University of Minnesota. Degree: Master of Science in Electrical Engineering. July '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: William A. Plice

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B.Eng. '88, Indian Institute of Science, Bangalore. Degree: Master of Science in Mineral Engineering, July '91. Major: Mineral Engineering. Minor: Related Fields. Major Adviser: Kenneth J. Reid

Charles Douglas Swanson, Apple Valley

B.Phys. '65, University of Minnesota; M.A. '68, University of Wisconsin. Degree: Master of Science, September '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Anthony T. Chronopoulos

Gregory Donald Swanson

B.E.E. '89, University of Minnesota. Degree: Master of Science in Electrical Engineering, April '91. Major: Electrical Engineering. Minor: Related Fields. Thesis: Plasma Etching of Zinc Oxide Thin Films. Major Adviser: Dennis L. Polla

Michael John Swanson, Edina

B.A. cum laude '86, College of St. Thomas. Degree: Master of Science, September '91. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Wilbur R. Maki

Brett Michael Swenson, Madison

B.A. summa cum laude '89, Concordia College. Degree: Master of Science in Industrial Engineering, July '91. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Kevin J. Dooley

Wen-Na Elsa Tan, Tainan, Taiwan

B.S. '85, National Taiwan University. Degree: Master of Science, April '91. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen Sodergren

Feng Tao, People's Republic of China

B.Sc. '87, Beijing Medical University. Degree: Master of Science, July '91. Major: Biochemistry. Minor: Related Fields. Thesis: The Structure, Stability, and Dynamics of Y23A Bovine Pancreatic Trypsin Inhibitor. Major Adviser: Clare K. Woodward

Naomi S. Taus, Bemidji

B.S. summa cum laude '86, University of Minnesota. Degree: Master of Science, July '91. Major: Veterinary Biology. Minor: Related Fields. Thesis: Effect of Perchlorate on Mammalian Skeletal Muscle. Major Adviser: Esther M. Gallant

Kathryn Jilka Tempas, Salina, Kan.

B.S. cum laude '86, Kansas State University. Degree: Master of Science, July '91. Major: Food Science. Minor: Related Fields. Thesis: The Effect of Adjunct Lactic Acid Bacteria on the Flavor of Low Fat Cheddar Cheese. Major Adviser: Howard A. Morris

Daniel Jay Thomsen, Minneapolis

B.A. '87, University of Minnesota. Degree: Master of Science, May '91. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Integrity Issues in Secure Systems. Major Adviser: Wei-Tek Tsai

Michael Scott Thorud, Bloomington

B.Mech.E. with high distinction '83, B.S. '87, University of Minnesota. Degree: Master of Science in Mechanical Engineering, May '91. Major: Mechanical Engineering. Minor: Physics. Major Adviser: Darrell A. Frohrib

Wika Tjhen, Cirebon, Indonesia

B.E.E. with distinction '89, University of Minnesota. Degree: Master of Science in Electrical Engineering, June '91. Major: Electrical Engineering. Minor: Related Fields. Thesis: Mechanical Properties of Piezoelectric Thin Films. Major Adviser: Dennis L. Polla

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B.S. '87, University of Delaware. Degree: Master of Science, July '91. Major: Mathematics. Minor: Related Fields. Major Adviser: John A. Eagon

John Mark Van Drisse, Maple Grove

B.S. with highest distinction '86, University of Wisconsin. Degree: Master of Science in Electrical Engineering, April '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Richard Y. Kain

Eric Earl Volkmann, Fennimore, Wis.

B.A.E.M. with distinction '89, University of Minnesota. Degree: Master of Science, June '91. Major: Mechanics. Minor: Mathematics. Major Adviser: Roger Fosdick

Stephen Anthony Vrchota, Richfield

B.M.E. with distinction '89, University of Minnesota. Degree: Master of Science in Mineral Engineering, April '91. Major: Mineral Engineering. Minor: Related Fields. Thesis: Use of the Sustained Shockwave Plasma Reactor for the Recovery of Metals from Electric Arc Furnace Dust. Major Adviser: Malcolm T. Hepworth

Thomas Milton Walker, Rochester

B.S.E.E. '81, University of Washington. Degree: Master of Science in Electrical Engineering, June '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: William A. Plice

Tzyyjiuan Wang

B.Sc. '86, National Taiwan University. Degree: Master of Science, July '91. Major: Physical Therapy. Minor: Related Fields. Major Adviser: Louis R. Amundsen

Rodney James Weber, Petersburg, Ontario, Canada

B.A.Sc. '87, University of Waterloo. Degree: Master of Science in Mechanical Engineering, July '91. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Virgil A. Marple

Shipei Weng, Shanghai, People's Republic of China

M.Sc. '82, East China Normal University; M.S. '91, University of Minnesota. Degree: Master of Science, July '91. Major: Statistics. Minor: Related Fields. Major Adviser: Seymour Geisser

Jann Elizabeth Wesley, Minneapolis

B.A. '84, B.S.N. with distinction '84, University of Minnesota. Degree: Master of Science, July '91. Major: Nursing. Minor: Related Fields. Major Adviser: Diane K. Kjervik

Weldon Lavon Whipple, Rochester

B.A. magna cum laude '73, M.A. '76, Brigham Young University; M.S. '77, University of Illinois; B.S. with distinction '83, University of Nebraska. Degree: Master of Science, July '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: James R. Slagle

Jacquelyn Ann White, North Mankato

B.S. '76, Mankato State University. Degree: Master of Science, June '91. Major: Nursing. Minor: Related Fields. Major Adviser: Laura J. Duckett

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B.S. '77, Viterbo College. Degree: Master of Science, May '91. Major: Nursing. Minor: Related Fields. Major Adviser: Sandra R. Edwardson

Kay Jolene Williams, Watertown, S.D.

B.S. '85, St. Cloud State University. Degree: Master of Science, July '91. Major: Environmental Health. Minor: Related Fields. Major Adviser: Donald Vesley

Peter Cecelia Wouters, Mol, Belgium

Degree: Master of Science, August '91. Major: Mechanics. Minor: Related Fields. Major Adviser: Tayfun E. Tezduyar

Jinhua Yan

B.S. '89, Peking University. Degree: Master of Science, September '91. Major: Physics. Minor: Related Fields. Major Adviser: E. Dan Dahlberg

Wei Yang, People's Republic of China

Degree: Master of Science in Electrical Engineering, August '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Anand Gopinath

Tse-An Yeh

B.S. '86, Tamkang University. Degree: Master of Science, August '91. Major: Physics. Minor: Related Fields. Major Adviser: William Zimmermann, Jr.

Zhengtian Yu, People's Republic of China

B.S. '83, Shanghai Teachers' College. Degree: Master of Science, August '91. Major: Chemistry. Minor: Related Fields. Thesis: Jahn-Teller Effect of Ni6. Major Adviser: Jan Almlöf

Xiuxian Zhu, People's Republic of China

B.Sc. '82, M.Sc. '85, Tongji Medical University. Degree: Master of Science, July '91. Major: Biostatistics. Minor: Related Fields. Major Adviser: Daniel Zelterman

Witold Zielinski, Warsaw, Poland

Diploma '74, Technical University of Warsaw. Degree: Master of Science, April '91. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Dislocation Origins and Arrangements Near Crack Tips in Iron-Silicon Single and Polycrystals. Major Adviser: William W. Gerberich

Michael Mark Zubkoff, Morton Grove, Ill.

B.S. '89, Boston University. Degree: Master of Science, August '91. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Stanley M. Finkelstein

*Master of Science***University of Minnesota, Duluth****Sarah Baxter Buffington, Colorado Springs, Colo.**

B.S. '75, University of Denver. Degree: Master of Science, June '91. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Steven A. Trogdon

David Jerry Conner, Moline, Ill.

B.A. '83, Augustana College. Degree: Master of Science, May '91. Major: Biology. Minor: Related Fields. Thesis: Food of Salmonine Predators in Western Lake Superior, 1984-1986. Major Adviser: Hollie L. Collins

Richard Harold Crum, Duluth

B.S. '87, University of Minnesota. Degree: Master of Science, August '91. Major: Chemistry. Minor: Related Fields. Thesis: Reactions of N-Aryldiazadicobaltatetrahydrofuranes. Major Adviser: Deborah E. Samkoff

Kayo Lyle Dokken

B.S. '84, Portland State University. Degree: Master of Science, August '91. Major: Geology. Minor: Related Fields. Thesis: Ichnofossils of the Carbonate Platteville Formation (Middle Ordovician) in Southeastern Minnesota. Major Adviser: David G. Darby

Jack W. Erickson, Walnut Creek, Calif.

B.A. with distinction '83, University of Minnesota. Degree: Master of Science, May '91. Major: Biology. Minor: Related Fields. Thesis: Marking the Bait Leech (*Nepheleopsis obscura*) for Mark-Recapture Analysis. Major Adviser: Hollie L. Collins

Tracey Jan Felger, Manheim, Pa.

B.S. cum laude '88, Northern Illinois University. Degree: Master of Science, April '91. Major: Geology. Minor: Related Fields. Thesis: The Geology of the Skinner Peaks Quadrangle, Juab and Sanpete Counties, Central Utah. Major Adviser: Timothy B. Holst

James Leslie Fenno, Shoreview

B.S. '89, University of Minnesota. Degree: Master of Science, June '91. Major: Computer Science. Minor: Related Fields. Major Adviser: Timothy R. Colburn

Ivy Foo, Malaysia

B.A. '86, College of St. Catherine. Degree: Master of Science, September '91. Major: Biology. Minor: Chemistry. Thesis: Isolation, Identification and Amplification of DNA from Naturally Mummified Remains. Major Adviser: Wilmar L. Salo

Dali Gao, Hefei, Anhui, People's Republic of China

B.S. '86, Beijing University. Degree: Master of Science, June '91. Major: Chemistry. Minor: Related Fields. Thesis: Synthesis and Biochemical Activities of Bisphosphonates. Major Advisers: Thomas E. Huntley and Ronald Caple

Leeka Zakaria Gwanganalie, Juba, Eastern Equatoria, Sudan

B.S. '85, Lewis and Clark College. Degree: Master of Science, July '91. Major: Physics. Minor: Applied and Computational Mathematics. Thesis: Epitaxial Growth of Semiconductor Thin Films Using Hot Wall Epitaxy (HWE): PbTe-SnTe and Pb-Ge Superlattices. Major Adviser: Michael Sydor

Bonnie Ann Hatten, Duluth

B.A. magna cum laude '86, University of Minnesota. Degree: Master of Science, April '91. Major: Biology. Minor: Related Fields. Thesis: Cytogenetic Studies on the White Sucker (*Catostomus commersoni*). Major Adviser: Stephen C. Hedman

Sao-Kun Connie Lam, Macau

B.S. summa cum laude '89, Bemidji State University. Degree: Master of Science, September '91. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Kang Ling James

Carmen Marie Latterell, Cloquet

B.A. summa cum laude '88, College of St. Scholastica.
Degree: Master of Science, June '91. Major: Applied and
Computational Mathematics. Minor: Related Fields.
Major Adviser: Barry R. James

Eric Ramon Levy, Madison, Wis.

B.S. '87, University of Wisconsin. Degree: Master of
Science, April '91. Major: Geology. Minor: Related
Fields. Thesis: The Geology and Sedimentology of the
Archean Metasedimentary Rocks of the Virginia Horn
Area, Northeastern, Minnesota. Major Adviser: Richard
W. Ojakangas

Eric Kendall Linscheid

B.S. '80, University of Wisconsin. Degree: Master of
Science, April '91. Major: Geology. Minor: Related
Fields. Thesis: The Petrography of the Longnose
Peridotite and Its Relationship to the Duluth Complex.
Major Adviser: Penelope C. Morton

**Yanzhang Lu, Guangzhou, Guangdong, People's
Republic of China**

B.S. '89, San Francisco State University. Degree: Master
of Science, September '91. Major: Computer Science.
Minor: Related Fields. Thesis: Solving Combinatorial
Optimization Problems by Simulated Annealing, Genetic
Algorithms, and Neural Networks. Major Adviser: Clark
D. Thomborson

Richard G. Marsh, Sargeant

B.S. Geop. '88, University of Minnesota. Degree: Master
of Science, August '91. Major: Physics. Minor: Geology.
Major Adviser: Jonathan Maps

Renato Milanesi

Laurea '87, Politecnico di Milano. Degree: Master of
Science, July '91. Major: Computer Science. Minor:
Related Fields. Thesis: Optimal Look Ahead Adders.
Major Adviser: Clark D. Thomborson

Nancy Sue Nelson

B.S. summa cum laude '86, Northern Illinois University.
Degree: Master of Science, May '91. Major: Geology.
Minor: Related Fields. Thesis: A Petrologic and
Geochemical Study of Granophytic Granite in the Roof of
the Keweenawan Duluth Complex, Eagle Mountain, Cook
County, Minnesota. Major Adviser: John C. Green

Sree Rama Murty Peyyety

Degree: Master of Science, August '91. Major: Computer
Science. Minor: Applied and Computational Mathematics.
Major Adviser: Clark D. Thomborson

Michael Z. Sakowski, Stevens Point, Wis.

B.S. '82, University of Wisconsin. Degree: Master of
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Mathematics. Minor: Related Fields. Major Adviser:
Joseph A. Gallian

Thomas John Suszek, Duluth

B.S. '86, University of Wisconsin. Degree: Master of
Science, August '91. Major: Geology. Minor: Related
Fields. Thesis: Petrography and Sedimentation of the
Middle Proterozoic (Keweenawan) Nonesuch Formation
Western Lake Superior Region Midcontinent Rift Zone.
Major Adviser: Richard W. Ojakangas

Terrance Paul VanBuren, Rice Lake, Wis.

B.S. '89, University of Wisconsin. Degree: Master of
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Casserberg

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Dunham

**Xiangsheng Xia, Beijing, People's Republic of
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M.S. '83, Peking University. Degree: Master of Science,
May '91. Major: Applied and Computational
Mathematics. Minor: Related Fields. Thesis: The
Analysis of a Nonstandard Method for Calculating
Determinants. Major Adviser: John R. Greene

Bokyung Yang, Korea

B.A. '83, Jeonbug National University. Degree: Master of
Science, September '91. Major: Computer Science.
Minor: Applied and Computational Mathematics. Thesis:
Automatic Query Extension in Information Retrieval.
Major Adviser: Donald B. Crouch

*Master of Arts***Theodore Todd Aarrestad**

B.S. '80, University of Minnesota. Degree: Master of
Arts, July '91. Major: Music Education. Minor: Related
Fields. Major Adviser: Stephen Schultz

Elizabeth Jean Abel, Ballston Spa, N.Y.

B.A. with high distinction '85, University of Arizona.
Degree: Master of Arts, June '91. Major: Anthropology.
Minor: Related Fields. Thesis: Emergence of the Flat
Inhumation Burial Rite in the Early La Tene of West-
Central Europe. Major Adviser: Peter S. Wells

Steven Kurt Abrahamson, Brooklyn Park

B.A. '84, Bethel College. Degree: Master of Arts. May '91. Major: Elementary Education. Minor: Related Fields. Major Adviser: John J. Cogan

John Jeffery Allen, Sun Prairie, Wis.

B.S. with distinction '86, University of Wisconsin. Degree: Master of Arts. June '91. Major: Psychology. Minor: Related Fields. Major Adviser: William G. Iacono

Becky Rae Anderson, Hopkins

B.S. '82, University of Minnesota. Degree: Master of Arts. June '91. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Eugene D. Larkin

Masaharu Ano, Yamaguchi Ken, Japan

B.A. '62, Doshisha University; M.A. '70, Pacific Lutheran University. Degree: Master of Arts. April '91. Major: History. Minor: English as a Second Language. Thesis: The Formative Years of Yosuke Matsuoka. Major Adviser: Rudolph J. Vecoli

Caroline Jeanne Antic, Canne, France

Maitrise '89, Université de Droit, d'Economie et des Sciences d'Aix/Marseille III. Degree: Master of Arts. June '91. Major: Political Science. Minor: Related Fields. Major Adviser: James Farr

Ruth Gross M. Armstrong

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Denis Gordon Arnold

B.S. '88, Lewis and Clark College. Degree: Master of Arts. July '91. Major: Philosophy. Minor: Related Fields. Major Adviser: Norman E. Bowie

Sigrid Ann Arnott, St. Paul

B.A. cum laude '83, Macalester College. Degree: Master of Arts. June '91. Major: Ancient Studies. Thesis: Medieval Fasting Women: Dynamics of Gender and Power. Major Adviser: Christine A. Hastorf

James W. Asplund

B.A. '88, Grinnell College. Degree: Master of Arts. June '91. Major: Public Affairs. Major Adviser: Donald P. Geesaman

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B.A. '77, Wheaton College. Degree: Master of Arts. August '91. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

Donna Elaine Barber, New Brighton

B.A. cum laude '80, Butler University. Degree: Master of Arts. May '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Susan C. Hupp

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B.A. '82, University of Minnesota. Degree: Master of Arts. June '91. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Richard D. Arvey

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Degree: Master of Arts. August '91. Major: Mass Communication. Minor: Related Fields. Thesis: Letting the Big One Get Away: The Press and Chippewa Spearfishing, 1989. A Case Study of News Coverage of Conflict. Major Adviser: Robert L. Craig

Carol J. Becker, Williston, N.D.

B.A. summa cum laude '86, University of Minnesota. Degree: Master of Arts. August '91. Major: Public Affairs. Major Adviser: James E. Jernberg

Lisa Carol Beckstrom, Crystal

B.S. summa cum laude '89, University of Minnesota. Degree: Master of Arts. September '91. Major: Communication Disorders. Minor: Related Fields. Thesis: Consonant Development in Infants with Repaired Palatal Clefts. Major Adviser: Gerald M. Siegel

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B.A. '87, University of London. Degree: Master of Arts. June '91. Major: Philosophy. Minor: Related Fields. Major Adviser: Jasper S. Hopkins

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B.A. '83, University of Minnesota. Degree: Master of Arts. June '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Charles M. Nolte

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B.A. cum laude '85, St. Olaf College. Degree: Master of Arts. June '91. Major: English. Minor: Related Fields. Major Adviser: Calvin B. Kendall

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B.A. magna cum laude '85, St. Norbert College. Degree: Master of Arts. May '91. Major: Educational Psychology. Minor: Related Fields. Major Advisers: Susan Rose and Bruce E. Balow

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B.S. '78, Bemidji State University. Degree: Master of Arts, August '91. Major: American Studies. Major Adviser: Gayle Graham Yates

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B.A. '67, University of Minnesota. Degree: Master of Arts, June '91. Major: Education. Minor: Related Fields. Major Adviser: Rosemarie J. Park

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B.A. '89, University of Minnesota. Degree: Master of Arts, September '91. Major: History. Minor: Related Fields. Thesis: The Huberti of Campania, Lords of Durtal: A Magnate Family in the "West" of France, Circa 980 to Circa 1190. Major Adviser: Bernard S. Bachrach

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Bachiller '71, Prof. de Educ. '72, Bachiller '73, Universidad Nacional Mayor de San Marcos. Degree: Master of Arts, April '91. Major: Hispanic Linguistics. Minor: Related Fields. Major Adviser: Carol A. Klee

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B.A. '81, University of Minnesota. Degree: Master of Arts, June '91. Major: Anthropology. Minor: Related Fields. Major Adviser: Christine A. Hastorf

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B.A. magna cum laude '84, St. Olaf College. Degree: Master of Arts, August '91. Major: History. Minor: Law. Thesis: The History of American Family Law and Criminal Procedure from 1880 to 1920: Impact on the Origins and Early Years of American Juvenile Courts. Major Adviser: Paul L. Murphy

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B.A. with distinction '79, University of Iowa. Degree: Master of Arts, June '91. Major: Mass Communication. Minor: History. Thesis: Taboo Topics and Media Coverage: Three Case Studies. Major Adviser: Hazel Dicken-Garcia

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Robert E. Hassett, Buffalo, N.Y.

B.A. magna cum laude '89, Canisius College. Degree: Master of Arts, August '91. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

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B.A. '89, University of California. Degree: Master of Arts, September '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Robert S. Schlauch

Johnny Lee Hedgepeth, Brooklyn, N.Y.

