



UNIVERSITY OF MINNESOTA

Spring 1992

Graduate School

Commencement



UNIVERSITY OF MINNESOTA

Spring 1992

Graduate School

Commencement

Board of Regents

The Honorable Wendell R. Anderson, Minneapolis
The Honorable M. Elizabeth Craig, Minnetonka
The Honorable Jean B. Keffeler, Minneapolis
The Honorable Elton A. Kuderer, Fairmont
The Honorable H. Bryan Neel, Rochester
The Honorable Alan C. Page, Minneapolis
The Honorable Mary J. Page, Olivia
The Honorable Thomas R. Reagan, Gilbert
The Honorable David K. Roe, Minneapolis
The Honorable Darrin M. Rosh, Minneapolis
The Honorable Stanley D. Sahlstrom, St. Cloud
The Honorable Ann J. Wynia, St. Paul

Administrative Officers

Nils Hasselmo, President
Ettore F. Infante, Senior Vice President for Academic Affairs and Provost
Robert Erickson, Senior Vice President for Finance and Operations
C. Eugene Allen, Vice President for Institute of Agriculture, Forestry, and Home Economics
Richard B. Heydinger, Vice President for External Relations
Anne C. Petersen, Vice President for Research
Marvalene Hughes, Vice President for Student Affairs
Robert Anderson, Vice President for Health Sciences

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, color, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

Table of Contents

page

Order of Events	4
Academic Costume and the University Mace	6
The University of Minnesota	7
The Graduate School	8
Degrees Awarded	
Professional Master's Degrees	9
Master of Science	16
Master of Arts	29
Specialist Certificate in Education	36
Doctor of Education	36
Doctor of Philosophy	37
Degrees Pending	
Professional Master's Degrees	54
Master of Science	64
Master of Arts	69
Specialist Certificate in Education	73
Doctor of Education	73
Doctor of Philosophy	73

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 12:30 to 1 p.m., music is provided by Thomas West, pianist
Processional	<p>At 1 p.m., the macebearer and the United States flag marshal march onto the stage, heralding the arrival of the academic procession of candidates. In the procession are administrators, faculty, distinguished guests, and regents. The order of march of candidates is as follows:</p> <p>Doctor of Philosophy Specialist Certificate in Education Doctor of Education Master's Degrees Doctor of Musical Arts</p> <p>PastelKenny G. A Child is Born.....Thad Jones Thomas West, pianist</p>
The National Anthem	<p>As soloist Darnisha Cowan steps to the microphone, the entire audience will stand and join in singing the national anthem:</p> <p>O, say! can you see, by the dawn's early light, What so proudly we hail'd at the twilight's last gleaming, Whose broad stripes and bright stars, thro' the perilous fight O'er the ramparts we watch'd were so gallantly streaming? And the rockets' red glare, the bombs bursting in air, Gave proof thro' the night that our flag was still there. O, say, does that star-spangled banner yet wave O'er the land of the free and the home of the brave?</p>
Speaking for the University	Nils Hasselmo, Ph.D., President of the University
Introduction of Commencement Speaker	Anne C. Petersen, Ph.D., Vice President for Research and Dean of the Graduate School
Commencement Address	“Celebrating Change, Challenge, and Capability” Geraldine Kearsse Brookins, Ph.D., Professor of Social Work, Gamble-Skogmo Land Grant Chair in Child Welfare and Youth Policy
Interlude	SomewhereLeonard Bernstein Thomas West, pianist
Presentation of Candidates for Master's Degrees and Specialist Certificates	Carla R. Phillips, Ph.D., Professor of History, will present the candidates for professional master's, master of science, and master of arts degrees, and specialist certificates in education to Dean Petersen and the audience. All candidates will proceed across the stage as they are presented.

Presentation of Candidates for Doctoral Degrees	Associate Dean Mark L. Brenner, Ph.D., will present the candidates for the degrees of doctor of education, doctor of musical arts, and doctor of philosophy. Each new doctoral candidate will be hooded.
Conferring of Degrees	Regent Stanley D. Sahlstrom will confer certificates and degrees upon the candidates.
Closing Remarks	Dean Anne C. Petersen
Hail! Minnesota	The audience will rise and join in singing the University's alma mater: Minnesota, hail to thee! Hail to thee, our college dear! Thy light shall ever be A beacon bright and clear; Thy sons and daughters true Will proclaim thee near and far; They will guard thy fame And adore thy name; Thou shalt be their Northern Star.
Recessional	The graduates will leave their seats. The audience is requested to remain seated until those in the academic procession have marched out. Battle Hymn of the RepublicTraditional Thomas West, pianist
Commencement Reception	The commencement reception on the plaza 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.

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 new Minnesota gown is maroon-trimmed with black velvet chevrons and gold metallic braid. The traditional gown may still be worn.

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. 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 hoods are worn by those who already have the doctoral degree. Degree candidates wear gowns appropriate for the degrees they are about to receive, and new doctorates 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 and 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 March 31, 1992. 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

Joni Abramson, Minneapolis

B.A. '73, University of Minnesota. Degree: Master of Social Work, March '92. Major: Social Work. Major Adviser: Nancy M. Abramson

Milosava Acamovic, Minneapolis

B.A. '81, University of Chicago. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Susan Rogers Adam, Roseville

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

Andrews Allen, Woodbury

B.A. cum laude '73, Claremont Men's College; J.D. cum laude '79, University of Minnesota. Degree: Master of Business Administration, March '91. Major: Business Administration. Major Adviser: Donald R. Bell

Dana Paul Allen

B.S. cum laude '75, State University of New York. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Steven James Aschburner, Edina

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

Sarah Viitala Badower, Minnetonka

B.A. cum laude '84, St. Olaf College. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Ijai Bae, Seoul, Korea

B.Mus. '83, Yonsei University. Degree: Master of Music, February '92. Major: Music. Major Adviser: Dean W. Billmeyer

Barbara Jean Baklund, Savage

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

Karin K. Barrett, St. Paul

B.A. '85, College of St. Catherine. Degree: Master of Music, December '91. Major: Music. Major Adviser: Thomas S. Lancaster

Barbara Beiersdorf, St. Paul

B.A. '84, College of St. Catherine. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Robert James Benson, Bloomington

B.S. with distinction '74, San Jose State University. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Richard John Berglund, Minneapolis

B.A. cum laude '81, Carleton College. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Brit Geoffrey Billingsley, St. Paul

B.S.Ch.E. '78, University of Nebraska. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Brian Bennett Bird, St. Paul

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

L. Reid Blickenstaff

B.M. '85, University of Minnesota. Degree: Master of Music, December '91. Major: Music. Major Adviser: Richard L. Massmann

Reeah Kyung Bloedow, Minneapolis

B.A. '88, Concordia College. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Jean K. Quam

Doreen Elizabeth Bragstad

B.S. with distinction '73, University of Minnesota. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Susan Marie Brockman, Burnsville

B.S. '81, University of Wisconsin. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

James Vincent Bundy, Eagan

B.S. '89, University of Maryland. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

John Charles Burke, Minneapolis

B.S.B. '72, University of Minnesota. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Minor: Related Fields. Major Adviser: Frederick R. Jacobs

John M. Burke, St. Paul

B.S. '82, University of Wisconsin. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Pauline K. Burthwick

B.S.S.W. summa cum laude '86, University of North Dakota. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Jean K. Quam

Lauren Carlson, Eagan

B.S. magna cum laude '86, St. Cloud State University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Dana Jeanne Carson

B.S.B. '81, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Mercedes M. Castro, Costa Rica

B.A. '85, Macalester College. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Esther Wattenberg

Shelley R. Chall, St. Paul

B.S. with high distinction '70, University of Minnesota. Degree: Master of Fine Arts, January '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Robert D. Moulton

Diane Marie Christie, Eau Claire, Wis.

B.S. summa cum laude '84, University of Wisconsin. Degree: Master of Materials Science and Engineering, March '92. Major: Materials Science and Engineering. Minor: Related Fields. Project: High Performance, High Density Single Chip Carriers. Major Adviser: John H. Weaver

Phyllis L. Cook, Duluth

B.S.W. '71, University of Kansas. Degree: Master of Social Work, October '91. Major: Social Work. Major Adviser: Jean K. Quam

Teresa Kay Crocker, Minneapolis

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

Mark Evan DeBoer, St. Louis Park

A.B. '86, Dordt College. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Timothy Scott Duffy

B.A. summa cum laude '83, College of St. Thomas. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Mark Dylla, Minneapolis

B.S.B.A. magna cum laude '81, M.Acc. '83, University of North Dakota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Susan Mary Eich, Minneapolis

B.A. '82, Saint Mary's College. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Ross John Eichelberger, Eden Prairie

B.S. magna cum laude '83, Mankato State University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Norman Vernon Eid, Crystal

B.S. '80, D.D.S. '82, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Jon Hamilton Einess, Minneapolis

B.A. '84, Carleton College; J.D. cum laude '87, University of Minnesota. Degree: Master of Planning, December '91. Major: Planning. Major Adviser: John M. Bryson

Colleen Susan Evans, Princeton

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

Therese Marie Everson

B.A. magna cum laude '86, College of St. Thomas. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Cynthia Susan Fakler

B.S.W. '88, College of St. Teresa. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Rosalie Ann Kane

David Finken, Shorewood

B.S. '80, University of Nebraska. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Chris A. Fischer

B.A. magna cum laude '85, St. Olaf College. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Wendy Jo Fong, Bloomington

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

Charles P. Geist, Burnsville

B.B. '75, Western Illinois University. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Joel John Geist, St. Paul

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

Matthew W. Gilbertson, Bloomington

B.A. '85, University of Minnesota. Degree: Master of Architecture, March '92. Major: Architecture. Thesis: The Suburban Commercial Landscape Revisited. Major Adviser: John G. Rauma

Joseph Brian Gilligan, Minneapolis

A.B. '85, College of the Holy Cross. Degree: Master of Business Administration, January '92. Major: Business Administration. Major Adviser: Donald R. Bell

Ira Golden, Plymouth

B.A.E.M. '73, University of Minnesota. Degree: Master of Business Administration, October '91. Major: Business Administration. Major Adviser: Donald R. Bell

Mary Catherine Greene, Minneapolis

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

Harald Grimsrud, Sarpsborg, Norway

Degree: Master of Music, October '91. Major: Music. Major Adviser: Almita Vamos

Kerstin Guhne

Magister '90, Albert-Ludwigs-Universität. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Christopher Lee Hagen, Plymouth

B.S.M.E. '84, Northwestern University. Degree: Master of Business Administration, October '91. Major: Business Administration. Major Adviser: Donald R. Bell

Michel Denis Halbaut, France

D.E.S.S. '87, Université de Rennes I. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Dale Troy Hall, Devils Lake, N.D.

B.S. '88, North Dakota State University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Jeffrey Charles Hamilton, Minneapolis

B.M.E. '83, University of Minnesota. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Eva Mae Hansum, Platte, S.D.

B.S.W. '87, Dordt College. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Nancy M. Abramson

Paul Christopher Happe, St. Paul

B.B.A. with honors '89, University of Notre Dame. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Douglas Fredric Harbrecht, Minneapolis

B.S. with distinction '76, M.S. '78, University of Wisconsin. Degree: Master of Business Administration, October '91. Major: Business Administration. Major Adviser: Donald R. Bell

Pamela Lynn Harwood, Minneapolis

B.S. '81, University of Wisconsin. Degree: Master of Architecture, October '91. Major: Architecture. Thesis: The Origins of Building: The Cave and the Sky. Major Adviser: John G. Rauma

Earl Joseph Henry, Mendota Heights

B.A. '71, Macalester College. Degree: Master of Business Administration, February '92. Major: Business Administration. Major Adviser: Donald R. Bell

Lynne M. Heuton, St. Paul

B.S. '75, Mankato State College. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Huyen Thi Ho, St. Paul

B.S. '89, Mankato State University. Degree: Master of Social Work, October '91. Major: Social Work. Major Adviser: Jane F. Gilgun

Sandra Marie Hoy, St. Louis Park

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

Chin-En Esther Huang

B.A. '88, Chinese Culture University. Degree: Master of Music, October '91. Major: Music. Major Adviser: Alexander Braginsky

Scott William Huntley, Shorewood

B.A. '80, Michigan State University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Tenley Ann Ireland, Duluth

B.A. '81, Bethel College. Degree: Master of Social Work, October '91. Major: Social Work. Major Adviser: Jean K. Quam

Douglas J. Jacobson

B.A. '84, University of Minnesota. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Rama S. Pandey

Mary Leone Jansen, Rockford, Iowa

B.S. '73, Iowa State University. Degree: Master of Business Administration, January '92. Major: Business Administration. Major Adviser: Donald R. Bell

Andrew Robert Johnson, Oak Park, Ill.

B.M. '87, University of Arkansas. Degree: Master of Music, October '91. Major: Music. Major Adviser: Almita Vamos

Candis Wasson Johnson, Wayzata

B.S.S.W. '90, University of Alabama. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Neil F. Bracht

Sherrie Johnson, Lilydale

B.S. '74, Mankato State College. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Deryck Arlyn Jolstad, Minneapolis

B.A. '82, St. Olaf College. Degree: Master of Business Administration, January '92. Major: Business Administration. Major Adviser: Donald R. Bell

James Timothy Jones, Medina

B.F.A. '87, Minneapolis College of Art and Design. Degree: Master of Fine Arts, February '92. Major: Studio Arts. Minor: Related Fields. Major Adviser: William N. Roode

George Kalogerson

B.S. '71, Stout State University. Degree: Master of Business Administration, October '91. Major: Business Administration. Major Adviser: Donald R. Bell

Elia Edward Kazan, Lebanon

B.E.D. '90, University of Minnesota. Degree: Master of Architecture, February '92. Major: Architecture. Thesis: Interpretation of a Vernacular Architecture: Rehabilitation Center for Drug Addicts. Major Adviser: Julia Robinson

Jean Kenaston, Edina

B.A. '88, University of Minnesota. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Nancy Johnston

Douglas Carl Kennedy, Eden Prairie

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

Mary Johnson Kessler, Alexandria

B.S.B. '83, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Ann Marilyn Kiloran, St. Cloud

B.A. '85, St. Cloud State University. Degree: Master of Social Work, October '91. Major: Social Work. Major Adviser: Linda E. Jones

Melissa Marie Knofczynski, Marshall

B.A. '87, College of St. Benedict. Degree: Master of Social Work, March '92. Major: Social Work. Major Adviser: Jean K. Quam

Christopher Richard Knowles, Stillwater

B.A. '78, Beloit College. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Scott Michael Knutson, Seattle, Wash.

B.Pharm. cum laude '84, Washington State University; M.B.A. '88, Pepperdine University. Degree: Master of Business Taxation, November '91. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

William Paul Knutson, New Brighton

B.A. '86, Luther College. Degree: Master of Business Administration, January '92. Major: Business Administration. Major Adviser: Donald R. Bell

Heng Toh Kong, Singapore

B.S. '75, University of Singapore; M.S. '86, University of London. Degree: Master of Business Administration, October '91. Major: Business Administration. Major Adviser: Donald R. Bell

Judith Marie Kremer, St. Paul

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

Robin Kay Krier, Ashton, Iowa

B.S.B.A. with honors '85, University of South Dakota. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Bruce Edwin Kuglin, Eden Prairie

B.S. '88, Winona State University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Roxanne Marie Lackas, Inver Grove Heights

B.A. magna cum laude '85, College of St. Thomas. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Ines Ladewig, Basel, Switzerland

Diplom '89, Musik-Akademie der Stadt Basel. Degree: Master of Music, March '92. Major: Music. Major Adviser: Almita Vamos

Jeffrey Lance Lafavre, Minneapolis

B.S. cum laude '86, Oral Roberts University. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Gregory Joseph Lais, Minneapolis

B.S. cum laude '78, St. John's University. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Lisa Maureen Landwehr-Ekensteen, St. Paul

B.A. '82, University of Minnesota. Degree: Master of Social Work, March '92. Major: Social Work. Major Adviser: Linda E. Jones

Denis Joseph Langlois, River Falls, Wis.

B.E.E. '85, University of Minnesota. Degree: Master of Mechanical Engineering, December '91. Major: Mechanical Engineering. Minor: Related Fields. Project: Instrumented Control of a Backdriveable Harmonic Drive. Major Adviser: Homayoon Kazerooni

Kari Merietta Larson, Osseo

B.A. cum laude '83, Gustavus Adolphus College. Degree: Master of Fine Arts, October '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Jean A. Montgomery

Julie Lynn Lassell, Minneapolis

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

Darrell B. Lee, Minneapolis

B.S. '70, M.B.A. '73, Mankato State College. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Patrick Timothy Lee, St. Paul

B.B.A. '87, University of Wisconsin. Degree: Master of Business Taxation, March '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Elizabeth Ann Loudon

B.M. '85, University of Illinois. Degree: Master of Music, October '91. Major: Music. Major Adviser: Roland Vamos

Susan Sadloske Mahler, Brooklyn Park

B.S. with high distinction '68, University of Minnesota. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Kathleen M. McCoy, Grand Forks, N.D.

B.Comp.Sc. '87, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

William Peter McCulloch

B.S. '63, D.D.S. '65, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Jacqueline Amelia McPherson, Washington, DC

B.B.A. '87, Howard University. Degree: Master of Business Administration, January '92. Major: Business Administration. Major Adviser: Donald R. Bell

Edward Joseph Meehan, Jr., St. Paul

B.A. '72, University of Minnesota. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Philip Edward Mella

B.A. '78, University of Iowa. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Mark S. Umbreit

Alan Eugene Meyer, Sumner, Iowa

B.B.A. '90, University of Iowa. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Judith Lynn Miller, Prior Lake

B.B.A. with distinction '87, University of Iowa. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Jan Marie Moenck

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

Kimberly Kay Mueller, Lakeville

B.A. summa cum laude '85, Hamline University. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

James Donald Mullaney, Plymouth

B.S.B. '83, University of Minnesota. Degree: Master of Business Administration, February '92. Major: Business Administration. Major Adviser: Donald R. Bell

Lisa Kei Murakami, Shoreview

B.A. '88, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Jennifer L. Myster, Rochester

B.A. cum laude '87, St. Olaf College; M.H.A. '90, University of Minnesota. Degree: Master of Business Administration, January '92. Major: Business Administration. Major Adviser: Donald R. Bell

Patrenahalli Mariappa Narendra, Edina

B.E. '73, Bangalore University; M.S. '72, Ph.D. '75, Purdue University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

David Edward Nelson, Minneapolis

B.S. '76, St. Cloud State College. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Hoai The Nguyen

B.A. '70, University of Saigon. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Ronald H. Rooney

Dana Nitschke, Minneapolis

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

Kathryn Jean Nobbe, Minneapolis

B.F.A. summa cum laude '82, University of Minnesota. Degree: Master of Fine Arts, March '92. Major: Studio Arts. Minor: Related Fields. Major Adviser: Joyce Lyon

John Robert Nordby, Roseville

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

Barry Jon Nordstrand, Excelsior

B.A. cum laude '84, St. Olaf College. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Randy Lawrence Nornes, Eden Prairie

B.I.S. magna cum laude '85, University of Minnesota. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Ronald Dean Obeidzinski

B.A. '80, College of St. Thomas. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Dale Roderick Olson, Hastings

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

James Mackay Parrish, Honolulu, Hawaii

B.A. '87, University of Minnesota. Degree: Master of Architecture, October '91. Major: Architecture. Thesis: Objects in Architecture: Path and Place. Major Adviser: John G. Rauma

Lavonne Leslie Pearson, St. Paul

B.A. '73, B.S. summa cum laude '89, Southwest State University. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Matthias Jon Pearson, Minneapolis

B.S. '86, John Brown University. Degree: Master of Architecture, October '91. Major: Architecture. Thesis: The Nature of Organic: As Applied to the Design of a Track and Field Training Facility. Major Adviser: John G. Rauma

John Scott Plahn, Mound

B.Acc. '84, University of Minnesota. Degree: Master of Business Taxation, February '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Stephen B. Platisha, Deerwood

B.Geo-E. '83, University of Minnesota. Degree: Master of Planning, November '91. Major: Planning. Major Adviser: James E. Jernberg

John Henry Potter, St. Paul

B.A. '76, University of Wisconsin. Degree: Master of Fine Arts, January '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Robert D. Moulton

Carol Ann Prafcke, Minneapolis

B.B.A. '80, University of Iowa. Degree: Master of Architecture, March '92. Major: Architecture. Thesis: Creating an Architecture of Psychological Support as Demonstrated in an Alcohol Treatment Center. Major Adviser: John G. Rauma

David Bruce Puskala, Hibbing

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

Leslie Ann Quigley, Minneapolis

B.A. cum laude '81, Augsburg College. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Julie Hilden Railsback, Minneapolis

B.A. cum laude '82, Macalester College; M.A. '87, Luther Northwestern Theological Seminary. Degree: Master of Social Work, March '92. Major: Social Work. Major Adviser: Irl E. Carter

Michaela Marie Rinkel, Wadena

B.A. '87, College of St. Catherine. Degree: Master of Social Work, December '91. Major: Social Work. Major Adviser: Jean K. Quam

Kay Lynn Robinson, Minnetonka

B.S.B. '86, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Rosemarie Romportl, St. Paul

B.A. '72, College of St. Catherine. Degree: Master of Music, March '92. Major: Music. Major Adviser: Alexander Braginsky

Rhett Paul Ryan, Woodbury

B.S. '83, University of Wisconsin. Degree: Master of Business Taxation, November '91. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Andrew J. Saboe, St. Paul

B.F.A. cum laude '81, Kent State University. Degree: Master of Fine Arts, November '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Carl L. Brockman

Margaret A. Palm Sand

B.L.A. with high distinction '75, University of Minnesota. Degree: Master of Landscape Architecture, December '91. Major: Landscape Architecture. Minor: Related Fields. Thesis: Planting for Energy Conservation in the North: Modeling the Impact of Tree Shade on Home Energy use in Minnesota and Development of Planting Guidelines. Major Adviser: Patrick M. Condon

Mark Kenneth Schaefer, Bloomington

B.S. cum laude '78, Mankato State University. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Ann Marie Schilling, Menomonie, Wis.

B.B.A. magna cum laude '86, University of Wisconsin. Degree: Master of Business Administration, January '92. Major: Business Administration. Major Adviser: Donald R. Bell

David Lee Schwartz, Austin

B.S.B. with high distinction '87, University of Minnesota. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Gerard James Schwinghammer, St. Cloud

B.A. '86, College of St. Thomas. Degree: Master of Planning, January '92. Major: Planning. Major Adviser: Barbara L. Lukermann

Kerry Jon Severson, Red Wing

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

Thomas Gregory Sexton, Crystal

B.S. magna cum laude '83, Mankato State University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Wendy Ann Shavor, Eveleth

B.Comp.Sc. '89, University of Minnesota. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

John Patrick Shepeck, Falcon Heights

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

Tori Ann Putnam Showalter, Robbinsdale

B.S. summa cum laude '87, Mankato State University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Patrick Michael Sidders, Jr., Minnetonka

B.S. '87, St. John's University. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

David Lee Sipila, Minneapolis

B.Comp.Sc. '87, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Grace B. Smith

B.G.S. '89, University of Minnesota. Degree: Master of Social Work, October '91. Major: Social Work. Major Adviser: Sara M. Taber

Janet E. Smith, Ridgewood, N.J.

B.A. '85, University of Pennsylvania. Degree: Master of Architecture, February '92. Major: Architecture. Thesis: Architecture in the Landscape: A Hostelling Experience for Bicyclists. Major Adviser: John G. Rauma

Teresa M. Span, Mundelein, Ill.

B.S.B. '79, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Michael John Staloch, Albert Lea

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

Denise Marie Starkey, Minneapolis

B.M. '86, Rice University. Degree: Master of Music, March '92. Major: Music. Major Adviser: Everett L. Sutton

Neil Roger Stokes, St. Paul

B.A. '81, St. Olaf College. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Maureen Kay Strei, Elk River

B.M. '89, University of Minnesota. Degree: Master of Music, December '91. Major: Music. Major Adviser: Paul W. Freed

Yoonah Suh, Seoul, Korea

B.M. '88, Seoul National University. Degree: Master of Music, November '91. Major: Music. Major Adviser: Alexander Braginsky

Joseph D. Sweet, West Union, Iowa

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

Bonnie Boyd Tabor

B.S. '89, University of Minnesota. Degree: Master of Social Work, March '92. Major: Social Work. Major Adviser: Nancy Johnston

Kamran Talebi

B.S.B. '89, University of Minnesota. Degree: Master of Business Taxation, February '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Mary Katherine Thibeau, St. Paul

B.S. '74, University of Illinois. Degree: Master of Social Work, March '92. Major: Social Work. Major Adviser: Maura Sullivan

James Tilsner

B.S. '74, University of Minnesota. Degree: Master of Business Taxation, December '91. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Leo Sylvester Toay, Maple Grove

B.S. '87, North Dakota State University. Degree: Master of Business Administration, January '92. Major: Business Administration. Major Adviser: Donald R. Bell

Mary Joanne Tresco, Andover

B.S. '90, St. Cloud State University. Degree: Master of Social Work, March '92. Major: Social Work. Major Adviser: Ronald H. Rooney

Donna J. Tretsven, Falcon Heights

B.A. '82, University of Minnesota. Degree: Master of Business Administration, January '92. Major: Business Administration. Major Adviser: Donald R. Bell

Bee Vang

B.S. '88, St. Cloud State University. Degree: Master of Social Work, October '91. Major: Social Work. Major Adviser: Sara M. Taber

Carole Margaret Wallace, Wayzata

B.S.B. '76, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Bryan Webster

B.S. '84, Mankato State University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Donald R. Bell

Shawn Thomas Webster, Apple Valley

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

Dianne Alison Wegscheid, Brooklyn Park

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

Timothy Joseph Wiener

B.S. with high honors '80, Illinois Institute of Technology. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

Nelson C. Williams

B.A. '87, University of Missouri. Degree: Master of Fine Arts, March '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Barbara Reid

James Tyler Wyvell, Coon Rapids

B.S.B. '90, University of Minnesota. Degree: Master of Business Taxation, January '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Kin-Chee Gigi Yau, St. Paul

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

Judith Yourman

B.F.A. with highest honors '81, Pratt Institute. Degree: Master of Fine Arts, December '91. Major: Studio Arts. Minor: Related Fields. Major Adviser: Susan M. Lucey

Timothy William Zosel, Minneapolis

B.S.B. with high distinction '89, University of Minnesota. Degree: Master of Business Administration, December '91. Major: Business Administration. Major Adviser: Donald R. Bell

*Professional Master's Degree***University of Minnesota, Duluth****Priscilla Ann Day, Bemidji**

B.A. '84, Bemidji State University. Degree: Master of Social Work, November '91. Major: Social Work. Major Adviser: Dennis R. Falk

Jerome Robert Ebacher, Moose Lake

B.A. '80, St. John's University. Degree: Master of Social Work, January '92. Major: Social Work. Major Adviser: Melanie F. Shepard

Shirley Ann Eichenwald, Duluth

B.S. magna cum laude '67, College of St. Scholastica. Degree: Master of Business Administration, November '91. Major: Business Administration. Major Adviser: Jon L. Pierce

Susan Jean Fuchs, St. Cloud

B.S. cum laude '87, St. Cloud State University. Degree: Master of Social Work, March '92. Major: Social Work. Major Adviser: Melanie F. Shepard

Harold Sidney Geller, Park Falls, Wis

B.S. '78, North Dakota State University. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Lawrence J. Syck

Joanne Merlyn Larson Line, Duluth

B.A. cum laude '83, University of Minnesota. Degree: Master of Business Administration, March '92. Major: Business Administration. Major Adviser: Shee Q. Wong

Steven Clarence Maki, Shoreview

B.M.E. '77, University of Minnesota. Degree: Master of Business Administration, November '91. Major: Business Administration. Major Adviser: Wayne A. Jesswein

*Master of Science***Diane Ruth Achman, Avon**

B.S. '88, St. Cloud State University. Degree: Master of Science in Civil Engineering, October '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Volatilization of Polychlorinated Biphenyls from Green Bay, Lake Michigan. Major Adviser: Steven J. Eisenreich

Samuel Nii Addy

B.S. honors '87, University of Science and Technology, Kumasi. Degree: Master of Science in Mineral Engineering, December '91. Major: Mineral Engineering. Minor: Related Fields. Thesis: An Expert System on Thermocouple Selection: Representing Tradeoffs. Major Adviser: Karl A. Smith

Thomas John Adelmeyer, Brooklyn Park

B.S. with distinction '84, University of Wisconsin. Degree: Master of Science in Electrical Engineering, March '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: K. S. P. Kumar

Nataraj Akkiraju, Rentachuntala, India

M.C.A. '89, University of Hyderabad. Degree: Master of Science, October '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Ravi Janardan

Katrina Elisa Allen, Minneapolis

B.A. '88, Carleton College. Degree: Master of Science, February '92. Major: Geology. Minor: Related Fields. Thesis: Geochemical Stratigraphy of Medicine Lake, South Dakota: Paleoclimatic Implications of the Freshwater/Saline Transition. Major Adviser: Herbert E. Wright

Susan Lee Anacker, Minneapolis

B.S.P.Ther. '76, Northwestern University. Degree: Master of Science, November '91. Major: Physical Therapy. Minor: Related Fields. Thesis: Sensory Organization for Balance Function in Elder Fallers and Non-Fallers. Major Adviser: Richard P. Difabio

Farzin Assad

B.E.E. with distinction '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Anand Gopinath

Gladys Shun-Sen Au, Dallas, Tex.

B.A. cum laude '84, University of Pennsylvania; D.D.S. '88, Baylor College of Dentistry. Degree: Master of Science, April '91. Major: Dentistry. Minor: Related Fields. Thesis: Evaluation of Gingival Crevicular Fluid (GCF) Components Associated with Periodontal Disease: A Cross-Sectional Study. Major Adviser: James E. Hinrichs

Wendy Maria Baisier

B.S. with distinction '88, University of Minnesota. Degree: Master of Science, December '91. Major: Food Science. Minor: Related Fields. Thesis: Nonenzymatic Browning Kinetics. Major Adviser: Theodore P. Labuza

Stuart D. Bale, Minneapolis

B.A. '89, University of Minnesota. Degree: Master of Science, February '92. Major: Physics. Minor: Related Fields. Thesis: Low Frequency Electric Field Observations Near a Beam-Emitting Rocket. Major Adviser: Paul J. Kellogg

Nicholas John Bartelt, Minneapolis

B.E.E. '90, University of Minnesota. Degree: Master of Science, March '92. Major: Biomedical Engineering. Minor: Physiology. Major Adviser: Robert P. Patterson

Philip John Becker, Sioux Falls, S.D.

B.S.M.E. '86, South Dakota State University. Degree: Master of Science in Mechanical Engineering, March '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Development of a Real-Time Fiber Analyzer: A Feasibility Study. Major Adviser: David Y. H. Pui

Mark Matthew Benner, New Carlisle, Ohio

B.S.M.E. with distinction '86, Purdue University. Degree: Master of Science in Mechanical Engineering, January '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Performance Synthesis of an Industrial Planar Four-Bar Crank-Rocker with Two Prescribed Positions. Major Adviser: Arthur G. Erdman

William Evan Berguson, Duluth

B.S. '78, University of Minnesota. Degree: Master of Science, January '92. Major: Forestry. Minor: Related Fields. Thesis: The Influence of Climatic and Edaphic Factors on Forest Productivity. Major Adviser: David F. Grigal

Timothy David Berry, St. Paul

B.A. '89, University of Minnesota. Degree: Master of Science, November '91. Major: Statistics. Minor: Related Fields. Major Adviser: F. Kinley Lantz

Alan Patrick Berscheid, Grey Eagle

B.S. '88, North Dakota State University. Degree: Master of Science in Electrical Engineering, February '92. Major: Electrical Engineering. Minor: Related Fields. Thesis: Electric Slab Heating System Conversion from Alternating Current to Direct Current Operation. Major Adviser: Vernon D. Albertson

Christina Marie Bird, South Bend, Ind.

B.S. '87, University of Notre Dame. Degree: Master of Science, March '92. Major: Astrophysics. Minor: Related Fields. Thesis: Dark Matter and Dynamics in the Hercules Cluster. Major Adviser: John M. Dickey

Valens Bizimana, Rushashi, Kigali, Rwanda

Ing. Agron. '85, Universite Nationale du Rwanda. Degree: Master of Science, February '92. Major: Food Science. Minor: Related Fields. Thesis: Avocado Oil Extraction Using Appropriate Technology for Developing Countries. Major Advisers: Agnes S. Csallany and William M. Breene

Regina Lynn Blevins, St. Paul

D.D.S. '87, University of Michigan. Degree: Master of Science, November '91. Major: Dentistry. Minor: Related Fields. Thesis: Distraction Lengthening of Dog Mandibles. Major Adviser: Donald C. Quick

Joanell Ann W. Bohmert, Mahtomedi

B.S. '78, University of Minnesota. Degree: Master of Science, December '91. Major: Physical Therapy. Minor: Related Fields. Major Adviser: Louis R. Amundsen

Susan Drummond Booth, Syracuse, N.Y.

B.S. cum laude '85, Yale University. Degree: Master of Science, November '91. Major: Wildlife Conservation. Minor: Related Fields. Thesis: Chemical Communication in Tigers: Functions of Urine Marking. Major Adviser: J. L. David Smith

Walter Ray Bowles

B.S.Pharm. '79, University of New Mexico; D.D.S. '85, University of Missouri. Degree: Master of Science, October '91. Major: Dentistry. Minor: Related Fields. Thesis: Regulation of the Release of CGRP-Like Immunoreactivity from Bovine Pulp. Major Adviser: Kenneth M. Hargreaves

Andrew Patrick Brown, St. Paul

B.S. '85, Iowa State University of Science and Technology. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Keshab K. Parhi

Tiel Theng-Woo Bryja

B.A. '86, Reed College. Degree: Master of Science, February '92. Major: Ecology. Minor: Related Fields. Major Adviser: David A. Andow

Daniel Joseph Burgard, Grass Valley, Calif.

B.S. summa cum laude '83, Washington State University. Degree: Master of Science, January '92. Major: Soil Science. Minor: Related Fields. Thesis: Movement of Metribuzin and Metolachlor in a Sandy Soil Under Irrigated Potato Production. Major Advisers: William C. Koskinen and Robert H. Dowdy

Terry Joe Burrell, Jr., Golden Valley

B.S. summa cum laude '77, Moorhead State College. Degree: Master of Science, March '92. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

Brent Paul Bushnell, Cromwell

B.S., B.A. cum laude '87, University of Minnesota. Degree: Master of Science, January '92. Major: Horticulture. Minor: Related Fields. Thesis: Freezing Tolerance in vitis: Interspecific Grafting and Using Chlorophyll Fluorescence to Determine Freezing Tolerance. Major Adviser: Emily E. Hoover

Kevin Barry Cairns

B.A. magna cum laude '87, St. Olaf College. Degree: Master of Science, February '92. Major: Environmental Health. Minor: Related Fields. Major Adviser: Ian A. Greaves

Sergio Blancafort Calsamiglia, Barcelona, Spain

Licenciado en Veterinaria '88, Universidad Autonoma Barcelona. Degree: Master of Science, October '91. Major: Animal Science. Minor: Related Fields. Thesis: Feeding Proteins to High Producing Dairy Cows. Major Advisers: Marshall D. Stern and Brian A. Crooker

John Cancian, Hartford, Conn.

B.S. '90, University of Connecticut. Degree: Master of Science in Aerospace Engineering, January '92. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Scott D. Abrahamson

Michelle Marie Cartier, North St. Paul

B.A. cum laude '89, College of St. Benedict. Degree: Master of Science, October '91. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Synthesis, Characterization and Biological Evaluation of Peptide Analogs of Chloramphenicol as Peptidyl Transferase Inhibitors. Major Adviser: Robert Vince

Gregory Harlow Case, Burnsville

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

Jeffrey A. Cerkvenik, Minnetonka

B.A. magna cum laude '89, College of St. Thomas. Degree: Master of Science, December '91. Major: Statistics. Minor: Mathematics. Major Adviser: James M. Dickey

TakYuen Melinda Chan, Hong Kong

B.C.S. with high distinction '88, University of Minnesota. Degree: Master of Science, January '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Jaideep Srivastava

Jayesh Anand Chaudhary, Bombay, India

B.Pharm.Sci. '89, University of Bombay. Degree: Master of Science, November '91. Major: Microbial Engineering. Minor: Related Fields. Thesis: The Effect of Nutrient Levels on the Growth Rates of a Type I and Type II Methanotroph. Major Adviser: Richard S. Hanson

Chin-Yeu Chen, Taiwan

B.Ed. '83, M.Ed. '87, National Taiwan Normal University. Degree: Master of Science in Industrial Engineering, December '91. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Shahrukh A. Irani

Jian-Shin Chen, Taiwan

B.E. '88, Tamkang University. Degree: Master of Science in Civil Engineering, October '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Softening with a Weakly Acidic Ion Exchanger: A Feasibility Study for St. Paul. Major Adviser: Michael J. Semmens

Runtian Chen, Guangzhou, People's Republic of China

B.S. '82, Zhongshan University. Degree: Master of Science, December '91. Major: Cell and Developmental Biology. Minor: Related Fields. Thesis: Sequence Determination and Analysis of Tektin B cDNA in Strongylocentrotus purpuratus Blastulae. Major Adviser: Richard W. Linck

Inyeong Choi, Minneapolis

B.S. '84, M.S. '86, Korea University. Degree: Master of Science, January '92. Major: Genetics. Minor: Related Fields. Major Adviser: Irwin Rubenstein

Jin-Gyun Chung, Chonju, Chonbuk, Korea

B.S. '85, Chonbuk National University. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Keshab K. Parhi

Donald Scott Clark, Halifax, Nova Scotia, Canada

B.S. '82, D.D.S. '88, Dalhousie University. Degree: Master of Science, October '91. Major: Dentistry. Minor: Related Fields. Thesis: The Apical Sealing Ability of Metal Versus Plastic Carrier Thermanfil Obturators. Major Adviser: Mahmoud E. Eldeeb

Ronald Wayne Clobes

B.A.E.M. '88, University of Minnesota. Degree: Master of Science in Aerospace Engineering, December '91. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Philip G. Hodge, Jr.

