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# UNIVERSITY OF MINNESOTA

*Fall 1992*

*Graduate School*

*Commencement*



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## *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, Owatonna  
The Honorable Stanley D. Sahlstrom, St. Cloud  
The Honorable Ann J. Wynia, St. Paul

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## *Administrative Officers*

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Ettore F. Infante, Senior Vice President for Academic Affairs and Provost  
Robert O. Erickson, Senior Vice President for Finance and Operations  
C. Eugene Allen, Vice President for Institute of Agriculture, Forestry, and Home Economics  
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Robert E. Anderson, Vice President for Health Sciences  
Anne C. Petersen, Vice President for Research  
Marvalene Hughes, Vice President for Student Affairs

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

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

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## *Order of Events*

<b>Prelude Concert</b>	From 6 to 7 p.m., music is provided by Dean Billmeyer, D.M.A., F.A.G.O., Associate Professor of Music and University Organist. Prelude and Fugue in G Major .....Johann Sebastian Bach Three Chorals.....Johannes Brahms Andante in F Major .....Wolfgang Amadeus Mozart Sleepers, Awake!.....Johann Sebastian Bach
<b>Processional</b>	At 7 p.m., the macebearer and the United States flag marshal march onto the stage, heralding the arrival of the academic procession of candidates. In the procession are administrators, faculty, distinguished guests, and regents. The order of march of candidates is as follows: Doctor of Philosophy           Specialist Certificate in Education Doctor of Education           Master's Degrees Doctor of Musical Arts Trumpet Voluntary .....John Stanley March in D Major .....George Frideric Handel
<b>The National Anthem</b>	As soloist Rosalind Laskin steps to the microphone, the entire audience will stand and join in singing the national anthem: O, say! can you see, by the dawn's early light, What so proudly we hail'd at the twilight's last gleaming, Whose broad stripes and bright stars, thro' the perilous fight O'er the ramparts we watch'd were so gallantly streaming? And the rockets' red glare, the bombs bursting in air, Gave proof thro' the night that our flag was still there. O, say, does that star-spangled banner yet wave O'er the land of the free and the home of the brave?
<b>Speaking for the University</b>	Ettore Infante, Ph.D., Senior Vice President for Academic Affairs and Provost
<b>Introduction of Commencement Speaker</b>	Mark Brenner, Ph.D., Associate Vice President for Research and Associate Dean of the Graduate School
<b>Commencement Address</b>	“Realizing the Pattern” George T. Wright, Ph.D., Regents' Professor, Department of English
<b>Organ Solo</b>	Prelude in D Major.....Johann Sebastian Bach

<b>Presentation of Candidates for Master's Degrees and Specialist Certificates</b>	Associate Dean Stephen Hedman, Ph.D., will present the candidates for professional master's, master of science, and master of arts degrees, and specialist certificates in education to Dean Brenner and the audience. All candidates will proceed across the stage as they are presented.
<b>Presentation of Candidates for Doctoral Degrees</b>	Associate Dean Kenneth Zimmerman, Ph.D., will present the candidates for the degrees of Doctor of Education, Doctor of Musical Arts, and Doctor of Philosophy to Dean Brenner and the audience. Each new doctoral candidate will be hooded.
<b>Conferring of Degrees</b>	Regent Alan Page will confer certificates and degrees upon the candidates.
<b>Closing Remarks</b>	Dean Brenner
<b>Hail! Minnesota</b>	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.
<b>Recessional</b>	The graduates will leave their seats. The audience is requested to remain seated until those in the academic procession have marched out. Toccata from Symphony No. 5 .....Charles-Marie Widor
<b>Commencement Reception</b>	The commencement reception in the lobby of Northrop Memorial Auditorium immediately follows the ceremony. All candidates and their guests are invited.

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

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## *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.

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## *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, the University's 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, and Crookston, a two-year technical college, provides paraprofessional and technical education. 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 462,074 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, which opened in 1971, closed in August 1992.

Enrollment in fall 1992 was 48,994 on all five campuses. Enrollment was 38,019 on the Twin Cities campus, 7,649 at Duluth, 1,923 at Morris, 1,352 at Crookston, and 51 students were completing degrees at Waseca.

During the 1991-1992 academic year, the University of Minnesota conferred 10,952 degrees on all its campuses: 6,115 in July, August, and December 1991, and March 1992, and 4,837 in June 1992.

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.

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## *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.

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## *Degrees Awarded*

The following individuals had completed all the requirements for their degrees as of September 30, 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, master of arts, specialist certificates, and doctoral degrees.