B.A. '87, North Carolina Agricultural and Technical State University. Degree: Master of Arts, April '91. Major: Public Affairs. Major Adviser: Morris M. Kleiner

Jane Elizabeth Hegland, Appleton

B.A. '85, St. Olaf College. Degree: Master of Arts, August '91. Major: Design, Housing, and Apparel. Minor: Related Fields. Thesis: Drag Queens, Transvestites, Transsexuals: A Visual Typology and Analysis of Male-to Female Cross-Dressing. Major Adviser: Joanne B. Eicher

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B.A. '87, University of Denver. Degree: Master of Arts, June '91. Major: Geography. Minor: Related Fields. Major Adviser: Eric S. Sheppard

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B.A. '88, University of Nebraska. Degree: Master of Arts, August '91. Major: Kinesiology. Minor: Related Fields. Thesis: Optimal Resistance for Arm Power Output in Swimmers. Major Adviser: Robert C. Serfass

Paul Thomas Hietter, Cary, Ill.

B.S./Jour. '89, Northwestern University. Degree: Master of Arts, June '91. Major: History. Minor: Related Fields. Thesis: The Last Ride of the Youngers Brothers; or, Missouri Outlawry and Minnesota, and How Their Histories Influenced the Outcome of the Great Northfield Raid. Major Adviser: Joel B. Samaha

Jonathan Henry Hinck, West Salem, Wis.

B.A. cum laude '89, University of Wisconsin. Degree: Master of Arts, June '91. Major: History. Minor: Related Fields. Major Adviser: Kinley J. Brauer

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Kathleen Marie Hokemeir, Minneapolis

B.A. cum laude '87, St. Olaf College. Degree: Master of Arts. July '91. Major: Industrial Relations. Minor: Related Fields. Thesis: The Contribution of Formal Training Courses and the Resulting Knowledge, Skills, and Abilities to Managerial Effectiveness. Major Adviser: Richard D. Arvey

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B.A. '84, Hiram College; M.A. '89, Ohio State University. Degree: Master of Arts, July '91. Major: Comparative Studies in Discourse and Society. Minor: Related Fields. Major Adviser: John W. Mowitt

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B.A. magna cum laude '87, University of Southern California. Degree: Master of Arts, September '91. Major: English. Minor: Related Fields. Major Adviser: Patricia M. Hampl

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B.A. '80, University of Minnesota. Degree: Master of Arts. August '91. Major: English. Minor: Related Fields. Major Adviser: Archibald I. Leyasmeyer

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B.A. magna cum laude '87, Luther College. Degree: Master of Arts. May '91. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Avner Ben-Ner

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B.A. '86, Gustavus Adolphus College. Degree: Master of Arts. June '91. Major: History. Minor: Related Fields. Major Adviser: Steven Ruggles

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Degree: Master of Arts, August '91. Major: Economics. Minor: Related Fields. Major Adviser: Edward C. Prescott

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B.A. '85, Macalester College. Degree: Master of Arts. June '91. Major: Mass Communication. Minor: Related Fields. Thesis: "Why Won't You Just Read It?": Comic Books and Community in the 1950s. Major Adviser: Hazel Dicken-Garcia

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B.A. '86, University of Minnesota. Degree: Master of Arts. September '91. Major: Russian Area Studies. Major Adviser: Gary R. Jahn

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Diplome d'ingenieur des Sciences Appliquees '80, Institut Polytechnique Rural de Katibougou. Degree: Master of Arts. August '91. Major: Agricultural Education. Minor: Related Fields. Major Adviser: Curtis D. Norenberg

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M.Int.Mgmt. '82, American Graduate School of
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Geography. Minor: Related Fields. Thesis: A Geography
of State-Owned Mineral Rights in Minnesota. Major
Adviser: Roderick H. Squires

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B.A. with distinction '87, University of Minnesota.
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Housing, and Apparel. Minor: Educational Psychology.
Thesis: Teaching Assistants Development Program in
Design, Housing, and Apparel: An Overview of a
Process. Major Advisers: Bonnie M. Morrison and
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Communication Disorders. Minor: Related Fields. Thesis:
Talker Generalization in the Learning of Speech Envelope
Cues. Major Adviser: Dianne J. Vantasell

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Literature. Minor: Related Fields. Thesis: Mujeres Poetas
De Los Siglos De Oro En Espana: Hipolita De Narvaez.
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B.L.S. '88, Iowa State University of Science and Technology. Degree: Master of Arts, May '91. Major: Speech-Communication. Minor: Related Fields. Thesis: The Symbolic and Metacommunicative Process of Consciousness Sustaining: A Fantasy Theme Analysis of Group Interaction in a Feminist Witches' Coven. Major Adviser: Ernest G. Bormann

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B.A. '89, University of Minnesota. Degree: Master of Arts, June '91. Major: English. Minor: Related Fields. Major Adviser: Klaus P. Jankofsky

Sandra Kay Morgan, Duluth

B.A. cum laude '89, University of Minnesota. Degree: Master of Arts, May '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Eugene Grossman

Catharine Lynn Niemi

B.A. '71, Stephens College. Degree: Master of Arts, June '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Moy F. Gum

Gretchen Ames Paulson, Duluth

B.S. magna cum laude '84, University of Wisconsin. Degree: Master of Arts, June '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Moy F. Gum

Yan Qian, Beijing, People's Republic of China

Degree: Master of Arts, June '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Kristelle E. Miller

Kay Marie Richardson, Inver Grove Heights

B.A.S. '89, University of Minnesota. Degree: Master of Arts, June '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Ash M. Hawk

Todd Andrew Richter, Rochester

B.A. '88, University of Minnesota. Degree: Master of Arts, June '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra J. Woolum

Lynn Marie Rymanowski, Crystal

B.A.S. '89, University of Minnesota. Degree: Master of Arts, June '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Cindy S. Spillers

Lori Anne Spicer, Thunder Bay, Ontario, Canada

B.A. '88, Simon Fraser University. Degree: Master of Arts, June '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Cindy S. Spillers

Maria Jeanne Subra, Duluth

B.A.S. cum laude '89, University of Minnesota. Degree: Master of Arts, June '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Faith C. Loven

John Bernard Tyllia, Duluth

B.A. '83, University of Minnesota. Degree: Master of Arts, June '91. Major: English. Minor: Linguistics. Major Adviser: Eleanor M. Hoffman

James Frederick Vos

B.A. '88, University of Minnesota. Degree: Master of Arts, June '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra J. Woolum

Janine Louise Whitman, Winnipeg, Manitoba, Canada

B.A. '87, University of North Dakota. Degree: Master of Arts, June '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Mark I. Mizuko

Mary E. Woodward, Minneapolis

B.A. '85, University of Minnesota. Degree: Master of Arts, June '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Helen Doane

Guangzhen Zhou, Shanghai, People's Republic of China

Degree: Master of Arts, May '91. Major: Art. Minor: Related Fields. Major Adviser: James Klueg

Specialist Certificate in Education

Gretchen Louise Durkot, St. Paul

B.S. '73, Mankato State College. Degree: Certificate of Specialist in Education, August '91. Major: Educational Administration. Field: General Educational Administration. Major Adviser: Gary F. Alkire

Mary Jo Franklin

B.S. magna cum laude '79, Moorhead State University; M.A. '83, College of St. Thomas. Degree: Certificate of Specialist in Education, July '91. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Sandra L. Christenson

Margaret Jean S. Gothro, Eden Prairie

B.S. with distinction '74, M.Ed. '85, University of Minnesota. Degree: Certificate of Specialist in Education, August '91. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Sandra L. Christenson

Susan Dianne Johnson, Minneapolis

B.A. magna cum laude '85, Gustavus Adolphus College. Degree: Certificate of Specialist in Education, May '91. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Robert H. Bruininks

Laura Ann Lent

B.A. '87, Columbia University. Degree: Certificate of Specialist in Education, June '91. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Sandra L. Christenson

Thomas Andre Nelson, Austin

B.S. '68, Mankato State College; M.A. '90, University of Minnesota. Degree: Certificate of Specialist in Education, July '91. Major: Educational Administration. Field: Secondary School Administration. Major Adviser: Van Dyck Mueller

Charles Henry Richter, Eden Prairie

B.S. with distinction '77, University of Minnesota. Degree: Certificate of Specialist in Education, May '91. Major: Educational Administration. Field: Elementary School Administration. Major Adviser: Gary F. Alkire

Lee-Ann Sanborn, St. Louis Park

B.A. magna cum laude '78, Boston College. Degree: Certificate of Specialist in Education, May '91. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: V. Lois Erickson

Richard Joseph Spicuzza, Barrington, Ill.

B.A. '85, Creighton University. Degree: Certificate of Specialist in Education, July '91. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Scott R. McConnell

Betty Jo Wendorff, St. Paul

B.A. '76, Southwest Minnesota State College. Degree: Certificate of Specialist in Education, June '91. Major: Mathematics Education. Field: Mathematics Education. Major Adviser: Robert L. Jackson

Doctor of Education

Douglas Dalen Derr, St. Paul

B.E.D. '74, B.Arch. '76, M.Arch. '85, University of Minnesota. Degree: Doctor of Education, June '91. Major: Industrial Education. Minor: Supporting Program. Project: Strategies for Overcoming Barriers to the Use of Contemporary Instructional Technologies in the Minnesota Technical College System. Major Adviser: Richard A. Swanson

Jerome E. Johnson Jr., Elk Mound, Wis.

B.S. '81, M.S. '84, University of Wisconsin. Degree: Doctor of Education, July '91. Major: Vocational Education. Minor: Supporting Program. Project: Can Spatial Visualization Skills Be Improved Through Training That Utilizes Computer-Generated Visual Aids?. Major Adviser: David C. Bjorkquist

Margaret Mary O'Shaughnessy, Bloomington

B.A. '62, Edgewood College of the Sacred Heart; M.A. '72, Spec.Ed. '87, University of Minnesota. Degree: Doctor of Education, April '91. Major: Educational Administration. Minor: Supporting Program. Project: A Study of the Effects of Retention on a Group of Low-Achieving Kindergarten Students. Major Adviser: Vernon L. Hendrix

John Gary Vranak, Menomonie, Wis.

B.S. '71, M.S. '72, Stout State University. Degree: Doctor of Education, May '91. Major: Vocational Education. Minor: Supporting Program. Project: Common Elements of Product Development in Manufacturing with Recommendations for Curriculum Development. Major Advisers: David C. Bjorkquist and Stephen J. Miletich

Doctor of Musical Arts

Helen Marie Baumgartner, St. Peter

A.B. magna cum laude '54, Smith College; M.M. '55, Eastman School of Music. Degree: Doctor of Musical Arts, May '91. Major: Music. Minor: Supporting Program. Major Adviser: Paul W. Freed

Noel Jerome Engebretson, Northport, Ala.

B.M. '77, University of Texas at Austin; M.M. '86, University of Minnesota. Degree: Doctor of Musical Arts, September '91. Major: Music. Minor: Supporting Program. Major Adviser: Paul W. Freed

Diana Lee Lucker, Wayzata

B.A. '53, M.F.A. '69, University of Minnesota. Degree: Doctor of Musical Arts, May '91. Major: Music. Minor: Supporting Program. Major Adviser: Dean W. Billmeyer

Ann Louise Brainerd Nadeau

B.M. '56, Oberlin Conservatory of Music; M.M. '59, University of Illinois. Degree: Doctor of Musical Arts, May '91. Major: Music. Minor: Supporting Program. Major Adviser: Paul W. Freed

Doctor of Philosophy

El Hassane Abdennebi, Rabat, Morocco

D.V.M. '82, Institut Agronomique et Veterinaire Hassan II. Degree: Doctor of Philosophy, June '91. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Residue Problems of Chloramphenicol and the Pharmacokinetics, Tissue Residues, and Milk Elimination of Thiamphenicol in Food-Producing Animals. Major Adviser: Clarence M. Stowe

Daniel Abebe

B.A. '74, Hamline University; M.A. '82, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Education. Minor: Supporting Program. Thesis: Adult Learning Through Global Issues: A Case Study of a Development Education Project in an Upper Midwest State. Major Advisers: Rosemarie J. Park and Richard M. Paige

Zine Eddine Abid, Algeria

Diplome '83, Centre Universitaire de Setif; M.S.E.E. '87, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Electrical Engineering. Minor: Physics. Thesis: Effects of Nonuniform Doping in Field Effect Transistors. Major Adviser: Anand Gopinath

Moh'dkhair Abukdais, Irbid, Jordan

B.Sc. '85, University of Mosul; M.M.E. '88, Jordan University of Science and Technology. Degree: Doctor of Philosophy, August '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Time Resolved Exhaust Sampling from An-Indirect Injection Diesel Engine. Major Adviser: David B. Kittelson

Daniel Albert Adson, Grand Rapids, Mich.

B.S. cum laude '82, Northern Michigan University. Degree: Doctor of Philosophy, May '91. Major: Chemistry. Minor: Supporting Program. Thesis: Designing and Synthesizing Organic Crystals with Aminopyrimidine Building Blocks. Major Adviser: Margaret C. Etter

Mercedita Castro Agcaoili, Philippines

B.S. '75, M.A. '80, University of the Philippines. Degree: Doctor of Philosophy, September '91. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: The World Rice Market: A Model of Imperfect Substitutes. Major Adviser: James P. Houck

Tariq Ahmed, Sylhet, Bangladesh

B.Sc.Eng. '83, Bangladesh University of Engineering and Technology, Dacca; M.S.C.E. '87, University of Arkansas. Degree: Doctor of Philosophy, August '91. Major: Civil Engineering. Minor: Supporting Program. Thesis: Gas Transfer Through Membranes. Major Adviser: Michael J. Semmens

Sei chang Ahn, Seoul, Korea

B.S. '83, M.S. '85, Seoul National University. Degree: Doctor of Philosophy, September '91. Major: Chemistry. Minor: Supporting Program. Thesis: Studies Toward the Total Synthesis of the Venturicidin Aglycone. Major Adviser: Thomas R. Hoye

Karen Lue Cowman Alaniz, Minneapolis

B.S. '68, University of Wisconsin; M.S. '77, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Education. Minor: Nursing. Thesis: Self-Management Behaviors of the Preschool Child Diagnosed with Asthma: Curricular Implications. Major Adviser: Richard D. Kimpston

Tanvir Ali, Pakistan

B.Sc.(hons)Ag.Ed. '77, M.Sc.(hons) '80, University of Agriculture, Faisalabad. Degree: Doctor of Philosophy, September '91. Major: Education. Minor: Supporting Program. Thesis: An Identification and Validation of Job Performance Competencies Needed by Agricultural Extension Field Assistants in Faisalabad District, Pakistan. Major Adviser: Roland L. Peterson

Iyad M. Alsamsam, Minneapolis

B.C.E. with distinction '86, M.S.C.E. '88, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Civil Engineering. Minor: Supporting Program. Thesis: Serviceability Criteria for Composite Floor Systems. Major Adviser: Roberto Tomas Leon

Masoud Ameri

B.E.E. with distinction '82, M.S.E.E. '85, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Studies on Identification and Control of an Elastic Robot Arm. Major Adviser: K. S. P. Kumar

Jon Eugene Anderson, Champlin

B.S. '83, M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Biostatistics. Minor: Supporting Program. Thesis: Time Dependent Association Measures for Bivariate Survival Distributions. Major Adviser: Thomas A. Louis

Michael Luther Anderson, Minneapolis

B.A. summa cum laude '74, M.D. '79, University of Indiana. Degree: Doctor of Philosophy, April '91. Major: Physiology. Minor: Supporting Program. Thesis: The Isolated, Arterially Perfused Human Eye Preparation: A Preliminary Assessment by Electroretinography of Its Potential for Use in Neurobiologic Research. Major Adviser: Richard L. Purple

Anita Marie Andrew, Beloit, Wis.

A.B. cum laude '75, Wheaton College; A.M. '78, Indiana University. Degree: Doctor of Philosophy, July '91. Major: History. Minor: Supporting Program. Thesis: Zhu Yuanzhang and the Great Warnings (Yuzhi Da Gao): Autocracy and Rural Reform in the Early Ming. Major Adviser: Edward L. Farmer

Abdul Fazal Muhammad Arif, Karachi, Sind, Pakistan

B.Eng. '85, N.E.D. University of Engineering and Technology; M.S.M.E. '88, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Computational Aspects of an Implicit Finite Element Procedure for Elasto-Viscoplastic Large Deformation Problems. Major Adviser: Nicholas J. Zabaras

Anne L. Aronson, Minneapolis

B.A. magna cum laude '78, Yale University; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: English. Minor: Feminist Studies. Thesis: Literacy and Identity: The Writing Histories of Undergraduate Reentry Women. Major Adviser: Lillian S. Bridwell-Bowles

Luis Diego Artavia, San Jose, Costa Rica

Licenciado '84, Universidad de Costa Rica. Degree: Doctor of Philosophy, July '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: A Model for Low-Density Foams. Major Adviser: Christopher W. Macosko

Susan Perkins Ashdown, Ithaca, N.Y.

A.B. '71, Grinnell College. Degree: Doctor of Philosophy, September '91. Major: Design, Housing, and Apparel. Minor: Supporting Program. Thesis: Perceptual Discrimination of Ease Values and Tolerance for Ease Variations in Apparel at Selected Body Sites. Major Adviser: Marilyn R. Delong

Athanasios Athanasenas, Hellas

Diploma '84, Aristotelian University of Thessaloniki; M.S. '86, Virginia Polytechnic Institute and State University. Degree: Doctor of Philosophy, June '91. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Cost-Effectiveness of Network Design: The Case of Rural Road Investment and Maintenance Management Strategies. Major Adviser: Jeremiah E. Fruin

Khuan Chuen Au, Singapore

B.S. with high honors '85, Southern Illinois University; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Forestry. Minor: Supporting Program. Thesis: Use of Response Surface Methodology to Maximize Paper Birch Utilization in a Three-Layer Oriented Strandboard. Major Adviser: Roland O. Gertjeansen

Shiva Azadegan, Tehran, Iran

B.S. '81, University of Tulsa; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: A SIMD Model for Parallel Execution of Datalog Programs. Major Adviser: Anand R. Tripathi

Steven Fred Bacon, Bakersfield, Calif.

B.A. magna cum laude '79, University of California. Degree: Doctor of Philosophy, April '91. Major: Psychology. Minor: Supporting Program. Thesis: Effects of Stress and Attentional Focus on Pain Assessed by Evoked Potentials. Major Adviser: David T. Lykken

Imho Bae, Korea

B.A. '81, M.A. '86, Soong Jun University. Degree: Doctor of Philosophy, September '91. Major: Social Work. Minor: Supporting Program. Thesis: A Survey on Public Acceptance of Restitution as an Alternative to Incarceration for Property Offenders in Hennepin County, Minnesota. Major Adviser: Burton R. Galaway

Joseph Kent Bailey, San Jose, Calif.

B.S. with honors '83, University of California. Degree: Doctor of Philosophy, April '91. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Direct Observation and Modeling of Microstructural Development in Chemical Processing of Ceramics. Major Adviser: Martha L. McCartney

Bakama Bernard BakamaNume, Uganda

B.A. '76, Makerere University; M.A. '82, University of Windsor. Degree: Doctor of Philosophy, June '91. Major: Geography. Minor: Supporting Program. Thesis: The Geography of Sports Stadiums: Hegemonic Landscapes?. Major Adviser: Fred E. Lukermann

Bryan Douglas Baker, San Diego, Calif.