Frantz Clotaire, Les Cayes, Haiti

B.S. '88, Texas A & M University. Degree: Master of Science, December '91. Major: Plant Breeding. Minor: Related Fields. Thesis: Percent Protein and Oil in Soybean: Correlating Producers' Fields with Research Plots and Refining Methodology for Increased Efficiency of Selection. Major Adviser: James H. Orf

Dolores Ann Connoy

B.S. '71, Winona State College. Degree: Master of Science, November '91. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

Giuseppe Corinaldesi, Bologna, Italy

D.D.S. '85, University of Bologna. Degree: Master of Science, December '91. Major: Dentistry. Minor: Related Fields. Thesis: Bacterial Concentration Fluorescence Immunoassay Compared to Cultivable Flora and DNA Probes for the Detection of Suspected Periodontal Pathogens. Major Adviser: James E. Hinrichs

Richard Allan Dahlman, Anoka

B.S. '70, University of Minnesota. Degree: Master of Science, October '91. Major: Forestry. Minor: Related Fields. Major Adviser: Melvin J. Baughman

Marsha Ann Davis

B.S. '78, M.S. '80, Purdue University. Degree: Master of Science, January '92. Major: Geology. Minor: Related Fields. Major Adviser: E. Calvin Alexander, Jr.

James Christopher Doubles

B.S. '87, University of Minnesota. Degree: Master of Science, October '91. Major: Botany. Minor: Related Fields. Thesis: Life History, Ultrastructure, and Phylogeny of the Basidiomycete *Kriegeria eriophori*. Major Adviser: David J. McLaughlin

Lynn Speckhals Duane

B.A. '78, College of St. Catherine. Degree: Master of Science, March '92. Major: Nursing. Minor: Related Fields. Major Adviser: Ruth D. Lindquist

Karim Elayed, Tunis, Tunisia

B.M.E. with high distinction '89, University of Minnesota. Degree: Master of Science in Mechanical Engineering, January '92. Major: Mechanical Engineering. Minor: Scientific Computation. Thesis: Implementation of a Robust Semi-Direct Finite-Difference Method to Strongly Coupled Turbulent Flow Differential Equations. Major Adviser: Thomas H. Kuehn

Peter Daniel Engebretson, Minneapolis

B.A. '85, University of Minnesota. Degree: Master of Science, October '91. Major: Environmental Health. Minor: Related Fields. Major Adviser: Donald E. Barber

David Frederick Erf, Bellevue, Ohio

B.S.Ag. cum laude '87, Ohio State University. Degree: Master of Science, December '91. Major: Animal Science. Minor: Statistics. Thesis: Inheritance and Relationships of Workability Traits and Yield for Holsteins. Major Adviser: Leslie B. Hansen

Consuelo E. Estevez, Quito, Ecuador

Degree: Master of Science, March '92. Major: Soil Science. Minor: Plant Pathology. Thesis: Nitrogen Fixation and Drought Tolerance in Interspecific Phaseolus Hybrids. Major Adviser: Carl J. Rosen

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, October '91. Major: Dentistry. Minor: Related Fields. Thesis: Shear and Tensile Bond Strengths of Ten Ceramic Brackets: An in vitro Evaluation. Major Adviser: Richard R. Bevis

Sandra Lee Evenson, Minneapolis

B.S. '81, University of Minnesota. Degree: Master of Science, March '92. Major: Design, Housing, and Apparel. Minor: Anthropology. Thesis: The Manufacture of Madras in South India and Its Export to West Africa: A Case Study. Major Adviser: Joanne B. Eicher

Carol Jeanne Eversman, St. Augusta

B.S. '83, College of St. Benedict. Degree: Master of Science, November '91. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

Rui Antonio Loja Fernandes, Lisbon, Portugal

Degree: Master of Science, October '91. Major: Mathematics. Minor: Related Fields. Major Adviser: Peter J. Olver

Richard James Gessner

B.A.E.M. '89, University of Minnesota. Degree: Master of Science in Aerospace Engineering, November '91. Major: Aerospace Engineering. Minor: Mechanical Engineering. Major Adviser: Scott D. Abrahamson

Geoffrey G. Griffin, Chatfield

B.S. '89, North Dakota State University. Degree: Master of Science in Civil Engineering, October '91. Major: Civil Engineering. Minor: Related Fields. Thesis: Reservoir Operation Optimization: A Case Study for the Lake Zumbro Hydropower Facility. Major Adviser: Efi Foufoula-Georgiou

Eric Holmes Grutzner, Madison, Wis.

B.S. '87, D.D.S. '89, University of Minnesota. Degree: Master of Science, January '92. Major: Dentistry. Minor: Related Fields. Thesis: Effect of Pulpal Injury on Levels of Immunoreactive Substance P and CGRP. Major Adviser: Kenneth M. Hargreaves

Xiaonong Gu

B.S. '82, Shanghai University of Science and Technology. Degree: Master of Science, December '91. Major: Biostatistics. Minor: Related Fields. Major Adviser: Marcus O. Kjelsberg

Stefano Guido, Naples, Italy

Laurea '89, Università degli Studi di Napoli. Degree: Master of Science in Chemical Engineering, February '92. Major: Chemical Engineering. Minor: Related Fields. Thesis: Quantitative Characterization of Contact Guidance Exhibited by Fibroblasts in Collagen Gels Using Birefringence. Major Adviser: Robert T. Tranquillo

Lifeng Guo, Xinle, Hebei, People's Republic of China

B.Sc. '82, Lanzhou University. Degree: Master of Science, January '92. Major: Geology. Minor: Civil Engineering. Thesis: Mass Transfer Across an Aromatic Hydrocarbon-Water Interface in a Porous Medium: A Laboratory Study in a Plate Model. Major Adviser: Hans O. Pfannkuch

Deborah Ruth Gustafson, Apple Valley

B.A. '89, University of Minnesota. Degree: Master of Science, December '91. Major: Nutrition. Minor: Related Fields. Thesis: Flavonoid Inhibition of Aromatase in Human Adipose Stromal Cells. Major Adviser: Mindy S. Kurzer

Edward M. Hamilton, Concord, Calif.

B.S. '78, University of Alberta. Degree: Master of Science, January '92. Major: Geology. Minor: Chemistry. Thesis: The Chemistry of Low Valent Sulfur Compounds in the Sulfur-Water System. Major Adviser: William E. Seyfried

Byungho Han, Fridley

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Industrial Engineering. Major Adviser: Ted K. Higman

Sangkyu Han

D.D.S. '82, Seoul National University; D.D.S. '89, University of Minnesota. Degree: Master of Science, October '91. Major: Dentistry. Minor: Related Fields. Thesis: Clinically Relevant Physical Properties of Polymer Elastics, Stainless Steel Coil Springs, and Nickel Titanium Coil Springs for use in Orthodontics. Major Adviser: Donald C. Quick

Toni A. Hayes, Sanford, Mich.

B.S.B.A. magna cum laude '84, Central Michigan University. Degree: Master of Science, March '92. Major: Nursing. Minor: Related Fields. Thesis: Incentive Programs: Are Hospital Nurses Recognized for Performance?. Major Adviser: Sandra R. Edwardson

Douglas Gordon Hodder, Minneapolis

B.A. '84, Carleton College. Degree: Master of Science, December '91. Major: Physics. Minor: Related Fields. Major Adviser: William Zimmermann, Jr.

Eric Joseph Hoffman, Oronoco

B.S. '90, North Dakota State University. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: K. S. P. Kumar

John Raymond Hoffman, Long Lake

B.S. magna cum laude '87, Rose-Hulman Institute of Technology. Degree: Master of Science, October '91. Major: Mathematics. Minor: Related Fields. Major Adviser: Bert E. Fristedt

Elizabeth Ellen Holton

B.S. '89, University of Illinois. Degree: Master of Science, January '92. Major: Food Science. Minor: Related Fields. Thesis: Corn Starch Containing Polyethylene Film Used As Food Packaging. Major Adviser: Elaine H. Asp

Kent Peter Howe, St. Paul

B.E.E. '88, University of Minnesota. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Related Fields. Thesis: Computer Aided Electromyographic Signal Processing. Major Adviser: James E. Holte

Michael Carl Humble, Fridley

B.A. '85, St. Olaf College. Degree: Master of Science, March '92. Major: Chemistry. Minor: Related Fields. Thesis: Binding Site Studies of the Nicotinic Acetylcholine Receptor. Major Adviser: Michael A. Raftery

Patricia E. Hung, St. Paul

B.A. '82, College of St. Thomas. Degree: Master of Science, October '91. Major: Horticulture. Minor: Plant Physiology. Thesis: The Effect of Organic Solvent Infusion of Fungicides on Germination and Stand Establishment of Shrunken-2 Sweet Corn (*Zea mays* L. var *rugosa* Bonaf.) Seed. Major Advisers: Vincent A. Fritz and Luther Waters, Jr.

Ann Marie Peterson Hupperts, Shoreview

B.S. '84, University of Minnesota. Degree: Master of Science, December '91. Major: Veterinary Biology. Minor: Related Fields. Major Adviser: Mathur S. Kannan

Charles Mbadiwe Ihegwara, Mbaise, Nigeria

Diploma '84, Moscow Institute of Steel and Alloys. Degree: Master of Science, March '92. Major: Mineral Engineering. Minor: Related Fields. Major Adviser: Kenneth J. Reid

Kevin Arthur Iungerman, Bayonne, N.J.

B.S.'70, St. Peter's College. Degree: Master of Science, February '92. Major: Horticulture. Minor: Related Fields. Thesis: Orchard Arthropod Monitoring: First-Stage IPM as a Means of Reducing Pesticide Use in Apple Production. Major Adviser: Emily E. Hoover

Arun K.S. Iyengar, Bangalore, Karnataka, India

B.Tech.(Honours) '90, Indian Institute of Technology, Kharagpur. Degree: Master of Science, February '92. Major: Fluid Mechanics. Minor: Mathematics. Thesis: Simulation of a Neutral Urban Atmospheric Boundary Layer at the Saffl Boundary Layer Wind Tunnel. Major Adviser: Cesar Farell

Narayanan Srinivasa Iyer, Rapid City, S.D.

B.S. with high honors '89, South Dakota School of Mines and Technology. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Keshab K. Parhi

Kaye E. Jager, Eddyville, Iowa

B.A. with highest honors '89, University of Northern Iowa. Degree: Master of Science, October '91. Major: Food Science. Minor: Related Fields. Thesis: Investigation of Bacteriocin-Producing Microorganisms. Major Adviser: Susan K. Harlander

John Thomas Janevic, St. Clair Shores, Mich.

B.S.E. magna cum laude '89, University of Michigan. Degree: Master of Science in Mechanical Engineering, February '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Shoulder Joint Mechanics after Surgical Repair. Major Adviser: Jack L. Lewis

Jeffrey Mark Jelen, St. Paul

B.A. cum laude '88, Hamline University. Degree: Master of Science in Mechanical Engineering, November '91. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Max Donath

Dengfeng Jiang, Shanghai, People's Republic of China

B.S. '87, Nanjing Aeronautical Institute. Degree: Master of Science in Aerospace Engineering, February '92. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Daniel D. Joseph

Heekyoung Jo, Korea

D.D.S. '86, Seoul National University. Degree: Master of Science, December '91. Major: Dentistry. Minor: Related Fields. Thesis: Stability of Rapid Maxillary Expansion. Major Adviser: Thomas M. Speidel

Terry Mark Johnsen, Superior, Wis.

B.S. '81, University of Wisconsin. Degree: Master of Science, January '92. Major: Food Science. Minor: Technical Communication. Major Adviser: Mrinal Bhattacharya

Corey Robert Nicholas Jones, Minneapolis

B.A. '89, St. Olaf College. Degree: Master of Science, January '92. Major: Animal Physiology. Minor: Related Fields. Major Adviser: Alan G. Hunter

Stacey Ann Jones-Humble, Springfield, Mo.

B.S. summa cum laude '86, Southwest Missouri State University. Degree: Master of Science, March '92. Major: Chemistry. Minor: Related Fields. Thesis: Biochemical Studies on the Ionic Channel of the Torpedo californica Nicotinic Acetylcholine Receptor. Major Adviser: Michael A. Raftery

Brian David Jordahl, St. Paul

B.A. magna cum laude '86, Concordia College. Degree: Master of Science, November '91. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Vernon W. Ruttan

Linda Ann Jorn, Minneapolis

B.A. magna cum laude '79, Luther College. Degree: Master of Science, March '92. Major: Technical Communication. Minor: Related Fields. Thesis: Computer Technology and Collaborative Writing: Affects on Collaborators' Processes, Products, and Attitudes. Major Adviser: Ann H. Duin

Martin Frederick Kail, Inver Grove Heights

B.S. with distinction '82, Iowa State University of Science and Technology. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Materials Science and Engineering. Major Adviser: Stephen A. Campbell

Piranit Kantaputra, Chiangmai, Thailand

D.D.S. '86, Chiang Mai University. Degree: Master of Science, October '91. Major: Dentistry. Minor: Related Fields. Thesis: Effects of Fluoride and Beta Glycerol Phosphate on Molar Mineralization in vitro. Major Adviser: Louise B. Messer

Mingcheng Kao, Taiwan

B.E. '88, Feng Chia University. Degree: Master of Science in Aerospace Engineering, January '92. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Anastasios S. Lyrantzis

Katch Ann Keating

B.S. with high distinction '89, University of Minnesota. Degree: Master of Science, February '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Phillip Barry

Wayne Paul Kelly, Olathe, Kan.

B.S.M.E. with highest distinction '90, University of Kansas. Degree: Master of Science in Mechanical Engineering, December '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Measurement of Particle Density by Electrostatic and Inertial Classification. Major Adviser: Peter H. McMurry

Barnabas Amooti Kiiza, Hoima, Bunyoro, Uganda

B.Sc. Ag. '89, Makerere University. Degree: Master of Science, March '92. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Willis L. Peterson

Jong Ryeol Kim, Korea

B.C.E. '89, University of Minnesota. Degree: Master of Science in Civil Engineering, February '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Characteristics of Permanent Deformation in Asphalt Concrete. Major Adviser: David E. Newcomb

Joungkook Kim

B.S. '72, M.S. '74, Yonsei University; M.S. '85, University of Illinois. Degree: Master of Science, March '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Daniel L. Boley

Shahzad Farooq Kirmani, Lahore, Pakistan

B.S. '89, King Fahd University of Petroleum and Minerals. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Ahmed H. Tewfik

Sandra Klos, Chicago, Ill.

B.S. '77, Mankato State University. Degree: Master of Science, December '91. Major: Biometry and Health Information Systems. Minor: Related Fields. Major Adviser: Lynda B. Ellis

Chi-June Ko, Republic of China

B.S. '82, National Chung Hsing University; M.S. '86, University of Minnesota. Degree: Master of Science, January '92. Major: Statistics. Minor: Biostatistics. Major Adviser: F. Kinley Larntz

Bruce Donald Koski, Rochester

B.S. with distinction '83, Iowa State University of Science and Technology. Degree: Master of Science, December '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: William B. Thompson

Konstantinos Koutsoukos, Thessaloniki, Greece

Diploma '88, Aristotelio University of Thessaloniki. Degree: Master of Science in Civil Engineering, February '92. Major: Civil Engineering. Minor: Related Fields. Thesis: A Statistical Method for Identifying Locations of High Crash Risk to Older Drivers. Major Adviser: Gary A. Davis

Gary Harlan Kroll, Hayfield

B.S.E.E. magna cum laude '89, Mankato State University. Degree: Master of Science, January '92. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Photoelectron Spectroscopy Studies of Nondisruptive Overlayer Growth on GaAs(110) and the Interaction of O₂ with Buckminsterfullerene. Major Adviser: John H. Weaver

Gregory Kenneth Kvaal, Mendota Heights

B.A. '80, College of St. Thomas. Degree: Master of Science in Civil Engineering, December '91. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Walter J. Maier

Leilani Lavanger LaBelle, Minneapolis

B.S.Speech '82, Northwestern University; D.D.S. '86, University of Minnesota. Degree: Master of Science, December '91. Major: Dentistry. Minor: Related Fields. Thesis: An Evaluation of Laser Doppler Readings Obtained from Human Gingival Sulci. Major Adviser: James E. Hinrichs

Thomas Raymond LaLiberte, Minneapolis

B.E.D. '87, University of Minnesota. Degree: Master of Science in Mechanical Engineering, October '91. Major: Mechanical Engineering. Minor: Physics. Thesis: Product Design Through Mechanical Engineering Tennis Net Retracting System. Major Advisers: Warren E. Ibele and Darrell A. Frohrib

Anne Francoise Lamblin, Vesoul, France

Maitrise '88, Universite De Franche-Comte-Besancon. Degree: Master of Science, December '91. Major: Biochemistry. Minor: Related Fields. Thesis: Purification of CynR Protein and Study of its Function in the Regulation of the cyn Operon. Major Adviser: James A. Fuchs

James Thomas Landon, Mound

B.S.A.E. '90, University of Texas. Degree: Master of Science in Aerospace Engineering, March '92. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Andrew Vano

Stephan Kempe Lopic, Longview, Wash.

B.A. summa cum laude '85, Whitman College. Degree: Master of Science, March '92. Major: Mathematics. Minor: Related Fields. Major Adviser: Bert E. Fristedt

Joong-Hee Lee, Chonju, Chonbuk, Korea

B.S. '85, M.S. '88, Chonbuk National University. Degree: Master of Science in Mechanical Engineering, February '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Modeling of Thermoplastic Composite Sheet Forming. Major Adviser: Jeffrey H. Vogel

Yeh Fong Lee, Taiwan

B.A. '77, Tamkang University. Degree: Master of Science, January '92. Major: Health Informatics. Minor: Related Fields. Major Adviser: Stephen S. Rich

Chiahung Li

B.S. '84, National Taiwan University. Degree: Master of Science in Mechanical Engineering, February '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Experimental Study of Chemical Vapor Deposition of Diamond Films in an Atmospheric-Pressure Radio-Frequency Plasma. Major Adviser: Steven L. Girshick

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

B.S. '86, Peking University; M.S. '91, University of Minnesota. Degree: Master of Science in Electrical Engineering, March '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: James R. Leger

Daekeun Lim

B.S. '81, M.A. '83, Keimyung University. Degree: Master of Science, December '91. Major: Mathematics. Minor: Related Fields. Major Adviser: Dennis W. Stanton

Deborah Ann Loch, Minneapolis

B.S.Eng. '84, Marquette University. Degree: Master of Science, December '91. Major: Biomedical Engineering. Minor: Mechanical Engineering. Thesis: A Mathematical Model of the Human Knee Joint. Major Adviser: Jack L. Lewis

Troy Thomas Lohrmann, Denison, Iowa

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Science, October '91. Major: Animal Science. Minor: Related Fields. Thesis: Evaluation of the use of Cheese Food in the Diets of Weanling Pigs. Major Adviser: James E. Pettigrew

Beth Estelle Lokensgard, Luck, Wis.

B.A. '88, College of St. Catherine. Degree: Master of Science, March '92. Major: Veterinary Microbiology. Minor: Related Fields. Thesis: Restriction Endonuclease Analysis of Bovid Herpesvirus-4 Isolates. Major Adviser: Sagar M. Goyal

Hector Ernesto Lomeli-Ortega, Mexico, D.F., Mexico

Matimatico '89, Universidad Autonoma Metropolitana. Degree: Master of Science, January '92. Major: Mathematics. Minor: Related Fields. Major Adviser: Richard P. McGehee

Gayle Ann Long, Medford, Wis.

B.S.N. '90, University of Minnesota. Degree: Master of Science, December '91. Major: Nursing. Minor: Related Fields. Major Adviser: Marilyne R. Gustafson

Thomas Edward Lorentz, Cannon Falls

B.C.E. with distinction '90, University of Minnesota. Degree: Master of Science in Civil Engineering, March '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Corrosion of Coated and Uncoated Reinforcing Steel in Concrete. Major Adviser: Catherine E. French

Haisheng Lu, Gansu Province, People's Republic of China

B.S. '82, Northwest Teachers College. Degree: Master of Science, November '91. Major: Botany. Minor: Related Fields. Thesis: Ultrastructure of the Septal Pore Apparatus and Early Septum Initiation in *Auricularia Auricula-Judae*. Major Adviser: David J. McLaughlin

Miaogen Lu

B.S. '82, Peking University. Degree: Master of Science in Electrical Engineering, February '92. Major: Electrical Engineering. Minor: Physics. Thesis: Study of the Effects of Sputtering Conditions on Magnetic Properties of Longitudinal Co-Cr/Cr Thin Films. Major Adviser: Jack H. Judy

Ann Margaret Lund, Edina

B.A. cum laude '87, St. Olaf College. Degree: Master of Science, December '91. Major: Food Science. Minor: Related Fields. Thesis: Listeria Monocytogenes Incidence in Raw Milk and the Potential for Control of Listeria Monocytogenes Using Bacteriocin-Producing Species of Bacillus. Major Adviser: Edmund A. Zottola

Georjean Madery-Wygonik

B.S. with honors '79, Michigan State University. Degree: Master of Science, February '92. Major: Environmental Health. Minor: Related Fields. Major Adviser: Lisa M. Brosseau

Michael Gene Magnuson, Oakdale

B.E.E. '85, University of Minnesota. Degree: Master of Science in Mechanical Engineering, December '91. Major: Mechanical Engineering. Minor: Electrical Engineering. Major Adviser: Homayoon Kazerooni

Kathleen Marie Maguire, McClusky, N.D.

B.S.N. '87, University of North Dakota. Degree: Master of Science, December '91. Major: Nursing. Minor: Related Fields. Major Adviser: Sheila A. Corcoran-Perry

Brant Howard Maines, Minneapolis

B.S. '88, Purdue University. Degree: Master of Science in Aerospace Engineering, February '92. Major: Aerospace Engineering. Minor: Related Fields. Thesis: An Investigation of a One Degree of Freedom Human-Extender System. Major Advisers: William L. Garrard and Homayoon Kazerooni

Maureen Anne Malloy, Minneapolis

B.S.N. with distinction '78, University of Minnesota. Degree: Master of Science, December '91. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

Krongthong Manothaiudom

D.V.M. '87, Chulalongkorn University. Degree: Master of Science, November '91. Major: Theriogenology. Minor: Related Fields. Major Adviser: Shirley D. Johnston

Joseph Matlhare, Gaborone, Botswana

B.S. '83, New Mexico State University; Diploma '85, International Institute for Aerial Survey and Earth Sciences. Degree: Master of Science, December '91. Major: Wildlife Conservation. Minor: Related Fields. Major Adviser: Yosef Cohen

Paul Alan Maus

B.S. '84, St. John's University. Degree: Master of Science, January '92. Major: Forestry. Minor: Related Fields. Thesis: Classification and Analysis of Native Prairie in Western Minnesota Using Satellite Imagery and Geographic Information Systems. Major Adviser: Sean C. Ahearn

John R. McGaa, St. Paul

B.Chem. '87, University of Minnesota. Degree: Master of Science, November '91. Major: Mineral Engineering. Minor: Related Fields. Thesis: The Application of a Solvent Extraction System for the Treatment of Plating Waste. Major Adviser: Malcolm T. Hepworth

Susan Ann McGuire, St. Cloud

B.A. cum laude '72, Saint Mary's College. Degree: Master of Science, March '92. Major: Geology. Minor: Civil Engineering. Thesis: A Study of Ground Water Quality in the Garvin Brook Area of Southeastern Minnesota. Major Adviser: Hans O. Pfannkuch

Susan L. McNicholas, Lancaster, Pa.

B.S. '89, Ithaca College. Degree: Master of Science, March '92. Major: Chemistry. Minor: Related Fields. Major Adviser: Lawrence Que, Jr.

Qi Mei

B.S. '83, Tsing Hua University. Degree: Master of Science in Electrical Engineering, November '91. Major: Electrical Engineering. Minor: Related Fields. Thesis: Planar Fabrication of Vacuum Microelectronic Devices. Major Adviser: Dennis L. Polla

Mark V. Meuer, Brooklyn Center

B.Comp.Sc. '89, University of Minnesota. Degree: Master of Science, November '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Phillip Barry

John Charles Miller

B.A. '72, St. John's University; B.S. magna cum laude '77, Mankato State University. Degree: Master of Science, January '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Maria Giini

Loren Michael Miller, Lauderdale

B.S. '86, University of Minnesota. Degree: Master of Science, February '92. Major: Fisheries. Minor: Water Resources. Thesis: Genetic Alteration of Fish Size by a Size-Selective Fishery. Major Adviser: Anne R. D. Kapuscinski

Mark Jerome Miller, St. Louis Park

B.M.E. magna cum laude '89, University of Minnesota. Degree: Master of Science in Mechanical Engineering, October '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: The Universal Nature of Vortex Shedding Behind Circular Cylinders at Low Reynolds Numbers. Major Adviser: Paul J. Strykowski

Elsi Mora, San Romon, Costa Rica

Licenciada '84, Universidad de Costa Rica. Degree: Master of Science in Chemical Engineering, December '91. Major: Chemical Engineering. Minor: Related Fields. Thesis: Selected Topics in Rheology: Temperature Control, Urethane Foaming and Data Analysis. Major Adviser: Christopher W. Macosko

Lee Allen Mork, New Hope

B.S.Pharm. '88, University of Minnesota. Degree: Master of Science, December '91. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Charles E. Daniels

Sapthotharan Krishnan Nair, India

B.Tech. '89, Indian Institute of Technology, Madras. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Physics. Thesis: A Diffraction Investigation of the Forbidden Temperature Window for the Epitaxial Growth of Aluminum Gallium Arsenide. Major Adviser: Philip I. Cohen

John Jay Nelson, Bruno

B.A.E.M. with high distinction '89, University of Minnesota. Degree: Master of Science in Aerospace Engineering, December '91. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Daniel D. Joseph

Kristine Madson L. Nelson, St. Paul

B.S. with high distinction '73, University of Minnesota. Degree: Master of Science, March '92. Major: Design, Housing, and Apparel. Minor: Related Fields. Thesis: The Effect of Government Programs on Neighborhood Change: A Case Study of the Hill District of Saint Paul, Minnesota. Major Adviser: Edward G. Goetz

Thomas Milton Niccum, Savage

B.Comp.Sc. magna cum laude '90, University of Minnesota. Degree: Master of Science, February '92. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Skew Insensitive Algorithms for Parallel Relational Joins on SIMD Model Computers. Major Adviser: Jaideep Srivastava

Joanne Marie Nielsen

B.A. '80, Gustavus Adolphus College. Degree: Master of Science, October '91. Major: Nursing. Minor: Related Fields. Major Adviser: Floris E. King

Catherine Ann Nordman, Madison, Wis.

B.S. '84, University of Wisconsin. Degree: Master of Science in Electrical Engineering, October '91. Major: Electrical Engineering. Minor: Physics. Thesis: Electron-Stimulated Deposition of Patterned Masks on Silicon. Major Adviser: William T. Peria

Karl Conrad Ochs II, Muskegon, Mich.

B.S. cum laude '88, Hope College. Degree: Master of Science, October '91. Major: Chemistry. Minor: Related Fields. Thesis: Kinetics of Ligand Exchange Reactions of Tertiary Phosphites with an Iridium-Gold Cluster and of 2,6-Dimethylphenylisonitrile with a Platinum-Gold Cluster as Measured by ³¹P NMR. Major Adviser: Louis H. Pignolet

Brian Patrick Olson, Coon Rapids

B.A.E.M. summa cum laude '90, University of Minnesota. Degree: Master of Science in Aerospace Engineering, November '91. Major: Aerospace Engineering. Minor: Related Fields. Thesis: Flow Behind a Hemispherical Cup. Major Adviser: Amy E. Alving

Daniel Glenn Olson, Minneapolis

B.S. '88, University of Minnesota. Degree: Master of Science, February '92. Major: Environmental Health. Minor: Related Fields. Thesis: Microbial Recycling of Hydrophobic Organic Compounds in Freshwater. Major Adviser: Deborah L. Swackhamer

Terry Gordon Orr

B.S. '83, D.D.S. '88, University of Minnesota. Degree: Master of Science, December '91. Major: Dentistry. Minor: Related Fields. Thesis: Galvanic Corrosion of Nonprecious Alloy Casting Collars Coupled to Titanium Implants. Major Adviser: Richard J. Goodkind

Mary Ann Osmundson, Gilbert

B.S. '84, University of Minnesota. Degree: Master of Science, November '91. Major: Environmental Health. Minor: Related Fields. Major Adviser: Charles E. McJilton

Nancy Kay Osterbauer, DeGraff

B.A. '89, College of St. Scholastica. Degree: Master of Science, November '91. Major: Plant Pathology. Minor: Related Fields. Thesis: Evaluation of Propiconazole as a Treatment for Oak Wilt in two Quercus Sp. Major Adviser: David W. French

Kongrong Pan, People's Republic of China

B.Eng. '82, Beijing Institute of Aeronautics and Astronautics; M.Eng. '86, Shanghai University of Technology. Degree: Master of Science in Mechanical Engineering, March '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: On the Deformation of a Tube After Bending. Major Adviser: Kim A. Stelson

Prasad Menon Patiath, Bangalore, India

B.A. '88, Macalester College. Degree: Master of Science, December '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Wei-Tek Tsai

Robert Alan Patrias

B.E.E. with distinction '87, University of Minnesota. Degree: Master of Science in Electrical Engineering, October '91. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Matthew T. O'Keefe

Kim Elayne Paulsen, Minneapolis

B.A. '86, College of St. Catherine. Degree: Master of Science, February '92. Major: Chemistry. Minor: Related Fields. Thesis: Electron Transfer Properties of Flavodoxin from Anabaena 7120 and Mammalian Electron Transfer Flavoprotein Ubiquinone Oxidoreductase. Major Adviser: Marian Stankovich

Daniel Eduardo Penazzi, Cordoba, Argentina

Licenciado '88, Universidad Nacional de Cordoba. Degree: Master of Science, February '92. Major: Mathematics. Minor: Related Fields. Major Adviser: Robert Ellis

Manuella Daba Petgrave, Abonnema, Nigeria

B.Ed. '84, Rivers State College of Education. Degree: Master of Science, March '92. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Joanne B. Eicher

Ake Bengt Pettersson, Sundsvall, Sweden

B.Comp.Sc. '89, University of Minnesota. Degree: Master of Science, January '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Using Video Detection Data for Extraction of Intersection and Highway Segment Measures of Effectiveness. Major Adviser: Panos Michalopoulos

John Cole Pfund, Ada

B.Phys. with distinction '88, University of Minnesota. Degree: Master of Science, October '91. Major: Biophysical Sciences. Minor: Related Fields. Major Advisers: Faiz M. Khan and Bruce J. Gerbi

Nancy Allyn Pistole, Montebello, Calif.

A.B. '84, Cornell University. Degree: Master of Science, January '92. Major: Biomedical Engineering. Minor: Mechanical Engineering. Major Adviser: Joan E. Bechtold

Narayan Prasad Poudel

Diploma '77, Indian Forest College. Degree: Master of Science, January '92. Major: Forestry. Minor: Related Fields. Major Adviser: Hans M. Gregersen

Bo Qi

B.S. '84, East China Institute of Chemical Technology. Degree: Master of Science, January '92. Major: Biochemistry. Minor: Related Fields. Thesis: Studies on Manganese-Containing 3,4-Dihydroxyphenylacetate 2,3-Dioxygenases from *Arthrobacter* Species. Major Adviser: Lawrence P. Wackett

Chad Allen Richert, Ft. Myers, Fla.

B.A. '88, Grinnell College. Degree: Master of Science in Mechanical Engineering, November '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Measurements of the Relative Humidity Dependent Vapor Pressure of Sulfuric Acid Using the Tandem Differential Mobility Analyzer. Major Adviser: Peter H. McMurry

Tim Aaron Richter-kessing

B.S. magna cum laude '88, University of Missouri. Degree: Master of Science in Mechanical Engineering, March '92. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Barney E. Klamecki

Dora Marcela Robles-Guavita, Bogota, Colombia

Economista '84, Universidad Nacional de Colombia. Degree: Master of Science, December '91. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Wesley B. Sundquist

Megan Kerlee Rooney, Bryan, Tex.

B.S. magna cum laude '87, Texas A&M University. Degree: Master of Science, December '91. Major: Food Science. Minor: Related Fields. Thesis: Structural and Oil Absorbing Properties of Potatoes During Potato Chip Manufacture. Major Adviser: Eugenia A. Davis

Matthew Fred Rosamond, Creve Coeur, Mo.

B.S. '87, Iowa State University of Science and Technology. Degree: Master of Science, October '91. Major: Physics. Minor: Related Fields. Thesis: Production and Characterization of YBaCuO Films by Sputtering of Spherical Stoichiometric Targets. Major Adviser: Allen M. Goldman

Mary Jo Rossini, Eagan

B.M.E. '89, University of Minnesota. Degree: Master of Science, January '92. Major: Biomedical Engineering. Minor: Mechanical Engineering. Major Adviser: Arthur G. Erdman

Daniel John Ruppman, Minneapolis

B.M.E. '91, University of Minnesota. Degree: Master of Science in Mechanical Engineering, January '92. Major: Mechanical Engineering. Minor: Physics. Thesis: Investigation of Performance and Stability of a Powered Joystick. Major Adviser: Homayoon Kazerooni

Kurosh SamariKermani, Kerman, Iran

B.A. '84, Hamline University. Degree: Master of Science, October '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Anand R. Tripathi

Douglas A. Sand

B.M.E. '90, University of Minnesota. Degree: Master of Science in Industrial Engineering, January '92. Major: Industrial Engineering. Minor: Related Fields. Major Advisers: Tarald O. Kvalseth and Shahrukh A. Irani

David James Scamehorn, Ripon, Wis.

B.A. cum laude '89, Macalester College. Degree: Master of Science, November '91. Major: Statistics. Minor: Related Fields. Major Adviser: F. Kinley Larntz

Wayne Owen Schaffran, Brooklyn Park

B.A. with distinction '82, University of Minnesota. Degree: Master of Science, November '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: David H. Du

Jeffrey Roland Schmit, Blackduck

B.S.E. cum laude '90, University of Michigan. Degree: Master of Science in Civil Engineering, March '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Field Instrumentation of Bridges. Major Adviser: Roberto Tomas Leon

Ling Shang

B.E. '82, Xian Jiaotong University. Degree: Master of Science in Electrical Engineering, January '92. Major: Electrical Engineering. Minor: Mechanical Engineering. Major Adviser: Stephen A. Campbell

Randy Allen Sherbrooke, Eden Prairie

B.S. '83, North Dakota State University. Degree: Master of Science in Electrical Engineering, November '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Keith S. Champlin

Suzan Gay Sherman, Rochester

B.S.N. '84, St. Olaf College. Degree: Master of Science, October '91. Major: Nursing. Minor: Related Fields. Major Adviser: A. Marilyn Sime

Christina Marie Siefferman, Minneapolis

B.S. '86, University of Minnesota. Degree: Master of Science, March '92. Major: Microbiology. Minor: Related Fields. Thesis: Studies of Polymorphonuclear Leukocyte Function in Cystic Fibrosis: Killing of *Pseudomonas aeruginosa* by a Bactericidal Protein. Major Adviser: Beulah H. Gray

Rosanne Lucy Sierzant, Minneapolis

B.S.B. '82, University of Minnesota. Degree: Master of Science, January '92. Major: Food Science. Minor: Related Fields. Thesis: Rheological Properties of Whole Milk Retentates. Major Adviser: David E. Smith

Sanjiv Kumar Sinha, Patna, Bihar, India

B.Eng. '89, University of Roorkee. Degree: Master of Science, January '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Mathematical Modeling of Longitudinal Profile of Rivers. Major Adviser: Gary Parker

Mary E. Skorzeski, St. Paul

B.S.N. '74, University of Iowa. Degree: Master of Science, March '92. Major: Nursing. Minor: Related Fields. Major Adviser: Laura J. Duckett

Douglas Steven Skrien, International Falls

B.A. '84, St. Olaf College. Degree: Master of Science in Industrial Engineering, December '91. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Patrick J. Starr

Laura Elizabeth Solem, Duluth

B.S. '84, University of Minnesota. Degree: Master of Science, February '92. Major: Pharmacology. Minor: Physiology. Thesis: Disruption of Cardiac Mitochondrial Respiration and Calcium Homeostasis by Doxorubicin. Major Adviser: Kendall B. Wallace

Laraine G. Tracy Steel, Edina

B.S. summa cum laude '78, Winona State University. Degree: Master of Science, December '91. Major: Nursing. Minor: Related Fields. Major Adviser: A. Marilyn Sime

Richard Alan Stein, Reseda, Calif.

B.A. '86, University of California. Degree: Master of Science, March '92. Major: Biochemistry. Minor: Related Fields. Thesis: Time-Resolved Rotational Dynamics of Phosphorescent-Labeled Myosin Heads in Contracting Muscle Fibers. Major Adviser: David D. Thomas

Michael Scott Steinbach, Hettinger, N.D.

B.Math. with high distinction '80, M.S. '82, University of Minnesota. Degree: Master of Science, January '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Shashi Shekhar

Ioannis Michael Stephanakis, Athens, Greece

Diploma '89, University of Patras. Degree: Master of Science in Electrical Engineering, October '91. Major: Electrical Engineering. Minor: Related Fields. Thesis: 1/f Noise in P- and N-Channel JFETs. Major Adviser: Arthur D. Vanrheenen

Christine Louise St. George, St. Paul

B.S. magna cum laude '78, College of St. Benedict. Degree: Master of Science, November '91. Major: Nursing. Minor: Gerontology. Thesis: Validation of the Proposed Nursing Diagnosis of Spasticity Utilizing Two Methodologies. Major Adviser: Mariah Snyder

James William Stopyro, Rochester

B.E.E. '84, University of Minnesota. Degree: Master of Science in Electrical Engineering, November '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: William A. Plice

Tarkus Suganda, Bandung, Indonesia

Sarjana '83, Padjadjaran University. Degree: Master of Science, October '91. Major: Plant Pathology. Minor: Entomology. Thesis: Resistance to Barley Net Blotch. Major Adviser: Roy D. Wilcoxson

Hery Suhartoyo, Indonesia

Sarjana '86, Universitas Gadjah Mada. Degree: Master of Science, January '92. Major: Forestry. Minor: Ecology. Thesis: Analysis Vegetation of the Cedar Creek Natural History Area Using Classification and Ordination Methods. Major Adviser: Edward I. Sucoff

Suresh Sundarraj

B.E. '89, Indian Institute of Science, Bangalore. Degree: Master of Science, October '91. Major: Mineral Engineering. Minor: Scientific Computation. Major Adviser: Vaughan R. Voller

Bert Theodore Swanson, St. Paul

B.M.E. with distinction '90, University of Minnesota. Degree: Master of Science in Mechanical Engineering, December '91. Major: Mechanical Engineering. Minor: Industrial Engineering. Thesis: Chip Radius of Curvature in Non-Orthogonal Turning. Major Adviser: Barney E. Klamecki

Deborah Edgerton Swartwood, Arden Hills

B.S. '76, South Dakota State University. Degree: Master of Science, December '91. Major: Hospital Pharmacy. Minor: Related Fields. Major Adviser: Charles E. Daniels

John Frederick Swigart, Minneapolis

B.S. '82, Colorado State University. Degree: Master of Science in Mechanical Engineering, January '92. Major: Mechanical Engineering. Minor: Industrial Engineering. Major Adviser: Arthur G. Erdman

David J. Ternes, Bismarck, N.D.