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## *Professional Master's Degrees*

### **Johan Ake Akesson, Vaxjo, Sweden**

B.Sc. '90, Vaxjo University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Vicki Walker Allmon**

B.S.B. '84, University of Wisconsin. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Jacqueline Alschuler, Skokie, Ill.**

B.S.B. with distinction '83, Indiana University. Degree: Master of Business Taxation, August '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

### **Margaret Mary Altenhofen, Edina**

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Paul Anthony Andersen, Richfield**

B.M.E. '82, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Dianne J. Anderson, Kenosha, Wis.**

B.A. '89, Marquette University. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Jerome Beker

### **Kelly Marie Anderson, Cottage Grove**

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

### **Gail L. Arendt, Neenah, Wis.**

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

### **Kathleen Joy Arendt**

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

### **Jon Brian Arnason, Edina**

B.M. '88, University of Minnesota. Degree: Master of Music, April '92. Major: Music. Major Adviser: J. Edward Anderson

### **Carol Sheridan Arneson, Golden Valley**

B.A. '84, Metropolitan State University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Steven Jay Arnett, Eagan**

B.S.B.A. cum laude '89, Rockhurst College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Sharon L. Arnold, Cold Spring**

B.A. summa cum laude '91, College of Saint Benedict. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Benjamin S. Arriola, Shorewood**

B.Aero.E. '83, University of Minnesota. Degree: Master of Business Administration, August '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Paul Evans Barnhouse, Bloomington**

B.F.A. '90, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Dawn Denise Bartl**

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

### **Dawn E. Bartz, St. Paul**

B.S. magna cum laude '84, Mankato State University. Degree: Master of Social Work, May '92. Major: Social Work. Major Adviser: Nancy M. Abramson

### **John Matthew Beam, Brooklyn Park**

B.S. '85, University of Illinois. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

### **Lynn Ellen Bechthold, Minneapolis**

B.S. '85, University of Wisconsin. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Andrea Gay Beck**

B.F.A. '87 University of Hawaii. Degree: Master of Fine Arts. August '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: James Norwood

**Douglas Eric Becken, Hanska**

B.A. '80, Hamline University; B.F.A. magna cum laude '88. Mankato State University. Degree: Master of Fine Arts. June '92. Major: Studio Arts. Minor: Related Fields. Major Adviser: Curtis C. Hoard

**William Behrenbrinker, International Falls**

B.S. '73, University of Minnesota. Degree: Master of Business Administration. April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Peter Joseph Belfiore, Minneapolis**

B.A. '63, Columbia University; M.S. '69, Syracuse University; M.A. '71, San Fernando Valley State College. Degree: Master of Social Work. June '92. Major: Social Work. Major Adviser: Jane F. Gilgun

**Kenneth David Bence, Golden Valley**

B.A. '84, Gettysburg College. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**William John Benjamin III, Edina**

B.A. '83, St. Olaf College. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**John Michael Bernstein, Minneapolis**

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

**Christiane Besener-Boulton, Berlin, Germany**

B.A. cum laude '91, Augsburg College. Degree: Master of Business Administration. July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Forrest Blanton Bessinger, Jr., St. Paul**

M.D. '65, Emory University. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**David Harris Bialik, New York, N.Y.**

B.A. '90, Hunter College. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Denise Hanna Bisanz, Minneapolis**

B.A. '71, Cleveland State University; M.Ed. '77, Kent State University. Degree: Master of Social Work. August '92. Major: Social Work. Major Adviser: Linda E. Jones

**Barbara Ann Bishop, Sarasota, Fla.**

B.M. '90, Eastman School of Music. Degree: Master of Music. July '92. Major: Music. Major Adviser: John E. Anderson

**Joel Black, Mitchell, S.D.**

B.A. '83, Dakota Wesleyan University. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Kathleen Ann Boegeman, St. Paul**

B.S. '83, Mankato State University. Degree: Master of Social Work. April '92. Major: Social Work. Major Adviser: Jean K. Quam

**Robert W. Boettcher, Eau Claire, Wis.**

B.B.A. '74, Wisconsin State College. Degree: Master of Business Taxation. September '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

**David Robert Bonnerup, Albert Lea**

B.S. '75, University of Minnesota. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Regina Evelyn Bonsignore, Fairfax, Va.**

B.A. with honors '82, Trinity College. Degree: Master of Landscape Architecture. April '92. Major: Landscape Architecture. Minor: Related Fields. Thesis: Representing the Ecological Function of Midwestern Farm Streams: Price's Picturesque Applied to Stream Corridors. Major Adviser: Joan I. Nassauer

**Mark Henry Book, Brooklyn Park**

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

**Kimberly Marie Bothun, Elgin**

B.A. '90, St. Olaf College. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Lynda Marie Bradley, Marquette, Mich.**

B.Mus Perf. '88, University of Michigan. Degree: Master of Music. August '92. Major: Music. Major Adviser: Roland Vamos