B.A. '76, Southern California College; M.A. '80, Fuller Theological Seminary; M.A. '86, San Diego State University. Degree: Doctor of Philosophy, August '91. Major: Geography. Minor: Supporting Program. Thesis: Effects of the Conservation Reserve Program on Wildlife Habitat in the Great Plains. Major Adviser: Philip J. Gersmehl

Dimitrios Petros Barbas, Thessaloniki, Greece
Diploma '83, Aristotelian University of Thessaloniki.
Degree: Doctor of Philosophy, May '91. Major:
Medicinal Chemistry. Minor: Chemistry. Thesis: Design,
Synthesis, and Evaluation of Bivalent Ligands as Probes
for the Study of Opioid Receptors. Major Adviser: Philip
S. Portoghese

Bartolome Barcelo, Porreres, Mallorca, Spain
Licenciado '79, Doctor '83, Universidad Autonoma de
Madrid. Degree: Doctor of Philosophy, June '91. Major:
Mathematics. Minor: Supporting Program. Thesis: On the
Harmonic Measure for Nondivergence Elliptic Equations.
Major Adviser: Eugene B. Fabes

Hanna Zacks Bar Yishay, Israel
A.B. '73, Rutgers; M.A. '76, University of Minnesota.
Degree: Doctor of Philosophy, August '91. Major:
History. Minor: Supporting Program. Thesis: Female
Labor Force Participation in a Developing Economy Pre-
State Israel as a Case Study. Major Adviser: Richard L.
Rudolph

Daniel Horacio Basigalup, Mar del Plata, Argentina
Ingeniero Agronomo '78, Universidad Nacional de la
Plata; M.S. '90, University of Minnesota. Degree: Doctor
of Philosophy, April '91. Major: Plant Breeding. Minor:
Supporting Program. Thesis: Development of a Core
Collection for Alfalfa (*Medicago sativa* L.). Major
Advisers: Donald K. Barnes and Robert E. Stucker

William Gregory Beck, Houston, Tex.
B.S. with honors '74, M.A. '76, University of Texas.
Degree: Doctor of Philosophy, April '91. Major:
Communication Disorders. Minor: Supporting Program.
Thesis: The Intensity of Connected Discourse and Its
Relationship to Perceived Intelligibility. Major Adviser:
Charles E. Speaks

Roger E. Bengston, Minnetonka
B.S. '48, M.A. '90, University of Minnesota. Degree:
Doctor of Philosophy, July '91. Major: History. Minor:
Supporting Program. Thesis: A History of the Green
Giant Company, 1903-1979. Major Adviser: George D.
Green

Mindy S. Benowitz, Minneapolis
B.A. summa cum laude '80, Macalester College; M.A.
'85, University of Minnesota. Degree: Doctor of
Philosophy, June '91. Major: Educational Psychology.
Minor: Supporting Program. Thesis: Sexual Exploitation
of Female Clients by Female Psychotherapists: Interviews
with Clients and a Comparison to Women Exploited by
Male Psychotherapists. Major Adviser: Dorothy R.
Loeffler

William Paul Berg, Owatonna
B.S. '85, University of Minnesota; M.Ed. '87, University
of Mississippi. Degree: Doctor of Philosophy, July '91.
Major: Kinesiology. Minor: Supporting Program. Thesis:
Visual Regulation of Gait in Bipedal Locomotion. Major
Adviser: Michael Wade

Christopher Lewis Berger, Los Osos, Calif.
B.A. '86, Lawrence University. Degree: Doctor of
Philosophy, August '91. Major: Biochemistry. Minor:
Supporting Program. Thesis: Rotational Dynamics of
Myosin Heads Bound to Actin During the Acto-Myosin
ATPase Cycle. Major Adviser: David D. Thomas

Kaushik Bhattacharya, Mysore, Karnataka, India
B.Tech. '86, Indian Institute of Technology, Madras.
Degree: Doctor of Philosophy, August '91. Major:
Mechanics. Minor: Supporting Program. Thesis:
Microstructure of Martensite. Major Adviser: Richard D.
James

Theodora Bibila, Thessaloniki, Greece
Diploma '86, Aristotelian University of Thessaloniki.
M.S. '89, University of Minnesota. Degree: Doctor of
Philosophy, June '91. Major: Chemical Engineering.
Minor: Supporting Program. Thesis: A Structured Kinetic
Model for Monoclonal Antibody Synthesis and Secretion
by Mouse Hybridoma Cells. Major Adviser: Michael C.
Flickinger

Jeffrey Allen Bjorklund, Minneapolis
B.S. '83, St. John's University. Degree: Doctor of
Philosophy, April '91. Major: Chemistry. Minor:
Supporting Program. Thesis: Studies on the Biosynthesis
of Cocaine and Related Alkaloids in *Erythroxylum coca*.
Major Adviser: Edward Leete

John Allen Blackwell, Oakdale
B.Chem. '85, University of Minnesota. Degree: Doctor
of Philosophy, May '91. Major: Chemistry. Minor:
Supporting Program. Thesis: Metal-Ion Modified
Zirconium Oxide Based Chromatographic Supports.
Major Adviser: Peter W. Carr

John Douglas Bloom, Carlisle, Pa.
B.A. '84, University of California; M.A. '88, University
of Minnesota. Degree: Doctor of Philosophy, June '91.
Major: American Studies. Thesis: Cardboard Images of
the Past: Baseball Card Collecting and the Politics of
Sports. Major Adviser: Gary A. Fine

Alicia Marie Borowski, Pottstown, Pa.
B.S. '81, Pennsylvania State University; M.S. '87,
Virginia Polytechnic Institute and State University.
Degree: Doctor of Philosophy, May '91. Major:
Horticulture. Minor: Agronomy. Thesis: Influence of Seed
Maturity on the Vigor and Chemical Composition of
Hybrid Shrunken-2 Sweet Corn Seed. Major Advisers:
Luther Waters, Jr. and Vincent A. Fritz

Hassan Bouayed, Rabat, Morocco
D.V.M. '82, Institut Agronomique et Veterinaire Hassan
II. Degree: Doctor of Philosophy, July '91. Major:
Veterinary Surgery, Radiology, and Anesthesiology.
Minor: Supporting Program. Thesis: Surgical
Reconstruction of Partial and Total Circumferential
Esophageal Defects in the Dog. Major Adviser: Dennis
D. Caywood

Clare Louise Boulanger

B.A. summa cum laude '80, State University of New York; M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Anthropology. Minor: Supporting Program. Thesis: "Workers are One Race": Constructive Relations in the West Malaysian Workforce. Major Adviser: Eugene Ogan

Debra L. Bowers, St. Paul

B.S. with honors '73, Wisconsin State University; M.Ed. '78, University of North Dakota. Degree: Doctor of Philosophy, August '91. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationship of Staff Development/Inservice Education and Teachers' Job Satisfaction in Selected Middle Schools. Major Adviser: Neal C. Nickerson

Geoffrey Mark Brooke, London, England

B.A. '73, M.B.A. '84, University of Witwatersrand. Degree: Doctor of Philosophy, June '91. Major: Business Administration. Minor: Supporting Program. Thesis: Information Technology and Productivity: An Economic Analysis of the Effect of Product Differentiation. Major Adviser: Gordon B. Davis

Melissa Kay Buelt, Waltham

B.A. '86, College of St. Catherine. Degree: Doctor of Philosophy, September '91. Major: Biochemistry. Minor: Supporting Program. Thesis: Analysis of the Ligand Binding and Phosphorylation Domains of the Adipocyte Lipid Binding Protein. Major Adviser: David A. Bernioler

R. Kurt Burch Jr., Tinker Creek, Va.

B.A. with high distinction '80, George Mason University; M.A. '83, American University. Degree: Doctor of Philosophy, April '91. Major: Political Science. Minor: Supporting Program. Thesis: Constituting the Modern World: Property Rights and the Unity of Capitalism and the State System. Major Adviser: Raymond D. Duvall

Darrol Willis Bussler, Brownton

B.A. '62, Gustavus Adolphus College; M.A. '70, University of Colorado. Degree: Doctor of Philosophy, May '91. Major: Education. Minor: Supporting Program. Thesis: Reconstructionism as a Philosophical Base for Collective Leadership. Major Adviser: Robert H. Beck

Miriam Elaine Cameron, Golden Valley

B.S.N. with distinction '66, M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Nursing. Minor: Philosophy. Thesis: Ethical Problems Experienced by Persons with Aids. Major Adviser: Patricia Crisham

Randel Scott Carlock, Minneapolis

B.S. '70, M.A. '77, M.B.A. '83, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Education. Minor: Supporting Program. Thesis: The Need for Organization Development in Successful Entrepreneurial Firms. Major Adviser: Gary N. McLean

Barbara Ann Caron

B.A. '72, College of St. Catherine; M.A. '75, University of Wisconsin; M.P.A. '83, West Virginia University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Design, Housing, and Apparel. Minor: Supporting Program. Thesis: American Victorian Furnishings Textiles as a Vehicle for Understanding Lifestyle and Meaning: A Case Study of the Library and Reception Room in the Alexander Ramsey House. Major Adviser: Marilyn R. Delong

Wayne Allan Caron, Minneapolis

B.A. '82, M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Family Social Science. Minor: Supporting Program. Thesis: Dementia of the Alzheimer's Type: The Influence of Caregiver and Family Adjustment on Patient Behavior. Major Adviser: Pauline G. Boss

Jane Lamm Carroll, Minneapolis

B.A. '80, College of St. Catherine; M.A. '83, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: History. Minor: Supporting Program. Thesis: Criminal Justice on the Minnesota Frontier, 1820-1857. Major Adviser: Paul L. Murphy

Gary William Carter, Emmitsburg, Md.

B.A. '83, Catholic University of America. Degree: Doctor of Philosophy, June '91. Major: Psychology. Minor: Supporting Program. Thesis: A Study of Relationships Between Measures of Individual Differences and Job Satisfaction Among U.S. Army Enlisted Personnel. Major Adviser: Marvin D. Dunnette

Peter Betts Cattrell, Minneapolis

A.B. '73, West Virginia University. Degree: Doctor of Philosophy, August '91. Major: Sociology. Minor: Supporting Program. Thesis: The Rules of the Game: A Structuration Analysis of School Achievement in Urban Public School Classrooms with Logo Computer Microenvironments. Major Adviser: Donald G. McTavish

Joanne Cavallaro, St. Paul

B.A. '69, University of California; M.A. '80, San Francisco State University. Degree: Doctor of Philosophy, April '91. Major: Education. Minor: Supporting Program. Thesis: The Effects of Selected Test Features on Teachers' Judgments of Student Writing. Major Adviser: Gene L. Piche

Jose Antonio Cerna-Bazan

Bachiller '83, Licenciado '85, Universidad Nacional Mayor de San Marcos; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Hispanic and Luso-Brazilian Literature and Linguistics. Minor: Supporting Program. Thesis: Transito y Re/Presentacion Del Sujeto en Cesar Vallejo (El Ciclo 1914-1923). Major Adviser: Rene Jara

Suengki Chae, Seoul, Korea

B.S. '82, M.S. '84, Seoul National University. Degree: Doctor of Philosophy, September '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Light Scattering Applications for Microcontamination Control and Radiative Transport Properties Determination. Major Adviser: Haook S. Lee

Jennifer Harley Chalmers, St. Paul

B.A. '86, University of Minnesota; M.S. '88, St. Cloud State University. Degree: Doctor of Philosophy, June '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of a Multi-Component Orientation Program for Seventh Grade Transition Using Trained Peer Helpers. Major Adviser: Frank Henderson Wood

Oilun Helen Chan, Hong Kong

B.S. '83, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Intestinal Absorption and Presystemic Elimination of Diltiazem in the Rabbit. Major Adviser: Ronald J. Sawchuk

Ke Jian Chen, Hubei, People's Republic of China

Degree: Doctor of Philosophy, September '91. Major: Chemistry. Minor: Supporting Program. Thesis: I. Fischer Carbene Complexes: Cyclizations with Alkenyl Alkynyl Ethers and Preparation from Alkyl Iodides. II. Radical Cyclizations of Allyl, Propargyl, and Cyclopropylmethyl Iodides. Major Adviser: Thomas R. Hoye

Xinfu Chen, Jiangyin, Jiangsu, People's Republic of China

B.S. '84, Peking University. Degree: Doctor of Philosophy, July '91. Major: Mathematics. Minor: Supporting Program. Thesis: Phase Transition and Free Boundary Problems. Major Adviser: Avner Friedman

Thim Kian Cheng, Malaysia

B.S. Ag. '84, National Taiwan University; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Animal Science. Minor: Biochemistry. Thesis: Feeding and Managing Broilers at High Temperatures. Major Adviser: Craig N. Coon

Hyae Gyeong Cheon, Seoul, Korea

B.Pharm. '85, Ewha Womans University. Degree: Doctor of Philosophy, September '91. Major: Pharmacology. Minor: Supporting Program. Thesis: Biochemical Characterization and Comparison of Hamster Hepatic Arylamine N-Acetyltransferase Isozymes. Major Adviser: Patrick E. Hanna

Michele Virginia Chin-Purcell, Richmond, Calif.

B.S. '84, University of California; M.S.M.E. '87, University of Minnesota. Degree: Doctor of Philosophy, April '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Fracture Toughness of Articular Cartilage. Major Adviser: Jack L. Lewis

Haekyung Choi, Seoul, Korea

B.A. '81, Ewha Womans University; M.A. '83, Seoul National University. Degree: Doctor of Philosophy, June '91. Major: Social Work. Minor: Supporting Program. Thesis: A Study of Family Caregiving for the Impaired Elderly and Determinants of Caregiver Burden in South Korea. Major Adviser: Rosalie Ann Kane

Jun Rim Choi, Seoul, Korea

B.S. '86, Yonsei University; M.S. '88, Cornell University. Degree: Doctor of Philosophy, July '91. Major: Electrical Engineering. Minor: Supporting Program. Thesis: GaAs-Based Integrated Microsensors. Major Adviser: Dennis L. Polla

William Joseph Clark

B.S. '65, St. Louis University; M.A. '84, University of Wyoming. Degree: Doctor of Philosophy, June '91. Major: American Studies. Thesis: Naturalism, Revitalization, and the Fiction of Frank Norris. Major Adviser: David W. Noble

Daniel Lee Clemans, Wauwatosa, Wis.

B.S. '82, University of Wisconsin. Degree: Doctor of Philosophy, May '91. Major: Microbiology. Minor: Supporting Program. Thesis: Identification and Characterization of a Development-Specific Fibrillar Protein from *Myxococcus xanthus*. Major Adviser: Martin Dworkin

James Douglas Coatsworth

A.B. magna cum laude '83, Harvard College. Degree: Doctor of Philosophy, June '91. Major: Psychology. Minor: Supporting Program. Thesis: Continuities and Discontinuities in Competence from Middle Childhood to Late Adolescence. Major Advisers: Norman Garmezny and Ann S. Masten

Nicki Jean Cohen-Cliffer

B.A. with distinction '78, California State University. Degree: Doctor of Philosophy, May '91. Major: Educational Psychology. Minor: Child Psychology. Thesis: Frames of Reference in Spatial Directions. Major Advisers: S. Jay Samuels and Herbert L. Pick, Jr.

John Thomas Copeland, Highland, Mich.

A.B. '86, University of Michigan. Degree: Doctor of Philosophy, August '91. Major: Psychology. Minor: Supporting Program. Thesis: Motivational Implications of Social Power for Behavioral Confirmation. Major Adviser: Mark Snyder

Julio C. Costa, Sao Paulo, Brazil

B.S.E.E. '85, University of Wisconsin; M.S.E.E. '88, University of Minnesota. Degree: Doctor of Philosophy, April '91. Major: Electrical Engineering. Minor: Physics. Thesis: Gallium Arsenide Surfaces with Thin Silicon Overlayers. Major Adviser: Marshall I. Nathan

Lincoln Gibson Craton

B.S. magna cum laude '83, Tufts University. Degree: Doctor of Philosophy, August '91. Major: Child Psychology. Minor: Supporting Program. Thesis: Infants' Perception of Figure and Ground from Kinetic Stimulus Information. Major Adviser: Albert Jonas

He Dai, Wuhan, Hubei, People's Republic of China

B.A. '85, Whitman College. Degree: Doctor of Philosophy, April '91. Major: Chemistry. Minor: Supporting Program. Thesis: Studies on Dynamic Properties of A Polyelectrolyte-Hyaluronic Acid. Major Adviser: Wilmer G. Miller

Mary Elizabeth Darling, St. Paul

B.S. cum laude '61, Maryville College; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Education. Minor: Supporting Program. Thesis: Self-Directed Nutrition Learning Activity of Women 50 Years of Age and Older: The Extent of Participation and Quality as Related to Self-Efficacy. Major Adviser: Harlan G. Copeland

Janet Susan Davenport, Champlin

B.A. magna cum laude '67, Augsburg College; M.A. '76, Spec.Ed. '77, University of Minnesota. Degree: Doctor of Philosophy, April '91. Major: Educational Administration. Minor: Supporting Program. Thesis: The Role of Parents in the Transition to a Middle School Organization: A Case Study. Major Adviser: Clifford P. Hooker

Paul Norman Day, Hastings, Mich.

B.S. with high honor '82, M.S. '83, Michigan Technological University. Degree: Doctor of Philosophy, September '91. Major: Chemistry. Minor: Supporting Program. Thesis: The Calculation of Chemical Rate Coefficients by Quantum Mechanical Flux Autocorrelation Functions and the Calculation of Vibrational Energy Levels of Highly Excited Molecules with a Multi-Arrangement Basis. Major Adviser: Donald G. Truhlar

Camille Suzanne DeBell, Santa Barbara, Calif.

B.A. with honors '76, University of the Pacific; M.A. '78, West Virginia University. Degree: Doctor of Philosophy, August '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effect of Applicant Characteristics on Employment Screening Interviews: A Field Study. Major Advisers: Patricia R. McCarthy and James R. Rest

Nancy B. Dise, Minneapolis

B.S. with honors '80, University of Notre Dame; M.S. '84, University of Virginia. Degree: Doctor of Philosophy, September '91. Major: Ecology. Minor: Supporting Program. Thesis: Methane Emission from Peatlands in Northern Minnesota. Major Adviser: Eville Gorham

Kathryn Martha Dockter, Richfield

B.S. '67, M.S. '73, Mankato State College. Degree: Doctor of Philosophy, April '91. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of the Relationship Between Junior High School Students' Knowledge and Understanding of Learning Style Theory and Their Self-Esteem. Major Adviser: Neal C. Nickerson

Neil Allan Dotson, Tulsa, Okla.

B.S. '84, University of Oklahoma. Degree: Doctor of Philosophy, August '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Nonidealities Accompanying Network Formation by Free-Radical Polymerization. Major Advisers: Matthew V. Tirrell and Christopher W. Macosko

Roxanne Lynn Doty, Phoenix, Ariz.

B.S. cum laude '84, M.A. '86, Arizona State University. Degree: Doctor of Philosophy, June '91. Major: Political Science. Minor: Supporting Program. Thesis: The Social Construction of Contemporary International Hierarchy. Major Adviser: Raymond D. Duvall

Thomas N. Duening, Woodbury

B.S. '81, University of Wisconsin; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Education. Minor: Supporting Program. Thesis: Rorty's Liberal Ironist: A Model for Information Age Undergraduate Education? Major Adviser: Robert H. Beck

Jeffrey W. Duryea, Minneapolis

B.A. '84, Carleton College. Degree: Doctor of Philosophy, September '91. Major: Physics. Minor: Supporting Program. Thesis: A Precision Measurement of the Polarization and Magnetic Moment of the Cascade-Minus Hyperon. Major Adviser: Kenneth Heller

Drummond Early III, St. Paul

B.A. with high distinction '83, University of Maine; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Geology. Minor: Supporting Program. Thesis: Metamorphic Petrology of the Gold Brick District, West-Central Colorado, and Implications for the Evolution of a Proterozoic Accretionary Terrain. Major Adviser: James H. Stout

Erik Oddmund Einset, Geneva, N.Y.

B.S. '86, Cornell University. Degree: Doctor of Philosophy, May '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Three Dimensional Transport and Kinetic Modeling of Horizontal Chemical Vapor Deposition Reactors. Major Adviser: Klavs F. Jensen

Ann E. Ellis, Maple Grove

B.S. with high honors '83, Denison University; M.A. '86, University of Toledo. Degree: Doctor of Philosophy, June '91. Major: Child Psychology. Minor: Supporting Program. Thesis: Infants' Recognition of Natural Categories. Major Adviser: Charles A. Nelson

Cheryl Ann Engelkes, Adrian

B.S. with distinction '83, University of Minnesota; M.S. '87, Michigan State University. Degree: Doctor of Philosophy, May '91. Major: Plant Pathology. Minor: Supporting Program. Thesis: Pathogenicity and Survival of AG-2-2 Rhizoctonia solani on Sugar Beet and Bean Crops. Major Advisers: Carol E. Windels and Neil A. Anderson

Steven Allan Erickson, Eagan

B.A. cum laude '74, University of Minnesota; M.A. magna cum laude '76, Covenant Theological Seminary. Degree: Doctor of Philosophy, May '91. Major: Family Social Science. Minor: Supporting Program. Thesis: Families of Children with Well-Managed Asthma: A Family Interaction Study Based Upon the Circumplex Model. Major Adviser: David E. Olson

Daniel Lee Erkkila, St. Paul

B.S. with distinction '77, M.S. '82, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Forestry. Minor: Supporting Program. Thesis: Valuation of Forest-Based Nonmarket Outputs: A Cost-Price Approach. Major Adviser: Dietmar W. Rose

John Charles Ernst, Bloomington

B.A. '75, Concordia College; M.A. '79, Wheaton College; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: History. Minor: Supporting Program. Thesis: The Response of the English Wesleyan Methodist Church to the Anglo-Boer War of 1899-1902. Major Adviser: Stanford E. Lehmborg

Mary Elaine Estrem, Minneapolis

B.A. magna cum laude '71, Concordia College; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: French. Minor: Supporting Program. Thesis: Stendhal's Armance. Major Adviser: Eileen B. Sivert

Cesar Augusto Falconi, Lima, Peru

Licenciado '84, Universidad del Pacifico; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Estimation of an Almost Ideal Demand System for U.S. Food with Household and Aggregate Data. Major Adviser: Benjamin H. Senauer

Jeanne-Marie Elizabeth Faller, Franklin Square, N.Y.