B.S. '84, North Dakota State University. Degree: Master of Science in Electrical Engineering, March '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Larry L. Kinney

Leslie Michelle TeWinkel, Minneapolis

B.S. '89, Calvin College. Degree: Master of Science, October '91. Major: Zoology. Minor: Related Fields. Major Adviser: William D. Schmid

Brian Edward Thomas, New Hope

B.A.E.M. '89, University of Minnesota. Degree: Master of Science in Aerospace Engineering, February '92. Major: Aerospace Engineering. Minor: Mechanical Engineering. Major Adviser: Yiyuan Zhao

Farry Tjhen, Cirebon, Indonesia

B.E.E. high distinction '87, M.S.E.E. '89, University of Minnesota. Degree: Master of Science, March '92. Major: Computer and Information Sciences. Minor: Business Administration. Major Adviser: Jaideep Srivastava

Sonda Jean Tolle, Minnetonka

B.S.N. '85, South Dakota State University. Degree: Master of Science, March '92. Major: Nursing. Minor: Related Fields. Major Adviser: Sandra R. Edwardson

Craig Alan Smith Tosomeen, Australia

Degree: Master of Science in Agricultural Engineering, October '91. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Modeling the Effects of Depression Focusing on Groundwater Recharge. Major Adviser: Bruce N. Wilson

Richard Howard Tran

B.E.E. with distinction '84, University of Minnesota. Degree: Master of Science in Electrical Engineering, October '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: P. Paul Ruden

Shegfang Tseng

B.M.E. '88, University of Minnesota. Degree: Master of Science in Mechanical Engineering, October '91. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Modeling of a Thermal Plasma CVD Reactor: Investigation of Hydrogen Concentrations in Diamond Deposition Involving Chemical Kinetics. Major Adviser: Emil Pfender

Mark Hamilton Uebel

B.A. '89, Grinnell College. Degree: Master of Science in Civil Engineering, February '92. Major: Civil Engineering. Minor: Related Fields. Thesis: The Aqueous Geochemistry of Aquifer Thermal Energy Storage. Major Adviser: Steven J. Eisenreich

John Parker Vandenberg-Daves

B.A. '87, Macalester College. Degree: Master of Science, October '91. Major: Forestry. Minor: Related Fields. Major Adviser: Charles R. Blinn

Shankar K. Venkataraman, Madras, India

B.Tech. '89, Indian Institute of Technology, Madras. Degree: Master of Science in Materials Science and Engineering, March '92. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Characterization of Thin Film Adhesive Strengths Using the Continuous Microscratch Technique. Major Adviser: William W. Gerberich

John Carl Voss, Burnsville

B.S. '87, University of Arizona. Degree: Master of Science, October '91. Major: Biochemistry. Minor: Internal Minor. Thesis: Effects of Melittin on Molecular Dynamics and Ca-ATPase Activity in Sarcoplasmic Reticulum Membranes: Time-Resolved Optical Anisotropy. Major Adviser: David D. Thomas

Chingwen Wang, Taiwan

B.S. '89, National Taiwan University. Degree: Master of Science, December '91. Major: Mathematics. Minor: Related Fields. Thesis: Analysis of the Stages of HIV Infection and its Impact on the Insurance Policies. Major Adviser: Stephen B. Agard

Li Wang, Shanghai, People's Republic of China

B.Eng. '85, Shanghai First Medical College. Degree: Master of Science in Electrical Engineering, December '91. Major: Electrical Engineering. Minor: Mechanical Engineering. Major Adviser: James E. Holte

Roderick Gerard Wautlet, Luxemburg, Wis.

B.S. Ag.Ed. '81, University of Wisconsin. Degree: Master of Science, February '92. Major: Animal Science. Minor: Statistics. Thesis: Calving Disorders of Primiparous Holsteins from Designed Selection Studies. Major Adviser: Leslie B. Hansen

Jing Wen

B.S. '85, Nanjing University. Degree: Master of Science, January '92. Major: Physics. Minor: Related Fields. Major Adviser: James Kakalios

Daniel James Widhalm

B.A.E.M. '90, University of Minnesota. Degree: Master of Science in Aerospace Engineering, March '92. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Yiyuan Zhao

Warsono Widjaja, Bogor, Indonesia

B.M.E. '88, University of Minnesota. Degree: Master of Science in Industrial Engineering, March '92. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Tarald O. Kvalseth

Carol O'Boyle Williams, St. Paul

B.S. '77, University of Minnesota. Degree: Master of Science, March '92. Major: Public Health. Minor: Related Fields. Major Adviser: Susan G. Gerberich

David Andrew Williams, Minneapolis

B.A. summa cum laude '83, St. Olaf College; M.A. '85, University of Washington. Degree: Master of Science, December '91. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: James R. Slagle

David Jay Williams, Madison, Wis.

B.S. with distinction '82, University of Wisconsin. Degree: Master of Science, December '91. Major: Food Science. Minor: Related Fields. Thesis: Use of Nisin-producing Starter Cultures for Control of Listeria monocytogenes in Fermented Milk and Cheese. Major Adviser: Sita R. Tatini

Jongok Won, Korea

B.S. '86, Yonsei University; M.S. '88, Inha University. Degree: Master of Science, November '91. Major: Chemistry. Minor: Related Fields. Thesis: Tracer Diffusion of Star Polymers. Major Adviser: Timothy P. Lodge

Jo-Nan Wu

B.V.M. '82, National Taiwan University; M.S. '86, Texas A&M University. Degree: Master of Science, November '91. Major: Health Informatics. Minor: Computer and Information Sciences. Major Adviser: Lael C. Gatewood

Zhiqiang Wu, Datong, Shanxi, People's Republic of China

B.S. '85, University of Science and Technology of China; M.S. '86, University of Wisconsin. Degree: Master of Science in Electrical Engineering, November '91. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Marat Davidovitz

Jiefeng Xu, Beijing, People's Republic of China
B.S. '86, Peking University. Degree: Master of Science.
January '92. Major: Cell and Developmental Biology.
Minor: Related Fields. Major Adviser: Donna R. Fontana

Ying Xue, Beijing, People's Republic of China
B.S. '83, Peking University, Branch College. Degree:
Master of Science. February '92. Major: Statistics.
Minor: Biostatistics. Major Adviser: Gary W. Oehlert

James William Yacynych, Plymouth
B.S. with honors '84, Michigan Technological University.
Degree: Master of Science in Electrical Engineering.
February '92. Major: Electrical Engineering. Minor:
Related Fields. Major Adviser: K. S. P. Kumar

Michael Edward Young, Minneapolis
B.S. '84, University of Illinois. Degree: Master of
Science, December '91. Major: Computer and
Information Sciences. Minor: Cognitive Science. Major
Adviser: John V. Carlis

James Edward Zenk, Minneapolis
B.S. '84, Iowa State University of Science and
Technology. Degree: Master of Science in Mechanical
Engineering, November '91. Major: Mechanical
Engineering. Minor: Related Fields. Major Adviser:
Jeffrey H. Vogel

Christopher Mark Zerby, Fridley
B.A.E.M. with distinction '85, University of Minnesota.
Degree: Master of Science in Mechanical Engineering,
October '91. Major: Mechanical Engineering. Minor:
Related Fields. Major Adviser: James W. Ramsey

Qing-Qing Zhang
B.S. '87, Fudan University. Degree: Master of Science,
February '92. Major: Animal Physiology. Minor: Related
Fields. Thesis: Hormonal Regulation of Nuclear
Sequence-Specific DNA-Binding Activities in Human
Breast and Ovarian Cancer Cells. Major Adviser:
Benjamin S. Leung

**Xin Zhou, Hubei Province, People's Republic of
China**
B.E. '87, Tsinghua University. Degree: Master of Science
in Mechanical Engineering, December '91. Major:
Mechanical Engineering. Minor: Related Fields. Thesis:
Modelling of Arc-Cathode Surface Interaction. Major
Advisers: Joachim V. R. Heberlein and Emil Pfender

Master of Science

University of Minnesota, Duluth

John William Ballantyne, Santa Ana, Calif.
Degree: Master of Science, December '91. Major:
Geology. Minor: Applied and Computational
Mathematics. Thesis: The Late-Wisconsin Stratigraphy
and Glacial History of Southwestern St. Louis County,
Minnesota. Major Adviser: Charles L. Matsch

Rebecca Ann Boley, Superior, Wis.
B.S. '86, Beloit College. Degree: Master of Science,
March '92. Major: Biology. Minor: Applied and
Computational Mathematics. Thesis: Effects of
Methoprene on Site Fidelity and Reproductive Success of
Male Red-Winged Blackbirds (*Agelaius phoeniceus*).
Major Adviser: Gerald J. Niemi

Patrick Timothy Collins, Duluth
B.S. magna cum laude '87, B.A.Sc. magna cum laude
'87, University of Minnesota. Degree: Master of Science,
December '91. Major: Biology. Minor: Applied and
Computational Mathematics. Thesis: Relationships
Between Invertebrate Biomass and Bird Abundance in
Northern Wisconsin Forests. Major Adviser: Gerald J.
Niemi

David John Edelbach
B.S. '86, St. Cloud State University. Degree: Master of
Science, March '92. Major: Chemistry. Minor: Related
Fields. Thesis: The Variation of the Octanol-Water
Partition Coefficient for Thirteen Acrylates. Major
Adviser: Donald P. Poe

Matthew Minor Evans, Duluth
B.Phys. '89, University of Minnesota. Degree: Master of
Science, February '92. Major: Physics. Minor: Applied
and Computational Mathematics. Major Adviser: Jonathan
Maps

Sudhamsa Gogineni, Andhra Pradesh, India
Degree: Master of Science, October '91. Major:
Computer Science. Minor: Applied and Computational
Mathematics. Major Adviser: Douglas J. Dunham

Mark Alan Hermeling, Minnetonka
B.S. '82, University of Minnesota. Degree: Master of
Science, March '92. Major: Biology. Minor: Related
Fields. Thesis: Microhabitat Use in Sympatric *Peromyscus*
maniculatus and *Peromyscus leucopus*. Major Adviser:
Donald P. Christian

Susan Rae Olson, Buffalo

B.S. '88, University of Minnesota. Degree: Master of Science, March '92. Major: Biology. Minor: Applied and Computational Mathematics. Thesis: Habitat Heterogeneity and Bird Species Composition in Central Minnesota Wetlands. Major Adviser: Gerald J. Niemi

Ora Larissa Raven, Duluth

B.S. '86, University of Minnesota. Degree: Master of Science, December '91. Major: Chemistry. Minor: Related Fields. Thesis: Isomers of diaquatris (1,1,1-trifluoro-d,4-pentanedionato) europium (III). Major Adviser: Larry C. Thompson

Kent William Schmidt, Redwood Falls

B.S. '85, Southwest State University. Degree: Master of Science, March '92. Major: Chemistry. Minor: Related Fields. Thesis: Fluorescence Emission Spectra of Various Rare Earth-Heterocyclic Nitrogen Complexes. Major Adviser: Larry C. Thompson

Amitabh Kumar Singhal, India

B.Eng. '89, University of Roorkee. Degree: Master of Science, March '92. Major: Computer Science. Minor: Applied and Computational Mathematics. Thesis: Relevance Feedback as a Tool in Information Retrieval. Major Adviser: Donald B. Crouch

Xiaonan Xue, Beijing, People's Republic of China

Degree: Master of Science, December '91. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Kang Ling James

Yongli Yang, Shanghai, People's Republic of China

B.S. '88, Fudan University. Degree: Master of Science, February '92. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Zhuangyi Liu

*Master of Arts***Pamela Paulson Aasen, Minneapolis**

B.S.Ed. cum laude '82, University of North Dakota. Degree: Master of Arts, March '92. Major: Educational Administration. Minor: Related Fields. Major Adviser: Charles H. Sederberg

Mary E. Abdul-Rahman, St. Paul

B.A. '69, Valparaiso University. Degree: Master of Arts, March '92. Major: Design, Housing, and Apparel. Minor: Related Fields. Thesis: Collections and Management Strategies of Religious Institutions in the Upper Midwest. Major Adviser: Timothy T. Blade

Fernando Enrique Alvarez, Buenos Aires, Argentina

Licenciado en Economia '89, Universidad Nacional de la Plata. Degree: Master of Arts, March '92. Major: Economics. Minor: Related Fields. Major Adviser: Neil Wallace

Susan Kaye Anderson

B.S.Ed. '77, Minot State College. Degree: Master of Arts, October '91. Major: Mathematics Education. Minor: Related Fields. Major Adviser: Robert E. Orton

Terri Lynne Anderson

B.A. cum laude '77, St. Olaf College. Degree: Master of Arts, March '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Jack C. Merwin

Andrew R. Apel, St. Paul

B.A. with honors '79, M.A. '80, University of Northern Iowa; J.D. '83, University of Iowa. Degree: Master of Arts, March '92. Major: Philosophy. Minor: Related Fields. Major Adviser: Douglas E. Lewis

Chitose Asaoka, Kobe, Japan

B.A. '89, Osaka University. Degree: Master of Arts, March '92. Major: English as a Second Language. Minor: Related Fields. Thesis: The Effects of Reading Strategies on Reading Comprehension in Japanese as a Native Language and English as a Second Language. Major Adviser: Amy L. Sheldon

Stephen Eric Asche, Minneapolis

B.A. '86, University of Minnesota. Degree: Master of Arts, March '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Donald G. Maceachern

Paul Michel Baepler, Valparaiso, Ind.

B.A. '83, Carleton College. Degree: Master of Arts, January '92. Major: English. Minor: Related Fields. Major Adviser: Edward M. Griffin

Bradley Michael Ball-Harney, Oxford, Iowa

B.A. '89, University of Nevada. Degree: Master of Arts, November '91. Major: History. Minor: Related Fields. Major Adviser: Barbara A. Hanawalt

William Francis Barthelmy, Lake Elmo

B.A. with honors '88, Macalester College. Degree: Master of Arts, February '92. Major: German. Minor: Related Fields. Major Adviser: Ray M. Wakefield

Elizabeth Andress Bejarin, Minneapolis

B.A. summa cum laude '81, Luther College. Degree: Master of Arts, November '91. Major: Education. Minor: Related Fields. Major Adviser: Harlan G. Copeland

James Joseph Berg, Superior, Wis.

B.A. cum laude '86, University of Minnesota. Degree: Master of Arts, February '92. Major: English. Minor: Related Fields. Major Adviser: Archibald I. Leyasmeyer

Patricia Ann Weber Binder, Eau Claire, Wis.

B.A. '73, Wisconsin State University. Degree: Master of Arts, November '91. Major: Art Education. Minor: Related Fields. Major Adviser: Margaret K. Diblasio

Heather Marie Bissonette, Stewartville

B.S. '87, Mankato State University. Degree: Master of Arts, October '91. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Cheri Ostroff

Patricia Carol Bland, Mendota Heights

B.S. with distinction '77, University of Minnesota. Degree: Master of Arts, March '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Douglas H. Anderson

Thomas Tysdale Boehne, Parkers Prairie

B.S. '80, Moorhead State University. Degree: Master of Arts, November '91. Major: Education. Minor: Related Fields. Major Adviser: Michael F. Graves

Dario Borim, Jr., Paraguacu, M.G., Brazil

Licenciatura '87, Universidade Federal de Minas Gerais. Degree: Master of Arts, November '91. Major: Luso-Brazilian Literature. Minor: English. Major Adviser: Ronald W. Sousa

Donna Lynn Boswell, Lynchburg, Va.

B.A. '89, University of North Carolina. Degree: Master of Arts, February '92. Major: Economics. Minor: Related Fields. Major Adviser: Kenneth I. Wolpin

Carol Ann Brager

B.S. '73, University of Minnesota. Degree: Master of Arts, February '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Cheri Ostroff

Julia Elizabeth Brantley, Atlanta, Georgia

B.A. '87, Emory University. Degree: Master of Arts, December '91. Major: Economics. Minor: Related Fields. Major Adviser: Neil Wallace

Janet Mayer Brisson, Bloomington

A.B. '73, Grinnell College. Degree: Master of Arts, November '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Joe E. Reichle

Susan Eddara Brown, Minneapolis

B.S. '86, University of Minnesota. Degree: Master of Arts, October '91. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Marian O. Bagley

Kristine Joelle Butler, Indianola, Iowa

B.A. with distinction '89, Carleton College. Degree: Master of Arts, December '91. Major: French. Minor: Related Fields. Thesis: Crimes of Passion: Death, Desire, and the Place of Woman in the Works of Marguerite Duras. Major Adviser: Eileen B. Sivert

Ruth Ellen Bygness, San Diego, Calif.

B.A. cum laude '79, St. Olaf College. Degree: Master of Arts, November '91. Major: English. Minor: Related Fields. Major Adviser: Gordon W. O'Brien

Janet Marie Cameron

B.F.A. '80, Central Michigan University. Degree: Master of Arts, June '91. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Eugene D. Larkin

Paul Chang, Perth, W.A., Australia

B.Sc. '85, University of Western Australia. Degree: Master of Arts, December '91. Major: Psychology. Minor: Related Fields. Thesis: Temporal Windows for Signals Presented at Uncertain Times. Major Adviser: Neal F. Viemeister

David Elliot Chayer, Minneapolis

B.A. '82, University of Minnesota. Degree: Master of Arts, January '92. Major: Educational Psychology. Minor: Statistics. Major Adviser: James S. Terwilliger

Chunju Chen, Wuhan, People's Republic of China

B.A. '82, Wuhan Geological College. Degree: Master of Arts, November '91. Major: Agricultural Education. Minor: Related Fields. Major Adviser: Gary W. Leske

Xinghui Chen, Beijing, People's Republic of China

B.A. '82, Peking University. Degree: Master of Arts, March '92. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Elaine E. Tarone

Margaret Beth Cherne, Ely

B.S. with highest honors '77, University of Wisconsin. Degree: Master of Arts, March '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Glen W. Gadberry

Terry E. Chism, Lino Lakes

B.A. '71, St. Mary's College. Degree: Master of Arts, December '91. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Mahmood A. Zaidi

Youngmee Cho, Korea

B.A. '81, Kyungpook National University; M.A. '84, Hankuk University. Degree: Master of Arts, February '92. Major: English. Minor: Related Fields. Major Adviser: Archibald I. Leyasmeyer

Thomas Dean Clark

B.A. '84, Carleton College. Degree: Master of Arts, March '92. Major: Russian Area Studies. Major Adviser: Gary R. Jahn

Barbara Lynne Daiker, Minneapolis

B.S. cum laude '84, Augsburg College. Degree: Master of Arts, February '92. Major: Educational Psychology. Minor: Related Fields. Thesis: A Study of the Lucidity of Oral Presentations. Major Adviser: Wayne W. Welch

Kristen Lynn DeBruin

B.S. '71, University of Wisconsin. Degree: Master of Arts, November '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Samuel K. Haroldson

Arlene J. Diaz, Puerto Rico

B.A. with high honors '87, University of Puerto Rico. Degree: Master of Arts, October '91. Major: History. Minor: Related Fields. Major Adviser: Robert E. McCaa

Herbert J. Dick, Apple Valley

B.S. magna cum laude '80, Mankato State University. Degree: Master of Arts, November '91. Major: Music Education. Minor: Related Fields. Major Adviser: Stephen Schultz

Kendra Gail Dillard, St. Paul

B.S. '76, Appalachian State University. Degree: Master of Arts, January '92. Major: History. Minor: Museology. Thesis: Ramsey County Farming and Farm Families: Urban Agriculture in 19th Century Minnesota. Major Adviser: Russell R. Menard

Ngan Kieu Doan, Minneapolis

Degree: Master of Arts, October '91. Major: French. Minor: Linguistics. Major Adviser: Maria F. Paganini

Stephen Randall Donaho

B.A. cum laude '88, State University of New York. Degree: Master of Arts, October '91. Major: Philosophy. Minor: Related Fields. Major Adviser: John M. Dolan

Daniel R. Doyle

B.A. '83, Winona State University; B.A. '87, University of Minnesota. Degree: Master of Arts, November '91. Major: History. Minor: Related Fields. Major Adviser: James D. Tracy

Anne Elizabeth Duggan, Greendale, Wis.

B.A. magna cum laude '89, University of Minnesota. Degree: Master of Arts, March '92. Major: French. Minor: Related Fields. Major Adviser: Maria F. Paganini

Rodney Alan Elmstrand, North Branch

B.S. '79, University of Minnesota. Degree: Master of Arts, January '92. Major: Agricultural Education. Minor: Related Fields. Major Adviser: Roland L. Peterson

Therese Marie Ensley, Minneapolis

B.A. '84, B.S. '84, University of Minnesota. Degree: Master of Arts, December '91. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

Mark William Erickson, Markville

B.A. '89, University of Minnesota. Degree: Master of Arts, January '92. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

Steven Ronald Erickson, Minneapolis

B.A. cum laude '80, Bethel College. Degree: Master of Arts, January '92. Major: Business Education. Minor: Related Fields. Major Adviser: Gary N. McLean

Michal Frenzel

B.A. summa cum laude '88, University of Minnesota. Degree: Master of Arts, January '92. Major: Art Education. Minor: Studio Arts. Major Adviser: Margaret K. Diblasio

Anthony John Gantenbein, West Bend, Wis.

B.A. '81, University of Wisconsin. Degree: Master of Arts, November '91. Major: Industrial Relations. Minor: Related Fields. Major Adviser: John A. Fossum

Kent Douglas Gay, Worthington

B.E.D. '87, University of Minnesota. Degree: Master of Arts, January '92. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Marian O. Bagley

Meri Denise Golden, Minneapolis

A.B. '71, Smith College; M.A. '78, University of Minnesota. Degree: Master of Arts, March '92. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Janice A. Peck

Miriam Fay Goldfein

B.A. cum laude '87, University of Pennsylvania. Degree: Master of Arts, January '92. Major: Public Affairs. Major Adviser: Morris M. Kleiner

Heidi Joyce Graf, Sheboygan, Wis.

B.A. cum laude '86, St. Olaf College. Degree: Master of Arts, March '92. Major: Speech-Communication. Minor: Related Fields. Thesis: The 1988 Summer Olympic Games: An Intercultural Communication Perspective. Major Adviser: Richard E. Sykes

Juan Carlos Gutierrez Pardo, Bogota, Colombia

Especialista '88, Universidad de Los Andes. Degree: Master of Arts, December '91. Major: Industrial Relations. Minor: Related Fields. Major Adviser: John A. Fossum

Nancy Marie Woody Haack, Brooklyn Park

B.S. summa cum laude '89, St. Cloud State University. Degree: Master of Arts, November '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Timothy N. Doyle

Tamara Grace Hancock, Boulder, Colo.

A.B. '83, Grinnell College. Degree: Master of Arts, February '92. Major: Public Affairs. Major Adviser: John E. Brandl

David Lind Hansen, St. Paul

B.A. '75, University of Minnesota. Degree: Master of Arts, October '91. Major: Mass Communication. Minor: Related Fields. Major Adviser: Phillip J. Tichenor

David Kuhio Haugen, St. Paul

B.A. '77, St. Olaf College. Degree: Master of Arts, December '91. Major: Public Affairs. Major Adviser: John E. Brandl

Wayne Raymond Hayes, Minneapolis

B.A. '85, University of Minnesota. Degree: Master of Arts, December '91. Major: French. Minor: Related Fields. Thesis: The Ethics of Ambiguity: Variations on the Form of the Good and the Enforcement of Morals in La Chute and L'Immoraliste. Major Adviser: Tom C. Conley

Erin L. Herman, St. Louis Park

B.S.Ed. summa cum laude '84, University of North Dakota. Degree: Master of Arts, March '92. Major: Educational Administration. Minor: Related Fields. Major Adviser: Van Dyck Mueller

Robert Mason Hogg, Iowa City, Iowa

B.A. with highest distinction '88, University of Iowa. Degree: Master of Arts, October '91. Major: Public Affairs. Major Adviser: Donald P. Geesaman

Laurie Ann Holm, Roseville

B.S. with distinction '83, University of Minnesota. Degree: Master of Arts, December '91. Major: Elementary Education. Minor: Related Fields. Major Adviser: Robert Dykstra

Stephen James Houtz, St. Paul

B.M. '80, Indiana University. Degree: Master of Arts, February '92. Major: Music. Minor: Related Fields. Thesis: Kaleidoscope for Guitar and Orchestra. Major Adviser: Dominick J. Argento

Marte Hvam Hult, Minneapolis

A.B. '69, University of South Dakota. Degree: Master of Arts, December '91. Major: Scandinavian Studies. Minor: Related Fields. Major Adviser: J. Allen Simpson

Susan Marie Illg, Minneapolis

B.A. '80, College of St. Catherine. Degree: Master of Arts, January '92. Major: Public Affairs. Major Adviser: John E. Brandl

Yoshihisa Itaba, Japan

B.A. '86, Dokkyo University. Degree: Master of Arts, November '91. Major: Speech-Communication. Minor: English as a Second Language. Major Adviser: J. Vernon Jensen

John Gregory Jaimez, California

B.S. '88, Northland College. Degree: Master of Arts, November '91. Major: Public Affairs. Major Adviser: Donald P. Geesaman

Charles Earl Johnson, Minneapolis

B.A. magna cum laude '83, Carroll College. Degree: Master of Arts, December '91. Major: Public Affairs. Major Adviser: Nancy N. Eustis

Heidi Hope Johnson, Cold Spring

B.A. magna cum laude '84, Carleton College. Degree: Master of Arts, October '91. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

Marilyn Adams Johnson, Minneapolis

B.S. with high distinction '77, University of Minnesota. Degree: Master of Arts, December '91. Major: Home Economics Education. Minor: Related Fields. Thesis: Nutrition Education in Development: An Interpretive Case Study in Rural Liberia. Major Adviser: Jane E. Plihal

Stephanie Leanne Johnson, Bloomington

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

Diane Elaine Justice, Arlington, Va.

B.A. cum laude '72, Luther College. Degree: Master of Arts, October '91. Major: Public Affairs. Major Adviser: Nancy N. Eustis

Leah Nicole Kadar, Anoka

B.A. '86, University of Minnesota. Degree: Master of Arts, November '91. Major: Marketing Education. Minor: Related Fields. Major Adviser: James R. Stone III

Lincoln August Kallsen, St. Louis Park

B.A. '89, University of Minnesota. Degree: Master of Arts, October '91. Major: Education. Minor: Related Fields. Major Adviser: Darrell R. Lewis

Elizabeth Anne Kautz, St. Paul

B.A. magna cum laude '87, Trinity University. Degree: Master of Arts, October '91. Major: German. Minor: Related Fields. Major Adviser: Ruth-Ellen B. Joeres

Julie Paepke Knapp, St. Cloud

B.S. summa cum laude '89, University of Minnesota. Degree: Master of Arts, November '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Gerald M. Siegel

John M. Knoepfle, Auburn, Ill.

B.A. '80, M.A. '84, Sangamon State University. Degree: Master of Arts, February '92. Major: Public Affairs. Major Adviser: John E. Brandl

Kathy Jo Kolb, Minneapolis

B.S. with honors '82, University of Wisconsin. Degree: Master of Arts, January '92. Major: Child Psychology. Minor: Related Fields. Major Adviser: Shirley G. Moore

David Keith Koller

B.A. '78, Kenyon College. Degree: Master of Arts, March '92. Major: Sociology. Minor: Related Fields. Major Adviser: Joseph Galaskiewicz

Sarah Ellis Kopf, Minneapolis

B.A. '87, Macalester College. Degree: Master of Arts, December '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra L. Christenson

Dawn Downey Kovats, Santa Barbara, Calif.

B.A. '73, Pomona College. Degree: Master of Arts, February '92. Major: Education. Minor: Related Fields. Major Adviser: Karen S. Louis

Jennifer Mae Lang, Bloomington

B.A. '86, University of Wisconsin. Degree: Master of Arts, December '91. Major: Hispanic Linguistics. Minor: Related Fields. Major Adviser: Carol A. Klee

Nancy M. Lange, St. Paul

B.S. with distinction '81, Iowa State University of Science and Technology. Degree: Master of Arts, March '92. Major: Public Affairs. Major Adviser: Donald P. Geesaman

Donna Lazarus, Brooklyn, N.Y.

B.A. '89, Hunter College. Degree: Master of Arts, March '92. Major: Hispanic Literature. Minor: Related Fields. Thesis: Construction of Bolivian National Identity Through Children's Literature. Major Adviser: Hernan Vidal

Mary Jane Leach-Rudawski, Shoreview

B.A. '87, University of Minnesota. Degree: Master of Arts, January '92. Major: English. Minor: Related Fields. Major Adviser: Kent R. Bales

Chu-Chan Lee, Taipei, Taiwan

B.A. '86, National Sun Yat-Sen University. Degree: Master of Arts, December '91. Major: Mass Communication. Minor: Related Fields. Major Adviser: Tsan-Kuo Chang

Ki-Jeong Lee, Seoul, Korea

B.A. '83, M.A. '85, Hanyang University. Degree: Master of Arts, December '91. Major: Linguistics. Minor: Related Fields. Major Adviser: Joseph P. Stemberger

Carrie J. Legus

B.A. '83, Macalester College. Degree: Master of Arts, March '92. Major: Comparative Literature. Minor: Hispanic Literature. Major Adviser: Ronald W. Sousa

Vicki Sue Leitermann, Wauwatosa, Wis.

B.S. '89, University of Wisconsin. Degree: Master of Arts, October '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Dianne J. Vantassel

Julie Barker Lensing, Minneapolis

B.S.B. '84, University of Minnesota. Degree: Master of Arts, March '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Ross E. Azevedo

Deborah Elanah Levitt, Palo Alto, Calif.

B.A. with honors '88, University of California. Degree: Master of Arts, January '92. Major: Art History. Minor: Related Fields. Major Adviser: Gabriel P. Weisberg

Bradley Rhys Lewis, Milwaukee, Wis.

B.A. '87, Lafayette College. Degree: Master of Arts, February '92. Major: History. Minor: Related Fields. Major Adviser: Paul L. Murphy

Roger B. Light

B.S. magna cum laude '87, Texas Christian University. Degree: Master of Arts, January '92. Major: Family Social Science. Minor: Related Fields. Thesis: The Measurement of Power and Control in Marital Relationships: A Dialectical, Ecosystemic Approach. Major Adviser: James W. Maddock

Shelley Kay Lund, Edina

A.B. with distinction '89, University of Michigan. Degree: Master of Arts, December '91. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Karlind T. Moller

M. Angeles Martin-Moran, Bilbao, Spain

Licenciado '88, Universidad De Deusto. Degree: Master of Arts, October '91. Major: Hispanic Linguistics. Minor: Related Fields. Major Adviser: Carol A. Klee

Tod Franklin McManis

B.A. '86, Berry College. Degree: Master of Arts, October '91. Major: History. Minor: Related Fields. Major Adviser: William D. Phillips, Jr.

Diane Lynn McNutt, Bloomington

B.S. '84, University of Minnesota. Degree: Master of Arts, January '92. Major: Business Education. Minor: Related Fields. Major Adviser: Gary N. McLean

Lara Julie Meinheit, Arlington Heights, Ill.

B.S. '90, University of Illinois. Degree: Master of Arts, February '92. Major: Educational Administration. Minor: Related Fields. Major Adviser: Van Dyck Mueller

Elizabeth Kolbinger Menon, Minneapolis

B.A. summa cum laude '90, University of Minnesota. Degree: Master of Arts, November '91. Major: Art History. Minor: Related Fields. Major Adviser: Gabriel P. Weisberg

Peter Sowah Mensah, Teshie, Greater Accra, Ghana

B.A. '78, University of Ghana. Degree: Master of Arts, January '92. Major: Music. Minor: Related Fields. Major Adviser: Alan L. Kagan

Emily Ann Mielke, Ft. Collins, Colo.

B.S. with high distinction '89, Colorado State University. Degree: Master of Arts, January '92. Major: Communication Disorders. Minor: Related Fields. Thesis: Responses of Children to Requests for Clarification Made by Familiar and Unfamiliar Adult Speaking Partners. Major Adviser: Joe E. Reichle

H. Reiju Mihara, Japan

B.A. '87, International Christian University. Degree: Master of Arts, November '91. Major: Mathematics. Minor: Related Fields. Major Adviser: Marian B. Pour-El

Jo Ellen Miller, West St. Paul

B.A. with highest distinction '83, University of Iowa. Degree: Master of Arts, November '91. Major: Elementary Education. Minor: Related Fields. Major Adviser: Robert Dykstra

Karine Swensen Moe, Minneapolis

B.A. cum laude '85, St. Olaf College; M.P.P. '89, Harvard University. Degree: Master of Arts, February '92. Major: Economics. Minor: Related Fields. Major Adviser: Kenneth I. Wolpin

Astrid Mohn, Minneapolis

B.S. magna cum laude '87, St. Cloud State University. Degree: Master of Arts, October '91. Major: Mass Communication. Minor: Related Fields. Major Adviser: John C. Busterna

Joyce Clemenhagen Moon, Seattle, Wash.

B.S. cum laude '87, University of Washington. Degree: Master of Arts, December '91. Major: Child Psychology. Minor: Related Fields. Major Adviser: Willard W. Hartup

Jessica K. Morgan

B.I.S. '84, University of Minnesota. Degree: Master of Arts, March '92. Major: Anthropology. Minor: Feminist Studies. Major Adviser: Luther P. Gerlach

Thomas Verne Moss, Minneapolis

B.A. '74, University of Minnesota. Degree: Master of Arts, December '91. Major: Public Affairs. Major Adviser: Nancy N. Eustis

Kiyoko Motoyama, Tokyo, Japan

B.A. '87, Japan Women's University. Degree: Master of Arts, December '91. Major: Theatre Arts. Minor: Related Fields. Major Adviser: James Norwood

Michelle Mouton

B.A. with honors '87, University of Wisconsin. Degree: Master of Arts, February '92. Major: History. Minor: Feminist Studies. Major Adviser: Mary J. Maynes

Cheryl A. Nairne, Minneapolis

B.S. '80, University of Wisconsin. Degree: Master of Arts, December '91. Major: Geography. Minor: Related Fields. Thesis: Problems of Pharmaceutical Supply in a Third World Setting. Major Adviser: Connie H. Weil

Kiyoshi Nakasaka, Tokyo, Japan

B.A. '89, Sophia University. Degree: Master of Arts, December '91. Major: Public Affairs. Major Adviser: Robert T. Kudrle

Deborah Streefland Neubauer

B.A. '86, College of St. Catherine. Degree: Master of Arts, December '91. Major: History. Minor: Related Fields. Thesis: Pope Pius XII and Vatican Diplomacy During the Second World War. Major Adviser: David O. Kieft

Susanne Lehmann Nevin

B.A. '80, M.A. '82, University of Minnesota. Degree: Master of Arts, December '91. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

Gretchen Helen Newman

B.S. '71, University of Minnesota. Degree: Master of Arts, December '91. Major: Education. Minor: Related Fields. Major Adviser: James A. Mackey

Nancy Ann Pullis Nutting, Richfield

B.A. cum laude '70, Augsburg College. Degree: Master of Arts, December '91. Major: Mathematics Education. Minor: Related Fields. Major Adviser: Robert L. Jackson

Kimberly K. Otte, Minneapolis

B.A. '88, Baylor University. Degree: Master of Arts, January '92. Major: Philosophy. Minor: Related Fields. Major Adviser: Marcia M. Eaton

Timothy Shawn Panzer, Weslaco, Tex.

B.A. magna cum laude '86, Colorado College. Degree: Master of Arts, December '91. Major: Geography. Minor: Related Fields. Thesis: HIV/AIDS and Migration in South Texas. Major Adviser: Connie H. Weil

Robert Alan Paolino, Albany, N.Y.

A.B. summa cum laude '84, Washington University in St. Louis. Degree: Master of Arts, December '91. Major: Public Affairs. Major Adviser: John E. Brandl

Erick Scott Parker, Indianapolis, Ind.

B.A. '89, Indiana University. Degree: Master of Arts, February '92. Major: Ancient Studies. Thesis: Cultural Contact in the European Iron Age: A World-System Approach. Major Adviser: Peter S. Wells

Jeffrey Todd Radford, Sharon, Pa.

B.A. '88, University of Minnesota. Degree: Master of Arts, February '92. Major: English. Minor: Related Fields. Major Adviser: Patricia M. Hampl

Kathryn Sue Radosta, Prior Lake

B.A. '89, University of Minnesota. Degree: Master of Arts, November '91. Major: Russian Area Studies. Major Adviser: Gary R. Jahn

Richard William Reid, Minneapolis

B.A. magna cum laude '59, University of Minnesota. Degree: Master of Arts, December '91. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

Juan Manuel Renero, Mexico

Licenciado '85, Universidad Nacional Autonoma de Mexico; Maestria '85, El Centro de Investigacion y Docenta Economicas. Degree: Master of Arts, March '92. Major: Economics. Minor: Related Fields. Major Adviser: Neil Wallace

Valerie Jayne Riley, Eagan

B.A. '74, Moody Bible Institute; B.A. with high honors '86, Cedarville College. Degree: Master of Arts, December '91. Major: Educational Psychology. Minor: Communication Disorders. Major Adviser: Stanley L. Deno

Hsiao-Lan Tou Roberts

M.Ed. '87, University of Montana. Degree: Master of Arts, January '92. Major: Chinese. Minor: Related Fields. Major Adviser: Stephen S. Wang

Lynn Priddy Rozumalski, Rhinelander, Wis.