**Karen Patricia Brady, Dallas, Tex.**

B.A. '87, University of Dallas. Degree: Master of Fine Arts. May '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Stephen C. Kanee

**Gerald Forrester Bragg, Manchester, Mich.**

B.A. '85, Hillsdale College. Degree: Master of Business Administration. September '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Mark Lee Brandell, Apple Valley**

B.A. '73, Augsburg College. Degree: Master of Business Administration. May '92. Major: Business Administration. Major Adviser: Donald R. Bell

**William Arthur Braun, Red Wing**

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

**Susan D. Brockman, Orfordville, Wis.**

B.S. '84, University of Wisconsin. Degree: Master of Fine Arts. July '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Martin B. Gwinup

**Angela Marie Brown, Ames, Iowa**

B.A. '90, Northeast Missouri State University. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Glenn Joseph Brown, New Ulm**

B.S. '86, North Dakota State University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Craig S. Buchanan, Chanhassen**

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

**Ewa M. Bujak, Cracow, Poland.**

Diploma '78, State College of Music, Warsaw. Degree: Master of Music, August '92. Major: Music. Major Adviser: Roland Vamos

**David Francis Burd, Maplewood**

B.A. '90, Marquette University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**William Burkhardt, Houston, Tex.**

B.A. '76, M.F.A. '79, William Marsh Rice University. Degree: Master of Architecture, May '92. Major: Architecture. Thesis: Proposal for an Addition to the Fogg Art Museum, Cambridge, Mass. Major Adviser: John G. Rauma

**Randy Max Buschmann, Chanhassen**

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

**Rebecca Tyler Butler, Duluth**

B.A. '86, University of Vermont. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Heidi Lynn Bye, Wayzata**

B.S.B. '77, University of Minnesota. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**William J. Caesar, Anoka**

B.A. '90, Metropolitan State University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Mary Joanne Cairns, Minneapolis**

B.A. '65, University of Minnesota. Degree: Master of Social Work, September '92. Major: Social Work. Major Adviser: Helen Q. Kivnick

**Pierre Jacques Callies, Saint Broing, France**

B.S. '90, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Carla Jean Cambronne, Frazee**

B.S. '91, University of Denver. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Jill Alison Cameron**

B.S. '84, University of Missouri. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Grant Raymond Campany, Ashtabula, Ohio**

B.S.B. with distinction '91, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Brian Thomas Carlson, Bloomington**

B.S.B. '69, J.D. '72, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Gregory Charles Carlson, Baltimore, Md.**

B.S.B. with distinction '86, University of Minnesota. Degree: Master of Business Taxation, August '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

**Marcy A. Carrel, St. Paul**

B.A. cum laude '82, Carleton College. Degree: Master of Business Administration, August '92. Major: Business Administration. Major Adviser: Donald R. Bell

**John Thomas Carroll, Gardner, Mass.**

B.S. magna cum laude '88, Syracuse University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Manuel Dionisio Castillo, St. Paul**

B.A. '74, Macalester College; J.D. '85, William Mitchell College of Law. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Giles David Caver, Deerfield, Ill.**

A.B. '89, University of Michigan. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Charu Chandra**

M.B.A. '83, Mankato State University. Degree: Master of Industrial Engineering, July '92. Major: Industrial Engineering. Minor: Related Fields. Thesis: Evaluating Cellular Set-Up as a Manufacturing Alternative. Major Advisers: Shahrukh A. Irani and Sant Ram Arora

**Daniel Ray Chard, Salt Lake City, Utah**

B.A. '89, Brigham Young University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Richard Evan Chasinoff, Staten Island, N.Y.**

B.S. '90, Cornell University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Sanjeev Chauhan, Lucknow, India**

Degree: Master of Business Administration, August '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Jane Evelyn Christenson, Grand Forks, N.D.**

B.F.A. magna cum laude '89, University of North Dakota. Degree: Master of Fine Arts, June '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Stephen C. Kaneo

**Dennis Vernon Christian, Minneapolis**

B.A. '66, Luther College. Degree: Master of Social Work, July '92. Major: Social Work. Major Adviser: Nancy M. Abramson

**Guy W. Cierzan, Minneapolis**

B.A. '91, University of St. Thomas. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Peter Alan Claypoole, Deerwood**

B.F.A. '82, Michigan State University. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Peter Joseph Cleary**

B.S. '82, Texas A & M University. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Timothy Paul Cofer, White Bear Lake**

B.A. magna cum laude '90, St. Olaf College. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Christopher D. Cole, Minnetonka**

B.A. cum laude '89, St. Olaf College. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Timothy Vaughan Coleman, Rochester**

B.A. '90, University of Michigan. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Mitchell William Cook, Grand Rapids, Mich.**