B.A. '72, Molloy Catholic College for Women; M.A. '76, Adelphi University. Degree: Doctor of Philosophy, August '91. Major: Educational Administration. Minor: Supporting Program. Thesis: Teacher Perception of At Risk Students: An Ecological Perspective. Major Adviser: William M. Ammentorp

Amy Erdman Farrell, Carlisle, Pa.

A.B. with high honor '85, Ohio University; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, May '91. Major: American Studies. Minor: Feminist Studies. Thesis: Feminism in the Mass Media: Ms. Magazine, 1972-1989. Major Adviser: Sara M. Evans

Olufemi Olusegun Fatunmbi, Lagos, Lagos, Nigeria

D.V.M. '76, University of Ibadan; M.V.Sc. '80, University of Liverpool. Degree: Doctor of Philosophy, April '91. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Development and Improvement of Avian Influenza Vaccines in Turkeys. Major Adviser: John A. Newman

Lane Fischer, Minneapolis

B.S. '79, M.A. '82, Brigham Young University. Degree: Doctor of Philosophy, June '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Relationships Among Family Functioning, IQ, and Mental Health Outcomes in Transracially Adoptive Families. Major Adviser: Richard A. Weinberg

James David Fitzsimmons, Alliance, Ohio

B.A. summa cum laude '73, Miami University; M.A. '81, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Geography. Minor: Supporting Program. Thesis: Female Labor Force Participation Change in the Central United States, 1950-1980. Major Adviser: John S. Adams

Steven Paul Fling, Minneapolis

B.A. egregia cum laude '82, St. John's University. Degree: Doctor of Philosophy, September '91. Major: Microbiology. Minor: Supporting Program. Thesis: T Cell Receptor Vbeta8 Gene Usage and in vitro Unresponsiveness to Autologous Pathogenic Peptides of S-Antigen in EAU. Major Advisers: Dale S. Gregerson and Peter G. W. Plagemann

Annick Marie Fritz, France

Maitrise '78, Universite de Franche-Comte (Besancon). Degree: Doctor of Philosophy, August '91. Major: French. Minor: Supporting Program. Thesis: Francis Ponge: De L'Ecriture a L'Oeuvre. Major Adviser: Judith E. Preckshot

Bradley Robert Fruen, St. Paul

B.S. '84, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Genetics. Minor: Supporting Program. Thesis: The Inositol Homeostasis of Down Syndrome Cells. Major Adviser: V. Elving Anderson

Manuel Antonio Garcia, Medellin, Colombia

Ingenieria Quimica '85, Universidad Pontificia Bolivariana. Degree: Doctor of Philosophy, September '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Reactive Mold Filling Modeling. Major Adviser: Christopher W. Macosko

Ann Elizabeth Garwick, Chaska

B.S.N. summa cum laude '71, St. Olaf College; M.S. '73, University of Colorado. Degree: Doctor of Philosophy, June '91. Major: Family Social Science. Minor: Supporting Program. Thesis: Shared Family Perceptions of Life with Dementia of the Alzheimer's Type. Major Advisers: Pauline G. Boss and Daniel F. Detzner

David Richard Gast, Wittenberg, Wis.

B.S. '74, M.S. '76, University of Wisconsin. Degree: Doctor of Philosophy, April '91. Major: Animal Science. Minor: Supporting Program. Thesis: Effects of Particle Size and Intake on Forage Digestion. Major Adviser: Richard D. Goodrich

Gitahi Gititi, Kenya

Degree: Doctor of Philosophy, August '91. Major: Comparative Literature. Thesis: Narrative and National Formation: Comparative Issues in Contemporary African and Latin American Literatures. Major Adviser: Ronald W. Sousa

Kathleen Doris Gjesfeld, Eau Claire, Wis.

B.S. cum laude '67, University of Missouri; M.S.T. '70, University of Wisconsin. Degree: Doctor of Philosophy, June '91. Major: Educational Administration. Minor: Supporting Program. Thesis: Conflict Management Strategies of Wisconsin Elementary School Principals. Major Advisers: Van Dyck Mueller and Gary F. Alkire

Christie Marie Gordon, St. Cloud

B.S. '71, Bemidji State University; M.S. '86, St. Cloud State University. Degree: Doctor of Philosophy, September '91. Major: Education. Minor: Supporting Program. Thesis: The Effect of Teacher Response on Student Dialogue Journals. Major Adviser: Richard W. Beach

Cameron John Ptolemy Gourley, Victoria, Australia

B.Ag.Sc. '83, M.Ag.Sc. '88; La Trobe University. Degree: Doctor of Philosophy, September '91. Major: Soil Science. Minor: Supporting Program. Thesis: Genotypic Differences in Phosphorus Response of Forage Legumes in Sand-Alumina and Soil Culture. Major Advisers: Michael P. Russelle and Deborah L. Allan

Bernadine Deane Gradous

B.A. '55, Valparaiso University; M.B.A. '77, College of St. Thomas. Degree: Doctor of Philosophy, May '91. Major: Vocational Education. Minor: Supporting Program. Thesis: The Development and Validation of a Transfer-of-Training System. Major Adviser: Richard A. Swanson

Sara Tallaksen Greene, Minneapolis

B.A. '78, Wells College; M.S. '81, University of Rochester. Degree: Doctor of Philosophy, September '91. Major: Anatomy. Minor: Supporting Program. Thesis: Studies on the Coexistence of Serotonin and Substance P in the Brainstem of the Rat. Major Adviser: Robert P. Elde

Colleen Mary Grogan, Madison, Wis.

B.A. '86, University of Wisconsin. Degree: Doctor of Philosophy, September '91. Major: Health Services Research, Policy, and Administration. Minor: Supporting Program. Thesis: A Political Theory to Explain the Variation in State Medicaid Policies. Major Adviser: Roger D. Feldman

Lynette Hilda Grouse, New Brighton

B.S. '78, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Pathobiology. Minor: Supporting Program. Thesis: Role of the Platelet Membrane in Modulation of Cellular Response: An Ultrastructural and Biochemical Study of Membrane-Receptor Interactions. Major Advisers: James G. White and Gundu H. R. Rao

Ruochuan Gu, Henan, People's Republic of China

B.S. '82, Wuhan Institute of Hydraulic and Electric Engineering; M.S.C.E. '87, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Civil Engineering. Minor: Supporting Program. Thesis: Buoyant Jet Flows and Mixing in Stratified Lakes, Reservoirs, or Ponds. Major Adviser: Heinz G. Stefan

Changfeng Gui, People's Republic of China

B.Sc. '84, M.Sc. '87, Peking University. Degree: Doctor of Philosophy, August '91. Major: Mathematics. Minor: Supporting Program. Thesis: On Semilinear Elliptic and Parabolic Equations in Entire Space. Major Adviser: Wei-Ming Ni

Qizhong Guo, Guangdong, People's Republic of China

B.Eng. '82, Tianjin University; M.S.C.E. '87, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Civil Engineering. Minor: Supporting Program. Thesis: Analysis and Modeling of the River Ice Breakup and Jamming Process and Its Effect on Flooding. Major Adviser: Charles C. S. Song

Anand Gupta

B.Ch.E. with distinction '80, M.S.M.E. '86, University of Minnesota. Degree: Doctor of Philosophy, May '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Experimental Studies of Gas-Aerosol Reactions. Major Adviser: Peter H. McMurry

Judith Marion Halberstam, Nottingham, England

B.A. with highest honors '85, University of California; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: English. Minor: Supporting Program. Thesis: Parasites and Perverts: Anti-Semitism and Sexuality in Nineteenth Century Gothic Fiction. Major Adviser: Martin Roth

Robert Cushing Hamlen, Dover, Mass.

B.S. cum laude '81, Bates College; M.S. '84, Iowa State University of Science and Technology. Degree: Doctor of Philosophy, July '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Paper Structure, Mechanics, and Permeability: Computer-Aided Modeling. Major Adviser: L. E. Scriven

Chunhua Han, Beijing, People's Republic of China

B.S. '82, M.S. '85, Northeast University of Technology. Degree: Doctor of Philosophy, May '91. Major: Civil Engineering. Minor: Supporting Program. Thesis: Localization of Deformation in Sand. Major Adviser: Andrzej Drescher

Jae Yong Han

B.S. '84, M.S. '86, Seoul National University. Degree: Doctor of Philosophy, April '91. Major: Animal Science. Minor: Supporting Program. Thesis: The Primordial Germ Cell as a Vehicle for Transgenesis in the Chicken Gallus domesticus. Major Adviser: Kevin S. Guise

Jonathan David Haskett, Minneapolis

B.A. with honors '78, University of Chicago; M.A. '81, Goddard College; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Soil Science. Minor: Supporting Program. Thesis: Nitrogen Behavior and Management Strategies Studied by Simulation and Experiment. Major Adviser: Jean-Alex E. Molina

Dale Raymond Hawley, Brooklyn Park

B.A. summa cum laude '77, M.M.F.T. '82, Abilene Christian University. Degree: Doctor of Philosophy, May '91. Major: Family Social Science. Minor: Supporting Program. Thesis: Enriching Newlyweds: An Evaluation of Three Marital Enrichment Programs with Newlywed Couples. Major Adviser: David H. Olson

Gary Kevin Haynes, Fremont, Neb.

B.M. '79, Hastings College; M.M. '82, University of Colorado. Degree: Doctor of Philosophy, June '91. Major: Music. Minor: Supporting Program. Thesis: Swan Song: An Opera in One Act. Major Adviser: Dominick J. Argento

L.J. Haynes, St. Paul

B.S. '75, M.A. '79, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Educational Administration. Minor: Supporting Program. Thesis: Basic Knowledge and Competency Needs: Perspectives on the Content Needs of Higher Education Administration Programs. Major Adviser: William M. Ammentorp

Jane Frances Healey, Park Ridge, Ill.

B.A. with honors '84, University of Notre Dame; M.A. '86, Baylor University. Degree: Doctor of Philosophy, June '91. Major: American Studies. Thesis: Painting Pollock: The Creation of a Cultural Hero in Post-World War II America. Major Adviser: David W. Noble

Susan Joan Henly, Grand Forks, N.D.

B.S. '74, College of St. Teresa; M.S. '84, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Psychology. Minor: Supporting Program. Thesis: Robust Estimation with Non-Normal Data and Finite Samples in the Analysis of Covariance Structures. Major Adviser: Robert A. Cudeck

Norma J. Hervey, Decorah, Iowa

B.A. '56, University of Akron; M.L.S. '72, State University of New York; M.A. '80, St. Bonaventure University. Degree: Doctor of Philosophy, May '91. Major: History. Minor: Supporting Program. Thesis: A Company Town Becomes a Community: Milaca, Minnesota 1880-1915. Major Adviser: George D. Green

Eric David Hetherington, Charlottesville, Va.

B.A. '83, Franklin and Marshall College. Degree: Doctor of Philosophy, June '91. Major: Geology. Minor: Supporting Program. Thesis: Structural Analysis of Proterozoic Rocks in Gunnison County, Colorado. Major Adviser: Peter J. Hudleston

John Peter Heyrman, Berea, Ky.

B.A. '82, Oberlin College. Degree: Doctor of Philosophy, June '91. Major: Political Science. Minor: Supporting Program. Thesis: Mobilizing Citizens: A Study of Citizens' Groups and Participation. Major Adviser: Robert B. Kvakik

Stephen Mark Hjemboe, St. Paul

B.A. '71, St. Olaf College. Degree: Doctor of Philosophy, June '91. Major: Psychology. Minor: Supporting Program. Thesis: Characteristics of the Minnesota Multiphasic Personality Inventory (MMPI-2) Associated with Marital Distress. Major Adviser: James N. Butcher

Paul Robert Hladky, Minnetonka

B.S. '78, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Chemical Physics. Thesis: Contact Line Tension of Dilute Polymer Solutions at the Theta Temperature. Major Adviser: Stephen Prager

Theodore Russell Holman, San Francisco, Calif.

B.A. '86, University of California. Degree: Doctor of Philosophy, April '91. Major: Chemistry. Minor: Supporting Program. Thesis: Physical and Spectroscopic Studies of Bimetallic Inorganic Complexes. Major Adviser: Lawrence Que, Jr.

Michael Emil Holmes, West Lafayette, Ind.

B.A. summa cum laude '85, Southwest State University; M.S. '86, Southern Illinois University. Degree: Doctor of Philosophy, August '91. Major: Speech-Communication. Minor: Supporting Program. Thesis: An Interaction Analysis of Developmental Phases in Authentic and Simulated Negotiations Between Police and Hostage-Takers and Barricaded Suspects. Major Adviser: Richard E. Sykes

Lu Hong, Shanghai, People's Republic of China

B.S. '85, Fudan University. Degree: Doctor of Philosophy, July '91. Major: Economics. Minor: Supporting Program. Thesis: Balanced Nash-Implementation of Social Choice Correspondences in Production Economies. Major Adviser: Leonid Hurwicz

Andreas Hornstein, Berg, Germany

Diplom '84, Universitat Konstanz. Degree: Doctor of Philosophy, April '91. Major: Economics. Minor: Supporting Program. Thesis: Essays in Macroeconomics. Major Adviser: Edward C. Prescott

Marc Steven Horwitz, Sherman Oaks, Calif.

B.S. '82, M.S. '85, University of California. Degree: Doctor of Philosophy, July '91. Major: Microbiology. Minor: Supporting Program. Thesis: Novel Endogenous Sequences Related to Human Immunodeficiency Virus Type 1. Major Adviser: Anthony J. Faras

Suchung J. Hou, Taiwan

B.S. '80, National Cheng Kung University. Degree: Doctor of Philosophy, July '91. Major: Mathematics. Minor: Supporting Program. Thesis: A Finite Element Method for Conservation Laws: Multi-Dimensional Case. Major Adviser: J. Bernardo Cockburn

Ching Hsu

B.S. '82, University of Science and Technology of China; M.Sc. '85, Academia Sinica, Institute of Applied Mathematics. Degree: Doctor of Philosophy, September '91. Major: Statistics. Minor: Mathematics. Thesis: Admissibility of Formal Bayes Decision Rules. Major Adviser: Morris L. Eaton

Cheng Chen Hsueh, Taipei, Taiwan

B.S. '83, National Taiwan University. Degree: Doctor of Philosophy, July '91. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Sol-Gel Processing, Microstructural Development, and Electrical Properties of Ferroelectric Lead Zirconate-Titanate Thin Films. Major Adviser: Martha L. McCartney

Cynthia Dianne Huffman, Lawrence, Kan.

B.S.B. with highest distinction '86, University of Kansas. Degree: Doctor of Philosophy, June '91. Major: Business Administration. Minor: Cognitive Science. Thesis: Goal-Directed Experiences and the Development of Consumer Knowledge. Major Adviser: Michael J. Houston

Mark Richard Huggett, Madison, Wis.

B.A. with distinction '83, University of Wisconsin. Degree: Doctor of Philosophy, May '91. Major: Economics. Minor: Supporting Program. Thesis: Questions in Intertemporal Trade. Major Adviser: Edward C. Prescott

James Burton Hutter, Miller, Mo.

B.S.Ed. '84, Southwest Missouri State University; M.Ed. '87, University of Missouri. Degree: Doctor of Philosophy, June '91. Major: Education. Minor: Supporting Program. Thesis: An Instrument to Assess Agriculture Teacher Effectiveness. Major Advisers: George W. Wardlow and Roland L. Peterson

Sung-Don Hwang, Korea

B.A. '79, Hankuk University; M.P.A. '81, Seoul National University; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Political Science. Minor: Public Affairs. Thesis: Compatibility Between Bureaucratic and Democratic Ideologies: A Psycho-Cultural Study. Major Adviser: John L. Sullivan

Jing-Fu Jenq, Taipei, Taiwan

B.Ed. '77, National Taiwan College of Education; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Computer and Information Sciences. Minor: Electrical Engineering. Thesis: Parallel Algorithms for Image Processing. Major Adviser: Sartaj K. Sahni

Michael Dennis Jensen, St. Paul

B.A. '84, St. Olaf College. Degree: Doctor of Philosophy, September '91. Major: Chemistry. Minor: Supporting Program. Thesis: Carbocycle and Heterocycle Annulations Mediated by Group IV Transition Metal Complexes. Major Adviser: Thomas S. Livinghouse

Barry Craig Paul Johansen, St. Paul

B.E.S. '75, M.Ed. '85, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Vocational Education. Minor: Supporting Program. Thesis: Individual Response to Organizational Change: A Grounded Model. Major Adviser: Gary N. McLean

Bradford Willingham Johnson, Minneapolis

B.Math. '81, M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Statistics. Minor: Mathematics. Thesis: On the Admissibility of Improper Bayes Inferences in Fair Bayes Decision Problems. Major Adviser: Morris L. Eaton

David Robert Johnson, Roseville

B.S. '80, M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Plant Pathology. Minor: Supporting Program. Thesis: Studies on in vitro Screening of Wild Rice for Resistance to Fungal Brown Spot Caused by *Bipolaris oryzae*. Major Adviser: James A. Percich

Julia Gray Johnson, Plymouth

B.S. cum laude '76, M.A. '79, University of Missouri. Degree: Doctor of Philosophy, August '91. Major: Microbiology. Minor: Supporting Program. Thesis: Mechanisms of Activation and the Induction of Nonresponsiveness in Memory B Lymphocytes. Major Advisers: Ronald R. W. Jemmerson and Harry T. Orr

Julie Ann Johnson, Green Bay, Wis.

B.S.N. magna cum laude '81, M.S. '84, University of Wisconsin. Degree: Doctor of Philosophy, August '91. Major: Nursing. Minor: Educational Psychology. Thesis: Cardiac Patients' Stress Appraisals, Emotions, and Coping. Major Adviser: A. Marilyn Sime

Sue-Ching Chen Jou, Lo-Dung, Taiwan

B.S. '84, National Taiwan University; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Geography. Minor: Supporting Program. Thesis: Determinants of Spatial Variations in Housing Prices and House Price Changes: The Case of Minneapolis and Suburbs, 1970-1980. Major Adviser: John S. Adams

Nestor Antonio Juan, Santa Rosa, Argentina

Ingeniero Agronomo '79, Universidad Nacional del Sur; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Agronomy. Minor: Supporting Program. Thesis: Multifoliolate Alfalfa: Temperature, Photoperiod, and Harvest Regime Effect on Plant Morphology, Herbage Yield, and Herbage Quality. Major Adviser: Craig C. Sheaffer

Kyoungsik Kang, Seoul, Korea

B.Econ. '82, M.Econ. '84, Seoul National University. Degree: Doctor of Philosophy, August '91. Major: Economics. Minor: Supporting Program. Thesis: On Profit-Sharing Contracts as Welfare-Improving and Economy-Stabilizing Labor Contracts. Major Adviser: Takatoshi Ito

Jikyeong Kang-Park, Seoul, Korea

B.S. '84, Hanyang University; M.S. '87, Colorado State University. Degree: Doctor of Philosophy, August '91. Major: Design, Housing, and Apparel. Minor: Business Administration. Thesis: Consumers' Satisfaction with Ready-to-Wear Apparel Products: Comparison of Misses-Sized and Petite-Sized Women. Major Adviser: Marilyn R. Delong

Robert Roger Keller, Minneapolis

B.Mat.Sc.E. with distinction '86, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Electron Channeling Analysis of Local Strain Distributions Associated with Interfaces. Major Adviser: William W. Gerberich

Jeanne Halgren Kilde, Eau Claire, Wis.