B.A. summa cum laude '82, State University College of Arts and Science. Degree: Master of Arts, March '92. Major: Education. Minor: Related Fields. Major Adviser: Michael F. Graves

Regina Louise Sacchetti

B.S. magna cum laude '88, University of Wisconsin. Degree: Master of Arts, February '92. Major: Design, Housing, and Apparel. Minor: Museum Studies. Thesis: Development of a Methodology for Dating Millinery in the Goldstein Costume Collection. Major Adviser: Marilyn R. Delong

Ronald Robert Salmela, Minneapolis

B.A. '79, University of Minnesota. Degree: Master of Arts, November '91. Major: Public Affairs. Major Adviser: John E. Brandl

Francisco Javier Sasigain, Guipuzcoa, Spain

Licenciado '85, Universidad del Pais Vasco. Degree: Master of Arts, December '91. Major: Economics. Minor: Related Fields. Major Adviser: Timothy Kehoe

Karen Evans Schleisman, Minneapolis

B.S. with distinction '76, University of Minnesota. Degree: Master of Arts, June '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: William M. Bart

Jana Kate Schulman, New York, N.Y.

A.B. '81, Barnard College; M.A. '83, Columbia University. Degree: Master of Arts, January '92. Major: Germanic Philology. Major Adviser: Kaaren E. Grimstad

John Paul Seal, Minneapolis

B.A. '86, St. Olaf College. Degree: Master of Arts, February '92. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

Motoji Sengiku

B.Ed. '90, Hiroshima University. Degree: Master of Arts, March '92. Major: Education. Minor: Related Fields. Major Adviser: Constance L. Walker

James Charles Sesil, St. Paul

B.A. '82, St. John's University. Degree: Master of Arts, February '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Raymond A. Noe

Dawne Starkey Sipe, Minneapolis

B.A. cum laude '77, Augustana College. Degree: Master of Arts, November '91. Major: Kinesiology. Minor: Related Fields. Thesis: Isometric Trunk Extension and Flexion Strength in Female and Male Competitive Rowers. Major Adviser: Robert C. Serfass

David Julian Sletten, Minnetonka

B.M. '82, University of Minnesota. Degree: Master of Arts, December '91. Major: Music. Minor: Related Fields. Major Adviser: Paul Fetler

Amy Noelani Spiegel

B.A. '86, Rice University. Degree: Master of Arts, October '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Robert H. Bruininks

Nancy Ann Staur, Minneapolis

B.S. '88, University of Minnesota. Degree: Master of Arts, February '92. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Stuart J. Schleien

Nina Stern, Minneapolis

B.A. '83, University of Wisconsin. Degree: Master of Arts, February '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: John A. Fossum

Jeffrey Leslie Stewart, Cleveland, Ohio

B.A. '86, Cleveland State University. Degree: Master of Arts, October '91. Major: History. Minor: Related Fields. Major Adviser: Stuart B. Schwartz

John Charles Swanson, St. Cloud

B.A. cum laude '87, Boston University. Degree: Master of Arts, December '91. Major: History. Minor: Related Fields. Thesis: Otto Bauer as Foreign Minister. Major Adviser: William E. Wright

Chiu Wan Tam

B.Soc.Sc. '84, M.S.W. '86, University of Hong Kong. Degree: Master of Arts, January '92. Major: Home Economics Education. Minor: Related Fields. Thesis: Child-Rearing Experiences of Chinese American Parents. Major Adviser: Jane E. Plihal

Mark A. Tateosian, North St. Paul

B.S. '83, University of Minnesota. Degree: Master of Arts, February '92. Major: Educational Administration. Minor: Related Fields. Major Adviser: Gary F. Alkire

Mary Leeann Teymour, St. Cloud

B.S. magna cum laude '84, St. Cloud State University. Degree: Master of Arts, March '92. Major: Mass Communication. Minor: Related Fields. Thesis: Political Conflict and Media Legitimation of the Antinuclear Weapons Movement: A Case Study. Major Adviser: Chin-Chuan Lee

Joan Elizabeth Thompson

B.A. '74, Fort Lewis College. Degree: Master of Arts, March '92. Major: English. Minor: Related Fields. Major Adviser: Philip G. Furia

Karin Birgitta Johansson Tims, Marstrand, Sweden

B.A. '84, Pitzer College. Degree: Master of Arts, November '91. Major: Mass Communication. Minor: Related Fields. Thesis: Television News in Transition: The Impact of Economic, Regulatory and Technological Trends on Television News in Western Europe. Major Adviser: Chin-Chuan Lee

Janet C. Titus, Newport, R.I.

B.A. summa cum laude '84, Salve Regina College. Degree: Master of Arts, December '91. Major: Educational Psychology. Minor: Related Fields. Thesis: The Concept of Fractional Number Among Hearing-Impaired Students. Major Advisers: Wayne W. Welch and Thomas R. Post

Eliza Tocher, Portland, Ore.

B.A. with distinction '87, Whitman College. Degree: Master of Arts, March '92. Major: French. Minor: Feminist Studies. Major Adviser: Eileen B. Sivert

John Mortyn Uldrich, Minneapolis

B.A. cum laude '86, Drake University. Degree: Master of Arts, January '92. Major: Public Affairs. Major Adviser: John E. Brandl

Marcelo Luis Veracierto, Argentina

Licenciado '89, Universidad de Buenos Aires. Degree: Master of Arts, February '92. Major: Economics. Minor: Related Fields. Major Adviser: Edward C. Prescott

Beverly Elaine Volkman, Faribault

B.M.Ed. '72, Wisconsin State University. Degree: Master of Arts, December '91. Major: Music Education. Minor: Related Fields. Major Adviser: Stephen Schultz

Todd G. Wagner, Minneapolis

B.A. '84, University of Minnesota. Degree: Master of Arts, March '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: James S. Terwilliger

Christopher Allen Weigand

B.A. magna cum laude '87, Trinity University. Degree: Master of Arts, March '92. Major: Philosophy. Minor: Related Fields. Major Adviser: William H. Hanson

Karon Kristine Wendt, Bloomington

B.F.A. cum laude '72, Pacific Lutheran University. Degree: Master of Arts, March '92. Major: Education. Minor: Related Fields. Major Adviser: Michael F. Graves

Robin Lee Wetzel, Columbus, Ohio

B.A. '81, Ohio State University. Degree: Master of Arts, January '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Marie Knowlton

Keith B. Williams, Menomonee Falls, Wis.

B.A. '89, Macalester College. Degree: Master of Arts, March '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Geoffrey M. Maruyama

Sarah Anne Williams, Rochester

A.B. '88, Boston College. Degree: Master of Arts, December '91. Major: Mass Communication. Minor: Related Fields. Major Adviser: Daniel B. Wackman

Gary Arthur Yanagita

B.S.W. '79, Moorhead State University. Degree: Master of Arts, February '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Mahmood A. Zaidi

Yu Yang, People's Republic of China

B.S. '82, Nanjing University. Degree: Master of Arts, January '92. Major: Geography. Minor: Related Fields. Major Adviser: John S. Adams

Yajiang Zhang, Beijing, People's Republic of China

B.A. '84, B.A. '86, Peking University. Degree: Master of Arts, December '91. Major: Mass Communication. Minor: Related Fields. Major Adviser: Chin-Chuan Lee

Bin Zhao, People's Republic of China

B.A. '84, M.A. '87, Peking University. Degree: Master of Arts, December '91. Major: Chinese. Minor: Related Fields. Major Adviser: Stephen S. Wang

Master of Arts

University of Minnesota, Duluth

Denise Hansen Carlson, Duluth

B.A. '80, University of Minnesota. Degree: Master of Arts. December '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Moy F. Gum

Simon Peter Gray, Wendover, Bucks, U.K.

B.F.A. cum laude '88, Virginia Commonwealth University. Degree: Master of Arts, October '91. Major: Art. Minor: Related Fields. Major Adviser: Leif Brush

Cindy W. May, Wisconsin Rapids, Wis.

B.S.W. '81, University of Wisconsin. Degree: Master of Arts. November '91. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Marlowe H. Smaby

Barbara Claire Johnson Miro, Virginia

B.A. '63, University of Minnesota. Degree: Master of Arts. March '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Marlowe H. Smaby

Christos Napoleon Petsoulis

B.A. '85, University of Minnesota. Degree: Master of Arts. March '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Moy F. Gum

Richard Paul Senese, Buhl

B.A. cum laude '85, University of Minnesota. Degree: Master of Arts, January '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Moy F. Gum

Specialist Certificate in Education

Sarah Ellis Kopf, Minneapolis

B.A. '87, Macalester College. Degree: Certificate of Specialist in Education, January '92. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: James E. Ysseldyke

Donna Billeaux Nelson, Coon Rapids

B.S.Ed. '60, Illinois State Normal University. Degree: Certificate of Specialist in Education, October '91. Major: Educational Administration. Field: General Educational Administration. Major Adviser: Richard F. Weatherman

Amy Noelani Spiegel

B.A. '86, Rice University. Degree: Certificate of Specialist in Education, November '91. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Robert H. Bruininks

Doctor of Education

Nicasio Cruzcapeles, San Lorenzo, Puerto Rico

B.A.Ed. with honors '65, University of Puerto Rico; M.Ed. '69, Wayne State University. Degree: Doctor of Education, October '91. Major: Vocational Education. Minor: Supporting Program. Project: The Development and Evaluation of a Course on Strategies for Quality Management and Productivity Improvement. Major Adviser: Gary N. McLean

Bonnie K. Kolocek Edwards, Eveleth

B.S. '72, Bemidji State University; M.Ed. '83, University of Minnesota. Degree: Doctor of Education, December '91. Major: Vocational Education. Minor: Supporting Program. Project: Intercultural Communication Requirements in International Business Corporations. Major Adviser: Charles R. Hopkins

Judith Meryl Eaton Lamp, New Brighton

B.S. '69, M.S.Ed. '70, Bemidji State College. Degree: Doctor of Education, December '91. Major: Educational Administration. Minor: Supporting Program. Thesis: Actual and Perceived Purposes of High School Athletics. Major Adviser: Neal C. Nickerson

Florence A. Monsour, St. Paul

B.A. '74, Hamline University; M.A. '82, College of St. Thomas; M.S. '88, University of Wisconsin. Degree: Doctor of Education, January '92. Major: Educational Administration. Minor: Supporting Program. Thesis: The Minnesota Administrators' Academy Administrative Mentoring Program. Major Adviser: Neal C. Nickerson

Doctor of Philosophy

Mohamed Abdel-Ghani Abou-Karam

B.Pharm.Sc. '81, M.Pharm.Sc. '84, Alexandria University. Degree: Doctor of Philosophy, November '91. Major: Pharmacognosy. Minor: Supporting Program. Thesis: Antiviral Activity in Higher Plants and Characterization of Antiviral Activity in *Waldsteinia Fragarioides*. Major Adviser: W. Thomas Shier

Timothy Walter Abraham, Sri Lanka

Degree: Doctor of Philosophy, March '92. Major: Chemistry. Minor: Supporting Program. Thesis: Part 1. New Intermediates in the Biosynthesis of the Tropane Alkaloids in Solanaceae. Part 2. Studies on the Biosynthesis of the 1,4-Benzoxazin-3-ones in *Zea mays*. Major Adviser: Wayland E. Noland

Larry G. Adams, Lexington, Ky.

B.S. with high distinction '80, University of Kentucky; D.V.M. '84, Auburn University. Degree: Doctor of Philosophy, November '91. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Effects of Reduced Dietary Protein in Normal Cats and Cats with Chronic Renal Failure. Major Adviser: David J. Polzin

Gary Curn Alexander, International Falls

B.S. '74, M.S. '75, M.S. '77, Bemidji State University. Degree: Doctor of Philosophy, October '91. Major: Educational Administration. Minor: Supporting Program. Thesis: The Transformation of the Principal in a Metropolitan District: Uncertain Times, Uncertain Roles. Major Adviser: Karen S. Louis

Farid Alizadeh-Dehkharghani, Tehran, Iran

B.S. '84, University of Wisconsin; M.S. '87, University of Nebraska. Degree: Doctor of Philosophy, October '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Combinatorial Optimization with Interior Point Methods and Semi-Definite Matrices. Major Adviser: J. Ben Rosen

Abdulhafiz O.S. Alsiny

B.E. '83, King Saud University; M.S.C.E. '87, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Civil Engineering. Minor: Supporting Program. Thesis: Deformation Modes in Thick-Walled Cylinder Experiments on Dry Sand. Major Advisers: Ioannis Vardoulakis and Andrzej Drescher

Sudath Dharma Amarasingha, Tammita, Hunumulla, Sri Lanka

Degree: Doctor of Philosophy, March '92. Major: Chemistry. Minor: Supporting Program. Thesis: An Alternating Current Impedance Study of Poly(4-vinylpyridine) Coated Platinum Electrodes. Major Adviser: John F. Evans

Dora E. Angelaki

Diploma '85, National Technical University of Athens; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Biomedical Engineering. Minor: Electrical Engineering. Thesis: Spatio-Temporal Convergence in the Otolith Vestibular System. Major Adviser: Richard E. Poppele

Alice Ann Arrowood

A.B. '69, Colorado State College; M.A. '71, University of Chicago. Degree: Doctor of Philosophy, December '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Prevalence of Child Abuse and Variables Related to Physical and Sexual Abuse/Assault Among Adolescent Females in Chemical Dependency Inpatient Treatment. Major Adviser: Richard A. Weinberg

Greg John Arthaud, White Bear Lake

B.S. '81, University of Minnesota; M.S. '86, Virginia Polytechnic Institute and State University. Degree: Doctor of Philosophy, January '92. Major: Forestry. Minor: Supporting Program. Thesis: Aspen Timber Value and Ruffed Grouse Habitat: Economic Trade-Offs Considering Spatial and Temporal Dimensions. Major Adviser: Dietmar W. Rose

Charles Edward Atchley, Minneapolis

B.S. magna cum laude '74, California State University; M.S. '81, University of Illinois. Degree: Doctor of Philosophy, December '91. Major: History of Science and Technology. Minor: Physics. Thesis: The Invention and Discovery of the Neutrino: Elusive Reality and the Nature of Scientific Acceptance. Major Adviser: Roger H. Stuewer

Ganapathy K. Ayappa, India

M.S.Ch.E. '88, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Chemical Engineering. Minor: Mathematics. Thesis: Analysis of Microwave Heating of Dielectric Materials. Major Advisers: H. Ted Davis and Eugenia A. Davis

Andrea Olander Baloga, St. Paul

B.A. '84, Carleton College; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Food Science. Minor: Supporting Program. Thesis: Application of DNA Fingerprinting and Ribosomal RNA Typing to Microbial Systems. Major Adviser: Susan K. Harlander

Isolina Estela Battistozzi, Mendoza, Argentina

M.A. '79, University of Pittsburgh. Degree: Doctor of Philosophy, October '91. Major: Hispanic and Luso-Brazilian Literatures. Minor: Supporting Program. Thesis: La Representación De La Historia En La Novela Argentina (1974-1984). Major Adviser: Rene Jara

Linda Holm Bearinger, Minneapolis

B.S.N. cum laude '73, St. Olaf College; M.S. '77, University of Colorado. Degree: Doctor of Philosophy, December '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Utility of Locus of Control for Predicting Adolescent Substance Use. Major Adviser: James R. Rest

Anita Segador Beaton, Plymouth

B.A. '65, San Jose State College; M.Ed. '83, University of Minnesota. Degree: Doctor of Philosophy, November '91. Major: Education. Minor: Supporting Program. Thesis: The Essential and Unique Characteristics of a Contemporary American Montessori Curriculum Model for Children Ages 3 to 6. Major Adviser: Harlan S. Hansen

Leonard Nathan Bell, Blacksburg, Va.

B.A. '87, Virginia Polytechnic Institute and State University; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Food Science. Minor: Supporting Program. Thesis: Investigations Regarding the Definition and Meaning of pH in Reduced-Moisture Model Food Systems. Major Adviser: Theodore P. Labuza

Deanna Marohn Bendix

B.A. cum laude '60, Hamline University; M.A. '71, Mankato State College. Degree: Doctor of Philosophy, March '92. Major: Art History. Minor: Supporting Program. Thesis: James McNeill Whistler as a Designer: Interiors and Exhibitions. Major Adviser: Gabriel P. Weisberg

Judith Ann Hughes Bergauer, Roseville

B.A. cum laude '70, Wisconsin State College; M.S.Ed. '71, Wisconsin State University. Degree: Doctor of Philosophy, December '91. Major: Educational Administration. Minor: Supporting Program. Thesis: The Relationship of Teacher Decisional Participation and Teacher Evaluation Effectiveness. Major Adviser: Van Dyck Mueller

Alan Frederick Bergold, Iowa City, Iowa

B.S. '77, Lehigh University. Degree: Doctor of Philosophy, December '91. Major: Chemistry. Minor: Supporting Program. Thesis: High Performance, Lectin Affinity Chromatography: An Examination of the Thermodynamic and Kinetic Limitations of the Technique and the Development of an Alternative Elution Method. Major Adviser: Peter W. Carr

Joseph David Bessie, Los Angeles, Calif.

B.A. '78, University of California. Degree: Doctor of Philosophy, December '91. Major: Philosophy. Minor: Supporting Program. Thesis: Theories of Probabilistic Causality. Major Adviser: C. Anthony Anderson

Eric Walter Albert Boehm, Calif.

B.A. '84, University of California; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Plant Pathology. Minor: Supporting Program. Thesis: Determination of the Karyotype in Selected Species of Eocronartium, Puccinia and Melampsora. Major Adviser: William R. Bushnell

Earl William Bracewell

B.S. '73, M.A. '78, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Education. Minor: Supporting Program. Thesis: A Study of Outstanding Farm Business Management Instructors in Minnesota. Major Adviser: Edgar A. Persons

Nily Rivkah Brandon, Jerusalem, Israel

B.S. '87, Technion-Israel Institute of Technology. Degree: Doctor of Philosophy, February '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Tethered Chains in Polymer Microstructures. Major Adviser: Matthew V. Tirrell

Bridget Anne Brennan, Portland, Me.

A.B. magna cum laude '86, Bowdoin College. Degree: Doctor of Philosophy, December '91. Major: Chemistry. Minor: Supporting Program. Thesis: Physical Characterization of Diiron-Dioxygen Complexes and Resonance Raman Studies of Mononuclear Non-Heme Iron Proteins. Major Adviser: Lawrence Que, Jr.

Gregory Lynn Bruess, Benson

B.A. '78, Augsburg College; M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: History. Minor: Supporting Program. Thesis: Catherine II's Imperial Manner and Eastern Orthodoxy: The Case of Nikiforos Theotokis, 1779-1800. Major Adviser: Theofanis G. Stavrou

Richard Allen Bulcroft, Salem, N.H.

B.A. '75, University of New Hampshire. Degree: Doctor of Philosophy, February '92. Major: Sociology. Minor: Supporting Program. Thesis: The Value of Physical Changes During Adolescence: Consequences for Peer and Family Relations. Major Adviser: Robert K. Leik

Marlys Joene Butcher, Excelsior

B.S. '73, M.Ed. '82, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Vocational Education. Minor: Supporting Program. Thesis: The Perceived Tasks Performed by Principal Vocational Administrators in Publicly-Supported Post-Secondary Institutions in the United States. Major Adviser: Gary W. Leske

James Bruce Calkins, Eau Claire, Wis.

B.S. with distinction '79, M.S. '84, University of Minnesota. Degree: Doctor of Philosophy, November '91. Major: Horticulture. Minor: Plant Physiology. Thesis: Effects of Conventional and Alternative Nursery Field Management Systems on Chemical and Physical Soil Characteristics and on Tree Growth and Development. Major Adviser: Bert T. Swanson

Jean Elizabeth Cameron, Minneapolis

B.A. summa cum laude '75, M.A. '77, University of Minnesota. Degree: Doctor of Philosophy, November '91. Major: American Studies. Minor: Supporting Program. Thesis: John Cotton's Role in the Trials of Anne Hutchinson. Major Adviser: Roland A. Delattre

Eugenio Julio Cap, Buenos Aires, Argentina

Ingeniero Agronomo '73, Universidad de Buenos Aires; M.S. '82, University of California. Degree: Doctor of Philosophy, February '92. Major: Agricultural and Applied Economics. Minor: Public Affairs. Thesis: The Political Economy of Wheat Target Pricing in the United States: A Dynamic Programming Approach. Major Adviser: Vernon W. Ruttan

Wenda Chidester Carlyle, St. Paul

B.A. with distinction '79, Carleton College. Degree: Doctor of Philosophy, December '91. Major: Pharmacology. Minor: Supporting Program. Thesis: Dynamics of Cyclic Nucleotide and High Energy Phosphoryl Metabolism in Intact Sea Urchin Spermatozoa. Major Adviser: Nelson D. Goldberg

Jeffrey Lee Carpenter, Denver, Colo.

B.S. with high honors '84, University of Montana. Degree: Doctor of Philosophy, December '91. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Promoter Analysis of Two Genes Coding for Alpha-Tubulin in *Arabidopsis thaliana*: Pollen-Preferential Versus Semi-Constitutive Expression in Transgenic Plants. Major Adviser: Carolyn D. Silflow

Michael Thomas Catalano, New Prague

B.A. summa cum laude '84, St. Olaf College, M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, February '92. Major: Mathematics. Minor: Supporting Program. Thesis: Stable Splittings of Classifying Spaces for Some Groups of Order Thirty-two. Major Adviser: Mark F. Feshbach

Amalendu K. Chakraborty, India

M.A. '77, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: History. Minor: Supporting Program. Thesis: The "Munshis: and the "Sahibs: Bengal Muslims Under British Rule, 1855-1905. Major Adviser: David Kopf

Thongchai Chalermchaikit, Bangkok, Thailand

B.S. '78, D.V.M. '80, Chulalongkorn University. Degree: Doctor of Philosophy, February '92. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Development of Analytical Methodologies for the Diagnosis and Treatment of Anticoagulant Rodenticide Poisoning. Major Adviser: Lawrence J. Felice

David Charles Chatfield, Springfield, Ohio

B.A. cum laude '80, Carleton College; M.A. '85, Middlebury College. Degree: Doctor of Philosophy, November '91. Major: Chemistry. Minor: Supporting Program. Thesis: Quantized Transition State Control of Chemical Reactivity. Major Adviser: Donald G. Truhlar

Chee-Nan Chen, Taipei, Taiwan

B.S. '76, M.S. '80, National Cheng Kung University. Degree: Doctor of Philosophy, March '92. Major: Civil Engineering. Minor: Supporting Program. Thesis: Microcrack Characterization and the Fracture Mechanisms of Damaged Rock. Major Adviser: Joseph F. Labuz

Hsi-chuan Chen, Taipei, Taiwan

B.S. '85, National Chiao Tung University. Degree: Doctor of Philosophy, March '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Study of Timing Verification and Timing Optimization of Combinational Circuits. Major Adviser: David H. Du

Kai-Lih Chen

B.A. '84, M.A. '87, National Taiwan University. Degree: Doctor of Philosophy, November '91. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: Political Economy and the Regulation of Externalities: Instrument Choice in Lobbying Economies. Major Adviser: Theodore D. Graham-Tomasi

Shin Lin Chen, Puli Nantou, Taiwan

M.S. '85, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Isolation and Characterization of the Purkinje Cell Gene PCP-4. Major Adviser: Harry T. Orr

Shuyuan Chen, Taiwan

B.Comp.Sc. '84, M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Software Maintenance Environment and Its Supporting Tools for Assembly Programs. Major Adviser: Wei-Tek Tsai

Tsuey-Hwa Chen, Taiwan

B.A. '82, National Taiwan University. Degree: Doctor of Philosophy, November '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Logistic Regression, Paired Comparisons Method for Testing Rasch Model Parameter Invariance: A Simulation Study. Major Adviser: Mark L. Davison

Yigang Chen, Beijing, People's Republic of China

B.E. '82, Jilin University of Technology; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Synthesis, Construction and Reduction Techniques for Modeling and Analyzing Concurrent Systems. Major Adviser: Wei-Tek Tsai

Chih-hsu Cheng, Taiwan

B.S. '79, National Chiao Tung University; M.B.A. '84, University of Georgia. Degree: Doctor of Philosophy, January '92. Major: Business Administration. Minor: Supporting Program. Thesis: Optimal Sampling for Traffic Volume Estimation. Major Advisers: Christopher J. Nachtsheim and P. George Benson

Siu Wing Cheng, Hong Kong

B.Sc. '87, University of Hong Kong. Degree: Doctor of Philosophy, March '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Planar Point Location and Intersection Searching: Algorithms and Dynamization. Major Adviser: Ravi Janardan

Wen-Shen Chu

B.S. '79, M.S. '83, National Taiwan University. Degree: Doctor of Philosophy, December '91. Major: Genetics. Minor: Supporting Program. Thesis: Genetic Analysis and Physical Mapping of the Genome of the Switching Candida albicans Strains WO-1. Major Adviser: Paul T. Magee

Leonard Jesse Chyall, Atlanta, Ga.

B.A. '86, Oberlin College. Degree: Doctor of Philosophy, November '91. Major: Chemistry. Minor: Supporting Program. Thesis: The Synthesis and Thermal Rearrangements of 7,7-Dibromo-trans-bicyclo[4.1.0]hept-3-ene and 7,7-Dichloro-trans-bicyclo[4.1.0]hept-3-ene. Major Adviser: Paul G. Gassman

Ann Cohen, Morristown, N.J.

A.B. cum laude '62, Smith College; M.A. '81, University of Minnesota. Degree: Doctor of Philosophy. February '92. Major: English. Minor: Supporting Program. Thesis: Bloom's Journey: The "Hades" Episode of James Joyce's Ulysses Viewed Through a Mythic Lens. Major Adviser: George T. Wright

Eileen Fay Nitzberg Collard, Minneapolis

B.A. '68, Antioch College; M.A. '81, Mankato State University. Degree: Doctor of Philosophy. February '92. Major: Education. Minor: Supporting Program. Thesis: The Impact of Deming Quality Management on Interdepartmental Cooperation. Major Adviser: David J. Pucel

Jeffrey Scott Conger, Mapleton, Iowa

B.S. '83, Iowa State University of Science and Technology; M.S.E.E. '88, University of Minnesota. Degree: Doctor of Philosophy. February '92. Major: Electrical Engineering. Minor: Physics. Thesis: Characterization, Modeling and Simulation of Compound Semiconductor Field-Effect Transistors and Integrated Circuits. Major Advisers: Michael Shur and Andrzej Peczalski

Pol Romain Coppin, Kortrijk, Belgium

Ingenieur '77, University of Ghent. Degree: Doctor of Philosophy. November '91. Major: Forestry. Minor: Supporting Program. Thesis: The Change Component in Multitemporal Landsat TM Images: Its Potential for Forest Inventory and Management. Major Adviser: Marvin E. Bauer

Stelamaris Coser, Vitoria, E.S., Brazil

Licenciado '76, Universidade Federal do Espirito Santo; Mestre '83, Universidade Federal do Rio de Janeiro. Degree: Doctor of Philosophy. October '91. Major: American Studies. Thesis: Bridging the Americas: The Literature of Paule Marshall, Toni Morrison, and Gayl Jones. Major Adviser: George Lipsitz

Emily Therese Cremers, Rochester, N.Y.

B.A. with high distinction '82, University of Kentucky. Degree: Doctor of Philosophy. October '91. Major: Economics. Minor: Supporting Program. Thesis: General Equilibrium with Trade Balance and Interest Rate Equalization. Major Adviser: Neil Wallace

Steven Paul Crockett, Seabrook, Tex.

B.S.Ch.E. summa cum laude '86, University of Houston. Degree: Doctor of Philosophy. January '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Mathematical Modeling of Electrochemical Systems Characterized by Locally Large Gradients. Major Adviser: William H. Smyrl

David Ernst Culley, Monterey, Calif.

B.A. '77, University of California. Degree: Doctor of Philosophy. December '91. Major: Plant Physiology. Minor: Plant Breeding. Thesis: Studies of Regulated Gene Expression in Early Maize Endosperm Development. Major Advisers: Mark L. Brenner and Irwin Rubenstein

Brent William Delzer, Oconto Falls, Wis.

B.S. '86, University of Wisconsin; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy. January '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Recurrent Selection for Grain Protein in Hard Red Spring Wheat. Major Adviser: Robert Henry Busch

Mohamed Deriche, Algeria

Diplome '84, Ecole Nationale Polytechnique. Degree: Doctor of Philosophy. January '92. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Discrete Filtered Fractals in Signal Modeling and Processing. Major Adviser: Ahmed H. Tewfik

Saliya Anil De Silva, Sri Lanka

B.S. '85, University of Colombo. Degree: Doctor of Philosophy. October '91. Major: Chemistry. Minor: Supporting Program. Thesis: Use of Sterically Hindered Sensitizers for Improved Photoinduced Electron Transfer Reactions. Major Adviser: Paul G. Gassman

Hyonseung Dho, Seoul, Korea

B.S. '85, Cheongju University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy. November '91. Major: Mineral Engineering. Minor: Supporting Program. Thesis: Chelating Agents as Depressants in the Cationic Silica Floation of Magnetic Taconite Concentrates. Major Adviser: Iwao Iwasaki

Hongbing Ding, Beijing, People's Republic of China

B.S. '82, Tsinghua University. Degree: Doctor of Philosophy. January '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Hollow Fiber Liquid Chromatography and Fractional Extraction. Major Adviser: Edward L. Cussler

Christopher John Dinsmore, Boston, Mass.

A.B. cum laude '87, Bowdoin College. Degree: Doctor of Philosophy. December '91. Major: Chemistry. Minor: Supporting Program. Thesis: Metal-Catalyzed Intramolecular Cyclization Reactions of Alkynyl Alpha Diazoketones: Mechanistic and Synthetic Studies. Major Adviser: Thomas R. Hoye

Kenneth Jon Dornfeld, Minneapolis

B.A. with honors '84, University of Chicago. Degree: Doctor of Philosophy. October '91. Major: Biochemistry. Minor: Supporting Program. Thesis: Characterization of Recombination in a Mutant of Yeast. Major Adviser: Dennis M. Livingston

Philip Wendell Doyle, Corona del Mar, Calif.

B.A. with distinction '86, University of California. Degree: Doctor of Philosophy. March '92. Major: Mathematics. Minor: Supporting Program. Thesis: Differential Geometric Poisson Bivectors and Quasilinear Systems in One Space Variable. Major Adviser: Peter J. Olver

Cathy Lynn Zeien DuBois, St. Paul

B.S. with highest honors '76, University of Texas. Degree: Doctor of Philosophy, October '91. Major: Industrial Relations. Minor: Psychology. Thesis: Framing Multidimensional Predictor-Criterion Space in Terms of Typical and Maximum Performance: Validities and Implications for Whites and Blacks. Major Adviser: Paul R. Sackett

Jeffrey Brian Edwards, Chicago, Ill.

B.A. cum laude '80, Marquette University. Degree: Doctor of Philosophy, January '92. Major: Political Science. Minor: Supporting Program. Thesis: The Resolution of an "Urban Crisis": Racial Formation in Detroit, 1961-1981. Major Adviser: August H. Nimtz, Jr.

James Gerald Elicker, Centre Hall, Pa.

B.S. '72, Cornell University; M.Ed. '76, Harvard University. Degree: Doctor of Philosophy, November '91. Major: Child Psychology. Minor: Supporting Program. Thesis: Individual Differences in Thinking About Self and Peers in Preadolescence: The Influence of Attachment History. Major Advisers: W. Andrew Collins and L. Alan Sroufe

William Frederick Elmquist, Longboat Key, Fla.

B.A. '76, University of South Florida, B.S.Pharm. '82, University of Florida; Pharm.D. '84, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Pharmaceutics. Minor: Supporting Program. Thesis: The Physiological Modelling of the Dependence of Renal Excretion on Urine Flow: Experience with Carbamazepine, Phenytoin and Selected Metabolites in Humans. Major Adviser: Ronald J. Sawchuk

Silvanus Theodore Enns, Winnipeg, Canada

B.Sc.A.E. '77, M.B.A. '85, University of Manitoba. Degree: Doctor of Philosophy, December '91. Major: Business Administration. Minor: Supporting Program. Thesis: A Dynamic Forecasting Approach to the Job Shop Due-Date Setting Problem. Major Adviser: Thomas R. Hoffmann

Ted William Farcasin, Roseville

B.S. with honors '71, M.A. '72, University of California. Degree: Doctor of Philosophy, March '92. Major: Education. Minor: Supporting Program. Thesis: The Relationship of Gender Differences to Adult Religious Development. Major Advisers: Harlan G. Copeland and Howard Y. Williams

Peter Milton Feather, Columbia, Mo.

B.S.Ag. cum laude '85, University of Missouri. Degree: Doctor of Philosophy, January '92. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Valuing Water Quality Using Discrete Choice Models. Major Adviser: Theodore D. Graham-Tomasi

Debbie Lee Felt, Omaha, Neb.

B.A. '73, Creighton University; M.A. '76, University of Iowa. Degree: Doctor of Philosophy, January '92. Major: Sociology. Minor: Supporting Program. Thesis: Alone in a Crowd: The Social Relationships of Nursing Home Residents. Major Adviser: Roberta G. Simmons

John William Ficken, Grafton, Wis.

B.S. with distinction '82, University of Wisconsin. Degree: Doctor of Philosophy, November '91. Major: Psychology. Minor: Supporting Program. Thesis: A Comprehensive Study of Electrodermal Activity in First-Episode Psychotic Patients and Their Relatives. Major Adviser: William G. Iacono

Jill Tenwick Flower, St. Paul

B.A. '73, University of Michigan; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparative Study of How Psychologist Gender Relates to Moral Sensitivity. Major Adviser: Martin L. Snoke

John Joseph Flynn, Cincinnati, Ohio

B.A. high honors '71, University of Cincinnati; M.A. '74, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Geography. Minor: Supporting Program. Thesis: Minnesota's Sense of Place: Creation Through Images. Major Adviser: John G. Rice

Timothy Jerome Foecke

B.Mat.Sc.E. '86, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Crack Tip Dislocation Emission in Alkali Halide Single Crystals. Major Adviser: William W. Gerberich

Robert Curtis Franz, Fairbanks, Alaska

B.S. magna cum laude '82, Northwest Nazarene College; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Physics. Minor: Supporting Program. Thesis: A Study of the Luminosity Produced by an Electron Beam-Emitting Rocket in Polar Ionosphere: Echo 7. Major Adviser: John R. Winckler

Jane Marie Fuller, Winnipeg, Manitoba, Canada

B.H.Sc. '65, University of Guelph; M.S. '72, Ohio University. Degree: Doctor of Philosophy, March '92. Major: Design, Housing, and Apparel. Minor: Supporting Program. Thesis: A Methodology for the Analysis and Interpretation of the Mitchell Costume Collection. Major Adviser: Marilyn R. DeLong

Dwight E. Fultz

B.A. magna cum laude '81, Bryan College; M.Ed. '84, Georgia State University. Degree: Doctor of Philosophy, October '91. Major: Psychology. Minor: Supporting Program. Thesis: An Exploration of the Interrelationships Between Assessed Vocational Needs, Interests, and Job Satisfaction in a Special Population. Major Advisers: Rene V. Dawis and Darwin D. Hendel

Richard Allen Geise, Maple Grove

B.Ed. '69, M.S. '73, M.S. '76, University of Wisconsin. Degree: Doctor of Philosophy, November '91. Major: Biophysical Sciences. Minor: Supporting Program. Thesis: The Use of Metal Coatings as Dosimeters for Shock Wave Lithotrippers. Major Advisers: E. Russell Ritenour and Russell K. Hobbie

Diana J. Gerbi, St. Paul

M.S. '81, University of Texas. Degree: Doctor of Philosophy, December '91. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: A Study of Urethane Segmented Block Copolymers with Liquid Crystalline Chain Extenders. Major Adviser: Christopher W. Macosko

Alan Raymond Glass, Carroll, Iowa

B.S.Ed '82, Northwest Missouri State University; M.A. '83, Eastern Michigan University. Degree: Doctor of Philosophy, March '92. Major: Education. Minor: Supporting Program. Thesis: The Effects of Thinking Aloud Pair Problem Solving on Technology Education Students' Thinking Processes, Procedures, and Problem Solutions. Major Advisers: Jerome Moss, Jr. and Ruth G. Thomas

Roger T. Goerke, St. Paul

B.S. cum laude '87, Kansas State University; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, February '92. Major: Physics. Minor: Supporting Program. Thesis: An Analysis of the SCEX 3 Ionospheric Electron Beam Injection Experiment. Major Adviser: Paul J. Kellogg

Darryl Ross Goetz, Minneapolis

B.S.Pharm. '74, M.S. '79, North Dakota State University; M.A. '83 College of St. Thomas. Degree: Doctor of Philosophy, February '92. Major: Family Social Science. Minor: Supporting Program. Thesis: The Impact of Childhood Chronic Illness On Marital Quality: A Secondary Analysis of "The National Survey of Families and Households." Major Advisers: Pauline G. Boss and Joan M. Patterson

Xiao Gong, Beijing, People's Republic of China

M.S. '82, Tsing Hua University. Degree: Doctor of Philosophy, January '92. Major: Control Science and Dynamical Systems. Thesis: Texture Analysis Using a Markov Model. Major Advisers: Naikuan Huang and E. Bruce Lee

Frederick Paul Green, Minneapolis

B.S. '77, M.S. '82, Southern Illinois University. Degree: Doctor of Philosophy, March '92. Major: Education. Minor: Supporting Program. Thesis: A Study of the Impact of Community Recreation Skill Acquisition on the Social Lives of Adults with Mental Retardation. Major Advisers: Stuart J. Schleien and Caroline Ruth Weiss

Adele Ann Greenlee, St. Paul

M.A. '75, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Education. Minor: Supporting Program. Thesis: A Comparison of Sixth Graders' Responses to Well-Reviewed and Formula Series Books. Major Advisers: Dianne L. Monson and Barbara M. Taylor

Jenhwa Guo, Taiwan

B.S.M.E. '80 Tatung Institute of Technology; M.S. '82, National Taiwan University. Degree: Doctor of Philosophy, January '92. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Design, Construction, and Control of an Experimental Human Hand/Arm Extender. Major Adviser: Homayoon Kazerooni

Yuan Guo

B.S. '82, Dalian Institute of Technology; M.S.I.E. '86, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Industrial Engineering. Minor: Supporting Program. Thesis: A Decision Support System for Enhanced Evaluation of Process Quality. Major Adviser: Kevin J. Dooley

Carl Alan Haarstad, Norwood

B.S. magna cum laude '79, Bemidji State University. Degree: Doctor of Philosophy, December '91. Major: Genetics. Minor: Supporting Program. Thesis: The Cytokine Regulation of Murine Mast Cell Lines. Major Adviser: David P. Fan

Steven Gene Hagen

B.S. summa cum laude '85, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Pathobiology. Minor: Biochemistry. Thesis: Isolation and Characterization of Bovine Tubular Basement Membrane Heparan Sulfate Proteoglycans. Major Advisers: Ralph J. Butkowski and Alfred F. Michael

Donald Charles Haggis, Detroit, Mich.

B.A. with highest distinction '82, M.A. '85, Wayne State University. Degree: Doctor of Philosophy, January '92. Major: Classical Studies. Minor: Supporting Program. Thesis: The Kavousi-Thriphti Survey: An Analysis of Settlement Patterns in an Area of Eastern Crete in the Bronze Age and Early Iron Age. Major Advisers: Frederick A. Cooper and William D. Coulson

David Michael Hahn, Brookville, N.Y.

B.S. '75, Concordia Teachers College; M.Ed. '80, Towson State University. Degree: Doctor of Philosophy, February '92. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of the Process of Change in Curriculum and Instructional Delivery Designed to Increase Student Enrollment at Selected Private Colleges. Major Adviser: Karen S. Louis

Patricia Keely Haugen, Apple Valley

B.S. summa cum laude '85, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Cell and Developmental Biology. Minor: Biochemistry. Thesis: Neuronal Cell Adhesion, Spreading, and Neurite Outgrowth in Response to the Extracellular Matrix. Major Advisers: Paul C. Letourneau and James B. McCarthy

Greg David Haugstad, Preston

B.A. '85, Gustavus Adolphus College. Degree: Doctor of Philosophy, February '92. Major: Physics. Minor: Supporting Program. Thesis: Xenon Physisorption Studies of Thin Film Growth. Major Adviser: William Zimmermann, Jr.

Joy Fisher Hazucha, Wheaton, Ill.

B.A. with honor '81, Wheaton College. Degree: Doctor of Philosophy, December '91. Major: Psychology. Minor: Supporting Program. Thesis: Success, Jeopardy and Performance: Contrasting Managerial Outcomes and their Predictors. Major Adviser: John P. Campbell

Jianming He, Guangan, Sichuan, 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; M.S. '91, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Civil Engineering. Minor: Supporting Program. Thesis: A Numerical Method for Large-Scale Turbulence Structures of Unsteady Internal and External Flows. Major Adviser: Charles C. S. Song

Allen Charles Head

B.S. with distinction '84, Cornell University. Degree: Doctor of Philosophy, February '92. Major: Economics. Minor: Supporting Program. Thesis: Aggregate Fluctuations in a World of Heterogeneous Countries. Major Adviser: Edward C. Prescott

Nancy Anne Healy, St. Paul

B.A. '74, Bethel College; M.Ed. '85, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Education. Minor: Supporting Program. Thesis: First Graders Writing with Invented or Traditional Spelling: Effects on the Development of Decoding Ability and Writing Skill. Major Adviser: Dianne L. Monson

Rebecca Lynn Hegstad, Alexandria

B.A. '77, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Animal Physiology. Minor: Supporting Program. Thesis: Endogenous Adrenocorticotropin and Luteinizing Concentrations in Bovine and Canine Plasma. Major Adviser: Shirley D. Johnston

Erik K. Heide, Brooklyn Park

B.A. '82, St. Olaf College. Degree: Doctor of Philosophy, October '91. Major: Physics. Minor: Supporting Program. Thesis: Three Relativistic Field-Theoretical Models of Nuclear Matter. Major Adviser: Paul J. Ellis

Ming Guo Her, Taipei, Taiwan

B.S.M.E. '83, Tatung Institute of Technology; M.S.M.E. '88, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Design, Construction, and Control of a Two Degree-of-Freedom Electric Direct-Drive Human Power Amplifier. Major Adviser: Homayoon Kazerooni

James Andrew Holeý, Richfield

B.A. magna cum laude '76, Luther College; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, November '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Iterative Algorithms for Convex Hull, Triangulation, and Other Problems on Mesh-Connected Arrays. Major Adviser: Oscar H. Ibarra

Gregory John Holland, Indianapolis, Ind.

B.S. '86, M.S. '88, Purdue University. Degree: Doctor of Philosophy, December '91. Major: Plant Breeding. Minor: Supporting Program. Thesis: Evaluation of Recurrent Selection for Combining Ability Between Two Partitioned Populations in Maize. Major Adviser: Stephen J. Openshaw

Beryl Anita Holmes, Chicago, Ill.

B.S.Ed. '72, Illinois State University; M.Ed. '79, DePaul University. Degree: Doctor of Philosophy, October '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Two Social Cognitive Developmental Skills: Perspective-Taking and Interpersonal Problem-Solving—Implications for Physically Handicapped Children. Major Adviser: Frank Henderson Wood

Woo-young Hong, Seoul, Korea

B.Eng. '82, Korea Naval Academy; M.Eng. '85, Yonsei University. Degree: Doctor of Philosophy, October '91. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Array Signal Processing and Spatial Spectral Estimation Using Data Transformation. Major Adviser: Ahmed H. Tewfik

Kirsten Hostetler

B.S. with high distinction '87, University of Arizona. Degree: Doctor of Philosophy, November '91. Major: Psychology. Minor: Supporting Program. Thesis: The Relationship Between Life Events and Adjustment as Measured by the MMPI-A in Normative and Clinical Adolescent Populations. Major Adviser: James N. Butcher

David T. Huber, St. Joseph

B.S. '64, St. John's University; M.S. '67, Ohio State University. Degree: Doctor of Philosophy, December '91. Major: Education. Minor: Supporting Program. Thesis: A Comparison of Cooperative and Non-Cooperative Learning Techniques on the Achievement and Attitudes of Non-Science College Students. Major Advisers: Eugene D. Gennaro and Frances P. Lawrenz

Julio Huerta-Espino

Ingeniero Agronomo '81, Universidad Michoacana; Maestro '87, Colegio de Postgraduados. Degree: Doctor of Philosophy, March '92. Major: Plant Pathology. Minor: Supporting Program. Thesis: Analysis of Wheat Leaf and Stem Rust Virulence on a Worldwide Basis. Major Adviser: Alan P. Roelfs

Hoon Huh, Korea

B.Sc.Pharm. '82, M.Sc.Pharm. '84, Seoul National University. Degree: Doctor of Philosophy, February '92. Major: Pharmacognosy. Minor: Supporting Program. Thesis: Ginkgolide and Polyphenol Production in Ginkgo biloba L. Plant and Tissue Cultures. Major Adviser: E. John Staba

Jen-Wei Hwang

B.S. '86, National Tsing Hua University. Degree: Doctor of Philosophy, February '92. Major: Chemistry. Minor: Supporting Program. Thesis: New Precursors for Aluminum and Gallium Containing Solid State Materials. Major Adviser: Wayne L. Gladfelter

Gerardo Jacobs, Mexico City, Mexico

Degree: Doctor of Philosophy, February '92. Major: Economics. Minor: Supporting Program. Thesis: A Theory of the Price Level for Arrow-Debreu Economies. Major Adviser: Neil Wallace

Ali Dakhil Jassim

M.B.Ch.B. '78, University of Mosul. Degree: Doctor of Philosophy, January '92. Major: Pathobiology. Minor: Supporting Program. Thesis: Quinone Reductase as a Biomarker for Early Cellular Response for Chemical Carcinogenesis in Animal Models. Major Adviser: Lee W. Wattenberg

Robin Lee Jevne, Meridean

B.S. with distinction '78, University of Minnesota. Degree: Doctor of Philosophy, November '91. Major: Animal Science. Minor: Supporting Program. Thesis: N-Methylhistidine: An Index of Myofibrillar Protein Degradation in Broiler Chicks. Major Adviser: Craig N. Coon

Hongming Jiang, Guangdong Prov., People's Republic of China

B.Eng '82, South China Agricultural College; M.S.Ag.E. '85, University of Minnesota. Degree: Doctor of Philosophy, November '91. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: A Numerical Simulation of a Fluidized Bed Gasifier. Major Adviser: R. Vance Morey

Kimberly Ann Johnson, Livermore, Iowa

B.A. with high honors '87, University of Northern Iowa. Degree: Doctor of Philosophy, December '91. Major: Chemistry. Minor: Supporting Program. Thesis: Synthesis and Reactivity of an Electron Rich Ruthenium(0) Dimer. Major Adviser: Wayne L. Gladfelter

Nancy Collins Johnson, Santa Fe, N.M.

B.S. magna cum laude '80, University of Minnesota; M.S. '85, University of Wisconsin. Degree: Doctor of Philosophy, October '91. Major: Ecology. Minor: Plant Pathology. Thesis: Plant and Soil Regulation of Mycorrhizae in Natural and Agricultural Ecosystems. Major Adviser: G. David Tilman

Hector Ivan Jorquera, Santiago, Chile

Ingeniero '87, Magister '87, Universidad de Chile. Degree: Doctor of Philosophy, December '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: A Kinetic Theory of Suspensions. Major Adviser: John S. Dahler

Sung Pyo Jun, Seoul, South Korea

B.A. '80, Korea University; M.S. '84, Iowa State University. Degree: Doctor of Philosophy, December '91. Major: Sociology. Minor: Supporting Program. Thesis: Power Relations in Churches: Bases of Power and Motivations for Striving for Power in American and Korean Churches. Major Adviser: Joseph Galaskiewicz

Amar Kaanane

Diplome '79, Institut Agronomique et Veterinaire Hassan II; M.S. '84, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Food Science. Minor: Chemistry. Thesis: Nonenzymatic Browning of Orange Juice: Evaluation of the Principal Reaction and Effect of Some Inhibitors. Major Adviser: Theodore P. Labuza

Soonhae Hong Kang, Seoul, Korea

B.A. '82, Ewha Womans University; M.A. '84, Seoul National University. Degree: Doctor of Philosophy, October '91. Major: Social Work. Minor: Supporting Program. Thesis: Tenant Integration and Adaptation of Older Tenants: Impact of Age and Disability Integration in Minneapolis Public Housing. Major Adviser: Rosalie Ann Kane

Jaakko Sakari Kangasjarvi, Kuopio, Finland.

LuK '84, FK '86, University of Oulu. Degree: Doctor of Philosophy, November '91. Major: Plant Physiology. Minor: Genetics. Thesis: Molecular Changes During the Differentiation of Proplastids in Amyloplasts in Developing Maize Endosperm. Major Adviser: Burle G. Gengenbach

Kishor Kashinath Khankari, Melgaon, Maharashtra, India

B.Tech '82, Mahatma Phule Agricultural University; M.Tech '83, I.I.T. Kharagpur. Degree: Doctor of Philosophy, February '92. Major: Agricultural Engineering. Minor: Mechanical Engineering. Thesis: Prediction of Moisture Migration in Stored Grain. Major Advisers: R. Vance Morey and Suhas V. Patankar

Chulsoo Kim, Seoul, Korea

B.A. '82, Yonsei University, M.A. '86, Illinois State University. Degree: Doctor of Philosophy, March '92. Major: Sociology. Minor: Supporting Program. Thesis: The Effects of Historical Sequencing on Social Policy Adoption: A Historical and Comparative Study of Western Europe, 1891-1976 and its Implications for Developing Countries. Major Adviser: Ronald R. Aminzade

Key Sun Kim, Jeongju, Korea

B.Sc.Ag. '81, Seoul National University; M.Sc. '83, Korea Advanced Institute of Science and Technology. Degree: Doctor of Philosophy, December '91. Major: Biochemistry. Minor: Supporting Program. Thesis: Correlation Between Thermodynamic Stability and Internal Flexibility of Bovine Pancreatic Trypsin Inhibitor (BPTI) and Its Variants. Major Adviser: Clare K. Woodward

Myoungjin Kim, Seoul, Korea

B.S. '82, M.S. '84, Seoul National University. Degree: Doctor of Philosophy, January '92. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Multiscale Statistical Signal Processing. Major Adviser: Ahmed H. Tewfik

Woosaeng Kim, Seoul, Korea

B.A. with honors '85, University of Texas; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Resource and Transaction Scheduling for Real-Time Database Systems. Major Adviser: Jaideep Srivastava

Christina Hyosun Kimm, Seoul, Korea

B.A. '79, M.Ed. '82, Dankook University. Degree: Doctor of Philosophy, November '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Infant's Ability to Integrate Information About Rotating Objects: Implications for Assessing Cognition. Major Advisers: John E. Rynders and Albert Yonas

Miriam Erpestad Kragness, Minneapolis

M.A. '70, Spec.Ed. '76, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Psychology. Minor: Supporting Program. Thesis: An Information Processing Approach to Understanding the Concept of Job Value. Major Adviser: John P. Campbell

Paul Henry Krieger

B.A. '70, University of Colorado; M.A. '79 University of California. Degree: Doctor of Philosophy, November '91. Major: Japanese. Minor: Supporting Program. Thesis: The Fantastic Stories of Abe Kobo: A Study of Three Early Short Stories, with Translations. Major Advisers: Edward M. Copeland and R. Livia Monnet

Abdelaziz Lagnaoui, Rabat, Morocco

Diplome d'Agronomie Generale '84, Institut Agronomique et Veterinaire, Hassan II; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Entomology. Minor: Supporting Program. Thesis: Multiple Pest, Water and Nitrogen Interaction with Potato Yield and Quality. Major Adviser: Edward B. Radcliffe

Elizabeth Margaret Lamb, Geneva, N.Y.

A.B. cum laude '78, Smith College; M.S. '81, Cornell University. Degree: Doctor of Philosophy, March '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Resistance of Maize to European Corn Borer Damage and its Relationship to Larval Behavior. Major Adviser: David W. Davis

Roberta Carol Lamons

B.S.Geol. '83, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Geology. Minor: Supporting Program. Thesis: Oblique Convergence in Modeling Experiments and in the Field. Major Advisers: Peter J. Hudleston and Christian P. Teyssier

David Alan Lange, Eagan

B.S. '73, St. Cloud State University; M.Ed. '76, University of Minnesota; Ed.S. '83, College of St. Thomas. Degree: Doctor of Philosophy, October '91. Major: Educational Administration. Minor: Supporting Program. Thesis: Minnesota Principal Assessment Center (MNPAC): Participant and School District Use of the Results of Assessment. Major Adviser: Neal C. Nickerson

Kun-Ho Lee, Korea

B.B.A. '81, M.B.A. '84, Seoul National University. Degree: Doctor of Philosophy, November '91. Major: Business Administration. Minor: Supporting Program. Thesis: A Theory of Corporate Dividend and Financing Strategies: An Efficient Signalling Approach. Major Adviser: Michael U. Dothan

Ming Yih Lee

B.S.Eng. '77, National Taiwan Institute of Technology; M.S.M.E. '84, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Kinematic/Kinetic, and Dynamic Performance Synthesis for Multi-DOF Mechanisms. Major Adviser: Arthur G. Erdman

Peter Kisuk Lee, Bloomington

B.A. magna cum laude '86, Carleton College. Degree: Doctor of Philosophy, November '91. Major: Microbiology. Minor: Supporting Program. Thesis: Studies of the Mechanism of Hypotension in Toxic Shock Syndromes. Major Adviser: Patrick M. Schlievert

Seonghearn Lee, Seoul, Korea

B.Eng. '85, Korea University; M.S.E.E. '89, University of Minnesota. Degree: Doctor of Philosophy, February '92. Major: Electrical Engineering. Minor: Physics. Thesis: Parameter Extraction of Aluminum Gallium Arsenide—Gallium Arsenide Heterojunction Bipolar Transistors. Major Adviser: Anand Gopinath

Heidi Annette Lennstrom, Seattle, Wash.

B.A. cum laude '81, University of Washington; M.S. '85, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Ancient Studies. Thesis: Intrasite Spatial Variability and Resource Utilization in the Prehistoric Peruvian Highlands: An Exploration of Method and Theory in Paleoethnobotany. Major Advisers: Christine A. Hastorf and Herbert E. Wright

Bernard Joseph Lewis, St. Paul

B.S. '77, M.S. '79, University of Missouri. Degree: Doctor of Philosophy, December '91. Major: Forestry. Minor: Supporting Program. Thesis: Staff-Mediated Information Flows to Forest Policy Committees in State Legislatures. Major Adviser: Paul V. Ellefson

Mary Margaret Lien

B.A. cum laude '70, St. Olaf College. Degree: Doctor of Philosophy, November '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Charge Injection and Transport in Electroactive Films. Major Adviser: William H. Smyrl

Chae Un Lim, Seoul, Korea

B.A. '80, Sogang University; M.B.A. '85, University of Michigan. Degree: Doctor of Philosophy, December '91. Major: Business Administration. Minor: Supporting Program. Thesis: Restrictive Licensing Practices in International Markets: A Transaction Cost Perspective. Major Adviser: George John

Leong Chye Andrew Lim, Singapore

B.C.S. with high distinction '87, M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Efficient Algorithms for CAD in VLSI. Major Adviser: Sartaj K. Sahni

Joy Kathleen Lintelman, Fargo, N.D.

B.A. summa cum laude '80, Gustavus Adolphus College; M.A. '83, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: History. Minor: Supporting Program. Thesis: "More Freedom, Better Pay": Single Swedish Immigrant Women in the United States, 1880-1920. Major Adviser: Rudolph J. Vecoli

Haiying Liu, People's Republic of China

B.S. '85, Jilin University. Degree: Doctor of Philosophy, October '91. Major: Physics. Minor: Supporting Program. Thesis: Tricriticality of Smectic A – Smectic C (or chiral Smectic C) Transition in Liquid Crystal System. Major Adviser: Cheng-Cher Huang

James Robert Lokensgard, St. Cloud

B.A. '84, St. Cloud State University; M.S. '87, North Dakota State University. Degree: Doctor of Philosophy, February '92. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Molecular Studies of Suid Herpesvirus 1 (Pseudorabies Virus) Latency in Swine. Major Adviser: Thomas W. Molitor

Annette Ferne Lynch, Charles City, Iowa

B.A. with distinction '79, M.A. '82, University of Iowa. Degree: Doctor of Philosophy, February '92. Major: Design, Housing, and Apparel. Minor: Supporting Program. Thesis: Hmong American New Year's Dress: A Material Culture Approach. Major Adviser: Joanne B. Eicher

Joanne Carolyn Mannell, Bozeman, Mont.

B.A. '72, Wells College; M.A. '76, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Art History. Minor: Supporting Program. Thesis: The Architectural Ornament of Diocletian's Palace at Split. Major Adviser: Frederick A. Cooper

Marc A. Markell

B.A. cum laude '80, College of St. Thomas; M.S. '87, Mankato State University. Degree: Doctor of Philosophy, November '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Contributions of Oral Reading Fluency to Measures of Reading Comprehension. Major Adviser: Stanley L. Deno

Margaret Claire Martini, Amherst, N.H.

B.A. cum laude '80, Bucknell University; B.S. summa cum laude '83, University of New Hampshire; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Nutrition. Minor: Supporting Program. Thesis: The Modification of Lactose Digestion to Prevent Intolerance Symptoms. Major Adviser: Dennis A. Savaiano

Virgil G. Mathiowetz, Morgan

B.S. with distinction '74, University of Minnesota; M.S. '81, Boston University. Degree: Doctor of Philosophy, December '91. Major: Kinesiology. Minor: Supporting Program. Thesis: Informational Support and Functional Motor Performance. Major Adviser: Michael Wade

Andrew John McCullough, Chicago

B.A. cum laude '84, Saint Mary's College. Degree: Doctor of Philosophy, February '92. Major: Genetics. Minor: Supporting Program. Thesis: Molecular Analysis of Amyloplast Biogenesis in Developing Maize Endosperm. Major Advisers: Burle G. Gengenbach and Ronald L. Phillips

Susan Overstreet Michelman, Minneapolis

B.S. '71, Ohio State University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Design, Housing, and Apparel. Minor: Feminist Studies. Thesis: Dress in Kalabari Women's Societies. Major Adviser: Joanne B. Eicher

John Warren Mickelson, Mankato

B.S. magna cum laude '85, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Chemistry. Minor: Supporting Program. Thesis: The Synthesis of Polytrifluoromethylated Cyclopentadienes and Indenes and their Use as Transition Metal Ligands. Major Adviser: Paul G. Gassman

Jerome R. Migler, Circle Pines

B.S. '75, M.S. '80; North Dakota State University. Degree: Doctor of Philosophy, December '91. Major: Education. Minor: Supporting Program. Thesis: Selected Leadership Attributes and Styles of Administrators in Exemplary Vocational Education Institutions and Administrators in Minnesota Technical Colleges. Major Adviser: Roland L. Peterson

James Earle Mills, Minneapolis

B.S. '81, University of Wisconsin; M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Geography. Minor: Supporting Program. Thesis: Spiritual Landscapes: A Comparative Study of Burial Mound Sites in the Upper Mississippi River Basin and the Practice of Feng Shui in East Asia. Major Adviser: Fred E. Lukermann

Roger Edward Mitchell II, Houlton, Me.

B.S. '84, University of Wisconsin. Degree: Doctor of Philosophy, January '92. Major: Genetics. Minor: Supporting Program. Thesis: Expression of Zein Associated Protein Genes. Major Adviser: Irwin Rubenstein

Eric Jay Mlyn

B.A. magna cum laude '83, Tufts University. Degree: Doctor of Philosophy, October '91. Major: Political Science. Minor: Supporting Program. Thesis: Limited War, Limited Autonomy: The State, Domestic Politics and the Evolution of U.S. Nuclear Weapons Policy. Major Adviser: Brian L. Job

Glenn Robert Moodie, St. Paul

B.S. with distinction '85, M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Animal Physiology. Minor: Supporting Program. Thesis: Studies on the Cryopreservation of Immature Sheep Oocytes. Major Adviser: Alan G. Hunter

Christopher Lane Moore, Hampton, Va.

B.S. with high distinction '83, University of Virginia; M.S. '84, Virginia Polytechnic Institute and State University. Degree: Doctor of Philosophy, December '91. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Performance and Stability of Telemanipulators Using Bilateral Impedance Control. Major Adviser: Homayoon Kazerooni

Hafiz Muhammad Munir, Vehari, Pakistan

B.Sc. Ag. Eng. '83, University of Agriculture Faisalabad; M.S. '87, University of Nebraska. Degree: Doctor of Philosophy, January '92. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Modeling Moisture Dependent Anisotropy in Unsaturated Heterogeneous Media. Major Adviser: John L. Nieber

Raju Ramakrishna Namburu, Rockford, Ill.

B.Eng. '77, M.Eng. '80, Andhra University. Degree: Doctor of Philosophy, January '92. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Unified Finite Element Methodology for Thermal-Structural Problems. Major Adviser: Kumar K. Tamma

Reinaldo Conrado Navarrete, Concepcion, Chile.

Ingeniero Civil Quimico '86, Universidad de Concepcion. Degree: Doctor of Philosophy, November '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Rheology and Structure of Flocculated Suspensions. Major Advisers: L. E. Scriven and Christopher W. Macosko

Norah Cathleen Neale

B.A. '84, M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, February '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Role of Culture and Gender in Perceptions of Sexual Harassment. Major Adviser: Lorraine S. Hansen

Keats Avon Nelms, Columbia, Mo.

B.S. summa cum laude '86, University of Missouri. Degree: Doctor of Philosophy, October '91. Major: Biochemistry. Minor: Supporting Program. Thesis: Regulation of Immunoglobulin Intron Enhancers in B Cells. Major Adviser: Brian G. Vanness

Julie Ann Chanin Olson, Apple Valley

B.S. with distinction '75, Spec.Ed. '85, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Educational Administration. Minor: Supporting Program. Thesis: A Delphi Study of Teachers' Confidence in Their Students' Preparation for the Future and the Barriers to Preparation. Major Advisers: Arthur M. Harkins and Neal C. Nickerson

Lawrence Karl Olson, Minneapolis

B.S. cum laude '86, University of Minnesota. Degree: Doctor of Philosophy, November '91. Major: Pharmacology. Minor: Supporting Program. Thesis: Dynamics of High Energy Nucleotide Phosphoryl Metabolism in Intact Hit-T15 Cells During Glucose-Induced Insulin Secretion. Major Advisers: Patrick E. Hanna and Timothy F. Walseth

Thomas Craig Olson, St. Paul

B.S. '73, M.S. '79, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Nursing. Minor: History. Thesis: The Women of St. Luke's and the Evolution of Nursing, 1892-1937. Major Adviser: Floris E. King

Kanisak Oraveerakul, Bangkok, Thailand

D.V.M. '85, Chulalongkorn University. Degree: Doctor of Philosophy, March '92. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Tissue and Cell Tropisms of Porcine Parvovirus Strains. Major Adviser: Thomas W. Molitor

Michael Edward Ostry, Minneapolis

B.S. '71, M.S. '78, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Forestry. Minor: Plant Pathology. Thesis: The Etiology of Hypoxylon Canker of Aspen. Major Adviser: Neil A. Anderson

Mahesh Padmanabhan, Madras, India.

B.Tech '85, I.I.T. Kharagpur; M.S. Ag.E. '89, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: On-line Measurement of Shear-Elastic and Extensional Rheological Material Functions of Food Doughs. Major Adviser: Mrinal Bhattacharya

Doowon Paik, Korea

B.S. '83, Seoul National University; M.S. '86, M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, November '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Vertex Upgrading Problems for VLSI. Major Adviser: Sartaj K. Sahni

Euripides Papamichos, Athens, Greece

Diploma '86, National Technical University of Athens; M.S. Geo.E. '88, University of Minnesota. Degree: Doctor of Philosophy, February '92. Major: Geo-Engineering. Minor: Supporting Program. Thesis: Surface Instabilities and Fracture: Theory and Experiment. Major Adviser: Ioannis Vardoulakis

Sae Hoon Park, Chonju, Korea

B.A. '80, M.A. '82, Chonbuk National University. Degree: Doctor of Philosophy, November '91. Major: Educational Administration. Minor: Supporting Program. Thesis: Cross-cultural Validation of a Korean Translation of a Firestone and Herriott Organizational Structure Questionnaire. Major Advisers: Charles H. Sederberg and Vernon L. Hendrix

Yeonjun Park, Seoul, Korea

B.S. Eng. '81, M.S. Eng. '83, Seoul National University. Degree: Doctor of Philosophy, March '92. Major: Geo-Engineering. Minor: Supporting Program. Thesis: Influence in Below-Freezing Temperatures on the Shear Behavior of Wet Rock Joints. Major Adviser: Raymond L. Sterling

Matthew Harold Pelkki, Saginaw, Mich.

B.S.F. with distinction '85, University of Michigan; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, February '92. Major: Forestry. Minor: Supporting Program. Thesis: Developing Conceptual Information System Models for Natural Resources. Major Adviser: Dietmar W. Rose

Debra L. Petersen

B.A. with distinction '81, University of Minnesota; M.A. '83, Colorado State University. Degree: Doctor of Philosophy, December '91. Major: Speech-Communication. Minor: Supporting Program. Thesis: President Corazon Aquino's Official Working Visit to the United States, September 15-23, 1986: A Case Study in Intercultural Rhetoric. Major Adviser: Karlyn K. Campbell

Carla A. Peterson, Minneapolis

B.S. with distinction '75, Iowa State University; M.A. '81, University of South Dakota. Degree: Doctor of Philosophy, December '91. Major: Educational Psychology. Minor: Supporting Program. Thesis: Factors Affecting Intervention Integrity and Individual Child Outcome in Social Interaction Skills Training. Major Adviser: Scott R. McConnell

Denton Robert Peterson, St. Paul

B.A. '73, Bethel College; M.S. '81, M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Health Informatics. Minor: Supporting Program. Thesis: Development of a Stochastic Model for HIV Transmission in an Intravenous Drug Using Community. Major Adviser: Lael C. Gatewood

Nancy Lee Peterson, Richfield

B.A. magna cum laude '86, Concordia College; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Biochemistry. Minor: Neuroscience. Thesis: Characterization of the L-2-Amino-4-Phosphonobutanoic Acid (L-AP4) Receptor Using Conformationally Constrained Analogues of AP4. Major Adviser: James F. Koerner

Gale Sean Petrich

B.E.E. with high distinction '86, M.S.E.E. '89, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Impurity Modified Epitaxy of III/V Compounds. Major Adviser: Philip I. Cohen

John W. Pierre, Bozeman, Mont.

B.S.E.E. with highest honors '86, Montana State University; M.S.E.E. '89, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Sensor Array Calibration Methods and a Comparison of Direction-Finding Algorithms Using an Experimental Array. Major Adviser: Mostafa Kaveh

Allyson Marie Poska, Minneapolis

B.A. '85, Johns Hopkins University; M.A. '85, Brown University. Degree: Doctor of Philosophy, February '92. Major: History. Minor: Supporting Program. Thesis: Regulating the People: The Catholic Reformation in Seventeenth-Century Spain. Major Advisers: Stuart B. Schwartz and Carla R. Phillips

Francis Limcaco Quito, Manila, Philippines

D.V.M. '80, University of the Philippines; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, February '92. Major: Veterinary Biology. Minor: Supporting Program. Thesis: Opioid Regulation of Water and Ion Transport in the Small Intestine. Major Adviser: David R. Brown

Stanton Foster Rak, Mundelein, Ill.

B.S. '85, University of Illinois. Degree: Doctor of Philosophy, November '91. Major: Chemistry. Minor: Supporting Program. Thesis: Syntheses and Spectral Property Studies of Mixed-Valence Polyacene Imide and Quinone Anion Radicals. Major Adviser: Larry L. Miller

Gurdial Singh Randhawa

Degree: Doctor of Philosophy, November '91. Major: Theriogenology. Minor: Supporting Program. Thesis: Studies to Improve the Quality of Ram Semen for Storage at 5C and Freezing in 0.25 ml Straws. Major Adviser: Edmund F. Graham

Ananth S. Rao

B.V.Sc. '72, University of Agricultural Sciences, Bangalore; M.S. '86, Purdue University. Degree: Doctor of Philosophy, October '91. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Dynamic Asset Liability Management at Agricultural Banks. Major Advisers: Michael D. Boehlje and Glenn D. Pederson

Jennifer Elaine Reeves, Naperville, Ill.

B.A. '82, University of Iowa. Degree: Doctor of Philosophy, March '92. Major: Linguistics. Minor: Supporting Program. Thesis: Zero Elements in Linguistic Theory. Major Adviser: Michael B. Kac

Anju Relan, New Delhi, India

B.Ed. '78, Delhi University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Education. Minor: Supporting Program. Thesis: Effects of Two Levels of Strategy Training and Learner Control on Performance and Choice Behavior in a Computer-Based, Concept-Classification Task. Major Adviser: Carol A. Carrier

James Arthur Rice, Plymouth

B.A. '69, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Health Services Research, Policy, and Administration. Minor: Supporting Program. Thesis: Privatization and Health Policy: An International Comparative Study of Issues Regarding the Political Economy of Health Policy Development in Selected Western Democracies. Major Adviser: Vernon E. Weckwerth

Jeffrey Michael Rudski, Montreal, Quebec, Canada.

B.Sc. '86, McGill University. Degree: Doctor of Philosophy, January '92. Major: Psychology. Minor: Neuroscience. Thesis: Methadone and Feeding: Differences Between Home-Cage and Operant Chamber Assessment Procedures. Major Adviser: J. Bruce Overmier

James Robert Rustad, Minneapolis

B.A. '82, Macalester College. Degree: Doctor of Philosophy, March '92. Major: Geology. Minor: Supporting Program. Thesis: Sulfur, Silica, and Water: Molecular Dynamics Studies of Planetary Liquids. Major Adviser: David A. Yuen

Bernhardt Saini-Eidukat

B.S.Geop. '84, B.S.Geol. '84, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Geology. Minor: Supporting Program. Thesis: Platinum Group Elements in Anorthositic Rocks of the Duluth Complex, Minnesota: Petrogenetic and Economic Implications. Major Adviser: Paul W. Weiblen

Elizabeth Jill Sandell, St. Paul

B.A. summa cum laude '74, M.A. '80, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Education. Minor: Supporting Program. Thesis: Effects of Training Method and Teaching License on Inter-Observer Reliability of Evaluation of Mother-Toddler Interaction. Major Adviser: Harlan S. Hansen

Paul Bradley Savereide, St. Louis Park

B.A. '82, St. Olaf College. Degree: Doctor of Philosophy, December '91. Major: Cell and Developmental Biology. Minor: Genetics. Thesis: The Molecular Basis of Resistance to the Protein Synthesis Inhibitor Cryptoleurine in *Chlamydomonas reinhardtii*. Major Adviser: Paul A. Lefebvre

David L. Scheel

B.S. cum laude '84, Rensselaer Polytechnic Institute; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Ecology. Minor: Supporting Program. Thesis: Foraging Behavior and Predator Avoidance: Lions and their Prey in the Serengeti. Major Adviser: Craig Packer

Nola Ann Schmitt

B.S.N. '72, University of North Dakota; M.S. '77, University of Wisconsin. Degree: Doctor of Philosophy, December '91. Major: Nursing. Minor: Educational Psychology. Thesis: Caregiving Couples: The Experience of Giving and Receiving Social Support. Major Adviser: Margaret A. Newman

David William Schultz, Falcon Heights

B.S. '79, University of Wisconsin. Degree: Doctor of Philosophy, October '91. Major: Pharmaceuticals. Minor: Supporting Program. Thesis: Physics of Tablet Compaction: Viscoelastic Analysis of Particle Size and Composition Effects. Major Adviser: Edward G. Rippie

Roland Kim Schulze

B.S. cum laude '84, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Chemistry. Minor: Supporting Program. Thesis: Ion Yield Variations in SIMS and ESD of Covalently Modified Surfaces upon Surface Work Function Alterations by Alkali Metal Adsorption. Major Adviser: John F. Evans

Leslie Marion Schwandt, Medina, Ohio

B.A. summa cum laude '85, Baldwin-Wallace College. Degree: Doctor of Philosophy, December '91. Major: Psychology. Minor: Neuroscience. Thesis: Exploring Conditions for the Occurrence of Stress-Induced Hypoalgesia. Major Adviser: J. Bruce Overmier

Darryl Patrick Sedio, Minneapolis

B.A. cum laude '68, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Psychology. Minor: Supporting Program. Thesis: On the Relationship Between Analogical Reasoning and Flexibility. Major Adviser: Rene V. Dawis

Michael John Shanahan, Dubuque, Iowa

B.A. maxima cum laude '83, Loras College; M.A. '87, University of Iowa. Degree: Doctor of Philosophy, December '91. Major: Sociology. Minor: Supporting Program. Thesis: A Longitudinal Examination of Gender Differences in Adolescent Social Supports, Work Stressors, and Depressed Mood. Major Adviser: Jeylan T. Mortimer

Colleen J. Sheehy, Minneapolis

B.A. '78, M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: American Studies. Thesis: The Flamingo in the Garden: Artifice, Aesthetics, and Popular Taste in American Yard Art. Major Adviser: Karal Ann R. Marling

Laurie Leigh Shekels, Minnetonka

B.A. magna cum laude '86, Gustavus Adolphus College; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Biochemistry. Minor: Supporting Program. Thesis: The Adipocyte Low Molecular Weight Acid Phosphatase: Its Cloning, Expression and Characterization. Major Adviser: David A. Bernlohr

Liming Shen, Shanghai, People's Republic of China

B.S. '85, Fudan University. Degree: Doctor of Philosophy, January '92. Major: Physiology. Minor: Neuroscience. Thesis: The Organization of Limb Movements in Cat Locomotion. Major Adviser: Richard E. Poppele

Janette Marie Shimanski, Minneapolis

B.B.A. '78, M.S. '80, University of Wisconsin. Degree: Doctor of Philosophy, December '91. Major: Business Administration. Minor: Supporting Program. Thesis: Patterns of Strategic Change from Start-Up Through Adolescence. Major Adviser: Orville C. Walker, Jr.

Heayong Shin, Korea

B.S. '82, Seoul National University; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Mathematics. Minor: Supporting Program. Thesis: An Investigation of the Singularities of Harmonic Maps. Major Adviser: Robert D. Gulliver II

Kyung-Jae Shin, Seoul, Korea

B.S. '82, M.S. '85, Hanyang University. Degree: Doctor of Philosophy, November '91. Major: Civil Engineering. Minor: Supporting Program. Thesis: Seismic Response of Frames with Composite Semi-Rigid Connections. Major Adviser: Roberto Tomas Leon

William Merritt Shobe, Greensboro, N.C.

B.A. '76, Vanderbilt University. Degree: Doctor of Philosophy, December '91. Major: Economics. Minor: Supporting Program. Thesis: The Effects of Taxation on Capital Gains Realizations: Theory and Evidence. Major Adviser: Joel B. Slemrod

Eduard Siebrits

B.Sc.Eng. '84, M.Sc.Eng. '87, University of Cape Town. Degree: Doctor of Philosophy, March '92. Major: Geo-Engineering. Minor: Supporting Program. Thesis: Two-Dimensional Time Domain Elastodynamic Displacement Discontinuity Method with Mining Applications. Major Adviser: Steven L. Crouch

Paul William Siemers, Richfield

B.A. '75, Bethel College; M.A. '79, University of Minnesota. Degree: Doctor of Philosophy, February '92. Major: Theatre Arts. Minor: Supporting Program. Thesis: Theatre of Constraint: Culture and Sexuality in Select Plays of David Hare, Snoo Wilson and Stephen Poliakoff. Major Adviser: Glen W. Gadberry

Janice Ann Smith, St. Paul

B.A. '72, Macalester College; M.A. '80, University of Minnesota. Degree: Doctor of Philosophy, February '92. Major: Linguistics. Minor: Supporting Program. Thesis: Topic and Variation in the Oral Proficiency of International Teaching Assistants. Major Adviser: Elaine E. Tarone

Sidney Antony Snell, Minneapolis

B.Sc.(Eng) '83, M.Sc. '85, University of London. Degree: Doctor of Philosophy, October '91. Major: Aerospace Engineering. Minor: Supporting Program. Thesis: Nonlinear Dynamic-Inversion Flight Control of Supermaneuverable Aircraft. Major Adviser: William L. Garrard

William Anders Solheim, Lakefield

B.A. '84, M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Scandinavian Studies. Minor: Supporting Program. Thesis: Ibsen: From Historical Drama to Profane History. Major Adviser: Goran K. N. Stockenstrom

Sang Hoon Song

B.E. '77, Yonsei University; M.S. '79, Korea Advanced Institute of Science and Technology; M.S. '85, University of Wisconsin. Degree: Doctor of Philosophy, February '92. Major: Computer and Information Sciences. Minor: Electrical Engineering. Thesis: An Incremental Algorithm and Hardware Accelerator for Test Pattern Generation. Major Adviser: Larry L. Kinney

Inmaculada Soria, Madrid, Spain

Degree: Doctor of Philosophy, February '92. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Absorption and First-Pass Disposition of (-)Carbovir, in the Rat. Major Adviser: Cheryl L. Zimmerman

Andrea Spiro, Venice, Italy

Laurea '83, Università Degli Studi di Padova; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Mathematics. Minor: Supporting Program. Thesis: On the Infinitesimal Transformations of Intransitive Lie Pseudogroups. Major Adviser: Jack F. Conn

Cheryl Lea Starr, Eau Claire, Wis.