B.A. '79, M.A. '82, University of Wisconsin. Degree: Doctor of Philosophy, July '91. Major: American Studies. Thesis: Spiritual Armories: A Social and Architectural History of Neo-Medieval Auditorium Churches in the U.S., 1869-1910. Major Adviser: Roland A. Delattre

Sun-Kyung Kim, Daegu, Korea

B.S. '79, Ehwa Womans University; M.S. '82, Korea Advanced Institute of Science and Technology. Degree: Doctor of Philosophy, July '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: A Class of Parallel Methods for Computing a Few Extreme Eigenvalues of Large Sparse Matrices Implemented on Parallel Computers. Major Adviser: Anthony T. Chronopoulos

Yongho Kim, Suwon, Korea

B.S. '83, M.S. '85, Seoul National University. Degree: Doctor of Philosophy, September '91. Major: Chemistry. Minor: Supporting Program. Thesis: Dynamics of Hydride Transfer in Solution Using Variational Transition State Theory. Major Adviser: Maurice M. Kreevoy

Myrna Louise Klobuchar, New Hope

B.S. with high honors '70, St. Cloud State College; M.A. '76, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Education. Minor: Supporting Program. Thesis: H. L. Mencken and "the Fabulous Fowl of the Pedagogical Aviary." Major Adviser: Robert H. Beck

Kathleen Elaine Krichbaum, Youngstown, Ohio

B.S.N. '69, Carlow College; M.S. '79, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Education. Minor: Nursing. Thesis: The Relationship Between Specific Teaching Behaviors and Achievement of Clinical Learning Outcomes by Baccalaureate Nursing Students. Major Advisers: Richard D. Kimpston and Ilene B. Harris

Heather Beila Kroona, St. Paul

B.A. '85, University of Wisconsin. Degree: Doctor of Philosophy, June '91. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Conformationally Constrained Analogues of 2-Amino-4-phosphonobutanoic Acid. Major Adviser: Rodney L. Johnson

Charles Thomas Krueger, Menomonie, Wis.

B.S. '68, M.S. '69, University of Wisconsin. Degree: Doctor of Philosophy, August '91. Major: Education. Minor: Supporting Program. Thesis: Characteristics and Perceived Importance of Competencies of Plant Managers in Minnesota and Wisconsin. Major Adviser: Gary N. McLean

Minkyu Kwak, Seoul, Korea

B.S. '83, M.S. '85, Seoul National University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Mathematics. Minor: Supporting Program. Thesis: Finite Dimensional Inertial Forms for the 2D Navier-Stokes Equations. Major Adviser: George R. Sell

Yum-Keung Kwan, Hong Kong

B.Soc.Sci. '84, Chinese University of Hong Kong. Degree: Doctor of Philosophy, April '91. Major: Economics. Minor: Supporting Program. Thesis: Two Essays on Bayesian Methods in Econometrics. Major Adviser: Christopher A. Sims

Vincent John Kwasniewski, Northbrook, Ill.

B.S.Ch.E. '83, Northwestern University. Degree: Doctor of Philosophy, August '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Surface Diffusion and Reaction of Diatomic Molecules on Pt(111). Major Adviser: Lanny D. Schmidt

Knut Langsetmo, Minneapolis

B.S. '83, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Linkage of pH, Stability and Redox Potential in E. coli Thioredoxin. Major Advisers: Clare K. Woodward and James A. Fuchs

Patricia Marie LaPlante, St. Paul

B.S.Ed. '72, M.A. '74, University of North Dakota. Degree: Doctor of Philosophy, July '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Investigation of Alert Self-Hypnosis. Hypnotic Suggestions, Absorption, and Reading Comprehension Among College Students. Major Advisers: David M. Wark and W. Wesley Tennyson

M. Hossein Lari-Najafi, Kerman, Iran

B.E.E. '83, M.S.E.E. '86, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Neural Network Approaches to Automated Knowledge Extraction From Raw Data. Major Adviser: Vladimir Cherkassky

James Erling Larson, Badger

B.S. '77, M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Physical Education. Minor: Supporting Program. Thesis: The Effects of a Season of Competition on Selected Psychological Dimensions of Elite Ice Hockey Athletes. Major Adviser: March L. Krotee

Linda Kay Leonard, Olympia, Wash.

B.A. with honors '73, Washington State University; M.A. '77, M.A. '80, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Education. Minor: Supporting Program. Thesis: Case Studies of Informal Mentoring Relationships Between Adolescent Students of French and Their Teachers in Public Secondary Schools. Major Advisers: Helen L. Jorstad and Marion L. Dobbert

Christopher Henry Lewis, Eugene, Ore.

A.B. magna cum laude '80, San Diego State University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, May '91. Major: American Studies. Thesis: Progress and Apocalypse: Science and the End of the Modern World. Major Adviser: David W. Noble

Xiaowei Li, People's Republic of China

M.S. '82, Beijing University of Iron and Steel Technology. Degree: Doctor of Philosophy, May '91. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Electrochemical Study of Sulfide Mineral-Grinding Medium Contact and the Relevance to Flotation. Major Adviser: Iwao Iwasaki

Chungti Albert Liang, Kaohsiung, Taiwan

B.S. '83, National Chiao Tung University; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: On the Fault Tolerance of Process Allocation and Communication on Message Passing Multiprocessor Systems. Major Adviser: Wei-Tek Tsai

Hwei Ting Lin

B.S. '86, National Chiao Tung University; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Mathematics. Minor: Supporting Program. Thesis: On the Dynamics of a Model in the Propagation of Genes. Major Adviser: Hans F. Weinberger

Liren Liu, Shanghai, People's Republic of China

M.Eng. '82, East China Normal University. Degree: Doctor of Philosophy, August '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Efficient Algorithms for Timing Verification and Delay Fault Testing. Major Adviser: David H. Du

Ying Liu, Ninghua, Fujian, People's Republic of China

B.S. '82, Peking University; M.S. '85, Institute of Physics, Academia Sinica. Degree: Doctor of Philosophy, September '91. Major: Physics. Minor: Supporting Program. Thesis: Electrical Transport and Quantum Phase Transitions of Ultrathin Films of Metals Prepared by in Situ Low Temperature Deposition. Major Adviser: Allen M. Goldman

Marilyn Waldock Loen

B.S.N. '69, Marquette University; M.S. '72, University of Massachusetts. Degree: Doctor of Philosophy, June '91. Major: Nursing. Minor: Gerontology. Thesis: Risk Factors Associated with Dependency in the Instrumental Activities of Daily Living in a Group of Noninstitutionalized Elderly. Major Adviser: Mariah Snyder

Michael Stanley Logan, Winnipeg, Canada

B.Sc. with honors '82, M.Sc. '86, University of Manitoba. Degree: Doctor of Philosophy, May '91. Major: Microbiology. Minor: Supporting Program. Thesis: Hydroxylamine Oxidoreductase from *Nitrosomonas europaea*: Inhibition by Cyanide and the Suicide Substrates Alkyl and Aryl Hydrazines. Major Adviser: Alan B. Hooper

Robert Audin Lonning, St. Paul

B.S. '71, Winona State College; M.Ed. '84, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Education. Minor: Supporting Program. Thesis: The Effect of Cooperative Learning Strategies on Student Verbal Interactions and Achievement During Conceptual Change Instruction. Major Adviser: Fred N. Finley

Barbara Jean Lonsdorf, Wausau, Wis.

A.B. '65, Loretto Heights College; M.S. '81, University of Wisconsin. Degree: Doctor of Philosophy, May '91. Major: Family Social Science. Minor: Supporting Program. Thesis: The Effects of Expressed Emotion, Role Strain, and Parenting Mastery on the Behavior of Children with Attention Deficit Hyperactivity Disorder. Major Adviser: William J. Doherty

Mario Alberto Lopez, San Salvador, El Salvador

B.A. '80, University of Wisconsin; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Algorithms for Composite Geometric Objects. Major Adviser: Sartaj K. Sahni

Tomas Alberto Lopez-Pumarejo, Coruzal, Puerto Rico

B.A. '73, M.P.C. '77, University of Puerto Rico. Degree: Doctor of Philosophy, July '91. Major: Hispanic and Luso-Brazilian Literatures. Minor: Supporting Program. Thesis: Transnational Television in National TV Production: The Case of Brazil. Major Adviser: Ronald W. Sousa

Eicher Low, Singapore

B.S. '86, University of Washington; M.S. Aero.E. '88, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Aerospace Engineering. Minor: Supporting Program. Thesis: Design of Helicopter Flight Control Systems for Hover and Low Speed Using Eigenstructure Assignment. Major Adviser: William L. Garrard

Shey-Shi Lu, Taipei, Taiwan

B.S. '85, National Taiwan University; M.S. '88, Cornell University. Degree: Doctor of Philosophy, April '91. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Uniaxial Stress Effects on the Electronic Properties of Gallium Arsenide/Aluminum Gallium Arsenide Single/Double Barrier Heterostructures. Major Adviser: Marshall I. Nathan

Zhipeng Lu

B.S. '86, Tsing Hua University; M.S.M.E. '89, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Thermal Plasma Chemical Vapor Deposition (CVD) of Polycrystalline and Homoepitaxial Diamond Films. Major Adviser: Emil Pfender

Jody P. Lulich, Chicago, Ill.

B.A. '79, Northwestern University; D.V.M. '84, Tuskegee University. Degree: Doctor of Philosophy, June '91. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Canine Calcium Oxalate Urolithiasis: Etiology, Pathophysiology, and Therapy. Major Adviser: Carl A. Osborne

Lang Luo, Changchun, Jilin, People's Republic of China

M.S.M.E. '83, Wayne State University. Degree: Doctor of Philosophy, September '91. Major: Mechanical Engineering. Minor: Computer and Information Sciences. Thesis: In-Cylinder Particulate Size Distribution Measurements in a Direct-Injection Diesel Engine. Major Adviser: David B. Kittelson

Ling Ma, Datong, People's Republic of China

B.S. '85, University of Science and Technology of China. Degree: Doctor of Philosophy, July '91. Major: Mathematics. Minor: Supporting Program. Thesis: Analysis and Computation for a Variational Problem in Micromagnetics. Major Adviser: Mitchell B. Lusk

Muchou Ma, Taiwan

B.Med. '85, Taipei Medical College. Degree: Doctor of Philosophy, September '91. Major: Pathobiology. Minor: Supporting Program. Thesis: The Role of Bacterial Catalase in Resistance to Oxidant Killing. Major Adviser: John W. Eaton

Zhiliu Ma

B.S. '82, Jilin University; M.S. '85, Dalian Institute of Chemical Physics. Degree: Doctor of Philosophy, September '91. Major: Chemical Physics. Thesis: Crossed Beam Studies of State-to-State Energy Transfer in Glyoxal and Iodine. Major Adviser: William R. Gentry

Mark Gavin Mack, New Brighton

M.S.C.E. '85, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Civil Engineering. Minor: Supporting Program. Thesis: A Three-Dimensional Boundary Element Method for Elastodynamics. Major Adviser: Steven L. Crouch

Christine Brown Mahoney, St. Paul

B.A. with distinction '82, M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Industrial Relations. Minor: Supporting Program. Thesis: The Labor Supply of Nurses: A Self-Selection Approach. Major Adviser: Dennis A. Ahlburg

Paul Marius Malm

B.A. '52, Southern California Bible College; M.A. '58, Claremont Graduate School. Degree: Doctor of Philosophy, July '91. Major: Education. Minor: History. Thesis: The Role of the Range Junior Colleges in the Acculturation of the Immigrant, 1916-1941. Major Adviser: Robert J. Keller

Vanda B. Manahan, Mankato

A.B. with high distinction '70, M.A. '77, Morehead State University; M.S.W. '75, Virginia Commonwealth University. Degree: Doctor of Philosophy, July '91. Major: Education. Minor: Supporting Program. Thesis: Education of Adult Children for Caregiving Duties to Aging Parents. Major Adviser: Harlan G. Copeland

LuMing Mao

B.A. '82, East China Normal University; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: English. Minor: Supporting Program. Thesis: Pragmatic Universals and Their Implications. Major Adviser: Michael Hancher

Gloria Mari-Beffa, Malaga, Spain

Degree: Doctor of Philosophy, June '91. Major: Mathematics. Minor: Supporting Program. Thesis: Poisson Geometry of the Virasoro Algebra. Major Adviser: Jack F. Conn

Liza Baradas Martinez, Manila, Philippines

B.S. cum laude '81, M.S. '86, University of the Philippines. Degree: Doctor of Philosophy, September '91. Major: Botany. Minor: Supporting Program. Thesis: Freeze-Substitution and Immunolocalization of Group I Allergen in Rye Grass (*Lolium perenne*). Major Advisers: Susan M. Wick and David D. Biesboer

Barbara Elizabeth Martinson, Roseville

B.A. '75, Bethel College; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Design, Housing, and Apparel. Minor: Supporting Program. Thesis: Information Representation: A Comparison of Data Structures Represented in Pictorial and Non-Pictorial Formats. Major Advisers: Bonnie M. Morrison and Marian O. Bagley

Patrick Joseph Mathieu, Eden Prairie

B.A. '74, St. John's University. Degree: Doctor of Philosophy, April '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Developmental Antecedents of School Achievement: The Influence of Developmental History. Major Adviser: Byron Egeland

Carleen Andrea Maynard, Duluth

B.A. summa cum laude '82, M.A. '85, College of St. Scholastica. Degree: Doctor of Philosophy, July '91. Major: Education. Minor: Supporting Program. Thesis: The Relationship of Critical Thinking Ability, Stage of Skill Acquisition, Years of Practice, and Organizational Context to Professional Nursing Competence. Major Adviser: Karen S. Louis

Scott Lee Medberry, Elgin, Iowa

B.S. with distinction '84, Iowa State University of Science and Technology. Degree: Doctor of Philosophy, September '91. Major: Botany. Minor: Supporting Program. Thesis: Transcript and Promoter Analysis of Commelina Yellow Mottle Virus. Major Advisers: Neil E. Olszewski and Susan M. Wick

Fernando Augusto Mendez, Arequipa, Peru

B.A. '78, University of Minnesota. Degree: Doctor of Philosophy, May '91. Major: Psychology. Minor: Supporting Program. Thesis: A Study of Work Values: Configurations and Correlates. Major Adviser: Rene V. Dawis

Robert Kwasi Mensah-Biney, Ghana

Associate '72, Camborne School of Mines; M.S. '76, Columbia University. Degree: Doctor of Philosophy, June '91. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Recovery of Gold from Bromine Solution Using Ion Exchange Resins and Activated Carbon. Major Advisers: Malcolm T. Hepworth and Kenneth J. Reid

Driss Messaho, Rabat, Morocco

M.S.Ag.E. '82, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Mathematical Modeling of Associated Transport Phenomena in Hygroscopic Porous Media: Application to Grain Storage. Major Adviser: R. Vance Morey

Andreas Michel, Germany

Degree: Doctor of Philosophy, August '91. Major: Comparative Literature. Minor: German. Thesis: Europe and the Problem of the Other: The Critique of Modernity in the Writings of Carl Einstein and Victor Segalen. Major Adviser: Wladyslaw Godzich

Kent Douglas Miller, St. Paul

B.A. with high honor '82, Wheaton College; M.A. '84, University of Wisconsin. Degree: Doctor of Philosophy, July '91. Major: Business Administration. Minor: Supporting Program. Thesis: Strategic Flexibility Responses to Perceived Environmental Uncertainties: Evidence from Central America and Panama. Major Adviser: Philip Bromiley

Matthew Barkalow Miller

B.S. with honor '79, Michigan State University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Soil Science. Minor: Supporting Program. Thesis: Eluvial Fragipans: Their Genesis and Differentiation. Major Advisers: Richard H. Rust and Terence H. Cooper

Thelma Mae Miller

B.S. '82, M.S. '86, Tuskegee Institute. Degree: Doctor of Philosophy, August '91. Major: Horticulture. Minor: Supporting Program. Thesis: The Influence of Postharvest Calcium DIP Treatment on Stored Broccoli. Major Adviser: Luther Waters, Jr.

Avelino Mills-Novoa, Flagstaff, Ariz.

B.A. '74, M.A. '81, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Is Level of Acculturation Related to Locus of Control and Explanatory Style? A Study of Biculturalism and Its Relationship to Locus of Control Orientation and Vulnerability to Learned Helplessness Among Native American Students. Major Adviser: John L. Romano

Byung-Jong Moon, Seoul, Korea

B.S.Eng. '81, Seoul National University; M.S. '83, Korea Advanced Institute of Science and Technology. Degree: Doctor of Philosophy, May '91. Major: Electrical Engineering. Minor: Physics. Thesis: Unified Field Effect Transistor Modeling and Characterization for Computer-Aided Design. Major Adviser: Michael Shur

Sister Jean Marie Moore, St. Paul

B.S. with distinction '75, University of Wisconsin; M.S. '77, Purdue University. Degree: Doctor of Philosophy, June '91. Major: Education. Minor: Supporting Program. Thesis: An Analysis of the Cultural Content of Post-Secondary Textbooks for Spanish: Evidence of Information Processing Strategies and Types of Learning in Reading Selections and Post-Reading Adjunct Questions. Major Adviser: Dale L. Lange

Aristidis Moustakas, Thessaloniki, Greece

Diploma '85, Aristotelian University of Thessaloniki. Degree: Doctor of Philosophy, June '91. Major: Genetics. Minor: Supporting Program. Thesis: Genetic Analysis of the Three Short Open Reading Frames of the Rous Sarcoma Virus Leader RNA Sequence. Major Adviser: Perry B. Hackett

Cynthia Lynn Mueller, Minneapolis

B.S. '82, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Microbiology. Minor: Supporting Program. Thesis: Glucosamine-Mediated Regulation of a Developmental Pathway that Leads to Lysis and Sporulation in Myxococcus xanthus. Major Adviser: Martin Dworkin

Bruce Howard Munson, Duluth

B.A. cum laude '70, Macalester College; M.S. '75, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Education. Minor: Supporting Program. Thesis: Relationships Between an Individual's Conceptual Ecology and the Individual's Conceptions of Ecology. Major Advisers: Fred N. Finley and Roger T. Johnson

Paul William Muyskens, Minneapolis

B.A. '84, Hope College. Degree: Doctor of Philosophy, June '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Impact of Temporal Factors on the Quantity and Quality of Instruction. Major Adviser: James E. Ysseldyke

Brave Rona Ndisale, Malawi

B.Soc.Sci. '81, University of Malawi; M.S. '85, University of Florida. Degree: Doctor of Philosophy, July '91. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: The Impact of Structural Adjustment Policies on Rural Households in Malawi. Major Adviser: Terry L. Roe

Scott Edward Nelson, Lanark, Ill.

B.A. '85, Illinois Wesleyan University. Degree: Doctor of Philosophy, July '91. Major: Biochemistry. Minor: Supporting Program. Thesis: Embryonic and Adult Acetylcholine Receptor and Myasthenia Gravis Pathogenesis. Major Adviser: Bianca M. Conti-Tronconi

Paul Stanley Newman, St. Paul

B.S. '72, M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Theatre Arts. Minor: Supporting Program. Thesis: Careers in Contrast: The Managerial Practices of L. N. Scott and Theo Hays and Their Influence on Twin Cities Entertainment: 1890-1929. Major Adviser: Wendell Josal

Lois Elizabeth Norem, Minneapolis

B.A. summa cum laude '74, Luther College; M.A. '77, University of Oregon. Degree: Doctor of Philosophy, June '91. Major: English. Minor: Supporting Program. Thesis: The Spurious Links of Chaucer's Canterbury Tales: Texts and Contexts. Major Adviser: Calvin B. Kendall

Sylvia Byington Nosworthy, College Place, Wash.

B.A. '67, M.A. '69, Andrews University. Degree: Doctor of Philosophy, August '91. Major: Education. Minor: Supporting Program. Thesis: The Role of Religion in Children's Realistic Fiction. Major Adviser: R. Norine Odland

Maureen Anne O'Brien, Boston, Mass.

B.A. '83, Brown University. Degree: Doctor of Philosophy, July '91. Major: Child Psychology. Minor: Supporting Program. Thesis: Parental Awareness: An Examination of the Construct in a Low-SES Intervention Sample. Major Adviser: Byron Egeland

Steven Arthur Olson, New Brighton

B.C.E. with distinction '85, M.S.C.E. '89, University of Minnesota. Degree: Doctor of Philosophy, April '91. Major: Civil Engineering. Minor: Supporting Program. Thesis: Impact Damage and Repair of Aashto Type III Girders. Major Adviser: Catherine E. French

Linda Christine Orozco, Newport Beach, Calif.

B.A. '74, Whittier College; M.A. '82, California State University. Degree: Doctor of Philosophy, July '91. Major: Educational Administration. Minor: Supporting Program. Thesis: State Telecommunications Policy: Purpose, Design, and Development. Major Advisers: William M. Ammentorp and Caroline Turner

Joan Caryl Ostergren, St. Paul

B.A. '81, Carleton College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Relationships Among English Performance, Self-Efficacy, Anxiety, and Depression for Hmong Refugees. Major Adviser: Patricia R. McCarthy

Mary Susan Pampusch, St. Paul

B.S. '70, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Cell and Developmental Biology. Minor: Biochemistry. Thesis: Inhibition of Myogenic Cell Proliferation by TGF-Beta and a Partially Purified Porcine Serum-Borne Factor. Major Adviser: William R. Dayton

Vudhichai Parasuk, Bangkok, Thailand

B.Sc. '86, Chulalongkorn University. Degree: Doctor of Philosophy, July '91. Major: Chemistry. Minor: Supporting Program. Thesis: Electronic and Molecular Structures of Medium-Sized Carbon Clusters. Major Adviser: Jan Almlöf

Nandakishore Parchuri, Peteru, Ap State, India

M.V.Sc. '82, Andhra Pradesh Agricultural University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, May '91. Major: Theriogenology. Minor: Animal Science. Thesis: Influence of Genetics and Sex on Plasma Growth Hormone in Holstein Cattle to One Year of Age. Major Adviser: Bo G. Crabo

Edward Elbert Parsonage, Mount Vernon, Ind.

B.S.Ch.E. with highest distinction '86, Purdue University. Degree: Doctor of Philosophy, September '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Adsorption Studies of Block Copolymers. Major Adviser: Matthew V. Tirrell

Gregory Joseph Pazour, Pukwana, S.D.

B.S. '86, B.S. '86, South Dakota State University. Degree: Doctor of Philosophy, May '91. Major: Biochemistry. Minor: Supporting Program. Thesis: Regulation of the Virulence Genes of *Agrobacterium tumefaciens*. Major Advisers: Anath Das and James A. Fuchs

Jonathan Cooper Pershing

B.A. '81, Queens College. Degree: Doctor of Philosophy, April '91. Major: Geology. Minor: Supporting Program. Thesis: Paleostress Analysis of Fault Populations: Numerical Test and Application to the West Spitsbergen Orogen. Major Advisers: Peter J. Hudleston and Christian P. Teyssier

Tasneem Pervez, Karachi, Pakistan

B.Eng. '85, N.E.D. University of Engineering and Technology; M.S.M.E. '88, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Transient Dynamic, Damping and an Elastoplastic Analysis of Anisotropic Laminated Composite Plates Using a Refined Plate Theory. Major Adviser: Nicholas J. Zabaras

David Lee Petersen, Roseville

B.S. '76, University of Wisconsin; M.S. Geo-E. '78, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Geo-Engineering. Minor: Supporting Program. Thesis: A Hybrid Numerical Model for Seam and Vein Mining Problems. Major Adviser: Steven L. Crouch

Maria Polikandritou, Greece

Diploma '80, National University of Athens; M.S. '83, University of Cincinnati. Degree: Doctor of Philosophy, May '91. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Interaction of Cyclosporin A with Liposomes and Lipid Membranes. Major Adviser: Yueh-Erh Rahman

Douglas Eugene Polley

A.B. '67, Whitman College; M.A. '71, M.A. '73, University of Minnesota. Degree: Doctor of Philosophy, April '91. Major: Business Administration. Minor: Supporting Program. Thesis: Persistence and Decision Structures: An Experimental Analysis. Major Adviser: Andrew H. Vandeven

Kayla Marie Polzin, Glencoe

B.A. summa cum laude '83, Augsburg College; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Microbiology. Minor: Supporting Program. Thesis: Insertion Sequences, Plasmid Replication, Plasmid Stability, and Integration Vectors in Lactococci. Major Adviser: Larry L. McKay

Janice E. Post-White, Minneapolis

B.S.N. with high honors '79, University of Illinois; M.S. '83, Rush University. Degree: Doctor of Philosophy, September '91. Major: Nursing. Minor: Pathobiology. Thesis: The Effects of Mental Imagery on Emotions, Immune Function and Cancer Outcome. Major Adviser: Sue K. Donaldson

Peter Everett Price Jr., Minneapolis

B.S. Chem.E. '83, Tufts University. Degree: Doctor of Philosophy, May '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Bifurcation Behavior in Laser Direct-Write Metallization from Thin Films. Major Adviser: Klavs F. Jensen

Julienne Prineas

B.A. '80, B.S. '80, M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: English. Minor: Supporting Program. Thesis: The Indigenous Writer: A Study of Nonfluent Writers Among Academically Capable Upper Division College Students. Major Adviser: Lillian S. Bridwell-Bowles

Lynne Ann Quinn, Des Moines, Iowa

B.S. '79, M.S. '87, Iowa State University of Science and Technology. Degree: Doctor of Philosophy, June '91. Major: Food Science. Minor: Supporting Program. Thesis: Physico-Chemical Properties of Chemically Modified Starches During Heating. Major Adviser: Eugenia A. Davis

Vathsala Rajagopal, Bangalore, India

M.Sc. '85, University of Mysore; M.Sc.(Eng.) '88, Indian Institute of Science. Degree: Doctor of Philosophy, May '91. Major: Mineral Engineering. Minor: Supporting Program. Thesis: The Effect of Chromium on the Abrasive and Corrosive Wear of Cast Iron Grinding Media. Major Adviser: Iwao Iwasaki

T. Ramakrishnan, Palladam, TN, India.

B.Eng '82, Birla Institute of Technology and Science, Pilani; M.Eng. Indian Institute of Science, Bangalore. Degree: Doctor of Philosophy, June '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Fast Fault Simulation and Compact Test Generation. Major Adviser: Larry L. Kinney

Janet Ross Reddy, Columbia, S.C.

A.B. '65, Grove City College. Degree: Doctor of Philosophy, May '91. Major: Psychology. Minor: Supporting Program. Thesis: Some Personality Correlates of Job Dissatisfaction. Major Adviser: Rene V. Dawis

P. Ravinder Reddy, Hyderabad, India

B.Sc.(Ag) '80, Mahatma Phule Krishi Vidyapeeth Agricultural University. Degree: Doctor of Philosophy, September '91. Major: Food Science. Minor: Supporting Program. Thesis: Rheological Properties and Phase Transitions of Starch-Water Systems During Gelatinization at Atmospheric and Elevated Pressures. Major Adviser: William M. Breene

Mary JoAn Reef

B.A. '72, Purdue University; M.S. '81, Mankato State University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Sociology. Minor: Supporting Program. Thesis: The Relationship of Adolescent Friendship Networks to Dimensions of Autonomy. Major Adviser: David Knoke

Paulette Marie Reikowski, Apple Valley

B.S. '71, M.S. '78, Wisconsin State University. Degree: Doctor of Philosophy, August '91. Major: Educational Administration. Minor: Supporting Program. Thesis: Secondary School Student Involvement: A Study of Involvement Patterns and the Prediction of Those Patterns. Major Adviser: William M. Ammentorp

Fernando Leiva Reitich, Buenos Aires, Argentina

Licenciado '85, Universidad de Buenos Aires. Degree: Doctor of Philosophy, June '91. Major: Mathematics. Minor: Supporting Program. Thesis: Topics in Free Boundary Problems and Phase Transitions. Major Adviser: Avner Friedman

Katherine Allison Retan

B.A. magna cum laude '81, Amherst College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: English. Minor: Supporting Program. Thesis: Opening the Floodgates: The Construction and Transgression of Gender and Class Boundaries in the Novels of Charlotte Bronte, Charles Dickens, and Elizabeth Gaskell. Major Adviser: Gordon D. Hirsch

Susan Marie Reutzel, Winona

B.S. '87, Winona State University. Degree: Doctor of Philosophy, July '91. Major: Chemistry. Minor: Supporting Program. Thesis: Hydrogen-Bonded Imide Aggregates: Solid-State Design, Preparation, and Characterization by Solid-State NMR. Major Adviser: Margaret C. Etter

Mark Thomas Richardson, Minneapolis

B.A. '80, California State University; M.A. '83, University of California. Degree: Doctor of Philosophy, August '91. Major: Kinesiology. Minor: Supporting Program. Thesis: Evaluation of the Minnesota Leisure Time Physical Activity Questionnaire. Major Adviser: Robert C. Serfass

Kathleen Mary Riesterer, Madison, Wis.

B.S. '83, University of Wisconsin. Degree: Doctor of Philosophy, May '91. Major: Food Science. Minor: Supporting Program. Thesis: Microbiological Interactions with Polysulfone Membranes Used in Dairy Product Processing. Major Adviser: Edmund A. Zottola

Robert Francis Roberts

B.S. '84, University of Vermont; M.S. '86, South Dakota State University. Degree: Doctor of Philosophy, June '91. Major: Food Science. Minor: Supporting Program. Thesis: Development of a Nisin-Producing Starter-Culture for Use During Cheddar Cheese Manufacture to Inhibit Spoilage in High Moisture Pasteurized Process Cheese Spreads. Major Adviser: Edmund A. Zottola

Richard John Roiger, Mankato

B.S. '70, M.S. '76, Mankato State University. Degree: Doctor of Philosophy, May '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Incremental Concept Formation in an Instructional Environment. Major Adviser: Maria Gini

Cristina Romero, Madrid, Spain

Licenciatura '85, Universidad Autonoma de Madrid; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Mathematics. Minor: Supporting Program. Thesis: Potential Theory for the Kohn Laplacian on the Heisenberg Group. Major Adviser: Max A. Jodeit, Jr.

Nestor Adrian Rotstein, Bahia Blanca, Argentina

Degree: Doctor of Philosophy, August '91. Major: Chemistry. Minor: Supporting Program. Thesis: Dynamics of Entangled Polymer Systems. Major Adviser: Timothy P. Lodge

Wilma Jean Ruffin, Lisman, Alabama

B.S. '72, Alabama Agricultural and Mechanical College; M.S. '82, University of Alabama. Degree: Doctor of Philosophy, June '91. Major: Family Social Science. Minor: Supporting Program. Thesis: Paternal Involvement of Divorced Fathers Related to Marital Status, Custody Arrangements, and Beliefs About the Amount of Child Support Paid. Major Adviser: Kathryn D. Rettig

Nicholas Jon Ruiz, South St. Paul

B.A. '80, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Psychology. Minor: Supporting Program. Thesis: Flexibility and Job Satisfaction. Major Adviser: Jo-Ida C. Hansen

Andrzej Rusewicz, Bialystok, Poland

B.Math. '85, University of Minnesota. Degree: Doctor of Philosophy, May '91. Major: Mathematics. Minor: Supporting Program. Thesis: Extending Reasonable Ideals to Countably Saturated Ideals on Small Algebras of Sets. Major Adviser: Karel L. Prikry

Peter James Saccoccia, Bridgewater, Mass.

A.B. summa cum laude '84, Colby College; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Geology. Minor: Supporting Program. Thesis: An Experimental Study of Chlorite-Fluid Equilibria at Elevated Temperatures and Pressures with Application to Sub-seafloor Hydrothermal Processes. Major Adviser: William E. Seyfried

Roland Bernard Saeger

B.S.Chem.E. '82, M.S.Chem.E. '85, University of Calgary. Degree: Doctor of Philosophy, June '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Equilibrium and Transport Processes in Periodic Microstructures. Major Advisers: H. Ted Davis and L. E. Scriven

Hassan Sahouani, St. Paul

Diplome d'Ingenieur '80, Ingenieur d'Etat '82, Institut Agronomique et Veterinaire Hassan II. Degree: Doctor of Philosophy, July '91. Major: Chemistry. Minor: Supporting Program. Thesis: Effect of Solvent Quality on the Relaxation of a Single Polymer Chain. Major Adviser: Timothy P. Lodge

Edward Yoshiaki Sako, Minneapolis

B.A. '78, M.D. '82, University of Minnesota. Degree: Doctor of Philosophy in Surgery, April '91. Major: Surgery. Minor: Supporting Program. Thesis: Myocardial Adenosine Triphosphate Metabolism Following Ischemia. Major Adviser: John E. Foker

Angel Sanchez

M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Hispanic and Luso-Brazilian Literatures. Minor: Supporting Program. Thesis: Historia y Representacion: La Ficción del Rey Don Pedro de Castilla (Siglos XIV-XVII). Major Adviser: Nicholas Spadaccini

Mark Patrick Sand, St. Paul

B.A. summa cum laude '80, Drake University; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Mathematics. Minor: Supporting Program. Thesis: The Structure of the Inverse of Layer Potential Operators. Major Adviser: Eugene B. Fabes

Prabhu Sathyamurthy, India

M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Development and Evaluation of Efficient Solution Procedures for Fluid Flow and Heat Transfer Problems in Complex Geometries. Major Adviser: Suhas V. Patankar

Martine Sauret, Paris, France

Licence '80, Universite de la Sorbonne Nourle (Paris III); M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: French. Minor: Supporting Program. Thesis: Les Delits du Corps dans Gargantua de Rabelais. Major Adviser: Tom C. Conley

John William Sayer, LaCrosse, Wis.

B.S. '66, University of Wisconsin; J.D. '70, University of Houston; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: History. Minor: Supporting Program. Thesis: Social Movements in the Courtroom: The Wounded Knee Trials, 1973-1975. Major Adviser: Paul L. Murphy

Maria Ann Scannapieco, Wayne, Pa.

B.S. '80, California State College; M.S.W. '84, Temple University. Degree: Doctor of Philosophy, July '91. Major: Social Work. Minor: Supporting Program. Thesis: Family-Centered, Home-Based Services: Impact of Client Characteristics on Program Outcomes. Major Adviser: Ronald H. Rooney

Jacqueline Ann Schakel, Anchorage, Alaska

B.A. with honor '74, Michigan State University; M.S. '77, University of Oregon. Degree: Doctor of Philosophy, June '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Predicting Individual Differences in Early School Persistence. Major Adviser: James E. Ysseldyke

Constance Crawford Schmitz, Minneapolis

B.A. '72, Bennington College; M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Assessing the Validity of Higher Education Indicators. Major Adviser: Wayne W. Welch

Deborah Susan Schnur, Massapequa, N.Y.

B.S. cum laude '82, Rensselaer Polytechnic Institute; M.S. '84, Northwestern University. Degree: Doctor of Philosophy, September '91. Major: Mechanical Engineering. Minor: Mechanics. Thesis: Numerical Solution of Some Inverse Problems in Solid Mechanics. Major Advisers: Nicholas J. Zabaraz and Darrell A. Frohrib

Dorothy Joan Scholtz, Mound

B.S. '79, St. Cloud State University; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Education. Minor: Supporting Program. Thesis: Beliefs About Teacher Role and the Implications for Studies in the Social and Philosophical Foundations of Education. Major Adviser: Robert H. Beck

April Rose Schultz, Fullerton, Calif.

B.A. with high honors '85, California State University; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: American Studies. Thesis: "A Peculiar People": Celebration, Historical Memory, and the Creation of Ethnic Identity Among Norwegian Americans in the 1920s. Major Advisers: David W. Noble and George Lipsitz

Robert Troger Schultz, Los Angeles, Calif.

B.A. '84, California State University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: History. Minor: American Studies. Thesis: Beyond the Fall: Class Conflict and Social, Cultural, and Political Change, Minnesota, 1916-1935. Major Adviser: David W. Noble

Ronald Henry Schultz, Lake Norden, S.D.

B.S. '64, General Beadle State Teachers College; M.Ed. '84, South Dakota State University. Degree: Doctor of Philosophy, August '91. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationship of Applicant Variables to Hiring Decisions of Overseas Administrators. Major Advisers: Gary F. Alkire and William M. Ammentorp

Elizabeth May Scott, Lithonia, Ga.

A.B. magna cum laude '80, University of Georgia; M.A. '84, University of Florida. Degree: Doctor of Philosophy, May '91. Major: Anthropology. Minor: Supporting Program. Thesis: "Such Diet as Befitted his Station as Clerk:" The Archaeology of Subsistence and Cultural Diversity at Fort Michilimackinac, 1761-1781. Major Adviser: Janet D. Spector

Eric Allyn Selbin

B.A. with honors '80, University of Texas; M.A. '84, Louisiana State University. Degree: Doctor of Philosophy, August '91. Major: Political Science. Minor: Supporting Program. Thesis: Societal Transformation in Social Revolutions: The Consolidation of the Nicaraguan Revolution. Major Advisers: Brian L. Job and Kathryn A. Sikkink

Jin Keun Seo, Korea

B.S. '85, Yonsei University; M.S. '91, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Mathematics. Minor: Supporting Program. Thesis: Regularity for Solutions of Transmission Problems Across Internal Lipschitz Boundary. Major Adviser: Eugene B. Fabes

Timo Olavi Seppalainen, Finland

M.S. '86, Helsinki University of Technology. Degree: Doctor of Philosophy, June '91. Major: Mathematics. Minor: Supporting Program. Thesis: Large Deviations for Processes with Stationarily Random Distributions. Major Adviser: Steven Orey

Galen Raymond Sevcik, Northfield

B.A. '75, Carleton College; M.B.A. '81, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Business Administration. Minor: Supporting Program. Thesis: The Behavior of Market Makers in Settings with Different Levels of Asymmetric Information: An Experimental Test. Major Adviser: John W. Dickhaut

Ehwen Monica Shaw, Taiwan

B.S. '78, National Taiwan University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Animal Science. Minor: Supporting Program. Thesis: Chicken Chromosome Analysis: Location of Cloned Genes. Major Adviser: Robert N. Shoffner

Nancy Lynne Shoemaker

B.A. '80, Wellesley College; M.A. '83, New York University. Degree: Doctor of Philosophy, May '91. Major: History. Minor: Supporting Program. Thesis: The American Indian Recovery: Demography and the Family, 1900-1980. Major Adviser: Russell R. Menard

Ruth Ann Short, Escanaba, Mich.

B.S. cum laude '78, M.A. '84, Northern Michigan University. Degree: Doctor of Philosophy, July '91. Major: Education. Minor: Supporting Program. Thesis: Teachers' Growth, Change, and Perceptions Over Two Years of Implementing a Literature-Based Reading Program. Major Advisers: Robert Dykstra and Barbara M. Taylor

Linda D. Silber, Los Angeles, Calif.

B.A. '79, Evergreen State College; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Sociology. Minor: Feminist Studies. Thesis: Dykes With Tykes: Becoming a Lesbian Mother. Major Adviser: Gary A. Fine

Jane M. Silverman, Irvington, N.Y.

B.S. cum laude '74, Boston University; M.A. '75, University of Denver. Degree: Doctor of Philosophy, August '91. Major: Sociology. Minor: Supporting Program. Thesis: Marital Quality: A Dyadic Perspective. Major Adviser: Jeylan T. Mortimer

Sivanand Simanapalli

B.E. '84, Bangalore University; M.E. '86, Indian Institute of Science, Bangalore. Degree: Doctor of Philosophy, July '91. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Focusing Filters for Wideband Array Processing. Major Adviser: Mostafa Kaveh

Jerry Kay Simon, Təkoa, Wash.

B.S. Ag.Ed. '78, M.S. '82, Washington State University. Degree: Doctor of Philosophy, May '91. 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: Edgar A. Persons and George W. Wardlow

Pushpendra Singh, Delhi, India

B.Tech. '85, Indian Institute of Technology, Kanpur; M.S. Aero.E. '89, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Aerospace Engineering. Minor: Supporting Program. Thesis: Studies in Two-Phase Solid-Liquid Flows. Major Adviser: Daniel D. Joseph

Carol Lynn Skay, Minneapolis

B.A. '81, Northwestern College. Degree: Doctor of Philosophy, June '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Multidimensional Scaling in the Statistical Control of Halo. Major Advisers: James S. Terwilliger and Mark L. Davison

Warren Randall Smith

B.S. '82, Purdue University; M.S. '85, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Local Area Network Traffic: Characteristics and Effects. Major Adviser: Richard Y. Kain

Victoria Ann Snyder, Brooklyn Center

B.E.S. '78, St. Cloud State University; M.S. '82, University of Wisconsin. Degree: Doctor of Philosophy, May '91. Major: Educational Administration. Minor: Supporting Program. Thesis: Adaptive Behavior and Student Mobility: A Study of Elementary School Populations. Major Adviser: William M. Ammentorp

Janet Laurie Sobell, Rochester

B.S. '75, University of Maryland; M.S. '82, Georgetown University. Degree: Doctor of Philosophy, April '91. Major: Epidemiology. Minor: Supporting Program. Thesis: Schizophrenia and Heterozygosity for Phenylketonuria. Major Adviser: Ronald Prineas

Montree Socratyanurak

B.A. '77, Thammasat University; M.S. '80, National Institute of Development Administration; M.A. '91, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: An Economic Analysis of Resource Productivity in a Newly Industrialized Country: Thailand. Major Adviser: Willis L. Peterson

Mehmet Sofuoglu

M.D. '84, Hacettepe University. Degree: Doctor of Philosophy, August '91. Major: Pharmacology. Minor: Supporting Program. Thesis: Pharmacological Characterization of Delta Opioid Receptor Subtypes. Major Adviser: Akira E. Takemori

Sandra Faye Soltis, Rochester

B.S. '62, Moorhead State College; M.S. '80, Winona State University. Degree: Doctor of Philosophy, May '91. Major: Educational Administration. Minor: Supporting Program. Thesis: The Application and Enforcement of the Compulsory Attendance and Truancy Laws in Twelve Outstate Minnesota School Districts and Their Corresponding Court Systems. Major Adviser: Van Dyck Mueller

May H. Soong

B.S. '80, National Taiwan University; M.S. '83, University of Connecticut. Degree: Doctor of Philosophy, August '91. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Transport Properties of Drugs and Model Compounds Across the Human Nail. Major Adviser: Gilbert S. Banker

David Joseph Sousa, Seattle, Wash.