B.S. '73, Northern Michigan University; M.A. '82, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Theatre Arts. Minor: Supporting Program. Thesis: Theatrical Literature Involving Stressful Situations and the Impact Upon Young Audiences: An Evaluation of Published Scripts, 1980-1988. Major Adviser: Monty K. Neely

Gerd Steckel, Germany

Staatsexamen '79, Johann Wolfgang Goethe Universität, Frankfurt; M.A. '83, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: German. Minor: Supporting Program. Thesis: Leerstellen: Alexander Kluges Texte und Filme zwischen aufklärerischem und romantischem Diskurs. Major Adviser: Jochen Schulte-Sasse

David Francis Steele, Oakdale

B.A. magna cum laude '80, Macalester College; M.A. '84, M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: History. Minor: Supporting Program. Thesis: Alfred E. Frauenfeld and the Development of the Nazi Party in Vienna, 1930-1933. Major Adviser: William E. Wright

Dean Duane Steele

B.Ag.E. with distinction '84, University of Minnesota; M.S. '87, South Dakota State University. Degree: Doctor of Philosophy, October '91. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Network Modeling of Relative Diffusion Coefficients for Porous Media. Major Adviser: John L. Nieber

Andreas Steinmetz, Taunusstein, Germany.

B.S. '86, University of Washington; Diplom '87, J. Gutenberg University Mainz. Degree: Doctor of Philosophy, January '92. Major: Physics. Minor: Supporting Program. Thesis: Aspects of Unification Scale Dark Matter. Major Adviser: Thomas F. Walsh

Kristi Ann Steinmetz, North St. Paul

B.S. '84, University of Illinois; M.S. '87, University of Washington. Degree: Doctor of Philosophy, January '92. Major: Epidemiology. Minor: Nutrition. Thesis: Vegetable and Fruit Consumption and Cancer Risk. Major Adviser: John D. Potter

Ellen Smith Stewart, Wayzata

B.A. '67, Vanderbilt University; M.S. honors '71, Columbia University. Degree: Doctor of Philosophy, November '91. Major: Psychology. Minor: Supporting Program. Thesis: Social-Ethical Dilemmas in the Therapist-Client Dyad. Major Adviser: Jo-Ida C. Hansen

Gary W. Stoddard, Logan, Utah

B.S. cum laude '84, M.S. '85, Utah State University. Degree: Doctor of Philosophy, November '91. Major: Food Science. Minor: Supporting Program. Thesis: Molecular Analyses of a Bacteriocin Gene Cluster in *Lactococcus lactis* subsp. *lactis* Biovar Diacetylactis WM4. Major Adviser: Larry L. McKay

Jeffrey Noel Stone, Thorold, Ontario, Canada.
B.Sc. (Honors) '82, Lakehead University, M.S. '84, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Wildlife Conservation. Minor: Fisheries. Thesis: The Identification of Species Interactions and the Potential for Forecasting North American Waterfowl and Lake Superior Fish Populations by Multivariate Time Series Methods. Major Adviser: Yosef Cohen

Jinjun Sun
Degree: Doctor of Philosophy, January '92. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Particulate Emissions and Control Research on a Sewage Sludge Incinerator. Major Advisers: Peter H. McMurry and Benjamin Y. H. Liu

Shuming Suo, Hebei, People's Republic of China
B.S. '82, Nanjing Technological College of Forest Products; M.Sc.F. '85, University of Toronto. Degree: Doctor of Philosophy, December '91. Major: Forestry. Minor: Supporting Program. Thesis: Computer Simulation Modeling of Structural Particleboard Properties. Major Adviser: James L. Bowyer

Bimal Vasant Thakkar, Bombay, India
B.S. '85, Northwestern University. Degree: Doctor of Philosophy, December '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Measurement of Molecular Level Adhesion Forces Between Solids Using the Surface Forces Apparatus. Major Adviser: Matthew V. Tirrell

Carol Edith Thickstun, Lake Forest, Ill.
B.A. magna cum laude '80, Middlebury College; M.A. '83, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Spanish. Minor: Supporting Program. Thesis: Reviewing Film and Fiction: Spanish American Writers and the Cinema. Major Adviser: Rene Jara

David Thomas, Cardiff, Great Britain.
B.A. '85, University of Cambridge. Degree: Doctor of Philosophy, November '91. Major: Physics. Minor: Supporting Program. Thesis: Supersymmetry and Dark Matter, A New Candidate. Major Adviser: Keith A. Olive

Patricia Corcoran Thomas, Avoca, Pa.
B.A. '75, Bloomsburg State College; M.A. '83, Middlebury College. Degree: Doctor of Philosophy, October '91. Major: Hispanic and Luso-Brazilian Literatures. Minor: Supporting Program. Thesis: 'La verdad de su amor verdadero': Gay Love and Social Protest in the Poetry of Luis Cernuda. Major Adviser: Antonio Ramos

Lisa Mary Thornquist, Minneapolis
B.A. '80, M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Geography. Minor: Supporting Program. Thesis: Home on the Range: Sense of Place in Economically Stressed Areas. Major Adviser: John G. Rice

Richard Ernest Thurlow, Eagan
B.S. with distinction '74, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Educational Psychology. Minor: Cognitive Science. Thesis: The Inference of Causal Antecedents During the Reading of Narratives. Major Adviser: Paulus W. Vandenbroek

Anne Elizabeth Tieleman, Riner, Va.
B.S. summa cum laude '86, North Carolina State University. Degree: Doctor of Philosophy, October '91. Major: Food Science. Minor: Supporting Program. Thesis: Characterization of the Proteolytic Products in Cheese. Major Adviser: Joseph J. Warthesen

Nacir Tit
M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Physics. Minor: Supporting Program. Thesis: Electronic and Optical Properties of Anodic Oxide Films on Titanium. Major Adviser: J. Woods Halley

Laura R. Todd, St. Paul
B.A. magna cum laude '81, Carleton College; M.S. '83, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Plant Pathology. Minor: Supporting Program. Thesis: Pathogenesis of *Zea mays* by *Fusarium moniliforme* Using Enzyme Analysis. Major Advisers: Thor Kommedahl and Carol E. Windels

Chyu Jinh Torng, Taiwan
B.Sc. '83, Tamkang University; M.S. '87, University of Alabama. Degree: Doctor of Philosophy, November '91. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Deposition and Characterization of C:N Thin Films for Both Electronic and Magnetic Device Application. Major Adviser: John M. Sivertsen

Norman J. Troullier, Manitowoc, Wis.
B.S. summa cum laude '85, University of Wisconsin. Degree: Doctor of Philosophy, October '91. Major: Materials Science and Engineering. Minor: Physics. Thesis: A Study of Buckminsterfullerene Using New Pseudopotentials. Major Adviser: Jose L. Martins

Yi Hua Tsao, Taiwan
B.S. '86, National Taiwan University. Degree: Doctor of Philosophy, October '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Surface Forces Measurements at Various Temperatures. Major Adviser: D. Fennell Evans

Sujaya Udayagiri, India
B.Sc. honours '75, M.Sc. '77, University of Delhi. Degree: Doctor of Philosophy, December '91. Major: Entomology. Minor: Supporting Program. Thesis: A Chemically Mediated Interaction Between Plants and *Macrocentrus grandii* Goidanich (Hymenoptera: Braconidae), a Specialist Parasitoid of European Corn Borer. Major Adviser: Richard L. Jones

Vitelio Ignacio Utrera, Caracas, Venezuela

Med.Vet. '79, Universidad Central de Venezuela. Degree: Doctor of Philosophy, October '91. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Characterization of a Low Virulence Strain of *Actinobacillus pleuropneumoniae*. Major Adviser: Carlos Pijoan

Ambrosio Velasco-Gomez, Mexico City, Mexico

Licenciado '80, Universidad Nacional Autonoma de Mexico: M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Political Science. Minor: Supporting Program. Thesis: History and Philosophy in the Study of Political Theory. Major Adviser: Edwin Fogelman

Dionisios Gerasimos Vlachos, Athens, Greece

Diploma '87, National Technical University of Athens: M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Structure and Dynamics of Adsorbed Phases and Crystal Surfaces. Major Advisers: Lanny D. Schmidt and Rutherford Aris

Gary Robert Walton, Orem, Utah

B.A. magna cum laude '78, Brigham Young University; M.A. '83, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: History. Minor: Supporting Program. Thesis: Men and the Military: A Socio-Demographic Study of the Habsburg Military from 1740 to 1790. Major Adviser: William E. Wright

Zhiguo Wang, Wuhan, Hubei, People's Republic of China

B.S. '85, Wuhan University. Degree: Doctor of Philosophy, January '92. Major: Physics. Minor: Supporting Program. Thesis: Studies on the Structure of the Donor-Related Deep Level and Strain-Induced Effect in Gallium Arsenide and Aluminum Gallium Arsenide. Major Adviser: Marshall I. Nathan

Antony John Warner, Berkshire, England

B.Sc.Ag. '73, University of Aberdeen, M.A. '91, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Education. Minor: Supporting Program. Thesis: Promoting Change in Agricultural Extension Training in Sind, Pakistan: An Action Research Approach. Major Adviser: Edgar A. Persons

Karen Regine Wasiluk, St. Paul

B.A. magna cum laude '84, Hamline University. Degree: Doctor of Philosophy, December '91. Major: Microbiology. Minor: Supporting Program. Thesis: Killing of *Pseudomonas aeruginosa* and *Pseudomonas cepacia* by Bactericidal Proteins Isolated from the Cytoplasmic Granules of Human Polymorphonuclear Leukocytes. Major Adviser: Beulah H. Gray

David John Waters, Harrisburg, Pa.

B.S. with distinction '80, D.V.M. '84, Cornell University. Degree: Doctor of Philosophy, February '92. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Supporting Program. Thesis: Immobilization (Disuse) Osteoporosis: Studies Using a Unilateral Hind Limb Model in Immature Dogs. Major Adviser: Dennis D. Caywood

Cyprian Victor Weaver, Collegeville

B.A. '68, St. John's University; M.S. '79, University of Minnesota. Degree: Doctor of Philosophy, October '91. Major: Anatomy. Minor: Supporting Program. Thesis: A Physiological and Morphological Investigation of the Rat Pancreas: The Atrophic Effects of Dietary Copper Deficiency on the Endocrine Islets and the Angioarchitecture of the Organ. Major Adviser: Robert L. Sorenson

Marjorie Daniels Weiss, Oconomowoc, Wis.

B.S.N. cum laude '78, M.S.N. '84, University of Wisconsin. Degree: Doctor of Philosophy, December '91. Major: Nursing. Minor: Business Administration. Thesis: Nurse Attendee Purchasing Patterns. Major Advisers: Diane K. Kjervik and Verona C. Gordon

Shipei Weng, Shanghai, People's Republic of China

M.S. '82, East China Normal University; M.S. '91, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Statistics. Minor: Supporting Program. Thesis: Sequential Allocation to Maximize the Probability of Achieving a Number of Successes – A Bernoulli Probability Bandit Problem. Major Adviser: Donald A. Berry

Michael Dale Williams, Zimmerman

B.S. with distinction '76, M.A. '82, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Education. Minor: Supporting Program. Thesis: The Differential Effectiveness of Attributional Feedback and Learner-Control in a Computer-Based Economics Lesson. Major Adviser: Carol A. Carrier

William Robert Williams, Chelmsford, Mass.

B.S. '87, Worcester Polytechnic Institute. Degree: Doctor of Philosophy, November '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Kinetics and Bifurcations in Catalytic Combustion. Major Adviser: Lanny D. Schmidt

Kevin S. Winker, Prior Lake

B.A. '84, B.S. '84, M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Ecology. Minor: Supporting Program. Thesis: Nearctic Passerine Migrants: Nonbreeding Ecology and Habitat Selection. Major Adviser: David F. Parmelee

Shekman Lau Wong, Hong Kong

B.S.Pharm. '85, University of the Philippines. Degree: Doctor of Philosophy, March '92. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Zidovudine Pharmacokinetics: Elimination Pathways, Brain Distribution, and Interactions with Probenecid. Major Adviser: Ronald J. Sawchuk

Ho Hyung Woo, Seoul, Korea

B.Ag. '78, M.Ag. '80, Korea University; M.S. '86, Michigan State University. Degree: Doctor of Philosophy, February '92. Major: Plant Physiology. Minor: Supporting Program. Thesis: Molecular Analysis of Phase Variation in *Hedera Helix* L., English Ivy. Major Adviser: Wesley P. Hackett

Ching-Ting Wu, Taipei, Taiwan

B.Sc.Eng. '86, National Taiwan University. Degree: Doctor of Philosophy, October '91. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Several Optimization Problems in Computer-Aided Design for VLSI. Major Adviser: David H. Du

Hu Xian, Lanzhou, China

B.Med. '82 Lanzhou Medical College. Degree: Doctor of Philosophy, February '92. Major: Physiology. Minor: Supporting Program. Thesis: Effects of Arachidonic Acid and Other Fatty Acids on Calcium Channels in Guinea Pig Ventricular Myocytes. Major Adviser: Marvin B. Bacaner

Weiping Xie, Chongqing, Sichuan, People's Republic of China

B.S. '82, Southwest Agricultural College; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, December '91. Major: Plant Pathology. Minor: Supporting Program. Thesis: Isolation, Purification, Characterization and Structure Identification of Derivatives of Fusarochromanone Produced by *Fusarium equiseti*. Major Adviser: Chester J. Mirocha

Qiujun Xiong, Shanghai, People's Republic of China

Degree: Doctor of Philosophy, November '91. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Kinetics of the Thermal Decomposition Reaction of Difluorochloromethylperoxynitrate. Major Adviser: Robert W. Carr, Jr.

Xiao-Liang Xu

B.S. '82, M.S. '84, Zhejiang University. Degree: Doctor of Philosophy, November '91. Major: Electrical Engineering. Minor: Supporting Program. Thesis: A New Eigenspace Based Approach to Source Localization and Its Performance Analysis. Major Adviser: Kevin M. Buckley

Catherine Hagen Yamoore, Minneapolis

M.A. '73, M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Sociology. Minor: Supporting Program. Thesis: The Influence of Maternal Employment on Adolescent Problem Behavior. Major Adviser: Jeylan T. Mortimer

Rui Yang, Beijing, People's Republic of China

M.S. '87, University of Missouri. Degree: Doctor of Philosophy, March '92. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Investigating Conductive Polymers by Scanning Tunneling Microscopy and Spectroscopy. Major Adviser: D. Fennell Evans

Xiaolong Yang, Shanghai, People's Republic of China

B.S. '82, Shanghai University of Technology; M.S. '87, South Dakota School of Mines and Technology. Degree: Doctor of Philosophy, December '91. Major: Mechanics. Minor: Supporting Program. Thesis: On Nonlinear Resonance Phenomena in Nearly Square Plates. Major Adviser: Patarasp R. Sethna

Tangshiu Yeh, Taiwan

B.S. '83, National Tsing Hua University. Degree: Doctor of Philosophy, February '92. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Correlation of Structure/Magnetic Properties/Micromagnetic Character of RF Sputtered Co, CoCr, CoCrTa Thin Films on Thin Cr Underlayers. Major Adviser: John M. Sivertsen

Yi-Fen Yen, Taiwan

B.S. '86, National Tsing Hua University. Degree: Doctor of Philosophy, January '92. Major: Physics. Minor: Supporting Program. Thesis: Pion Elastic Scattering from Polarized ^{13}C in the Energy Region of the P33 Resonance. Major Adviser: Dietrich K. Dehnhard

Kwangho You, Seoul, Korea

B.Eng. '84, Yonsei University. Degree: Doctor of Philosophy, March '92. Major: Geo-Engineering. Minor: Supporting Program. Thesis: Infill Sampling Design For Tunnel Rock Classification Using Both Quantitative and Qualitative Information. Major Adviser: Randal J. Barnes

Song Joong Yun

B.S. '81, Chonbuk National University; M.S. '83, Seoul National University. Degree: Doctor of Philosophy, February '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: (1-3, 1-4)-Beta-Glucan 4-Glucanohydrolase Gene Expression in Oat. Major Adviser: David A. Somers

Joseph Emmett Zachman, Minneapolis

B.S. '82, M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, January '92. Major: Soil Science. Minor: Supporting Program. Thesis: Bacteria Associated with the Earthworm *Eisenia fetida*. Major Adviser: Jean-Alex E. Molina

Qing Zhou, Wuhan, Hubei, China

Degree: Doctor of Philosophy, February '92. Major: Mathematics. Minor: Supporting Program. Thesis: Computability on Open and Closed Subsets of Euclidean Space. Major Adviser: J. Ian Richards

Xiaoming Zhou, Beijing, People's Republic of China

Degree: Doctor of Philosophy, October '91. Major: Mathematics. Minor: Supporting Program. Thesis: On the Decomposition Map of Grothendieck Groups. Major Adviser: Morton E. Harris

Kathleen Elizabeth Zinnel, Bloomington

B.S. '76, M.S. '80, University of Minnesota. Degree: Doctor of Philosophy, March '92. Major: Biology. Minor: Supporting Program. Thesis: Behavior of Free-Ranging Pocket Gophers. Major Adviser: John R. Tester

Christopher Zinselmeier

B.S. '84, M.S. '87, University of Missouri. Degree: Doctor of Philosophy, December '91. Major: Agronomy. Minor: Supporting Program. Thesis: The Role of Assimilate Supply, Partitioning and Metabolism in Maize Kernel Development at Low Water Potentials. Major Advisers: Robert J. Jones and Mark E. Westgate

Degrees Pending

The following individuals had not completed all the requirements for their degrees as of March 31, 1992. 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

Johan Ake Akesson, Vaxjo, Sweden

B.Sc. '90, Vaxjo University. Degree: Master of Business Administration. Major: Business Administration.

Vicki Walker Allmon

B.S.B. '84, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Mosaid Abdullah Al-Sadhan

B.Arch '87, King Saud University. Degree: Master of Architecture. Major: Architecture.

Paul Anthony Andersen, Richfield

B.M.E. '82, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Dianne Jean Anderson, Kenosha, Wis.

B.A. '89, Marquette University. Degree: Master of Social Work. Major: Social Work.

Kelly Ann Anderson, Cottage Grove

B.S. magna cum laude '83, Winona State University. Degree: Master of Business Administration. Major: Business Administration.

Kathleen Joy Arendt

B.S.B. '88, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Carol Sheridan Arneson, Golden Valley

B.A. '84, Metropolitan State University. Degree: Master of Business Administration. Major: Business Administration.

Steven Jay Arnett, Eagan

B.S., B.A. '89, Rockhurst College. Degree: Master of Business Administration. Major: Business Administration.

Sharon Lousie Arnold, Cold Spring

B.A. summa cum laude '91, College of Saint Benedict. Degree: Master of Business Administration. Major: Business Administration.

Dawn Denise Bartl

B.B.A. '88, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

Dawn E. Bartz, St. Paul

B.S. magna cum laude '84, Mankato State University. Degree: Master of Social Work. Major: Social Work.

John Matthew Beam, Brooklyn Park

B.S. '85, University of Illinois. Degree: Master of Business Administration. Major: Business Administration.

Lynn E. Bechthold, Minneapolis

B.S. '85, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Mark William Beffel

B.A. '70, St. Ambrose College; M.A. '76, Marycrest College. Degree: Master of Business Administration. Major: Business Administration.

William C. Behrenbrinker, International Falls

B.S. '73, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

William John Benjamin III, Edina

B.A. '83, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

John Michael Bernstein, Minneapolis

B.A. '86, Carleton College. Degree: Master of Business Administration. Major: Business Administration.

Scott Robert Berry, Detroit, Mich.

B.I.S. cum laude '91, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Christiane Besener-Boulton, Berlin, Germany

B.A. cum laude '91, Augsburg College. Degree: Master of Business Administration. Major: Business Administration.

Forrest Blanton Bessinger, Jr., St. Paul

M.D. '65, Emory University. Degree: Master of Business Administration. Major: Business Administration.

David Harris Bialik, New York, N.Y.

B.A. '90, Hunter College. Degree: Master of Business Administration. Major: Business Administration.

Denise Hanna Bisanz, Minneapolis

B.A. '71, Cleveland State University. Degree: Master of Social Work. Major: Social Work.

Joel Black, Mitchell, S.D.

B.A. '83, Dakota Wesleyan University. Degree: Master of Business Administration. Major: Business Administration.

Kathleen Ann Boegeman, St. Paul

B.S. '83, Mankato State University. Degree: Master of Social Work. Major: Social Work.

David Robert Bonnerup, Albert Lea

B.S. '75, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Regina Evelyn Bonsignore, Fairfax, Va.

B.A. with honors '82, Trinity College. Degree: Master of Landscape Architecture. Major: Landscape Architecture.

Mark Henry Book, Brooklyn Park

B.S.B. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Kimberly M. Bothun, Elgin

B.A. '90, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Karen Patricia Brady, Dallas, Tex.

B.A. '87, University of Dallas. Degree: Master of Fine Arts. Major: Theatre Arts.

Gerald Forrester Bragg, Manchester, Mich.

B.A. '85, Hillsdale College. Degree: Master of Business Administration. Major: Business Administration.

William Arthur Braun, Red Wing

B.S.B. '88, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Angela M. Brown, Ames, Iowa

B.A. '90, Northeast Missouri State University. Degree: Master of Business Administration. Major: Business Administration.

Joline Fargo Bundlie, St. Paul

B.S.B. '82, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

David Francis Burd, Maplewood

B.A. '90, Marquette University. Degree: Master of Business Administration. Major: Business Administration.

Rebecca Tyler Butler, Duluth

B.A. '86, University of Vermont. Degree: Master of Business Administration. Major: Business Administration.

Heidi Lynn Bye, Wayzata

B.S.B. '77, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

William J. Caesar, Anoka

B.A. '90, Metropolitan State University. Degree: Master of Business Administration. Major: Business Administration.

Camille Calderaro, Minneapolis

B.S. '74, University of Minnesota. Degree: Master of Landscape Architecture. Major: Landscape Architecture.

Pierre Jacques Callies, Saint Broing, France

B.S. '90, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Carla Jean Cambronne, Frazee

B.S. '91, University of Denver. Degree: Master of Business Administration. Major: Business Administration.

Grant Raymond Campany, Ashtabula, Ohio

B.S.B. with distinction '91, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Brian Thomas Carlson, Bloomington

B.S.B. '69, J.D. '72, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

John Thomas Carroll, Gardner, Mass.

B.S. magna cum laude '88, Syracuse University. Degree: Master of Business Administration. Major: Business Administration.

Manuel Dionisio Castillo, St. Paul

B.A. '74, Macalester College; J.D. '85, William Mitchell College of Law. Degree: Master of Business Administration. Major: Business Administration.

Daniel Ray Chard, Salt Lake City, Utah

B.A. '89, Brigham Young University. Degree: Master of Business Administration. Major: Business Administration.

Jane Evelyn Christenson, Grand Fork, N.D.

B.F.A. magna cum laude '89, University of North Dakota. Degree: Master of Fine Arts. Major: Theatre Arts.

Dennis Vernon Christian, Minneapolis

B.A. '66, Luther College. Degree: Master of Social Work. Major: Social Work.

Guy W. Cierzan, Minneapolis

B.A. '91, University of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Peter Alan Claypoole, Deerwood

B.F.A. '82, Michigan State University. Degree: Master of Business Administration. Major: Business Administration.

Peter Joseph Cleary

B.S. '82, Texas A & M University. Degree: Master of Business Administration. Major: Business Administration.

Timothy Paul Cofer, White Bear Lake

B.A. magna cum laude '90, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Christopher D. Cole, Minnetonka

B.A. cum laude '89, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Timothy Vaughan Coleman, Rochester

A.B. '90, University of Michigan. Degree: Master of Business Administration. Major: Business Administration.

Mitchell William Cook, Grand Rapids, Mich.

A.B. '87, Colby College. Degree: Master of Business Administration. Major: Business Administration.

Mary Hughes Coulter, Minneapolis

B.A. '83, College of St. Benedict. Degree: Master of Business Administration. Major: Business Administration.

Michael James Cunningham, Dubuque, Iowa

B.S. '86, Iowa State University of Science and Technology. Degree: Master of Business Administration. Major: Business Administration.

Peter James Curoe, Dubuque, Iowa

B.A. magna cum laude '86, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

James Cadmus Reeves Dake, Burnsville

B.S. '80, Cornell University. Degree: Master of Business Administration. Major: Business Administration.

Marie Mork Darran, Excelsior

B.S. '87, University of Southern California. Degree: Master of Business Administration. Major: Business Administration.

Scott Anthony Dattalo, Plymouth

B.S.B. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Laura Ann Davies

B.S.B. '90, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Susan E. Dees, Minneapolis

B.A. '87, Macalester College. Degree: Master of Business Administration. Major: Business Administration.

Scott Michael Dorgan, St. Paul

B.B.A. '89, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

John R. Dundon, Minneapolis

B.S. '86, Marquette University. Degree: Master of Business Administration. Major: Business Administration.

Derek N. Dunham, Stanley, N.D.

B.B.A. '89, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

Julie Anne Dunnigan, Minneapolis

B.B.A. '87, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Jill Eleanor Dunning, North Olmsted, Ohio

B.S. with honor '90, Michigan State University. Degree: Master of Business Administration. Major: Business Administration.

Mark Alan Edblom, New Hope

Degree: Master of Business Administration. Major: Business Administration.

Diane Marie Eder, Shoreview

B.S. '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Stuart Harold Eischens, New Prague

B.S. '87, Mankato State University. Degree: Master of Business Administration. Major: Business Administration.

Jill Marie Ellingson, Cumberland, Wis.

B.A. cum laude '85, College of Saint Benedict. Degree: Master of Business Administration. Major: Business Administration.

Mark Alan Emslie, Minneapolis

B.A. '83, Colorado College. Degree: Master of Business Administration. Major: Business Administration.

Robert Michael Engler, Cedar Rapids, Iowa

B.S. '83, Iowa State University. Degree: Master of Business Administration. Major: Business Administration.

David Clinton Erickson, Minneapolis

B.S.B. '81, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Joseph Andrew Esch, Wichita, Kan.

B.A. '91, Wichita State University. Degree: Master of Business Administration. Major: Business Administration.

Mark Allen Ester, Stillwater

A.B. '74, Augustana College; M.S. '77, Pennsylvania State University. Degree: Master of Business Administration. Major: Business Administration.

Tore Falck, Oslo, Norway

Degree: Master of Social Work. Major: Social Work.

Patrick John Farley, Alexandria

B.S. '87, Saint Johns University. Degree: Master of Business Administration. Major: Business Administration.

Jehane Fata

B.Sc. '81, Alexandria University. Degree: Master of Business Administration. Major: Business Administration.

Lindsay Sinclair Fenwick

B.S. '71, United States Air Force Academy; M.S. '76, Stanford University. Degree: Master of Business Administration. Major: Business Administration.

Alan A. Fischer, Minnetonka

B.A. '69, Northern State College. Degree: Master of Business Administration. Major: Business Administration.

Scott Lee Fischer, Plymouth

B.S.B. '82, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

James Alfred Fitzgerald, Afton

B.S. '76, Bradley University. Degree: Master of Business Administration. Major: Business Administration.

Karen Marie Fletcher, Minneapolis

B.A. '88, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Julie Margaret Foss, Minneapolis

B.S.B.A. summa cum laude '81, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

Kathleen Louise Franklin, Bloomington

B.S.B. '86, B.A. '87, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Lynn Ellen Franz

B.A. '90, Whitworth College. Degree: Master of Business Administration. Major: Business Administration.

Scott J. Fries, Minneapolis

B.B.A. cum laude '89, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Dennis Charles Fulton, Welch

B.S. '73, Wisconsin, State University. Degree: Master of Business Administration. Major: Business Administration.

James Edwin Giffit, Brooklyn Park

B.S. with distinction '85, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Kathleen Carole Gladfelter, New Hope

B.A. '79, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Matthew Evan Goldberg, Minneapolis

B.B.A. with distinction '89, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Christopher Lee Goldman, Albert Lea

B.S. '88, Mankato University. Degree: Master of Business Administration. Major: Business Administration.

Jean Marie Gottwalt

B.A. '85, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Brian L. Granger, Eagle River, Ala.

B.A. magna cum laude '86, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Karen A. Grupe, Reno, Nev.

B.A. '91, University of Oregon. Degree: Master of Business Administration. Major: Business Administration.

Geir Olav Guttuhaugen, Ottestad, Norway

B.S. summa cum laude '91, St. Cloud State University. Degree: Master of Business Administration. Major: Business Administration.

George Demos Hadjiyanis, Minneapolis

B.E.E. '87, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Deborah Gail Halvorson, Minneapolis

B.B.A. '84, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

Steven Michael Hamer, Willernie

B.E.E. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Thomas Arthur Hammerberg, St. Paul

B.S.L.A. '79, Iowa State University of Science and Technology. Degree: Master of Landscape Architecture. Major: Landscape Architecture.

Jonathan Mark Hansen, St. Paul

B.S. '86, University of Nebraska. Degree: Master of Business Administration. Major: Business Administration.

Christine Ann Harper, Minneapolis

B.S.N. with high distinction '77, M.S. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Beth Katherine Harrison, Stillwater

B.A. '89, College of St. Benedict. Degree: Master of Social Work. Major: Social Work.

Michael S. Harter, West Bend, Wis.

B.S. '86, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Mai Karine Hauger, Rochester, N.Y.

B.A. '87, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Brenda Ann Hernandez, Minneapolis

B.A. '83, Macalester College. Degree: Master of Business Administration. Major: Business Administration.

Geraldine Ann Herriges, Fridley

B.S.N. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Timothy Patrick Herron, Eden Prairie

B.S. '86, Mankato State University. Degree: Master of Business Administration. Major: Business Administration.

Steven Marshall Hertog, Vadnais Heights

B.E.E. '84, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Jason Robert Hickey, Milwaukee, Wis.

B.B.A. cum laude '84, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Stephen Anthony Hirsch, Edina

B.A. '83, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Christopher James Hnilicka, Coon Rapids

B.S. '85, University of Illinois. Degree: Master of Business Administration. Major: Business Administration.

Mary B. Honstrom, Lindstrom

B.S. '83, St. Cloud State University. Degree: Master of Business Administration. Major: Business Administration.

Scott A. Horst, Wayzata

B.A. '89, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Douglas Keith Hoselton, Boise, Idaho

B.S. with high scholarship '86, Oregon State University. Degree: Master of Business Administration. Major: Business Administration.

Henrik Colind Host, Oslo, Norway

B.S. '89, University of Oregon. Degree: Master of Business Administration. Major: Business Administration.

Thomas Brian Houghton, White Bear Lake

B.S.B. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Randall Todd Hubin, Boulder, Colo.

B.A. summa cum laude '89, Trinity College. Degree: Master of Business Administration. Major: Business Administration.

Paul Anthony Ice, Apple Valley

B.M.E. '81, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Tina M. Jackson, Washington, D.C.

B.B.A. '90, George Washington University. Degree: Master of Business Administration. Major: Business Administration.

Mark Allen Jacobsen

B.A. '79, University of California. Degree: Master of Business Administration. Major: Business Administration.

Valerie Sue Jenkins, Minneapolis

B.F.A. '85, Grand Valley State College. Degree: Master of Fine Arts. Major: Studio Arts.

Laura Jean Jochimsen, Eau Claire, Wis.

B.B.A. summa cum laude '89, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Steven Johansen

B.A. with high honors '80, University of Northern Iowa. Degree: Master of Business Administration. Major: Business Administration.

Karla Dawn Johnson, Fargo, N.D.

B.S.N. '85, Moorhead State University. Degree: Master of Business Administration. Major: Business Administration.

Matthew Donald Johnson, Hartford, S.D.

B.B.A. '90, Dakota State University. Degree: Master of Business Administration. Major: Business Administration.

Stephanie Diane Johnson, Minneapolis

B.S. '89, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

David Munier Kadrie, Minneapolis

B.A. '84, Northwestern University. Degree: Master of Business Administration. Major: Business Administration.

Adrian R. Kannarr

B.S. magna cum laude '91, Arizona State University. Degree: Master of Business Administration. Major: Business Administration.

Kamal George Karam, Hazmieh, Lebanon

B.S. summa cum laude '89, Mankato State University. Degree: Master of Business Administration. Major: Business Administration.

Terance J. Kasper, Bismarck, N.D.

B.S.E.E. '87, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

Leyla Gokcen Kassem, Golden Valley

B.S.B. with high distinction '87, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Diane Kay Kassler, Coon Rapids

B.A. '86, College of St. Catherine. Degree: Master of Social Work. Major: Social Work.

Kevin Kelbel, Brooklyn Park

B.S. magna cum laude '84, Viterbo College. Degree: Master of Business Taxation. Major: Business Taxation.

Ann Summerville Kelly, Minneapolis

B.A. '86, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Eileen T. Kelly, Bloomington

B.A. '75, Saint Mary's College. Degree: Master of Business Taxation. Major: Business Taxation.

Peggy Ann Kelly, Roseville

B.A. cum laude '86, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Kevin P. Kern

B.S. summa cum laude '91, St. Cloud State University. Degree: Master of Business Administration. Major: Business Administration.

Jaeuck Kim, Seoul, Korea

B.A. '88, Sung Kyun Kwan. Degree: Master of Business Administration. Major: Business Administration.

Young Sam Kim, Seoul, Korea

B.S. '87, Hanyang University. Degree: Master of Architecture. Major: Architecture.

Kevin Scott Klopfenstein, Des Moines, Iowa

B.B.A. '87, University of Iowa. Degree: Master of Business Administration. Major: Business Administration.

Leigh David Kneer, Park Falls, Wis.

B.B.A. magna cum laude '91, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Tracy Lee Knoff, Minnetonka

B.B.A. '88, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Megan Lynn Koehler, San Diego, Calif.

B.A. cum laude '84, University of California. Degree: Master of Social Work. Major: Social Work.

Elaina Kopilenko, St. Paul

Degree: Master of Business Administration. Major: Business Administration.

Duane Willis Korum

B.S. '71, Mankato State College. Degree: Master of Business Administration. Major: Business Administration.

Bruce Willim Kuiper, Crystal

B.S. '86, St. Cloud State University. Degree: Master of Business Administration. Major: Business Administration.

Vivek Kumar, Middletown, N.Y.

B.S.B. '88, Virginia Polytechnic Institute and State University. Degree: Master of Business Administration. Major: Business Administration.

Chingyuan Kung, Taiwan

B.A. '86, National Taiwan University. Degree: Master of Business Administration. Major: Business Administration.

Eric John Larson, Minneapolis

B.S. '89, St. John's University. Degree: Master of Business Administration. Major: Business Administration.

Mike Louis Larson, Hayward

B.M.E. with high distinction '87, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Jeffrey T. LaVake, Minneapolis

B.B.A. '84, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

John Dennis LeGray, Plymouth

B.S. '67, A.M. '75, University of Michigan. Degree: Master of Business Administration. Major: Business Administration.

Conrad William Leifur, St. Paul

B.A. magna cum laude '87, Yale College. Degree: Master of Business Administration. Major: Business Administration.

Elizabeth B. Lightfoot, Mercer Island, Wash.

B.S. '89, Santa Clara University. Degree: Master of Social Work. Major: Social Work.

Daniel Walter Liimatta, Aurora

B.S.B. '90, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Brian Wayne Lindgren, Mason City, Iowa

B.Arch. with distinction '90, Iowa State University of Science and Technology. Degree: Master of Architecture. Major: Architecture.

Sharon Kay Link, Wisconsin Rapids, Wis.

B.B.A. '82, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Brandt L. Lippert, Mason City, Iowa

B.A. '71, University of Rochester. Degree: Master of Business Administration. Major: Business Administration.

Darice Marie Lippert-Nelson, St. Michael

B.S. '88, St. Cloud State University. Degree: Master of Social Work. Major: Social Work.

Brendalee Berkman Litman

B.A. '61, B.S. '62, University of Minnesota. Degree: Master of Fine Arts. Major: Studio Arts.

Robert Thomas Little, Edina

B.S. with distinction '87, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

John Harvey Lorentz, Fargo, N.D.

B.Stat. with high distinction '90, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Daniel B. Luitjens, Worthington

B.S.B. with distinction '91, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Eric John Lund

B.A. '81, Gustavus Adolphus College. Degree: Master of Business Administration. Major: Business Administration.

James Curtis Luth, St. Paul

B.A. '83, Wartburg College. Degree: Master of Business Administration. Major: Business Administration.

David G. Machacek, Northfield

B.E.E. '81, M.S.E.E. '83, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Raj Kuldip Malhotra

M.Tech. '75, Indian Institute of Technology Delhi; M.F.S. '76, Cornell University. Degree: Master of Business Administration. Major: Business Administration.

Joseph Mansour Mansur, Woodbury

B.A. magna cum laude '69, University of Notre Dame; M.S. '71, Stanford University. Degree: Master of Business Administration. Major: Business Administration.

John Paul Marden, Minneapolis

B.A. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Margaret Ellen Martin, Green Bay, Wis.

Degree: Master of Business Administration. Major: Business Administration.

Peter MacNamee Martin, New Brighton

B.A. '73, University of Minnesota; J.D. '77, Hamline University. Degree: Master of Business Administration. Major: Business Administration.

Daniel Marcus McDonald, Fargo, N.D.

B.B.A. '88, M.S. '89, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

Gloria Marie McGee, St. Paul

B.A. '69, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Kristine A. McKasy, St. Paul

B.B.A. '87, Saint Mary's College. Degree: Master of Business Administration. Major: Business Administration.

Margaret Ellen McLafferty-Yares, St. Paul

B.S. '85, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Mary Anne McNeil

B.S. '89, St. Cloud State University. Degree: Master of Social Work. Major: Social Work.

Brian MacDonald Meeker, Minneapolis

B.S. '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Betty Anne Merritt

B.A. '80, Wayne State College. Degree: Master of Social Work. Major: Social Work.

Greg William Metcalf, Los Angeles, Calif.

B.A. cum laude '87, University of Washington. Degree: Master of Business Administration. Major: Business Administration.

Susan Marie Meyer, LaCrescent

B.S. '88, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Todd Jerome Mickelson, St. Paul

B.S. '84, Moorhead State University. Degree: Master of Business Administration. Major: Business Administration.

Brian Gerhardt Mierow, Brookfield, Wis.

B.A. '82, University of Minnesota. Degree: Master of Landscape Architecture. Major: Landscape Architecture.

Annice Evon Miller, Minneapolis

B.A. '82, B.S.B.A. '83, Ohio State University. Degree: Master of Business Administration. Major: Business Administration.

Donald Antone Miller

B.S. '85, North Dakota State University. Degree: Master of Business Administration. Major: Business Administration.

Jody Haugland Miller

B.Comp.Sc. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Joseph Lawrence Miller, Mahtomedi

B.S.M.E. '85, Montana State University. Degree: Master of Business Administration. Major: Business Administration.

Anne Marie Mockovak, St. Paul

B.A. '88, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Terry Mason Moore, Fairfax, Okla.

B.S. '77, Northeastern Oklahoma State University; J.D. '83, University of New Mexico. Degree: Master of Business Administration. Major: Business Administration.

Kenneth Lloyd Morris, Owatonna

B.S. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Peter William Morton, Minneapolis

B.B.A. magna cum laude '84, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Louann Marie Mueller

B.A. '86, College of St. Catherine. Degree: Master of Business Administration. Major: Business Administration.

Scott M. Mullinix, Edina

B.A. '87, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Akira Nakamura, Japan

B.A.Law '87, Waseda University. Degree: Master of Business Administration. Major: Business Administration.

Diane Kay Ness

B.A. magna cum laude '88, Augustana College. Degree: Master of Business Administration. Major: Business Administration.

Penny Kilis Nhan, Minneapolis

B.E.E. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Michael James Nicholas, Minneapolis

B.S. '88, University of Illinois. Degree: Master of Business Administration. Major: Business Administration.

Paul T. Norton, Minneapolis

B.S.B. '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

David John Nuernberg, Eagan

B.S.B. '87, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Patrick Donald O'Brien

B.S. '88, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Thomas Daniel O'Connor, Farmington

B.A. '89, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Laura Ann O'Halloran Helmer, Savage

B.A. '87, College of St. Catherine. Degree: Master of Business Administration. Major: Business Administration.

Wayne L. Olhoff, Shoreview

B.A. '90, Metropolitan State University. Degree: Master of Business Administration. Major: Business Administration.

Linda Caroline Ollis, Minneapolis

B.A. '84, Carleton College. Degree: Master of Business Administration. Major: Business Administration.

Jeanne Marie Oleson

B.S.B. '91, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Eric Towley Olson, Virginia

B.B.A. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Jean Leslie Olson, Bloomington

B.A. '80, Gustavus Adolphus College. Degree: Master of Business Administration. Major: Business Administration.

Sandra Lea Orbeck, White Bear Lake

B.A. '88, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Julie Oseid, Minneapolis

B.S. '85, University of Minnesota. Degree: Master of Architecture. Major: Architecture.

Christine Ann Pagel, Burnsville

B.A. '74, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Stylianios G. Pappas, Athens, Greece

Diploma '87, Athens University of Economics and Business. Degree: Master of Business Administration. Major: Business Administration.

Young Shik Park, Seoul, Korea

B.S. '83, Yonsei University. Degree: Master of Architecture. Major: Architecture.

Christopher Howard Patton, Minneapolis

B.A. '85, Simpson College. Degree: Master of Business Administration. Major: Business Administration.

Holly C Paulsen, Brookfield, Wis.

B.B.A. '87, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Nicholas Joffre Pedretti, Eden Prairie

B.S. highest honors '84, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Ross Gerard Phillips, Minneapolis

B.A. '86, Bethel College. Degree: Master of Social Work. Major: Social Work.

Janet Diane Pomerantz, Boston, Mass.

B.S. '78, Northeastern University. Degree: Master of Social Work. Major: Social Work.

Karen S. Porter, Wayzata

B.B.A. '88, University of Michigan. Degree: Master of Business Administration. Major: Business Administration.

Paul Christopher Qualy, Zumbrota

B.S. '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Nii-Ayite Animle Quaye, Minneapolis

B.A. '90, Ottawa University. Degree: Master of Business Administration. Major: Business Administration.

Laurie Marie Rabl, Wisconsin

B.A. '87, University of Wisconsin. Degree: Master of Social Work. Major: Social Work.

Shahreen Adeeba Rahman, Bangladesh

B.A. '91, College of St. Catherine. Degree: Master of Business Administration. Major: Business Administration.

Craig Theodore Ranheim

Degree: Master of Business Administration. Major: Business Administration.

Amy Susan Raskin, Minnetonka

B.S. with honors '83, University of Illinois. Degree: Master of Social Work. Major: Social Work.

Scott R. Reid

B.B.A. '90, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

John Howard Rempfer

B.B.A. '88, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Scott John Reubish, White Bear Lake

B.A. '89, College of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Jinho Rhee, Seoul, Korea

B.A. '81, Sogang University. Degree: Master of Business Administration. Major: Business Administration.

John Albert Rhody, Ogema, Wis.

B.S.B. '78, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

John M. Ries, Shoreview

B.S. '78, St. John's University. Degree: Master of Business Taxation. Major: Business Taxation.

Stephanie Anne Tyler Ritter, Minneapolis

B.A. '87, Drake University. Degree: Master of Social Work. Major: Social Work.

Mark D. Roffers, Milwaukee, Wis.

B.A. '90, University of Wisconsin. Degree: Master of Planning. Major: Planning.

Keith Robert Rose, Minneapolis

B.S.B.A. cum laude '83, Bucknell University. Degree: Master of Business Administration. Major: Business Administration.

Jean Marie Roskam, Edina

B.A. '88, Duke University. Degree: Master of Business Administration. Major: Business Administration.

James Paul Ross, Calumet

B.S.E.E. '84, University of North Dakota. Degree: Master of Electrical Engineering. Major: Electrical Engineering.

Kenneth Lee Rouse, Milwaukee, Wis.

B.S.E.E. '88, Marquette University. Degree: Master of Business Administration. Major: Business Administration.

William A. Ruhr, Woodbury

B.S. '83, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Carol E. Rundle, LaCrosse, Wis.

B.S. '88, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Paul Rutzen, Minneapolis

B.A. magna cum laude '86, Hamline University. Degree: Master of Business Administration. Major: Business Administration.

Daniel Joseph Ryan, Madison, Wis.

B.B.A. '85, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Paul Eric Ryan, Manitowoc, Wis.

B.S. '88, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Adora Appelquist Sage, Minneapolis

B.A. '75, B.I.S. '90, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

James Allen Sand, Burnsville

B.S.B. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Todd Eugene Sather, Chanhassen

B.S.B. '90, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Carol Jean Satre, St. Paul

B.S.W. '90, Bemidji State University. Degree: Master of Social Work. Major: Social Work.

Michael Dean Sauer

B.S. '87, St. Cloud State University. Degree: Master of Business Administration. Major: Business Education.

Thomas Alan Schroeder, Minneapolis

B.A. cum laude '82, Bethel College. Degree: Master of Social Work. Major: Social Work.

Mark Thomas Schuster, Minnetonka

B.S.B.A. '86, California State University. Degree: Master of Business Administration. Major: Business Administration.

Paul Kern Schwartz, Brooklyn Park

B.S. magna cum laude '86, Mankato State University. Degree: Master of Business Administration. Major: Business Administration.

Ann Lindsay Scott

B.A. cum laude '80, Carleton College. Degree: Master of Social Work. Major: Social Work.

Donn George Sharer, Jr., Eden Prairie

B.S. '83, Northwestern University. Degree: Master of Business Administration. Major: Business Administration.

Dawn Marie Sheppard, Minneapolis

B.S. '84, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Andrew Bruce Shillock, Eden Prairie

B.S. '83, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Charles James Siebsen, Minneapolis

B.S. '85, Mankato State University. Degree: Master of Business Administration. Major: Business Administration.

Bradley Leroy Simenson, Ham Lake

B.S. '74, Bemidji State University. Degree: Master of Business Administration. Major: Business Administration.

David Phillip Simpson, St. Paul

B.A. '76, Lewis and Clark College. Degree: Master of Business Administration. Major: Business Administration.

Bruce Wade Smith, Minneapolis

B.A. '86, Macalester College. Degree: Master of Business Administration. Major: Business Administration.

Kevin Peter Smith, Wayzata

B.S.B. '82, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Natina May Smith, Hamel

B.A. cum laude '91, University of Minnesota. Degree: Master of Architecture. Major: Architecture.

Ronald J. Smith, Minneapolis

B.A. '85, National College of Education. Degree: Master of Business Administration. Major: Business Administration.

Jonathan Jason Soh, Kailua, Hawaii

B.S. '87, University of Colorado. Degree: Master of Business Administration. Major: Business Administration.

Ricardo Duane Solomon, Cleveland, Ohio

B.A. '87, Cleveland State University. Degree: Master of Social Work. Major: Social Work.

Shabir M. Somani, Minneapolis

B.S. '77, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Laurel M. Sorlie, Fergus Falls

B.S.B.A. '61, M.S. '69, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

Robert Charles Soukop, Wayzata

B.A. '90, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Kraig Matthew Srdar

B.S.B. '79, University of Minnesota. Degree: Master of Business Taxation. Major: Business Taxation.

Jonathan Howard Stechmann, Minneapolis

B.S. '86, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

John P. Sten, Wayzata

B.A. '56, Carleton College. Degree: Master of Business Administration. Major: Business Administration.

Gregory James Stenmoe, Woodbury

B.A. '77, University of Minnesota; J.D. '81, William Mitchell College of Law. Degree: Master of Business Administration. Major: Business Administration.

Alan Matthew Stricker

B.A.E.M. '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Gary Ryan Stroick, Minneapolis

B.S. '77, M.S. '80, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Aurolyn Renee Stwyer, Warm Springs, Ore.

B.S. '90, Marylhurst College. Degree: Master of Business Administration. Major: Business Administration.

Thomas Suk, Flossmoor, Ill.

B.A. '88, Carleton College. Degree: Master of Business Administration. Major: Business Administration.

Patrick J. Sullivan, Melrose

B.A. '88, University of St. Thomas. Degree: Master of Business Administration. Major: Business Administration.

Nat Jorn Suwarnasarn, Woodbury

B.A. '78, University of Kansas; Ph.D. '83, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

Chi-Ping Sze, Hong Kong

B.Comp.S. with distinction '83, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Judith Ann Tande, Minnetonka

B.A. '72, Macalester College. Degree: Master of Social Work. Major: Social Work.

Francis S. Tautin, LaCrosse, Wis.

D.D.S. '67, University of Detroit. Degree: Master of Business Administration. Major: Business Administration.

Sandy Ann Thalmann, St. Louis Park

B.A. '80, University of Iowa. Degree: Master of Social Work. Major: Social Work.

- Scott Dean Thompson, Fillmore, N.D.**
B.S. '85, Valley City State University. Degree: Master of Business Administration. Major: Business Administration.
- Timothy Thomas Thompson, Edina**
B.S. '90, Pepperdine University. Degree: Master of Business Administration. Major: Business Administration.
- Todd Richard Thorsen, Brooklyn Park**
B.A. '81, Augsburg College. Degree: Master of Business Administration. Major: Business Administration.
- Brent Alan Thureen**
B.A. '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.
- Terry Lynne Tilsen**
B.S. '72, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.
- David Charles Timmer, Minneapolis**
B.S. '86, University of Illinois. Degree: Master of Business Administration. Major: Business Administration.
- Todd Edward Torvinen, Duluth**
B.A. '84, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.
- Penny Lane Turner, Minnetonka**
B.S.B.A. '90, University of Denver. Degree: Master of Business Administration. Major: Business Administration.
- Warren David Vala, Minneapolis**
B.S. with distinction '84, Iowa State University of Science and Technology. Degree: Master of Business Administration. Major: Business Administration.
- Steven G. Valerius, Osseo**
B.S. summa cum laude '86, Mankato State University. Degree: Master of Business Taxation. Major: Business Taxation.
- Nancy Lynn Van Gieson, Alder Creek, N.Y.**
B.S. '80, Cornell University. Degree: Master of Business Administration. Major: Business Administration.
- Paula Liberg Varin, Minneapolis**
B.S. '87, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.
- Betty Lou Vaughan-Myers, Brooklyn Center**
B.S. '90, Augsburg College. Degree: Master of Social Work. Major: Social Work.
- Frederick Thomas Ventura, Minneapolis**
B.A. '76, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.
- Atul Vidyarthi, Duluth**
B.Acc. '90, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.
- Timothy A. Vieburg, Minneapolis**
B.S. '90, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.
- Mary Ellen Vietor**
B.B.A. '87, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.
- Cristina Vogeler-Johnson, Caracas, Venezuela**
B.S. summa cum laude '83, B.A. magna cum laude '83, Boston University. Degree: Master of Business Administration. Major: Business Administration.
- Jacqueline Vuillier-Devillers**
D.E.C.F. '89, French Ministry of Education. Degree: Master of Business Administration. Major: Business Administration.
- Reed Martin Wahlberg, Crystal**
B.A. '76, St. Olaf College; B.S. '81, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.
- Lon Howard Waldinger, Maple Grove**
B.S. '77, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.
- Melanie Jane Warm-Ostroot, Eden Prairie**
B.A. '87, College of St. Catherine. Degree: Master of Social Work. Major: Social Work.
- Linda Diane Wee, Granite Falls**
B.A. cum laude '88, Southwest State University. Degree: Master of Social Work. Major: Social Work.
- Ann Marie Weingart, Paradise Valley, Ariz.**
B.S.B.A. '91, University of Denver. Degree: Master of Business Administration. Major: Business Administration.
- Robert Thomas Weisbecker, La Crosse, Wis.**
B.S. '88, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.
- Debra Taphorn Wessel, St. Louis Park**
B.S. '86, Moorhead State University. Degree: Master of Business Administration. Major: Business Administration.
- Richard Wells Westgard, St. Paul**
B.S.B. '88, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.
- Cynthia Crystal White, Minneapolis**
B.S. '86, Mankato State University. Degree: Master of Social Work. Major: Social Work.
- Robin Ruth Whitebird, Minneapolis**
B.S. '89, Augsburg College. Degree: Master of Social Work. Major: Social Work.
- Catherine Morgan Wicks, Rochester**
A.B. with distinction '88, Stanford University. Degree: Master of Business Administration. Major: Business Administration.
- Guy Richard Williams, St. Paul**
B.S.B. '91, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.
- David Michael Wise, Hudsonville, Mich.**
B.S.E.E. '85, Michigan Technological University. Degree: Master of Business Administration. Major: Business Administration.
- Elayne Berman Wolfenson**
B.F.A. summa cum laude '87, University of Minnesota. Degree: Master of Fine Arts. Major: Studio Arts.

David Ross Woodley, Edina

B.Ch.Eng. '83, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Mark A. Yelich, Brooklyn Center

B.S. '82, B.S. '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Claire Elisabeth Young, Edina

B.B.A. cum laude '91, Saint Mary's College. Degree: Master of Business Administration. Major: Business Administration.

Pamela Jackson Young, Edina

B.S.B. '81, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Kent James Zehrer, New Hope

B.M.E. '84, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Dwayne Richard Zona, Edina

B.S.B. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Spiros George Zorbalas

B.A. magna cum laude '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Professional Master's Degrees

University of Minnesota, Duluth

Candis Ann Bjerk, Grand Rapids

B.A. cum laude '91, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Jill Muir Fails, Duluth

B.S. '88, University of Wisconsin. Degree: Master of Social Work. Major: Social Work.

Joseph John Fobbe, Maple Lake

B.S. summa cum laude '91, St. Cloud State University. Degree: Master of Business Administration. Major: Business Administration.

Laurie E. Halverson, Superior, Wis.

B.S. '79, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Richard William Johnson, Duluth

B.A. '89, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Susan Jane Slagell, Gridley, Ill.

B.A. '87, Northwestern University. Degree: Master of Social Work. Major: Social Work.

Lawrence Paul Spilberg, Los Angeles, Calif.

B.A. '80, University of California. Degree: Master of Business Administration. Major: Business Administration.

Master of Science

Irshad Ali, Pakistan

B.Sc.Ag. '70 University of Peshawar; M.Sc.Ag. '83, N.W.F.P. Agricultural University. Degree: Master of Science. Major: Plant Pathology.

Lori Ann Allums, Plymouth

B.S.N. with honor '82, University of Tulsa. Degree: Master of Science. Major: Nursing.

David Lee Anderson, Minneapolis

B.S. '83, North Dakota State University. Degree: Master of Science. Major: Management of Technology.

Jian-Huei Aw, Singapore

B.S. cum laude '87, California State University. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Colleen Marie Baggot, Madison, Wis.

B.S. with distinction '86, University of Wisconsin. Degree: Master of Science. Major: Wildlife Conservation.

Godfrey Bones Bahigwa

B.Sc.Ag. '89, Makerere University. Degree: Master of Science. Major: Agricultural and Applied Economics.

Stephan Michael Becker, Plainview

B.Ag.E. '90, University of Minnesota. Degree: Master of Science in Agricultural Engineering. Major: Agricultural Engineering.

Troy Allan Becker, Apple Valley

B.S. '90, University of Minnesota. Degree: Master of Science. Major: Genetics.

- Daniel Carl Bejune, Worcester, Mass.**
B.S. '90, Worcester Polytechnic Institute. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.
- Janet Lynn Bellinger, Hudson, Wis.**
B.Comp.Sc. '79, University of Minnesota. Degree: Master of Science. Major: Management of Technology.
- Debra Lynn Bernmel**
B.S. '79, Mankato State University. Degree: Master of Science. Major: Nursing.
- Denise Kay Hellickson Bernard, Mt. Prospect, Ill.**
B.S. '87, Iowa State University of Science and Technology. Degree: Master of Science. Major: Nutrition.
- Janet Kay Ander Blacik, Roseville**
B.A. '70, B.C.E. '81, University of Minnesota. Degree: Master of Science. Major: Management of Technology.
- Donald Frank Blake**
B.S. '90, University of Minnesota. Degree: Master of Science. Major: Forestry.
- Terri Alice Born, Jordan**
B.S. with distinction '88, University of Minnesota. Degree: Master of Science. Major: Food Science.
- Reid K. Bornhoft, Crookston**
B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.
- Tambra Lynn Breyer**
B.S. '86, University of Wisconsin. Degree: Master of Science. Major: Management of Technology.
- Joseph Richard Bumblis, Fairport Harbor, Ohio**
B.S.E.E. '78, Ohio University. Degree: Master of Science. Major: Management of Technology.
- James Sheldon Busse, Randolph, Wis.**
B.S. '89, University of Wisconsin. Degree: Master of Science. Major: Horticulture.
- Lisa Jo Cawiezell, Muscatine, Iowa**
B.S.N. '84, Northeast Missouri State University. Degree: Master of Science. Major: Nursing.
- Tiparpa Chitasombat, Bangkok, Thailand.**
Diploma in Nursing '79, Phra-Pok-Kloa College of Nursing. Degree: Master of Science. Major: Nursing.
- Lan-Ping Chu**
B.S.Med.Tech '87, National Taiwan University. Degree: Master of Science. Major: Clinical Laboratory Science.
- Leticia Elena Chuy, Guatemala**
Licenciatura '90, Universidad del Valle de Guatemala. Degree: Master of Science. Major: Food Science.
- Wendy E. Clark**
B.A. magna cum laude '85, Knox College. Degree: Master of Science. Major: Ecology.
- Brendan Mead Conner, Chicago, Ill.**
B.S. '85, University of Illinois. Degree: Master of Science. Major: Computer and Information Sciences.
- Thomas Edward Daniel, Rockville, Md.**
B.S. '89, Virginia Polytechnic Institute & State University. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.
- Richard Andrew Dargis, Roseville**
A.B. '81, University of Michigan. Degree: Master of Science. Major: Technical Communication.
- Douglas Wayne Davis, Ponca City, Okla.**
B.S. '89, Oklahoma State University. Degree: Master of Science. Major: Plant Breeding.
- Joseph Edward Dohar, Youngstown, Ohio**
B.A. '83, Ohio State University; M.D. '83, Ohio State University. Degree: Master of Science in Otolaryngology. Major: Otolaryngology.
- Mehmet Remzi Dokmeci**
B.E.E. with distinction '89, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.
- Thomas J. Dunlap**
B.S. '78, Regis College; M.S.E.E. '80, University of Notre Dame. Degree: Master of Science. Major: Management of Technology.
- Cathy Ann Dybiec, St. Paul**
B.S. '90, University of Minnesota. Degree: Master of Science. Major: Forestry.
- Jeffrey Lynn Emmel**
B.S. '78, South Dakota State University. Degree: Master of Science. Major: Forestry.
- James Kenneth Engstrom**
B.S. '82, University of Minnesota. Degree: Master of Science. Major: Forestry.
- Anthony Edward Farrell, Owosso, Mich.**
B.S.E.E. with high honor '81, Michigan Technical University. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.
- Elizabeth Leonila Fasola**
M.D. '80, Universidad de Chile. Degree: Master of Science. Major: Clinical Laboratory Science.
- Mary Jean Fenske, St. Paul**
B.S. with distinction and high honors '83, University of Wisconsin. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.
- Daniel L. Good, Rochester**
B.S. '82, North Dakota State University. Degree: Master of Science. Major: Management of Technology.
- Geoffrey M. Green, Lakewood, N.Y.**
B.S. with distinction '90, Cornell University. Degree: Master of Science. Major: Agricultural and Applied Economics.
- Sheryl Lu Gregg, Richfield**
B.S. '80, University of Minnesota, M.S. '85, University of California. Degree: Master of Science. Major: Management of Technology.

Jeffrey Carl Groat, Edina

B.S. '80, University of Illinois. Degree: Master of Science. Major: Management of Technology.

Timothy Matthew Grundhoffer, Rapid City, S.D.

B.C.E. '89, University of Minnesota. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Deborah Fay Hanson, Minneapolis

B.S. '85, University of Minnesota. Degree: Master of Science. Major: Clinical Laboratory Science.

Bruce Steven Hartmann

B.E.E. '77, University of Minnesota. Degree: Master of Science. Major: Management of Technology.

Judith Ann Hayduesko, Perkasio, Pa.

B.S. '82, Northland College. Degree: Master of Science. Major: Civil Engineering.

Michael James Heideman, St. Paul

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Susan C. Heitzman, Des Moines, Iowa

B.S.N. '81, University of Iowa. Degree: Master of Science. Major: Nursing.

Andrea Michelle Herr, Minnesota

B.A. '87, B.S. summa cum laude '87, North Carolina State University. Degree: Master of Science. Major: Conservation Biology.

Roxann Marie Herwig

B.S. '76, Winona State University. Degree: Master of Science. Major: Civil Engineering.

Audrey Marie Himes, Bloomington

B.S.N. '87, University of Phoenix. Degree: Master of Science. Major: Nursing.

Daniel Dewey Holste, Eagan

B.S. '72, Iowa State University of Science and Technology. Degree: Master of Science. Major: Management of Technology.

John Michael Howard, White Bear Lake

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Michael Terrence Hoyne, Fridley

B.M.E. with distinction '82, University of Minnesota. Degree: Master of Science. Major: Management of Technology.

Li-Chung Huang, Taipei, Taiwan

B.S. Ag. '87, National Taiwan University. Degree: Master of Science. Major: Microbial Engineering.

Paul Thomas Ihn

B.S. '83, Marquette University. Degree: Master of Science. Major: Management of Technology.

Kerry Christopher Imming, Rochester

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Steven Arnie Johnson, Thief River Falls

B.M.E. '75, University of Minnesota. Degree: Master of Science. Major: Management of Technology.

Paul Edward Jorgensen, Minneapolis

B.S. '89, St. Cloud State University. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Mary Siobhan Joyce, Forest Lake

B.S. '85, University of Minnesota. Degree: Master of Science. Major: Horticulture.

Patrick J. Keane, Rochester

B.A. '80, Saint Mary's College. Degree: Master of Science. Major: Management of Technology.

James Robert Kochsiek

B.E.S. '76, St. Cloud State College; B.C.E. '83, University of Minnesota. Degree: Master of Science. Major: Management of Technology.

Deborah Anne Kozak, Gillett, Wis.

B.S. '89, Liberty University. Degree: Master of Science. Major: Physiology.

Daniel George Krueger, Jr., Rhinelander, Wis.

B.S. with highest distinction '88, University of Wisconsin. Degree: Master of Science. Major: Horticulture.

Kyran Edward Kunkel, Harrisburg, S.D.

B.S. Bio.Sci. '87, South Dakota State University. Degree: Master of Science. Major: Wildlife.

Janice Louise Larson, Hopkins

B.S. with distinction '89, University of Minnesota. Degree: Master of Science. Major: Nutrition.

Steven James Larson, Grand Forks, N.D.

B.S. '82, University of Wisconsin. Degree: Master of Science. Major: Environmental Health.

Choungseop Lee, Korea

B.A. '85, D.V.M. '88, Kyungpook National University. Degree: Master of Science. Major: Theriogenology.

Frederic Evan Levy, Chicago, Ill.

B.S. cum laude '83, University of Illinois; M.D. '87, Rush University. Degree: Master of Science in Otolaryngology. Major: Otolaryngology.

Richard Charles Lind II, Glencoe

B.Phys '90, B.S. Astrop. '90, University of Minnesota. Degree: Master of Science in Aerospace Engineering. Major: Aerospace Engineering.

Leonore Louise MacIraith-Janda, Mason City, Iowa

B.S.N. '82, University of Dubuque. Degree: Master of Science. Major: Nursing.

Anne Marie Madsen, New Brighton

B.A. '69, University of Northern Iowa. Degree: Master of Science. Major: Anatomy.

Robert Alan Mallett, Rochester

B.S.E.E. '83, South Dakota State University; M.S. '85, Texas A & M University. Degree: Master of Science. Major: Management of Technology.

- Kerry John Marusich, Maplewood**
B.M.E. '88, University of Minnesota. Degree: Master of Science. Major: Management of Technology.
- Robert John McCarthy, Boston, Mass.**
B.S. '79, Boston College; D.V.M. '83, Tufts University. Degree: Master of Science. Major: Veterinary Surgery, Radiology, and Anesthesiology.
- Michael Shane McGill**
B.S. '80, Milwaukee School of Engineering. Degree: Master of Science. Major: Management of Technology.
- Andrew C. McNeil**
B.S.M.E. with honors '83, Michigan Technological University. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.
- Richard Jondall Mehus, Richfield**
B.S.M.E. '71, University of North Dakota. Degree: Master of Science. Major: Management of Technology.
- Michael James Melander, St. Paul**
B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.
- John Gregory Messier**
B.S. '84, Michigan Technological University. Degree: Master of Science. Major: Management of Technology.
- Steven Edward Mossey, Crystal**
B.A. '82, University of Chicago. Degree: Master of Science. Major: Computer and Information Sciences.
- A Mbassa Ndioro**
Ing. Agronome '86, Ecole Nationale Supérieure Agronomique. Degree: Master of Science. Major: Plant Breeding.
- Mark David Nelson, Blue Earth**
B.A. cum laude '82, Winona State University. Degree: Master of Science. Major: Wildlife Conservation.
- Pamela Denise Newman, Edina**
B.A. '80, Fisk University; B.E. '82, Vanderbilt University. Degree: Master of Science. Major: Management of Technology.
- Tuyet Thi-Ngoc Nguyen**
B.S. '83, Brown University. Degree: Master of Science. Major: Management of Technology.
- Saleem E. Noormohamed**
B.S. '84, B.S.Pharm. '87, University of Minnesota. Degree: Master of Science. Major: Hospital Pharmacy.
- Jerome Eugene Norlander, North St. Paul**
B.A. '88, University of Minnesota. Degree: Master of Science. Major: Technical Communication.
- Victor Nunez, Palmira, Valle, Colombia**
Ing. Aron. '84, Universidad Nacional De Colombia. Degree: Master of Science. Major: Plant Breeding.
- Pamela Jean Nutting, LaPorte, Tex.**
B.S. '90, Texas A & M University. Degree: Master of Science. Major: Genetics.
- Derek H. Ogle, Shoreview**
B.S. magna cum laude '89, Northland College. Degree: Master of Science. Major: Fisheries.
- Thomas Shaun Olinger, Brooklyn Park**
B.Ch.E. '90, University of Minnesota. Degree: Master of Science. Major: Management of Technology.
- Steven John Olson, Deerfield, Ill.**
B.S. '84, University of Illinois. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.
- Donna Jean Otto-Schoenaure, Maple Grove**
B.A. '84, University of Minnesota. Degree: Master of Science. Major: Food Science.
- Tracy Xin Ouyang, People's Republic of China**
B.S. '89, Peking University. Degree: Master of Science. Major: Biochemistry.
- Mitchell Lee Page, Green Bay, Wis.**
D.D.S. '83, University of Minnesota. Degree: Master of Science. Major: Dentistry.
- Lane Mikel Paolucci**
B.S. '80, University of Wisconsin. Degree: Master of Science. Major: Management of Technology.
- Mary E. Pauza, Cottage Grove**
B.S. '81, Nebraska Wesleyan University. Degree: Master of Science. Major: Clinical Laboratory Science.
- Brenda Jean Peterson, Apple Valley**
B.S. '79, Mankato State University. Degree: Master of Science. Major: Nursing.
- Steven Earl Poss, Shoreview**
B.A. '84, St. John's University; B.Ch.E. '86, University of Minnesota. Degree: Master of Science. Major: Chemistry.
- Thomas Richard Prentice, St. Paul**
B.S. cum laude '85, University of Wisconsin. Degree: Master of Science. Major: Management of Technology.
- John James Quinn, Downers Grove, Ill.**
B.S. '87, Purdue University. Degree: Master of Science. Major: Geology.
- Frank Joseph Raab II, Minneapolis**
D.D.S. '88, University of Texas. Degree: Master of Science. Major: Dentistry.
- James Garrett Rickard, Woodbury**
B.S. '87, Iowa State University of Science and Technology. Degree: Master of Science in Industrial Engineering. Major: Industrial Engineering.
- James Andrew Ritz, Vadnais Heights**
B.A. cum laude '86, College of St. Thomas. Degree: Master of Science. Major: Biomedical Engineering.
- Clifton E. Roberts, Battle Lake**
B.S. '80, Winona State University. Degree: Master of Science. Major: Nursing.
- Dave Bernard Roland, Kansas City, Kan.**
B.S.E.E. '81, University of Kansas. Degree: Master of Science. Major: Management of Technology.

Kent Allen Schnetzler, Springfield, Mo.

B.S. cum laude '86, Southwest Missouri State University.
Degree: Master of Science. Major: Food Science.

Susan Bold Schumacher

B.A. '81, Gustavus Adolphus College. Degree: Master of Science. Major: Nursing.

Kelly Kay Seyid, St. Louis Park

B.A. '85, The American University. Degree: Master of Science. Major: Agricultural and Applied Economics.

William A. Shaver, Platteville, Wis.

B.S. summa cum laude '84, University of Wisconsin.
Degree: Master of Science in Electrical Engineering.
Major: Electrical Engineering.

Paul J. Shekoski

B.S.E.E. '85, Milwaukee School of Engineering. Degree: Master of Science. Major: Management of Technology.

Donna Marie Showers, Deerwood

B.S. cum laude '83, Bemidji State University. Degree: Master of Science. Major: Clinical Laboratory Science.

Alysia Bemus Spear

B.S. '88, University of Iowa. Degree: Master of Science. Major: Genetics.

Dick Sserunkuuma

B.Sc.Ag. '89, Makerere University. Degree: Master of Science. Major: Agricultural and Applied Economics.

Kari Stange, Oslo, Norway

Cand. Mag. '87, University of Trondheim. Degree: Master of Science. Major: Environmental Health.

Cindy Marie Steele, Eagan

B.S. cum laude '81, Mankato State University. Degree: Master of Science. Major: Nursing.

Leo Thomas Steffl

B.S. '84, North Dakota State University. Degree: Master of Science. Major: Management of Technology.

Carole Lundemo Steinke, Bloomington

B.S. cum laude '72, Wisconsin State University. Degree: Master of Science. Major: Nursing.

Connie Lee Swenson, Fergus Falls

B.S.N. '87, Moorhead State University. Degree: Master of Science. Major: Nursing.

Lian Kheng Tan, Malaysia

B.S. '91, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

James Stuart Thorson

B.Ch.E. with distinction '75, University of Minnesota. Degree: Master of Science. Major: Management of Technology.

Barbara Jean Timm-Brock, Shoreview

B.Ch.E. '82, University of Minnesota. Degree: Master of Science. Major: Management of Technology.

Robert Glenn Tipping, St. Paul

B.A. '81, Carleton College. Degree: Master of Science. Major: Geology.

Jerry Lee Torrison, Eagan

B.A. '80, Concordia College; D.V.M. '86, University of Minnesota. Degree: Master of Science. Major: Veterinary Medicine.

Barbara Renee Van Til, Griffith, Ind.

B.S. '88, Purdue University. Degree: Master of Science. Major: Food Science.

Lee James Vetter

B.S. '84, University of Notre Dame. Degree: Master of Science. Major: Management of Technology.

Dale James Visser, Olivia

B.S. '89, Mankato State University. Degree: Master of Science. Major: Mathematics.

Jonathan Collins Vlaming, Edina

B.A. '89, University of Minnesota. Degree: Master of Science. Major: Forestry.

Duo Wang, People's Republic of China

B.S. '86, University of Science and Technology of China. Degree: Master of Science. Major: Genetics.

Martin Walter Wangensteen, St. Paul

B.A. '84, Macalester College. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Timothy Fred Wawrzyniec, Albuquerque, N.M.

B.S. '90, University of New Mexico. Degree: Master of Science. Major: Geology.

Thomas Anderson White, Asheville, N.C.

B.S. '83, Humboldt State University. Degree: Master of Science. Major: Forestry.

Gregory Peter Widin, West Lakeland Township

B.A. summa cum laude '74, Kenyon College. Degree: Master of Science. Major: Management of Technology.

James M. Wiest, Stillwater

B.S. '69, North Dakota State University. Degree: Master of Science. Major: Management of Technology.

Ellen Gwynne Witkowsky, Minneapolis

B.S. '82, University of Minnesota. Degree: Master of Science. Major: Nursing.

Chanseng Wong, Singapore

B.S.M.E. with honors '90, University of Texas. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Lee S. Wyland, Wishek, N.D.

B.S. '87, University of Wisconsin. Degree: Master of Science. Major: Management of Technology.

Lambros Zelos, Athens, Greece

D.D.S. '86, National and Capodistrian University of Athens. Degree: Master of Science. Major: Dentistry.

Master of Science

University of Minnesota, Duluth

Gary Alan Anderson, Turtle Lake, Wis.

B.S. '87, University of Wisconsin. Degree: Master of Science. Major: Computer Science.

Joseph S. Clevenger, Wausau, Wis.

B.S. '90, University of Minnesota. Degree: Master of Science. Major: Applied and Computational Mathematics.

Zhifeng Deng, Wuhan, Hubei, People's Republic of China

B.S. '84, Wuhan University; M.S. '87, Institute of Oceanology (CASS). Degree: Master of Science. Major: Chemistry.

Mark Vincent Hanson, Yankton, S.D.

B.S. '89, University of South Dakota. Degree: Master of Science. Major: Chemistry.

Michelle M. Kuns, Owatonna

B.S. '90, University of Minnesota. Degree: Master of Science. Major: Biology.

Steven Tate Nicholas, Lake Nebagamon, Wis.

B.S. '91, University of Minnesota. Degree: Master of Science. Major: Physics.

Shiaoling Peng, Guangzhou, People's Republic of China

B.S. '83, South China Institute of Technology. Degree: Master of Science. Major: Applied and Computational Mathematics.

Luanne Melody Richards, Thunder Bay, Ontario, Canada

B.S. '89, Lakehead University. Degree: Master of Science. Major: Communication Disorders.

Roland Eric Sigurdson, Cambridge

B.S. '89, University of Minnesota. Degree: Master of Science. Major: Biology.

Liqliang Tao, Nanjing, People's Republic of China

B.S. '82, Nanjing Normal University. Degree: Master of Science. Major: Physics.

Li Wei, Beijing, People's Republic of China

B.Eng. '87, Beijing Polytechnic University. Degree: Master of Science. Major: Computer Science.

Joseph J. Wivoda, Hibbing

B.S. '90, University of Minnesota. Degree: Master of Science. Major: Physics.

Xun Zhao, Gungzhou, People's Republic of China

B.S. '84, Jinan University. Degree: Master of Science. Major: Applied and Computational Mathematics.

Master of Arts

Mary Elizabeth Ailes, Spokane, Wash.

B.A. cum laude '89, Pacific Lutheran University. Degree: Master of Arts. Major: History.

Celeste Ann Alison, Barrington, Ill.

B.A. '86, St. Olaf College. Degree: Master of Arts. Major: Industrial Relations.

Sarah Grace Allen

B.A. '81, University of Wisconsin. Degree: Master of Arts. Major: Sociology.

Blane Ausen Anderson, Burnsville

B.A. '78, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Dayna Lynn Anderson

B.A. summa cum laude '87, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Salah Ayari

Maitrise '88, Universite de Tunis. Degree: Master of Arts. Major: English as a Second Language.

Mark David Baden, St. Paul

B.A. with honor '74, Hamline University. Degree: Master of Arts. Major: Art Education.

Lynn Marie Bergeron, Baudette

B.A. '89, University of Minnesota. Degree: Master of Arts. Major: Educational Psychology.

Joan Elizabeth Burke, Edina

B.A. '90, Marquette University. Degree: Master of Arts. Major: Industrial Relations.

Ai-Lin Chiu

B.A. '86, National Cheng Kung University. Degree: Master of Arts. Major: English.

Cora Ann Clark, Chicago, Ill.

B.S. '87, Tuskegee Institute. Degree: Master of Arts. Major: Industrial Relations.

Kristy D. Clark, Ellensburg, Wash.

B.A. cum laude '89, Central Washington University. Degree: Master of Arts. Major: French.

Annette M. Cook

B.A. summa cum laude '86, Northern State College. Degree: Master of Arts. Major: Art Education.

Susan Marie Dean, St. Paul

B.S.B. '82, University of Minnesota. Degree: Master of Arts. Major: English as a Second Language.