B.A. highest distinction '82, University of Rhode Island. Degree: Doctor of Philosophy, May '91. Major: Political Science. Minor: Supporting Program. Thesis: Union Politics in an Era of Decline. Major Adviser: Francis J. Sorauf, Jr.

Uma Sreenivasan, Bombay, India

Degree: Doctor of Philosophy, May '91. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Ketomethylene and Conformationally Constrained Analogues of L-Prolyl-L-Leucylglycinamide. Major Adviser: Rodney L. Johnson

Krishna Prakash Srivastava, Allahabad, India

B.S.Ag.Eng. '77, University of Allahabad; M.Tech. '79, Indian Institute of Technology Kharagpur. Degree: Doctor of Philosophy, August '91. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Modeling Soil-Water Flow in Shallow Fractured Limestone Overlaid by Soil. Major Adviser: John L. Nieber

Kurt Werner Stadtwald, Omaha, Neb.

B.A. summa cum laude '80, William Jewell College; M.A. '82, University of Nebraska. Degree: Doctor of Philosophy, May '91. Major: History. Minor: Supporting Program. Thesis: "When O Rome Will You Cease to Hiss?": The Image of the Pope in the Politics of German Humanism. Major Adviser: James D. Tracy

Joyce Elaine Stockton, New Brighton

B.A. cum laude '63, Macalester College; M.A. '67, University of Minnesota. Degree: Doctor of Philosophy, April '91. Major: Family Social Science. Minor: Supporting Program. Thesis: Circumplex Model and Families with an Emotionally Disturbed Child: A Multi-Method Evaluation. Major Advisers: David H. Olson and Daniel F. Detzner

Nalin Leelakantha Subasinghe, Sri Lanka

B.Sc. '84, University of Colombo. Degree: Doctor of Philosophy, April '91. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Synthesis of Peptidomimetic, Non-Peptidic and Conformationally Constrained Analogues of Acetyl-Aspartyl-Glutamic Acid as Inhibitors of NAALA Dipeptidase. Major Adviser: Rodney L. Johnson

Ruonan Sun, Beijing, People's Republic of China

B.Eng '82, Beijing Institute of Agricultural Mechanization; M.S.M.E. '87, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Oxidation of Soot Agglomerates in a Direct Injection Diesel Engine. Major Advisers: David B. Kittelson and Perry L. Blackshear

Erwin Sutanto, Bandung, Indonesia

Sarjana '86, Institut Teknologi Bandung. Degree: Doctor of Philosophy, April '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Liquid Distributions in Porous Media. Major Advisers: H. Ted Davis and L. E. Scriven

Charles Edward Swanson, Glastonbury, Conn.

B.S.Math. '83, B.S.Econ. '83, Massachusetts Institute of Technology. Degree: Doctor of Philosophy, July '91. Major: Economics. Minor: Supporting Program. Thesis: Models of Inflation: Stock Prices, Inflation and the Coexistence of Money with Long-Lived Assets and a Continuous Reputation in a Seigniorage Model. Major Advisers: Neil Wallace and Andrew McLennan

Diana Lee Swanson

B.A. '82, Amherst College. Degree: Doctor of Philosophy, July '91. Major: English. Minor: Feminist Studies. Thesis: Fathers and Female Authority: George Eliot and Virginia Woolf. Major Adviser: Toni A. H. McNaron

Scott Mitchell Swinton, New York, N.Y.

B.A. '78, Swarthmore College; M.S. '83, Cornell University. Degree: Doctor of Philosophy, July '91. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: A Bioeconomic Model for Weed Management in Corn and Soybean. Major Adviser: Robert Philip King

Swie Tsing Tan, Bandung, Indonesia

B.Comp.Sc. '85, M.S.E.E. '86, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Computer and Information Sciences. Minor: Electrical Engineering. Thesis: Distributed Processor Allocation for Hypercube Multiprocessors and Embedded Virtual Incomplete Hypercubes for High-Speed Optical Networks. Major Adviser: David H. Du

Pao-Luh Tao, Taipei, Taiwan

B.S. '72, National Taiwan University; M.S. '74, National Defense Medical Center. Degree: Doctor of Philosophy, July '91. Major: Pharmacology. Minor: Supporting Program. Thesis: Chronic Effects of Opioid Agonists on Opioid Receptors in Rat Brain. Major Adviser: Horace H. Loh

Erica Mary Tenbroek, St. Paul

B.A. summa cum laude '81, St. Olaf College; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, May '91. Major: Pathobiology. Minor: Cell and Developmental Biology. Thesis: Characterization of Membrane Proteins of Cultured Mammalian Lens Cells. Major Adviser: John W. Eaton

Gussie Jane Tessier, Lisle, Ill.

B.S. with high honors '82, B.S. '84, D.V.M. '86, University of Illinois. Degree: Doctor of Philosophy, June '91. Major: Veterinary Biology. Minor: Supporting Program. Thesis: Epithelial Modulation of Equine Airway Function. Major Adviser: Mahur S. Kannan

Juliann Jepson Thomas, Brooklyn Park

B.S. with high distinction '74. University of Minnesota; M.Hth.Ed. '82. Medical College of Georgia. Degree: Doctor of Philosophy, July '91. Major: Education. Minor: Supporting Program. Thesis: A Comparison of Two Patient Education Programs and Their Effects on Knowledge, Anxiety, and Self-Efficacy. Major Advisers: Reynold A. Willie and Harlan G. Copeland

Cynthia Jean Thomsen, Eugene, Ore.

B.A. '83, Pitzer College. Degree: Doctor of Philosophy, June '91. Major: Psychology. Minor: Supporting Program. Thesis: On the Automatic Activation of Racial Stereotypes and Prejudice. Major Adviser: Eugene Borgida

Mike David Tokach, St. Anthony, N.D.

B.S. '86, North Dakota State University; M.S. '88, Kansas State University. Degree: Doctor of Philosophy, April '91. Major: Animal Science. Minor: Animal Physiology. Thesis: Influence of Blood Metabolites and Metabolic Hormones on Milk Production and Reproduction in the Primiparous Sow. Major Adviser: James E. Pettigrew

Frank Jennings Treadwell, Sanibel Island, Fla.

B.S. with honor '82, Michigan State University; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, June '91. Major: Plant Breeding. Minor: Supporting Program. Thesis: Breeding for Resistance to Verticillium Wilt in Potato. Major Advisers: Florian I. Lauer and Neil A. Anderson

Ioana Alexandra Triandaf, Minneapolis

M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Mathematics. Minor: Supporting Program. Thesis: A Finite Element Method for Numerically Solving the Semiconductor Device Equations. Major Adviser: J. Bernardo Cockburn

Jeanette Elaine Truchsess, St. Paul

B.S. '69, College of St. Teresa; M.S.N. '72, University of Pennsylvania. Degree: Doctor of Philosophy, June '91. Major: Family Social Science. Minor: Supporting Program. Thesis: Family Sexual Abuse: Correlations Between Sexual Abuse, Interventions, and Victim and Family Status. Major Adviser: James W. Maddock

Tsing-luan Tsay, Taipei, Taiwan

B.S. '84, National Cheng Kung University; M.S.M.E. '88, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Design Framework for Telerobotic Control. Major Adviser: Homayoon Kazerooni

William Anthony Turk, Little Falls

B.S. '72, Marquette University; M.S. '81, St. Cloud State University. Degree: Doctor of Philosophy, August '91. Major: Educational Administration. Minor: Supporting Program. Thesis: An Investigation of the Job of the Secondary School Assistant Principal in Minnesota Public Schools. Major Adviser: Neal C. Nickerson

Scott Nicholas Twary, Winchester, Va.

B.S.Agr. cum laude '84, Ohio State University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, May '91. Major: Agronomy. Minor: Plant Physiology. Thesis: Regulation of Carbon and Nitrogen Assimilatory Enzymes in Alfalfa Root Nodules. Major Adviser: Carroll P. Vance

Evstratios Vandris, Thessaloniki, Greece

B.S. with honors '85, University of Sussex; M.S.E.E. '88, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Switch-Level Fault Simulation of MOS VLSI Circuits. Major Adviser: Gerald E. Sobelman

Sarah Anne Veldman, Coldwater, Mich.

B.S. '85, Hope College. Degree: Doctor of Philosophy, August '91. Major: Biochemistry. Minor: Supporting Program. Thesis: Protein Synthesis Elongation Factor 2: Transcriptional Regulation and Post Translational Modification. Major Adviser: James W. Bodley

Alexandra Caroline Vincent, Pocatello, Idaho

B.A. cum laude '84, Carleton College. Degree: Doctor of Philosophy, June '91. Major: Genetics. Minor: Supporting Program. Thesis: Development of Molecular Probes to the Glucagon Receptor: Monoclonal Antibodies and a Putative cDNA Clone. Major Adviser: Victoria Iwanij

Anu Irinja Virkkunen, Helsinki, Finland

Kandidaati '69, Fil.Kand. '72, University of Helsinki. Degree: Doctor of Philosophy, July '91. Major: Education. Minor: Supporting Program. Thesis: Affixation as Part of an English Reading Proficiency Test at the University of Helsinki. Major Adviser: Dale L. Lange

Kristin Sawin Vonnegut, Indianapolis, Ind.

B.A. with distinction '84, Indiana University; M.A. '88, University of Wisconsin. Degree: Doctor of Philosophy, September '91. Major: Speech-Communication. Minor: Supporting Program. Thesis: "If You Would Have Freedom, Strike for It": Sarah Moore Grimke's Struggle for the Rights of Woman. Major Adviser: Karlyn K. Campbell

Christopher Ross Wagner, Cloquet

B.A. '63, Augsburg College; M.A. '70, Michigan State University. Degree: Doctor of Philosophy, June '91. Major: Educational Administration. Minor: Supporting Program. Thesis: Mentoring and Job Satisfaction in Eleven Northeast Minnesota School Districts. Major Adviser: Neal C. Nickerson

Philip Kent Wagner, St. Paul

B.A. with distinction '77, University of Kansas; M.A. '83, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Geography. Minor: Supporting Program. Thesis: The Historical Geography of Apartment Housing in Minneapolis, Minnesota 1870 to 1930. Major Adviser: John S. Adams

Gilbert Creighton Walker, Baltimore, Md.

A.B. '85, Bowdoin College. Degree: Doctor of Philosophy, September '91. Major: Chemistry. Minor: Supporting Program. Thesis: Solvation Dynamics and Vibrational Excitations in Electron Transfer Reactions. Major Adviser: Paul F. Barbara

Monica Kay Wallace, Owatonna

B.S. '73, M.S. '78, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Plant Pathology. Minor: Soil Science. Thesis: Correlation of Edaphic Factors with Plant-Parasitic Nematode Populations. Major Adviser: David H. Macdonald

Robert Anton Walser

B.F.A. magna cum laude '83, M.M. '85, M.A. '88, D.M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, May '91. Major: Music. Minor: Supporting Program. Thesis: Running with the Devil: Power, Gender, and Madness in Heavy Metal Music. Major Advisers: Susan K. McClary and George Lipsitz

Jichun Wan, Nanjing, People's Republic of China

B.S. '84, Nanjing University. Degree: Doctor of Philosophy, May '91. Major: Physics. Minor: Supporting Program. Thesis: Investigations of Charging Effects and High-Tc Superconductivity with Low Temperature Scanning Tunneling Microscopy. Major Adviser: Allen M. Goldman

Mark J. Weber

B.A. '75, University of Notre Dame; J.D. '78, M.B.A. '82, University of Wisconsin. Degree: Doctor of Philosophy, September '91. Major: Business Administration. Minor: Supporting Program. Thesis: Predicting Outcomes for Distressed Firms. Major Adviser: Alfred A. Marcus

Shifeng Wei, Beijing, People's Republic of China

B.S. '82, Beijing Medical College. Degree: Doctor of Philosophy, July '91. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Preparation and Physical/Mechanical Evaluation of New Low Crystallinity Forms of Cellulose as Pharmaceutical Excipients. Major Adviser: Gilbert S. Banker

Xiaohua Wei, Nanjing, People's Republic of China

B.S. '82, Nanjing Agricultural College. Degree: Doctor of Philosophy, April '91. Major: Pathobiology. Minor: Supporting Program. Thesis: Expression of the Non-HLA-A,-B,-C Class I Genes. Major Adviser: Harry T. Orr

Thomas Jonathan Weko, Toledo, Ohio

B.A. with distinction '78, M.A. '82, Pennsylvania State University. Degree: Doctor of Philosophy, April '91. Major: Political Science. Minor: Supporting Program. Thesis: "'A Good Man is Hard to Find': Presidents and Their Political Executives.". Major Adviser: John H. Aldrich

John Dunning Wenstrom, St. Paul

B.A. '75, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: English. Minor: Supporting Program. Thesis: Modernist Irony: Frost, Eliot. Major Adviser: Michael Hancher

Donna Rae White, Russellville, Ark.

B.A. with highest honors '76, Arkansas Polytechnic College; M.A. '83, University of Texas. Degree: Doctor of Philosophy, August '91. Major: English. Minor: Supporting Program. Thesis: The Mabinogi in Children's Literature: Welsh Legends in English-Language Children's Books. Major Adviser: John L. Mitchell

Kelly Reid Whiting, Mount Zion, Ill.

B.S. '83, Brigham Young University; M.S. '85, University of Minnesota. Degree: Doctor of Philosophy, September '91. Major: Agronomy. Minor: Supporting Program. Thesis: Host-Specific Pathogens and the Corn/Soybean Rotation Effect. Major Adviser: R. Kent Crookston

Arthur Michael Wiese, Portland, Ore.

B.A. '75, University of Oregon. Degree: Doctor of Philosophy, April '91. Major: Agricultural and Applied Economics. Minor: Statistics. Thesis: An Analysis of Land Use Change at the Rural-Urban Fringe: A Theoretical and Empirical Treatment. Major Advisers: Wesley B. Sundquist and Theodore D. Graham-Tomasi

Barbara M. Lass Withrow, Mankato

B.A. summa cum laude '78, University of South Dakota; M.A. '80, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Anthropology. Minor: Supporting Program. Thesis: Prehistoric Production, Distribution, and Use of Stone Adzes: Implications for the Development of Hawaiian Chiefdoms. Major Adviser: Christine A. Hastorf

Nancy Elann Witowski, Edina

B.S. magna cum laude '72, Wisconsin State University. Degree: Doctor of Philosophy, August '91. Major: Chemistry. Minor: Supporting Program. Thesis: I. Metal Ion Binding Capacity as a Function of the Stereochemistry of Stereoregular 2,5-Linked Oligotetrahydrofurans. II. Omega-Phenylalkylsilylethers as Proton NMR Spectroscopic Probes for Long Chain Alkanols. Major Adviser: Thomas R. Hoyer

Ruth Ann Pirsig Wood

B.A. magna cum laude '67, Wartburg College; M.A. '69, Bowling Green State University. Degree: Doctor of Philosophy, July '91. Major: English. Minor: Supporting Program. Thesis: A Challenge to Highbrow Hegemony: A Study of Highbrow, Middlebrow, and Lowbrow American Novels of the Nineteen Fifties. Major Adviser: Kent R. Bales

Joseph William Wotruba, Duluth

B.A. '75, M.A. '77, University of Minnesota. Degree: Doctor of Philosophy, April '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Alternate Explanations for Differences in Academic Engaged Time and Academic Responding Time. Major Advisers: James E. Ysseldyke and Sandra L. Christenson

Elizabeth Fregeau Wu, Ann Arbor, Mich.

A.B. '82, Cornell University; M.S. '85, Pennsylvania State University. Degree: Doctor of Philosophy, June '91. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Grain Growth and Liberation Characteristics of Steelmaking Slags: Implications for Phosphorus Removal. Major Adviser: Iwao Iwasaki

Zhixin Xu, Xian, People's Republic of China

M.S.M.E. '85, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Study of Virtual Impactor. Major Advisers: Benjamin Y. H. Liu and Virgil A. Marple

Guo-Liang Xue, People's Republic of China

B.S. '82, M.S. '85, Qufu Teachers University. Degree: Doctor of Philosophy, June '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Algorithms for Computing Extreme Points of Convex Hulls and the Euclidean Facilities Location Problem. Major Adviser: J. Ben Rosen

Guo-Ben Yang, Shaoxing, People's Republic of China

M.S. '84, Oklahoma State University. Degree: Doctor of Philosophy, September '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Delayed Adaptive Inverse Method for End Point Motion Control of Flexible Beams. Major Adviser: Max Donath

Sungjoo Yoon, Seoul, Korea

B.S. '82, M.S. '84, Yonsei University. Degree: Doctor of Philosophy, April '91. Major: Genetics. Minor: Supporting Program. Thesis: Study on Selection of Transgenic Goldfish. Major Advisers: Kevin S. Guise and Perry B. Hackett

Catherine Anne Zabinski, Ely

B.A. magna cum laude '83, College of St. Benedict. Degree: Doctor of Philosophy, September '91. Major: Ecology. Minor: Botany. Thesis: Genetic Variation in *Tsuga canadensis* L. (Carr.) Across its Geographic Distribution. Major Adviser: Margaret B. Davis

Karen Rose Zachow, Milwaukee, Wis.

B.S. '79, University of Wisconsin. Degree: Doctor of Philosophy, August '91. Major: Microbiology. Minor: Supporting Program. Thesis: Regulation of HLA Class I Transcription in T Cells. Major Adviser: Harry T. Orr

Mohamed Zahar, Morocco

Diplome d'Ingenieur d'Application '80, Institut Agronomique et Veterinaire Hassan II; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, August '91. Major: Food Science. Minor: Supporting Program. Thesis: Distribution and Stability of Vitamin A, and Lipid-Serum Interface Composition in Milk. Major Adviser: David E. Smith

Amy Karen Zander, Minneapolis

B.S. '80, M.S.C.E. '88, University of Minnesota. Degree: Doctor of Philosophy, July '91. Major: Civil Engineering. Minor: Supporting Program. Thesis: Removal of Organic Contaminants from Water Using Microporous Hollow Fiber Membranes. Major Adviser: Michael J. Semmens

Chunlin Zhang, Shihezi, Xinjiang, People's Republic of China

B. Agriculture '82, Shihezi Agricultural College. Degree: Doctor of Philosophy, September '91. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Studies on Group II Avian Adenoviruses. Major Adviser: Kakambi V. Nagaraja

Junping Zou, Chengdu, Sichuan, People's Republic of China

B.S. '82, M.S. '85, Sichuan University. Degree: Doctor of Philosophy, April '91. Major: Electrical Engineering. Minor: Physics. Thesis: Dipole Heterostructure Field Effect Transistors. Major Adviser: Anand Gopinath

Degrees Pending

The following individuals had not completed all the requirements for their degrees as of September 30, 1991. Upon completion of degree requirements, graduates will be listed under "Degrees Awarded" in a subsequent

Graduate School commencement program. Degrees are listed as follows: professional master's degrees, master of science and master of arts degrees, specialist certificates, and doctoral degrees.

Professional Master's Degrees

Milosava Acamovic, Minneapolis

B.A. '81, University of Chicago. Degree: Master of Business Administration. Major: Business Administration.

Susan Rogers Adam, Roseville

B.M.E. with distinction '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Dana P. Allen

B.S. cum laude '75, State University of New York. Degree: Master of Business Administration. Major: Business Administration.

Steven James Aschburner, Edina

B.A. '78, Marquette University. Degree: Master of Business Administration. Major: Business Administration.

Karin K. Barrett, St. Paul

B.A. '85, College of St. Catherine. Degree: Master of Music. Major: Music.

Aloyce Roberts Berglund, Duluth

B.A. cum laude '84, College of St. Scholastica. Degree: Master of Social Work. Major: Social Work.