- Felix Ruben Delgado, Callao, Lima, Peru**
Bachilleres '78, Universidad Nacional Mayor de San Marcos; M.A. '79, University of Essex. Degree: Master of Arts. Major: Education.
- Linda L. DeMaris, Roseville**
B.S. magna cum laude '84, Mankato State University. Degree: Master of Arts. Major: Industrial Relations.
- Joyce Cecile Denham, St. Paul**
B.S. with distinction '78, University of Minnesota. Degree: Master of Arts. Major: English.
- Eleni Dolaptsi**
Diploma '88, Aristotelian University of Thessaloniki. Degree: Master of Arts. Major: German.
- Valerie Ann Downing**
B.A. '88, University of Minnesota. Degree: Master of Arts. Major: French.
- Julie Ann Edin**
B.S. '80, University of Minnesota. Degree: Master of Arts. Major: Theatre Arts.
- Cynthia Evelyn Epland, New Brighton**
B.A.S. '86, University of Minnesota. Degree: Master of Arts. Major: Educational Psychology.
- Kevin M. Flynn, Wisconsin**
B.B.A. '89, University of Wisconsin. Degree: Master of Arts. Major: Business Administration.
- Katrin Regina Frimannsdottir, Akureyri, Iceland**
B.Ed. '83, Iceland Institute of Education. Degree: Master of Arts. Major: Educational Administration.
- Ching-Hui Samantha Fu, Taiwan**
B.A. '85, National Taiwan Normal University. Degree: Master of Arts. Major: Music Education.
- Steen Kristian Gilbertson, Minneapolis**
B.A. '87, Concordia College. Degree: Master of Arts. Major: German.
- Pamela Ann Gleason, Minneapolis**
B.S.Ed. '82, University of Wisconsin. Degree: Master of Arts. Major: Kinesiology.
- Susan Janan Hagstrom, Minneapolis**
B.A. cum laude '83, St. Olaf College. Degree: Master of Arts. Major: Educational Psychology.
- Fredrik James Hausmann, Moorhead**
B.A. cum laude '88, University of Minnesota. Degree: Master of Arts. Major: English.
- Catherine S. Henderson, Eden Prairie**
B.A. '79, Gustavus Adolphus College. Degree: Master of Arts. Major: Marketing Education.
- Edyth Allene Hill**
B.A. '85, Bennington College. Degree: Master of Arts. Major: Music.
- Zuway-R Hong**
B.A. '76, National Chung-Hsing University. Degree: Master of Arts. Major: Educational Psychology.
- Craig Randall Hutchinson, Bloomington**
B.A. '90, Gustavus Adolphus College. Degree: Master of Arts. Major: Industrial Relations.
- Noriko Iikura, Stanford, Calif.**
B.A. '69, Tsuda College. Degree: Master of Arts. Major: Japanese.
- Patricia Ann Iverson, Eden Prairie**
B.G.S. '81, University of Minnesota. Degree: Master of Arts. Major: Industrial Relations.
- Robin Arthur Johnson, Minneapolis**
B.A. '74, B.S. '78, University of Minnesota. Degree: Master of Arts. Major: Industrial Relations.
- Jennifer Ann Johnston, Minneapolis**
B.A. '89, University of Minnesota. Degree: Master of Arts. Major: Industrial Relations.
- Mary Kathleen Johnston, Detroit, Mich.**
B.A. '87, University of Michigan. Degree: Master of Arts. Major: Child Psychology.
- Susan Stowe Johnston, Shawnee, Kan.**
B.A. with highest distinction '88, University of Kansas. Degree: Master of Arts. Major: Communication Disorders.
- Sharyl Jean Kaase**
B.S. '82, Mankato State University. Degree: Master of Arts. Major: Recreation, Park, and Leisure Studies.
- Doris Kay Karls, Forest Lake**
B.A. '71, College of St. Benedict. Degree: Master of Arts. Major: Home Economics Education.
- Satsuki Kawano, Japan**
B.A. '89, Keio University. Degree: Master of Arts. Major: Anthropology.
- John Anthony Kayfes, Jr., Hibbing**
B.A. magna cum laude '87, University of Minnesota. Degree: Master of Arts. Major: History.
- Kimberly Jo Keefe, LaFayette, N.Y.**
B.S. '90, Le Moyne College. Degree: Master of Arts. Major: Industrial Relations.
- Karen Patricia Kingsley**
B.A. '85, Duke University. Degree: Master of Arts. Major: Public Affairs.
- Gudbjorg Hildur Kolbeins, Kopavogur, Iceland**
B.S. magna cum laude '89, Moorhead State University. Degree: Master of Arts. Major: Mass Communication.
- Julie Rae Lindstrom, White Bear Lake**
B.S. '89, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.
- Cheryl Beth Lochner, Janesville**
B.A. summa cum laude '86, Concordia College. Degree: Master of Arts. Major: Educational Psychology.
- Kimberly Jean Lynch, Coon Rapids**
B.A. '84, Hamline University. Degree: Master of Arts. Major: English.

Luke McGlynn, Minneapolis

B.A. '85, University of Wisconsin. Degree: Master of Arts. Major: Industrial Relations.

Katherine L. Megarry, Coon Rapids

B.A. summa cum laude '89, Hamline University. Degree: Master of Arts. Major: Industrial Relations.

Tamara Kay Melvin, Casper, Wyo.

B.S. with honor '88, University of Wyoming. Degree: Master of Arts. Major: Communication Disorders.

Scott Aaron Miller, Bloomington

B.M. '84, University of Minnesota. Degree: Master of Arts. Major: Music.

Rae Zandlo Montgomery, St. Paul

B.S. '80, University of Minnesota. Degree: Master of Arts. Major: Education.

Cheryl Lynn Nelson, White Bear Lake

B.A. '86, College of St. Catherine. Degree: Master of Arts. Major: Kinesiology.

Susanne Nevin

B.A. '80, University of Minnesota. Degree: Master of Arts. Major: English.

Alonzo Morris Newby

B.A. '84, Elizabeth City State University. Degree: Master of Arts. Major: Public Affairs.

Karen D. Nielsen, Baldwin, Wis.

B.A. '81, St. Olaf College. Degree: Master of Arts. Major: East Asian Studies.

Shirley Makhosazana Nkosi, Swaziland

B.A. '79, University of Nigeria. Degree: Master of Arts. Major: Mass Communication.

Henrik William Nordstrom, Minnetonka

B.A. '88, Gustavus Adolphus College. Degree: Master of Arts. Major: History.

JoEllen Olson, Waukesha, Wis.

B.A. magna cum laude '90, University of Wisconsin. Degree: Master of Arts. Major: Education.

Jong Pal Park, Seoul, Korea

B.Econ. '84, Chung-Ang University. Degree: Master of Arts. Major: Business Administration.

Karen Lee Pastell, Minneapolis

B.S. '85, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Laura E. Pedrick

B.S. '82, University of Wisconsin. Degree: Master of Arts. Major: Mass Communication.

Kurt McNeel Piemonte, Salem, Mass.

B.A. cum laude '89, University of Massachusetts. Degree: Master of Arts. Major: Geography.

Daniel Ford Pinkerton

B.A. '75, University of Nevada. Degree: Master of Arts. Major: History.

Laura Anne Puchtell

B.A. '86, University of Minnesota. Degree: Master of Arts. Major: Sociology.

Randall Helgoe Quale, St. Paul

B.A. '83, University of Minnesota. Degree: Master of Arts. Major: Recreation, Park, and Leisure Studies.

Edward R. Raupp, Independence

B.S. '58, Carnegie Institute of Technology; M.B.A. '66, University of Pennsylvania. Degree: Master of Arts. Major: English.

Tania Ripoll, Skien, Norway

B.A. '87, University of Minnesota. Degree: Master of Arts. Major: Mass Communication.

Renee D. Robinson

B.A. summa cum laude '90, Texas Christian University. Degree: Master of Arts. Major: Political Science.

Frank A. Romero, Chicago, Ill.

B.A. '87, Northeastern Illinois University. Degree: Master of Arts. Major: Public Affairs.

William Anthony Rozaitis, Minneapolis

B.A. '86, Gustavus Adolphus College. Degree: Master of Arts. Major: English.

Peter C. Saari

B.A. '90, University of Minnesota. Degree: Master of Arts. Major: Education.

Karen Louise Savage, Minneapolis

B.S. '82, Moorhead State University. Degree: Master of Arts. Major: Communication Disorders.

Diane Iva Schon, Minneapolis

A.B. '86, Columbia University. Degree: Master of Arts. Major: Elementary Education.

Cooksey Jean Smith

B.S. '78, University of Minnesota. Degree: Master of Arts. Major: Elementary Education.

Deborah Beth Smith, Glenn Dale, Md.

B.S. '88, Cornell University. Degree: Master of Arts. Major: Family Social Science.

Amy Michelle Specktor, Minneapolis

B.A. '89, Boston University. Degree: Master of Arts. Major: Industrial Relations.

James G. Stevens

B.M. '78, Northern Illinois University. Degree: Master of Arts. Major: Music.

Scott Andrew Storla, Maplewood

B.S. '68, University of Minnesota. Degree: Master of Arts. Major: Mathematics Education.

Kevin Arthur Stueven, Lake Benton

B.S. '82, B.S. '83, Mankato State University. Degree: Master of Arts. Major: Ancient Studies.

Lucia Arora Stueven, Lake Benton

Diploma '80, "Babes-Bolyai" University of Cluj-apoca. Degree: Master of Arts. Major: French.

Masami Suga, Osaka

B.A. '90, Macalester College. Degree: Master of Arts. Major: Design, Housing, and Apparel.

Michelle Marie Swift, Minneapolis

B.A. '86, Augsburg College. Degree: Master of Arts.
Major: Industrial Relations.

Zahra Tafarroodi

B.A. '88, University of Minnesota. Degree: Master of Arts.
Major: Home Economics Education.

Glenn Carl Thomas, Minneapolis

B.A. '84, Trinity University. Degree: Master of Arts.
Major: History.

Sandra Marie Thull, Lucan

B.A. cum laude '88, College of St. Benedict. Degree:
Master of Arts. Major: Educational Psychology.

Bruce Alan Vandal, Apple Valley

B.A. '90, B.A. '90, University of Minnesota. Degree:
Master of Arts. Major: Education.

Kathleen Anne Voss

B.A. '87, Macalester College. Degree: Master of Arts.
Major: Educational Psychology.

Peggy Jane Warner, Circle Pines

B.S.N. '80, University of Wisconsin. Degree: Master of Arts.
Major: Industrial Relations.

Gloria Denise Warren, Detroit, Mich.

B.S. '78, Michigan State University. Degree: Master of Arts.
Major: Home Economics Education.

Judith Lifson Werthausser, St. Paul

B.A. '87, University of Minnesota. Degree: Master of Arts.
Major: Business Education.

Thomas Anderson White, Asheville, N.C.

B.S. '83, Humboldt State University. Degree: Master of Arts.
Major: Anthropology.

Jennifer Sue Wilson

B.A. cum laude '86, University of Colorado. Degree:
Master of Arts. Major: English.

Keith Michael Yeager, Lacey, Wash.

B.A. '81, University of Puget Sound. Degree: Master of Arts.
Major: English.

Jeffrey Allan Young, Brooklyn Park

B.S. '84, Mankato State University. Degree: Master of Arts.
Major: Industrial Relations.

Master of Arts

University of Minnesota, Duluth

Cynthia S. Benoit, Duluth

B.A.S. magna cum laude '90, University of Minnesota.
Degree: Master of Arts. Major: Communication Disorders.

Robert Patrick Fails, Duluth

B.S. '90, University of Minnesota. Degree: Master of Arts.
Major: Educational Psychology.

Teresa Ann Boyle Falsani, Portland, Me.

A.B. '71, Colby College. Degree: Master of Arts. Major:
English.

Collin Blake Frazier

B.A. '89, University of Minnesota. Degree: Master of Arts.
Major: Educational Psychology.

Paola Maria Marcolin, Thunder Bay, Ontario, Canada

B.S. '90, Lakehead University. Degree: Master of Arts.
Major: Communication Disorders.

Lana G. Michelizzi, Superior, Wis.

B.A. '87, University of North Dakota. Degree: Master of Arts.
Major: Art.

Mary Lynn Morse

B.A. '71, St. Olaf College. Degree: Master of Arts.
Major: English.

John C. Pearson, Cottage Grove

B.A. '90, St. John's University. Degree: Master of Arts.
Major: Educational Administration.

Luanne Melody Richards, Thunder Bay, Ontario, Canada

B.S. '89, Lakehead University. Degree: Master of Arts.
Major: Communication Disorders.

Karin J. Robbins, Duluth

B.S. '72, University of Minnesota. Degree: Master of Arts.
Major: Educational Psychology.

Peggy Ann Stone, Two Harbors

B.A.S. cum laude '90, University of Minnesota. Degree:
Master of Arts. Major: Communication Disorders.

Nancy Muriel VanderVeen, Wingham, Ontario, Canada

B.S. '89, Liberty University. Degree: Master of Arts.
Major: Communication Disorders.

Judith Ann Wunch, Hermantown

B.A.S. '90, University of Minnesota. Degree: Master of Arts.
Major: Communication Disorders.

Specialist Certificate in Education

Wayne Arthur Olson, Waseca

B.S. '75, Moorhead State College. Degree: Certificate of Specialist in Education. Major: Educational Administration. Field: Secondary School Administration.

Kathleen Anne Voss

B.A. '87, Macalester College. Degree: Certificate of Specialist in Education. Major: Educational Psychology. Field: School Psychological Services.

Doctor of Education

Duke Hamilton, Chicago, Ill.

B.A. '73, Dominican College; M.A. '89 University of Minnesota. Degree: Doctor of Education. Major: Vocational Education.

LaMont Dale Meinen, Menomonie, Wis.

B.S. '68, M.S. '88, Stout State University. Degree: Doctor of Education. Major: Vocational Education.

Luz Maria Serrano, Shoreview

B.A. summa cum laude '76, Methodist College; Cert.Spec.Ed. '82, University of Minnesota. Degree: Doctor of Education. Major: Educational Administration.

Doctor of Philosophy

Keumog Lim Ahn, Korea

B.S. magna cum laude '83, Sogang University. Degree: Doctor of Philosophy. Major: Computer and Information Sciences.

Seokmin Ahn, Seoul, Korea

B.E. '79, Hanyang University; M.S.M.E. '86, University of Minnesota. Degree: Doctor of Philosophy. Major: Mechanical Engineering.

Soon Ang, Singapore

B.Acc. '85, National University of Singapore. Degree: Doctor of Philosophy. Major: Business Administration.

Pablo Emilio Arellano, Mexico

D.V.M. '85, Universidad Nacional Autonoma de Mexico; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Veterinary Medicine.

Lance Bischoff Augustin, Chicago, Ill.

B.S. '81, Northern Illinois University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Biochemistry.

Clarice Ann Auluck-Wilson, St. Paul

A.B. with honors '77, Grinnell College; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy. Major: South Asian Languages.

Heidar Ghajar Azodanloo, Tehran, Iran

B.A. '85, University of Minnesota. Degree: Doctor of Philosophy. Major: Comparative Studies in Discourse and Society.

Michael Alan Babcock, Lynchburg, Va.

B.A. '82, M.F.A. '83, University of North Carolina. Degree: Doctor of Philosophy. Major: Germanic Philology.

Hakima Bahri, Morocco

Diplome d'Agronomie Generale '85, Diplome d'Ingenieur Agronome '87, Institut Agronomique et Veterinaire, Hasan II. Degree: Doctor of Philosophy. Major: Plant Breeding.

Carol McCormick Batty, St. Louis Park

B.M.E. '74, Loyola University; M.Ed. '80, University of Maryland. Degree: Doctor of Philosophy. Major: Educational Psychology.

Deborah Gwayne Betsworth, Iowa City, Iowa

B.A. magna cum laude '86, Luther College. Degree: Doctor of Philosophy. Major: Psychology.

Sherrie Lynn Bettenhausen, Watford City, N.D.

B.S.Ed. '79, M.S. '82, Minot State University. Degree: Doctor of Philosophy. Major: Educational Psychology.

Madhumita Bhowmick, Calcutta, India

B.Tech. '82, University of Calcutta; M.Tech. '85, I.I.T. Kanpur. Degree: Doctor of Philosophy. Major: Civil Engineering.

Lynn Ann Blewett, St. Paul

B.A. with distinction '80, University of Wisconsin; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy. Major: Health Services Research, Policy, and Administration.

David Eric Block, Newington, Conn.

B.S.E. magna cum laude '86, University of Pennsylvania. Degree: Doctor of Philosophy. Major: Chemical Engineering.

Rachid Bouabid

Diplome d'Agronomie Generale '85, Diplome d'Ingenieur Agronome, '87, Institut Agronomique et Veterinaire, Hassan II. Degree: Doctor of Philosophy. Major: Soil Science.

Jennifer Moye Bowes, Columbus, Ohio

B.A. with honors '86, Ohio State University. Degree: Doctor of Philosophy. Major: Psychology.

Bonita Jo Bratina, Ladysmith, Wis.

B.S. '81, University of Wisconsin. Degree: Doctor of Philosophy. Major: Microbiology.

Andrew Chappell Brod, Durham, N.C.

A.B. cum laude '81, University of Illinois; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy. Major: Economics.

JoAnn Marie Buysse, Marshall

B.A. '76, Southwest Minnesota State College; M.S. '79, Montana State University. Degree: Doctor of Philosophy. Major: Kinesiology.

Mario Cesareo

B.A. magna cum laude '83, University of California; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy. Major: Hispanic and Luso-Brazilian Literature and Linguistics.

Yu-Wen Chang

B.A. '83, M.S. '86, National Taiwan University. Degree: Doctor of Philosophy. Major: Educational Psychology.

Chien-Shing Chen, Taiwan

B.Med '85, China Medical College. Degree: Doctor of Philosophy. Major: Pathobiology.

Youjun Chen, Shanghai, People's Republic of China

B.S. '86, University of Science and Technology of China; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Physics.

Kathleen Ann Chisholm, Minneapolis

B.A. '85, Pennsylvania State University; M.A. '88, University of North Carolina. Degree: Doctor of Philosophy. Major: Speech-Communication.

Chia-Pin Chiu, Taiwan

B.S.Eng '84, National Taiwan University; M.S.M.E. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Mechanical Engineering.

Hyung Hee Cho, Korea

B.Sc.Eng '82, M.Sc.Eng '85, Seoul National University. Degree: Doctor of Philosophy. Major: Mechanical Engineering.

Robert Joseph Dado, Elmwood

B.A. cum laude '86, Macalester College. Degree: Doctor of Philosophy. Major: Neuroscience.

Anello John D'Ambra, Galveston, Tex.

B.A. '85, Trinity University. Degree: Doctor of Philosophy. Major: Chemistry.

Khaled Day

D.Eng. '86, University of Tunis; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Computer and Information Sciences.

Gianni De Nicolo

Degree: Doctor of Philosophy. Major: Economics.

Susan Harrington DeVogel, Minneapolis

A.B. cum laude '71, Radcliffe College. Degree: Doctor of Philosophy. Major: Education.

Katherine Kelley Donaldson, Minneapolis

B.S. '79, Skidmore College. Degree: Doctor of Philosophy. Major: Educational Psychology.

Diane Mary Duffy, Milwaukee, Wis.

B.S. '73, University of Wisconsin; M.S. '80, Marquette University. Degree: Doctor of Philosophy. Major: Political Science.

Lawrence Douglas Dunn, Minneapolis

B.E.E. with distinction '81, M.S.E.E. '83, University of Minnesota. Degree: Doctor of Philosophy. Major: Electrical Engineering.

Mary McIlvaine Dybvig

A.B. cum laude '58, Radcliffe College; M.A. '68, New York University. Degree: Doctor of Philosophy. Major: Educational Administration.

Philip Drake Eitzman, Gainesville, Fla.

B.S.Ch.E. with honors '86, University of Florida. Degree: Doctor of Philosophy. Major: Chemical Engineering.

Kathy Jo Evertz, Fridley

B.A. '82, M.A. '84, University of Minnesota. Degree: Doctor of Philosophy. Major: Art History.

Robert Parsons Ewing, Ames, Iowa

B.S. with highest distinction '83, University of Maine; M.S. '88, University of North Carolina. Degree: Doctor of Philosophy. Major: Soil Science.

Michael J. Genin, New Brighton

B.A. cum laude '87, College of St. Thomas. Degree: Doctor of Philosophy. Major: Medicinal Chemistry.

Ruth P. Ginzberg, Lake Geneva, Wis.

B.S. '83, University of Wisconsin. Degree: Doctor of Philosophy. Major: Philosophy.

Margaret Ann Godine, St. Paul

B.A. cum laude '82, Creighton University. Degree: Doctor of Philosophy. Major: Psychology.

Anna Anita Grotans, Minneapolis

B.A. '84, University of Minnesota; M.A. '85, University of Toronto. Degree: Doctor of Philosophy. Major: Germanic Philology.

Scott Alan Gruber, Queens, N.Y.

B.E.S. '78, The Johns Hopkins University; M.D. summa cum laude '83, State University of New York. Degree: Doctor of Philosophy in Surgery. Major: Surgery.

Janet Lucille Reichl Heidinger

B.S. with distinction '68, M.A. '80, University of Minnesota. Degree: Doctor of Philosophy. Major: Educational Psychology.

Daniel J. Hofrenning, Northfield

B.A. '80, Concordia College; M.Div. '84, Luther Theological Seminary; M.A. '85, Duke University. Degree: Doctor of Philosophy. Major: Political Science.

Shari Lynn Horner, Minneapolis

B.A. cum laude '83, Luther College. Degree: Doctor of Philosophy. Major: English.

Charles Paul Hyser, Minneapolis

B.A. '71, Cornell College; M.A. '78, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Lisa Marie Isenberg, Lafayette

B.A. '83, Gustavus Adolphus College. Degree: Doctor of Philosophy. Major: Psychology.

Krishna Ramalingam Iyer, Bombay, India

Degree: Doctor of Philosophy. Major: Pharmacognosy.

Lisa Jane Jarvis, St. Paul

B.S.Med.Tech. with distinction '77, University of Minnesota. Degree: Doctor of Philosophy. Major: Biochemistry.

Eric Nathan Jellen, Sherman Oaks, Calif.

B.S. magna cum laude '86, Brigham Young University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Plant Breeding.

Robert William Jensen, Fargo, N.D.

B.S. summa cum laude '81, Moorhead State University; M.A. '85, The American University. Degree: Doctor of Philosophy. Major: Mass Communication.

Gang-Hoan Jeong, Seoul, Korea

B.A. '86, Hankuk University of Foreign Studies; M.S. '87, University of Wisconsin. Degree: Doctor of Philosophy. Major: Education.

David Carl Jewett, Jefferson, Wis.

B.A. cum laude '88, St. Olaf College. Degree: Doctor of Philosophy. Major: Psychology.

Jaya Raj Joshi, Darchula, Nepal

B.Sc.Ag. with honors '77, Punjab Agricultural University. Degree: Doctor of Philosophy. Major: Soil Science.

Shawn Michael Kaeppler, Sheboygan, Wis.

B.S. '87, University of Wisconsin. Degree: Doctor of Philosophy. Major: Plant Breeding.

Tamara Lynn Kaiser, Minneapolis

B.A. '70, M.S. '72, University of Wisconsin. Degree: Doctor of Philosophy. Major: Family Social Science.

Kathleen Ann Kalb, Minneapolis

B.S.N. with high distinction '78, M.S. '82, University of Minnesota. Degree: Doctor of Philosophy. Major: Nursing.

Mark Steven Kalkoske, Wausau, Wis.

B.S. with distinction '83, University of Wisconsin. Degree: Doctor of Philosophy. Major: Educational Psychology.

Byung-Chang Kang, Seoul, Korea

B.Eng. '78, M.Eng. '80, Korea University. Degree: Doctor of Philosophy. Major: Electrical Engineering.

Mujibunnisa Nisa Khan, Dhaka, Bangladesh

B.A. '86, Macalester College; M.S.E.E. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Electrical Engineering.

Dong Goo Kim, Korea

M.D. '79, M.M.Sc. '82, Yonsei University. Degree: Doctor of Philosophy. Major: Pharmacology.

Tae San Kim, Korea

B.Ag. '77, Seoul City University; M.S.Ag. '85, Seoul National University. Degree: Doctor of Philosophy. Major: Plant Breeding.

Yoon Hee Kim-Hwang, Seoul, Korea

B.M. '83, M.M. '85, Seoul National University. Degree: Doctor of Philosophy. Major: Music.

Jerome Robert Kolbo

B.A. '84, University of Mary; M.S.W. '87, University of Denver. Degree: Doctor of Philosophy. Major: Social Work.

Karl Ruben Krohn, St. Paul

B.S. '68, University of Wisconsin; M.A. '83, University of Minnesota. Degree: Doctor of Philosophy. Major: Sociology.

Per Lennart Krusell, Stockholm, Sweden

Civilekonom '85, Stockholm School of Economics. Degree: Doctor of Philosophy. Major: Economics.

Lili Kuo, Taipei, Taiwan

B.S. '84, National Taiwan University. Degree: Doctor of Philosophy. Major: Microbiology.

Chengho Lee, Taiwan

B.S. '82, M.S. '85, National Taiwan University. Degree: Doctor of Philosophy. Major: Geo-Engineering.

Jae-Keun Lee, Seoul, Korea

B.E. '81, Pusan National University; M.S. '83, Korea Advanced Institute of Science and Technology; M.S.M.E. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Mechanical Engineering.

Mi-Ock Lee, Korea

B.Sc.Pharm '85, M.Sc.Pharm '87, Seoul National University. Degree: Doctor of Philosophy. Major: Pharmacology.

Seok-Young Lee, Korea

B.B.A. '83, Seoul National University. Degree: Doctor of Philosophy. Major: Business Administration.

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

B.S. '86, Peking University; M.S. '91, University of Minnesota. Degree: Doctor of Philosophy. Major: Physics.

Huann-Shyang Lin, Taiwan

B.Ed. '77, National Taiwan Normal University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Yu-Chen Lin, Taiwan

B.A. '78, National Taiwan University; M.A. '81, State University of New York. Degree: Doctor of Philosophy. Major: English.

Rebecca Ann Lind, Manchester, N.H.

B.A. '87, Humboldt State University; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Speech-Communication.

Jeannette Marie Lindholm, St. Paul

B.A. summa cum laude '83, Concordia College; M.A. '86, Indiana University. Degree: Doctor of Philosophy. Major: English.

Wenxiong Liu, Changsha, China

M.S. '85, Chansha Institute of Technology. Degree: Doctor of Philosophy. Major: Mathematics.

Whei-Ching Liu, Taiwan

B.Ed. '79, M.Ed. '81, National Taiwan Normal University. Degree: Doctor of Philosophy. Major: Educational Psychology.

Marc Clifton Loken, New Brighton

B.A. summa cum laude '70, Augustana College; M.S. '77, M.S. '79, South Dakota School of Mines and Technology. Degree: Doctor of Philosophy. Major: Civil Engineering.

Randall Ray Lombard, Eau Claire, Wis.

B.S. '86, M.S.Ed. '79, University of Wisconsin. Degree: Doctor of Philosophy. Major: Educational Administration.

Gillian Catherine Lynch, Port-of-Spain, Trinidad

B.S. '86, Oklahoma State University. Degree: Doctor of Philosophy. Major: Chemistry.

Jin Ma, Shanghai, People's Republic of China

B.S. '82, M.S. '85, Fudan University. Degree: Doctor of Philosophy. Major: Mathematics.

Yamin Ma, Lingbi, Anhui, Chian

B.S. '82, Branch College, Peking University; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy. Major: Mechanical Engineering.

Connie Jo Magnuson, Minneapolis

B.S. '85, Wayne State University; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Sara Frances Maltzman, Golden Valley

B.A. '81, University of Oregon; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy. Major: Psychology.

Rose Antonia Meier, Capron, Ill.

B.A. cum laude '80, Luther College; M.S. '83, Northern Illinois University. Degree: Doctor of Philosophy. Major: Botany.

Debi Kroll Mensing, St. Paul

B.A. summa cum laude '83, University of Minnesota. Degree: Doctor of Philosophy. Major: Psychology.

Michael L. Meyer

B.S. '66, Wisconsin State University; M.S. '79, University of Wisconsin; M.S. '85, University of Minnesota. Degree: Doctor of Philosophy. Major: Soil Science.

Elizabeth Ruth Mittman, Eugene, Ore.

B.A. magna cum laude '81, St. Olaf College; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy. Major: German.

Hyounk Koo Moon, Seoul, Korea

B.A. '77, Seoul National University; M.B.A. '81, Yonsei University. Degree: Doctor of Philosophy. Major: Business Administration.

Thomas Francis Morgan III, St. Paul

B.S. '72, Juniata College; M.B.A. '80, University of Denver; M.S. '83, University of Oregon. Degree: Doctor of Philosophy. Major: Educational Administration.

John Walker Mullins, Evergreen, Colo.

B.A. '67, Lehigh University; M.B.A. '69, Stanford University. Degree: Doctor of Philosophy. Major: Business Administration.

Penelope Starratt Myers, Rochester

B.A. '70, Concordia University; M.A. '74, George Washington University. Degree: Doctor of Philosophy. Major: Communication Disorders.

Janice Winchester Nadeau, Stillwater

B.S. '78, Castleton State College; M.S. '81, University of Minnesota. Degree: Doctor of Philosophy. Major: Family Social Science.

Robert C. Nelson, Rockville, Md.

B.S.Pharm. '74, Long Island University; M.S. '79, George Washington University. Degree: Doctor of Philosophy. Major: Social and Administrative Pharmacy.

Catherine Frances Neumeyer

B.A. '72, B.S.A. '74, M.Sc. '78, University of Saskatchewan. Degree: Doctor of Philosophy. Major: Agricultural and Applied Economics.

Frederick L. Nolan, Cambridge, Mass.

B.A. '72, Macalester College; Spec.Ed. '79, Tri-College University. Degree: Doctor of Philosophy. Major: Educational Administration.

Diane M. Odeen, Black River Falls, Wis.

B.A. magna cum laude '82, Lawrence University; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy. Major: Theatre Arts.

Zeki Ogurtan

D.V.M. '82, University of Ankara. Degree: Doctor of Philosophy. Major: Veterinary Surgery, Radiology, and Anesthesiology.

Se Young Oh, Seoul, Korea

B.S. '80, M.S. '82, University of Minnesota. Degree: Doctor of Philosophy. Major: Computer and Information Sciences.

Eric Monroe Olson, Portland, Ore.

B.S. '75, Lewis and Clark College; M.B.A. '86, Portland State University. Degree: Doctor of Philosophy. Major: Business Administration.

Sharon Ann Owens, Richfield

B.S. '68, St. Cloud State College; M.A. '80, Spec.Ed. '82, University of Minnesota. Degree: Doctor of Philosophy. Major: Educational Administration.

Joo-Eng Lee Patridge, Singapore

B.Sc. '82, National University of Singapore. Degree: Doctor of Philosophy. Major: Business Administration.

Scott David Peterson, St. Paul

B.S. with high distinction '86, University of Minnesota; M.S. '88, University of Missouri. Degree: Doctor of Philosophy. Major: Food Science.

Shari Lou Peterson, Minneapolis

B.S. '70, Drake University; M.Ed. '81, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Sutinun Pronanuluck, Thailand

B.Eng. '84, Chulalongkorn University; M.S.E.E. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: Electrical Engineering.

Mark Robert Prowatzke, Oakdale

B.S. cum laude '75, M.S. '78, University of Wisconsin. Degree: Doctor of Philosophy. Major: Educational Administration.

Zhining Qin, Nanjing, Jian Su, China

Dipl. '82, Naning Teacher's College; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Ajay Kumar Ray, Calcutta, India.

Degree: Doctor of Philosophy. Major: Chemical Engineering.

Lynette Eileen Reini-Grandell, Minneapolis

B.A. cum laude '82, Carleton College; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: English.

Lisa Caroline Roetzel, St. Paul

B.A. cum laude '81, Macalester College; M.A. '84, University of Minnesota. Degree: Doctor of Philosophy. Major: German.

Thomas Richard Rohleder, St. Paul

B.S.B. with distinction '83, University of Minnesota. Degree: Doctor of Philosophy. Major: Business Administration.

Lisa Mignon Rotterman

B.S. '75, University of Maryland; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy. Major: Ecology.

Jose Miguel Sanchez, Chile

Ingeniero Comercial '83, Magister en Economia '83, Pontificia Universidad Catolica de Chile. Degree: Doctor of Philosophy. Major: Economics.

David John Schmid, Fairmont

B.S. with distinction '86, Iowa State University. Degree: Doctor of Philosophy. Major: Physics.

Kory Jon Schuh, Neenah, Wis.

B.A. '85, University of Minnesota. Degree: Doctor of Philosophy. Major: Psychology.

Susan Louise Senecah

B.S. '72, Bemidji State College; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: Speech-Communication.

Han Son Seo, Taegu, Korea

B.Econ. '83, M.Econ. '86, Yonsei University. Degree: Doctor of Philosophy. Major: Statistics.

Janet Sue Severance, Kalamazoo, Mich.

B.A. '82, Kalamazoo College. Degree: Doctor of Philosophy. Major: Sociology.

Dale Lynn Shannon, Bismark, N.D.

B.S.Ed. '82, M.A. '84, University of North Dakota. Degree: Doctor of Philosophy. Major: Speech-Communication.

T. A. Fauzi Soelaiman, Bandung, Indonesia

Sarjana '84, Bandung Institute of Technology ; M.S.M.E. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Mechanical Engineering.

Zhaohui Song, St. Paul

B.S. '86, Beijing Medical University. Degree: Doctor of Philosophy. Major: Pharmacology.

Catherine Therese Spaeth, St. Paul

B.A. '81, College of St. Benedict; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: American Studies.

Patricia Ann Spoentgen, Clear Lake, Wis.

B.A. '70, M.S. '85, University of Wisconsin. Degree: Doctor of Philosophy. Major: Family Social Science.

Barbara Jo Stallman

B.A. '73, Mary Manse College; M.S. '81, St. Louis University. Degree: Doctor of Philosophy. Major: Chemistry.

Kim Yoonok Stenberg, Seoul, Korea

B.A. '81, Yonsei University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: History.

Ruth Helene Tallakson, St. Paul

B.A. '68, Concordia College; M.A. '81, University of Minnesota. Degree: Doctor of Philosophy. Major: Educational Psychology.

Edmund McDonald Tavernier, Pointe Michel, Dominica

B.S. '87, Tuskegee University. Degree: Doctor of Philosophy. Major: Agricultural and Applied Economics.

Douglas Edward Thomas

B.A. '88, University of North Carolina; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Speech-Communication.

Csaba Toth

Diploma '78, Lorand Eotvos University. Degree: Doctor of Philosophy. Major: American Studies.

Christa Jo Treichel, St. Paul

B.A. '85, Concordia College; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Nels H. Troelstrup Jr., Julesburg, Colo.

B.A. '81, University of Northern Colorado; M.S. '85, University of Nebraska. Degree: Doctor of Philosophy. Major: Forestry.

Kendrick Ann Trostel, St. Paul

B.A. magna cum laude '83, Brown University; M.Sc. '87, University of British Columbia. Degree: Doctor of Philosophy. Major: Veterinary Biology.

Sharon Lynn Umbach, Peace River, Alberta, Canada

B.S. '86, University of Alberta; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Food Science.

Busaya Virakul

M.Ed. '84, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

David Jay Wagner, Sheboygan, Wis.

B.S. with highest honors '74, University of Wisconsin; A.M. '77, Indiana University. Degree: Doctor of Philosophy. Major: American Studies.

Nancy C. Wagner, St. Paul

A.B. with honors '79, Grinnell College. Degree: Doctor of Philosophy. Major: Educational Psychology.

Duo Wang, People's Republic of China

B.S. '86, University of Science and Technology of China. Degree: Doctor of Philosophy in Urology. Major: Genetics.

Jin Wang, Hangzhou, Zhejiang, China

B.S. '82, Hangzhou University; M.Ed. '87, Frostburg State University. Degree: Doctor of Philosophy. Major: Kinesiology.

Dorothy Bouchard Welch, Wayzata

B.S. with distinction '58, M.A. '63, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Roberta Werner, St. Joseph

B.A. '56, College of St. Benedict; M.M. '74, De Paul University. Degree: Doctor of Philosophy. Major: Music.

Robin Lee Wetzal, Columbus, Ohio

B.A. '81, Ohio State University. Degree: Doctor of Philosophy. Major: Educational Psychology.

Mary Jean Wickham, St. Paul

B.S. with distinction '80, M.S. '81, Iowa State University of Science and Technology. Degree: Doctor of Philosophy. Major: Mechanical Engineering.

Robert Maxwell Wiseman, Austin

B.S. '80, M.B.A. '82, University of Wisconsin. Degree: Doctor of Philosophy. Major: Business Administration.

Catherine Lila Wisner, Huntsville, Ala.

B.S.N. with honor '77, University of Alabama; M.S.N. '81, Vanderbilt University. Degree: Doctor of Philosophy. Major: Health Services Research, Policy, and Administration.

Renee Louise Wonser, Tioga, N.D.

B.S.Ed. '78, M.S. '79, University of North Dakota. Degree: Doctor of Philosophy. Major: Education.

Patricia Rae Wyffels, Edina

B.A. '89, University of Minnesota. Degree: Doctor of Philosophy in Medicine. Major: Industrial Relations.

Ching-Yun Yeh, Taipei, Taiwan

B.Ed. '85, National Chengchi University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: Educational Psychology.

Mitchell Louis Yell, Minneapolis

B.S. with distinction '72, University of Minnesota; M.S. '83, St. Cloud State University. Degree: Doctor of Philosophy. Major: Educational Psychology.

Pau Yong Yen, Kota Kinabalu, Sabah, Malaysia

B.S. '85, M.S. '87, Oklahoma State University. Degree: Doctor of Philosophy. Major: Soil Science.

Ping Yi

B.S. '82, Wuhan Institute of Hydraulic and Electrical Engineering; M.S.C.E. '86, Washington State University. Degree: Doctor of Philosophy. Major: Civil Engineering.

Taek-Lim Yoon, South Korea

B.A. '84, Yonsei University; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Anthropology.

Xiaohua Yu

B.S. '84, Peking University. Degree: Doctor of Philosophy. Major: Materials Science and Engineering.

Anthony Remi Zara, Palatine, Ill.

B.S. '80, University of Illinois. Degree: Doctor of Philosophy. Major: Psychology.

Xiaoxiang Zhu, China

B.S. '82, South China Normal University; M.S. '86, Eastern Illinois University. Degree: Doctor of Philosophy. Major: Chemistry.

Eric Edward Zilbert, Venice, Calif.

B.S. '80, M.Ed. '83, University of California. Degree: Doctor of Philosophy. Major: Education.

Michele M. Zurakowski, Minneapolis

B.S. '82, Manchester College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Speech-Communication