Richard John Berglund, Minneapolis

B.A. cum laude '81, Carleton College. Degree: Master of Business Administration. Major: Business Administration.

Brian Bennett Bird, St. Paul

B.B.A. '86, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Reeah Kyung Bloedow, Minneapolis

B.A. '88, Concordia College. Degree: Master of Social Work. Major: Social Work.

Susan Marie Brockman, Burnsville

B.S. '81, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Pauline K. Burthwick

B.S.S.W. summa cum laude '86, University of North Dakota. Degree: Master of Social Work. Major: Social Work.

Thora Lynn Cartledge, Winnipeg, Manitoba, Canada

B.A. '73, University of Winnipeg; M.A. '84, University of Regina. Degree: Master of Landscape Architecture. Major: Landscape Architecture.

James Ernest Engelking, St. Paul

B.S. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Colleen Susan Evans, Princeton

B.A. '73, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Dona Cecelia Evans

B.A. '80, Immaculate Heart College. Degree: Master of Social Work. Major: Social Work.

Therese Marie Everson

B.A. magna cum laude '86, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Cynthia Susan Fakler

B.S.W. '88, College of St. Teresa. Degree: Master of Social Work. Major: Social Work.

Chris A. Fischer

B.A. magna cum laude '85, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Wendy Jo Fong, Bloomington

B.S. '82, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Charles P. Geist, Burnsville

B.B. '75, Western Illinois University. Degree: Master of Business Administration. Major: Business Administration.

Joseph Brian Gilligan, Minneapolis

A.B. '85, College of the Holy Cross. Degree: Master of Business Administration. Major: Business Administration.

Ira Golden, Plymouth

B.A.E.M. '73, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Gregory James Gosch, Denver, Colo.

B.A. '89, University of Colorado. Degree: Master of Business Administration. Major: Business Administration.

Mary Catherine Greene, Minneapolis

B.S.B. '80, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Harald Grimsrud, Sarpsborg, Norway

Degree: Master of Music. Major: Music.

Kerstin Guhne

Magister '90, Albert-Ludwigs-Universitat. Degree: Master of Business Administration. Major: Business Administration.

Christopher Lee Hagen, Plymouth

B.S.M.E. '84, Northwestern University. Degree: Master of Business Administration. Major: Business Administration.

Michel Denis Halbaut, France

Dess '87, Universite de Rennes I. Degree: Master of Business Administration. Major: Business Administration.

Jeffrey Charles Hamilton, Minneapolis

B.M.E. '83, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Linda Jo Hammersten, Minneapolis

B.A. summa cum laude '88, Concordia College. Degree: Master of Social Work. Major: Social Work.

Eva Mae Hansum, Platte, S.D.

B.S.W. '87, Dordt College. Degree: Master of Social Work. Major: Social Work.

Paul Christopher Happe, St. Paul

B.B.A. with honors '89, University of Notre Dame. Degree: Master of Business Administration. Major: Business Administration.

Douglas Fredric Harbrecht, Minneapolis

B.S. with distinction '76, M.S. '78, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Shellyn Sarni Hazard, Maple Grove

B.S.C. '87, University of Santa Clara. Degree: Master of Business Administration. Major: Business Administration.

Huyen Thi Ho, St. Paul

B.S. '89, Mankato State University. Degree: Master of Social Work. Major: Social Work.

Sandra Marie Hoy, St. Louis Park

B.S. '82, Winona State University. Degree: Master of Business Administration. Major: Business Administration.

Chin-En Esther Huang

B.A. '88, Chinese Culture University. Degree: Master of Music. Major: Music.

Tenley Ann Ireland, Duluth

B.A. '81, Bethel College. Degree: Master of Social Work. Major: Social Work.

Douglas J. Jacobson

B.A. '84, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Andrew Robert Johnson, Oak Park, Ill.

B.M. '87, University of Arkansas. Degree: Master of Music. Major: Music.

Candis Wasson Johnson, Wayzata

B.S.S.W. '90, University of Alabama. Degree: Master of Social Work. Major: Social Work.

George Kalogerson

B.S. '71, Stout State University. Degree: Master of Business Administration. Major: Business Administration.

Ann Marilyn Kiloran, St. Cloud

B.A. '85, St. Cloud State University. Degree: Master of Social Work. Major: Social Work.

Melissa Marie Knofczynski, Marshall

B.A. '87, College of St. Benedict. Degree: Master of Social Work. Major: Social Work.

Christopher Richard Knowles, Stillwater

B.A. '78, Beloit College. Degree: Master of Business Administration. Major: Business Administration.

Heng Toh Kong, Singapore

B.S. '75, University of Singapore; M.S. '86, University of London. Degree: Master of Business Administration. Major: Business Administration.

Robin Kay Krier, Ashton, Iowa

B.S.B.A. with honors '85, University of South Dakota. Degree: Master of Business Administration. Major: Business Administration.

Ines Ladewig, Basel, Switzerland

Diplom '89, Musik-Akademie der Stadt Basel. Degree: Master of Music. Major: Music.

Jeffrey Lance Lafavre, Minneapolis

B.S. cum laude '86, Oral Roberts University. Degree: Master of Business Administration. Major: Business Administration.

Kari Merietta Larson, Osseo

B.A. cum laude '83, Gustavus Adolphus College. Degree: Master of Fine Arts. Major: Theatre Arts.

Elizabeth Ann Loudon

B.M. '85, University of Illinois. Degree: Master of Music. Major: Music.

Susan Sadloske Mahler, Brooklyn Park

B.S. with high distinction '68, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Anne Marie Marrie, St. Paul

B.A. '70, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Judith Lynn Miller, Prior Lake

B.B.A. with distinction '87, University of Iowa. Degree: Master of Business Administration. Major: Business Administration.

Kimberly Kay Mueller, Lakeville

B.A. summa cum laude '85, Hamline University. Degree: Master of Business Administration. Major: Business Administration.

David Edward Nelson, Minneapolis

B.S. '76, St. Cloud State College. Degree: Master of Business Administration. Major: Business Administration.

Hoai The Nguyen

B.A. '70, University of Saigon. Degree: Master of Social Work. Major: Social Work.

Dana Nitschke, Minneapolis

B.A. '83, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Randy Lawrence Nornes, Eden Prairie

B.I.S. magna cum laude '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Dale Roderick Olson, Hastings

B.A.S. '87, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Matthias Jon Pearson, Minneapolis

B.S. '86, John Brown University. Degree: Master of Architecture. Major: Architecture.

Leslie Ann Quigley, Minneapolis

B.A. cum laude '81, Augsburg College. Degree: Master of Business Administration. Major: Business Administration.

Susan Park Rani, St. Paul

B.C.E. '82, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Andrew J. Saboe, St. Paul

B.F.A. cum laude '81, Kent State University. Degree: Master of Fine Arts. Major: Theatre Arts.

Ann Marie Schilling, Menomonie, Wis.

B.B.A. magna cum laude '86, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Kerry Jon Severson, Red Wing

B.S.B. '80, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Wendy Ann Shavor, Eveleth

B.Comp.Sc. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

John Patrick Shepeck, Falcon Heights

B.E.E. '87, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Joseph D. Sweet, West Union, Iowa

B.A. cum laude '86, Luther College. Degree: Master of Business Administration. Major: Business Administration.

Leo Sylvester Toay, Maple Grove

B.S. '87, North Dakota State University. Degree: Master of Business Administration. Major: Business Administration.

Bee Vang

B.S. '88, St. Cloud State University. Degree: Master of Social Work. Major: Social Work.

Dianne Alison Wegscheid, Brooklyn Park

B.S.B. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Susan M. Wessin, Fountain City, Wis.

B.S. '87, University of Wisconsin. Degree: Master of Social Work. Major: Social Work.

Timothy Joseph Wiener

B.S. with high honors '80, Illinois Institute of Technology. Degree: Master of Business Administration. Major: Business Administration.

Nelson C. Williams

B.A. '87, University of Missouri. Degree: Master of Fine Arts. Major: Theatre Arts.

Kin-Chee Gigi Yau, St. Paul

B.S. '86, DePaul University. Degree: Master of Business Administration. Major: Business Administration.

Judith Yourman

B.F.A. with highest honors '81, Pratt Institute. Degree: Master of Fine Arts. Major: Studio Arts.

Timothy William Zosel, Minneapolis

B.S.B. with high distinction '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Professional Master's Degrees

University of Minnesota, Duluth

Phyllis Kathleen Cook, Duluth

B.S.W. '71, University of Kansas. Degree: Master of Social Work. Major: Social Work.

Shirley Ann Eichenwald, Duluth

B.S. magna cum laude '67, College of St. Scholastica. Degree: Master of Business Administration. Major: Business Administration.

Master of Science

Diane Ruth Achman, Avon

B.S. '88, St. Cloud State University. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Nataraj Akkiraju

M.C.A. '89, University of Hyderabad. Degree: Master of Science. Major: Computer and Information Sciences.

Joseph Francis Anelli, Woodbury

B.S. '77, St. Francis College; M.S. '83, Long Island University; D.V.M. '84, Gregorio Araneta University Foundation. Degree: Master of Science. Major: Veterinary Medicine.

Mark William Arriola, St. Paul

B.S. '86, Westminster College. Degree: Master of Science. Major: Chemistry.

David Wayne Baloga, St. Paul

B.S. '84, University of Minnesota. Degree: Master of Science. Major: Food Science.

Alan Patrick Berscheid, Grey Eagle

B.S. '88, North Dakota State University. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Joanell Ann W. Bohmert, Mahtomedi

B.S. '78, University of Minnesota. Degree: Master of Science. Major: Physical Therapy.

Susan Drummond Booth, Syracuse, N.Y.

B.S. cum laude '85, Yale University. Degree: Master of Science. Major: Wildlife Conservation.

Walter Ray Bowles

B.S.Pharm. '79, University of New Mexico; D.D.S. '85, University of Missouri. Degree: Master of Science. Major: Dentistry.

Mark Edward Brigham, Minneapolis

B.A. '88, University of Minnesota. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Tracey LeeAnne Britton, Columbus, Ohio

B.S. cum laude '89, Ohio State University. Degree: Master of Science. Major: Food Science.

Sergio Blancafort Calsamiglia, Barcelona, Spain

Licenciado en Veterinaria '88, Universidad Autonoma Barcelona. Degree: Master of Science. Major: Animal Science.

John Cancian, Hartford, Conn.

B.S. '90, University of Connecticut. Degree: Master of Science in Aerospace Engineering. Major: Aerospace Engineering.

Michelle Marie Cartier, North St. Paul

B.A. cum laude '89, College of St. Benedict. Degree: Master of Science. Major: Medicinal Chemistry.

Gregory Harlow Case, Burnsville

B.E.E. '88, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Jayesh Anand Chaudhary, Bombay, India

B.Pharm.Sci. '89, University of Bombay. Degree: Master of Science. Major: Microbial Engineering.

Runtian Chen, Guangzhou, People's Republic of China

B.S. '82, Zhongshan University. Degree: Master of Science. Major: Cell and Developmental Biology.

Lan Chiang, Taipei, Taiwan

B.S. '87, National Taiwan University. Degree: Master of Science. Major: Genetics.

Donald Scott Clark, Halifax, Nova Scotia, Canada

B.S. '82, D.D.S. '88, Dalhousie University. Degree: Master of Science. Major: Dentistry.

Dolores Ann Connoy

B.S. '71, Winona State College. Degree: Master of Science. Major: Nursing.

Mark H. Corpron, Chanhassen

B.M.E. with distinction '90, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Richard Allan Dahlman, Anoka

B.S. '70, University of Minnesota. Degree: Master of Science. Major: Forestry.

James Christopher Doubles

B.S. '87, University of Minnesota. Degree: Master of Science. Major: Botany.

Peter Daniel Engebretson, Minneapolis

B.A. '85, University of Minnesota. Degree: Master of Science. Major: Environmental Health.

Bruce Allan Evans, Rapid City, S.D.

B.L.S. cum laude '81, B.S. '82, M.D. '84, University of South Dakota; D.D.M. with honors '88, University of Florida. Degree: Master of Science. Major: Dentistry.

David Joseph Fang, Indianapolis, Ind.

B.A. with distinction '82, Indiana University. Degree: Master of Science in Otolaryngology. Major: Otolaryngology.

Rui Antonio Loja Fernandes, Lisbon, Portugal

Degree: Master of Science. Major: Mathematics.

Richard James Gessner

B.A.E.M. '89, University of Minnesota. Degree: Master of Science in Aerospace Engineering. Major: Aerospace Engineering.

Paul Timothy Gieser, Farmington

B.S. '87, University of Minnesota. Degree: Master of Science. Major: Microbial Engineering.

Geoffrey G. Griffin, Chatfield

B.S. '89, North Dakota State University. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Eric Holmes Grutzner, Madison, Wis.

B.S. '87, D.D.S. '89, University of Minnesota. Degree: Master of Science. Major: Dentistry.

Stefano Guido, Naples, Italy

Laurea '89, Universita degli Studi di Napoli. Degree: Master of Science in Chemical Engineering. Major: Chemical Engineering.

Lifeng Guo, Xinle, Hebei, People's Republic of China

B.Sc. '82, Lanzhou University. Degree: Master of Science. Major: Geology.

Byungho Han, Fridley

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Sangkyu Han

D.D.S. '82, Seoul National University; D.D.S. '89, University of Minnesota. Degree: Master of Science. Major: Dentistry.

Eric Joseph Hoffman, Oronoco

B.S. '90, North Dakota State University. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

John Raymond Hoffman, Long Lake

B.S. magna cum laude '87, Rose-Hulman Institute of Technology. Degree: Master of Science. Major: Mathematics.

Elizabeth Ellen Holton

B.S. '89, University of Illinois. Degree: Master of Science. Major: Food Science.

Patricia Ellen Hung, St. Paul

B.A. '82, College of St. Thomas. Degree: Master of Science. Major: Horticulture.

Kaye E. Jager, Eddyville, Iowa

B.A. with highest honors '89, University of Northern Iowa. Degree: Master of Science. Major: Food Science.

Luis Filipe Jardim, Oeiras, Portugal

Lic.Med.Dent. '88, University of Lisbon. Degree: Master of Science. Major: Dentistry.

Heekyoung Jo, Korea

D.D.S. '86, Seoul National University. Degree: Master of Science. Major: Dentistry.

Terry Mark Johnsen, Superior, Wis.

B.S. '81, University of Wisconsin. Degree: Master of Science. Major: Food Science.

Linda Ann Jorn, Minneapolis

B.A. magna cum laude '79, Luther College. Degree: Master of Science. Major: Technical Communication.

Piranit Kantaputra, Chiangmai, Thailand

D.D.S. '86, Chiang Mai University. Degree: Master of Science. Major: Dentistry.

Jong Ryeol Kim, Korea

B.C.E. '89, University of Minnesota. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Steven Mark Kittelson, Randolph

B.S. '76, Moorhead State University. Degree: Master of Science. Major: Wildlife Conservation.

Konstantinos Koutsoukos, Thessaloniki, Greece

Diploma '88, Aristotelio University of Thessaloniki. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Sandeep Kumar, Utter Pradesh, India

Degree: Master of Science. Major: Pharmaceutics.

Rita Ann Kuznia, Wells

B.S. '80, University of Minnesota. Degree: Master of Science. Major: Plant Pathology.

Thomas Raymond LaLiberte, Minneapolis

B.E.D. '87, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

James Thomas Landon, Mound

B.S.A.E. '90, University of Texas. Degree: Master of Science in Aerospace Engineering. Major: Aerospace Engineering.

Robert Glen Lerdahl, St. Paul

B.S.Bio.Med.Eng. '84, Northwestern University. Degree: Master of Science. Major: Biomedical Engineering.

Deborah Ann Loch, Minneapolis

B.S.Eng. '84, Marquette University. Degree: Master of Science. Major: Biomedical Engineering.

Troy Thomas Lohrmann, Denison, Iowa

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Science. Major: Animal Science.

Gayle Ann Long, Medford, Wis.

B.S.N. '90, University of Minnesota. Degree: Master of Science. Major: Nursing.

Haisheng Lu, Gansu Province, People's Republic of China

B.S. '82, Northwest Teachers College. Degree: Master of Science. Major: Botany.

Ann Margaret Lund, Edina

B.A. cum laude '87, St. Olaf College. Degree: Master of Science. Major: Food Science.

Kathleen Marie Maguire, McClusky, N.D.

B.S.N. '87, University of North Dakota. Degree: Master of Science. Major: Nursing.

Krongthong Manothaiudom

D.V.M. '87, Chulalongkorn University. Degree: Master of Science. Major: Theriogenology.

Joseph Mathhare, Gaborone, Botswana

B.S. '83, New Mexico State University; Diploma '85, International Institute for Serial Survey and Earth Sciences. Degree: Master of Science. Major: Wildlife Conservation.

John R. McGaa, St. Paul

B.Chem. '87, University of Minnesota. Degree: Master of Science. Major: Mineral Engineering.

Joseph Vincent Miller

B.S.Pharm. '77, University of Minnesota. Degree: Master of Science. Major: Hospital Pharmacy.

Mark Jerome Miller, St. Louis Park

B.M.E. magna cum laude '89, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Joanne Marie Nielsen

B.A. '80, Gustavus Adolphus College. Degree: Master of Science. Major: Nursing.

Catherine Ann Nordman, Madison, Wis.

B.S. '84, University of Wisconsin. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Karl Conrad Ochs II, Muskegon, Mich.

B.S. cum laude '88, Hope College. Degree: Master of Science. Major: Chemistry.

Terry Gordon Orr

B.S. '83, D.D.S. '88, University of Minnesota. Degree: Master of Science. Major: Dentistry.

Nancy Kay Osterbauer, DeGraff

B.A. '89, College of St. Scholastica. Degree: Master of Science. Major: Plant Pathology.

Robert Alan Patrias

B.E.E. with distinction '87, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Christopher Pawlowski

B.M.E. '88, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Teresa Jo Perry, Little Canada

B.C.E. '84, University of Minnesota. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

David Wayne Peters, Hopkins

B.E.E. with distinction '88, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

John Cole Pfund, Ada

B.Phys. with distinction '88, University of Minnesota. Degree: Master of Science. Major: Biophysical Sciences.

Nancy Allyn Pistle, Montebello, Calif.

A.B. '84, Cornell University. Degree: Master of Science. Major: Biomedical Engineering.

John Owen Pliam, Minneapolis

B.E.E. '88, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Narayan Prasad Poudel

Diploma '77, Indian Forest College. Degree: Master of Science. Major: Forestry.

Tim Aaron Richter-kessing

B.S. magna cum laude '88, University of Missouri. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Megan Kerlee Rooney, Bryan, Tex.

B.S. magna cum laude '87, Texas A&M University. Degree: Master of Science. Major: Food Science.

Osha Roopnarine, Couva, Trinidad, West Indies
B.S. '82, University of the West Indies; M.S. '87,
Southern Illinois University. Degree: Master of Science.
Major: Biochemistry.

Matthew Fred Rosamond, Creve Coeur, Mo.
B.S. '87, Iowa State University of Science and
Technology. Degree: Master of Science. Major: Physics.

Suzan Gay Sherman, Rochester
B.S.N. '84, St. Olaf College. Degree: Master of Science.
Major: Nursing.

Douglas Steven Skrien, International Falls
B.A. '84, St. Olaf College. Degree: Master of Science in
Industrial Engineering. Major: Industrial Engineering.

Ioannis Michael Stephanakis, Athens, Greece
Diploma '89, University of Patras. Degree: Master of
Science in Electrical Engineering. Major: Electrical
Engineering.

Christine Louise StGeorge, St. Paul
B.S. magna cum laude '78, College of St. Benedict.
Degree: Master of Science. Major: Nursing.

Tarkus Suganda, Bandung, Indonesia
Sarjana '83, Padjadjaran University. Degree: Master of
Science. Major: Plant Pathology.

Suresh Sundarraj
B.E. '89, Indian Institute of Science, Bangalore. Degree:
Master of Science. Major: Mineral Engineering.

Bert Theodore Swanson, St. Paul
B.M.E. with distinction '90, University of Minnesota.
Degree: Master of Science in Mechanical Engineering.
Major: Mechanical Engineering.

Deborah Edgerton Swartwood, Arden Hills
B.S. '76, South Dakota State University. Degree: Master
of Science. Major: Hospital Pharmacy.

Leslie Michelle TeWinkel, Minneapolis
B.S. '89, Calvin College. Degree: Master of Science.
Major: Zoology.

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Master of Science

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