A.B. '87, Colby College. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Mary Hughes Coulter, Minneapolis**

B.A. '83, College of St. Benedict. Degree: Master of Business Administration. April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Peter James Curoe, Dubuque, Iowa**

B.A. magna cum laude '86, College of St. Thomas. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**James C. R. Dake, Burnsville**

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

**Scott Anthony Dattalo, Plymouth**

B.S.B. '89, University of Minnesota. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Susan Elizabeth Dees, Minneapolis**

B.A. '87, Macalester College. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Thomas Niel DeVries, Apple Valley**

B.S. '82, University of Wisconsin. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Lawrence Michael Diamond**

B.B.A. '85, University of Richmond. Degree: Master of Business Administration. July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Scott Michael Dorgan, St. Paul**

B.B.A. '89, University of North Dakota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Bryce Alan Doty, Dover**

B.A. summa cum laude '88, Hamline University. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Darrell E. Dukes, Saratoga, Calif.**

A.B. '88, College of the Holy Cross. Degree: Master of Fine Arts. July '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Barbara Reid

**John R. Dundon, Minneapolis**

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

**Derek N. Dunham, Stanley, N.D.**

B.B.A. '89, University of North Dakota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Kristin M. Dunlap, Wayzata**

B.A. '87, Carleton College. Degree: Master of Business Administration. July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Julie Dunnigan, Minneapolis**

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B.S. with honor '90, Michigan State University. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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Doctorandus '78, Diponegoro University. Degree: Master of Business Administration, August '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '83, St. Olaf College; B.S. '85, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '85, University of Minnesota. Degree: Master of Business Administration. May '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Christopher Jack Girard Egan**

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

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B.A. cum laude '85, College of Saint Benedict. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '83, Colorado College. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

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**Mark Allen Ester, Stillwater**

A.B. '74, Augustana College; M.S. '77, Pennsylvania State University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S.L.A. '79, Iowa State University of Science and Technology. Degree: Master of Landscape Architecture, June '92. Major: Landscape Architecture. Minor: Related Fields. Thesis: Modeling the Effects of Design Intervention on Human Thermal Comfort at the Microclimatic Scale (Climate, Landscape Architecture, and Outdoor Comfort at the Garden Scale). Major Adviser: Patrick M. Condon

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**Scott F. Hesketh, Bloomfield, Conn.**

B.C.E. '89, University of Detroit. Degree: Master of Civil Engineering, July '92. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Panos Michalopoulos

**Christopher John Hewitt, Burlington, Wis.**

B.F.A. '88, University of Wisconsin. Degree: Master of Fine Arts, July '92. Major: Studio Arts. Minor: Related Fields. Major Adviser: Jerald A. Krepps

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**Craig Leslie Hiemstra, Des Moines, Iowa**

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**Stephen Anthony Hirsch, Edina**

B.A. '83, College of St. Thomas. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Christopher James Hnilicka, Coon Rapids**

B.S. '85, University of Illinois. Degree: Master of Business Administration, May '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '89, St. Olaf College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. with high scholarship '86, Oregon State University. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Henrik Colind Host, Oslo, Norway**

B.S. '89, University of Oregon. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Thomas Brian Houghton, White Bear Lake**

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B.A. summa cum laude '89, Trinity College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Steven James Hudoba, St. Louis Park**

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

**Doug Glen Huisken, Minneapolis**

A.B. '82, Dordt College. Degree: Master of Fine Arts, June '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Barbara Reid

**Mark Rockne Hyberger, Cresco, Iowa**

B.S. cum laude '83, St. Cloud State University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.M.E. '81, University of Minnesota. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '87, Carnegie-Mellon University. Degree: Master of Business Administration, August '92. Major: Business Administration. Major Adviser: Donald R. Bell

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M.B.A. '87, University of Karachi. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.B.A. '90, George Washington University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '79, University of California. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.Mus.Perf. with distinction '78, University of Michigan. Degree: Master of Music, June '92. Major: Music. Major Adviser: Everett L. Sutton

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B.F.A. '85, Grand Valley State College. Degree: Master of Fine Arts, April '92. Major: Studio Arts. Minor: Art History. Major Adviser: M. Diane Katsiareas

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**Matthew Donald Johnson, Hartford, S.D.**

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B.A. '84, Northwestern University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '87, Hanyang University. Degree: Master of Architecture, May '92. Major: Architecture. Thesis: Motion and Architecture: Recreation and Performance Facility, Oakdale Community, Minnesota. Major Adviser: John G. Rauma

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B.S. '88, St. Cloud State University. Degree: Master of Social Work. July '92. Major: Social Work. Major Adviser: Jane F. Gilgun

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B.A. magna cum laude '61, B.S. '62, B.F.A. summa cum laude '87, University of Minnesota. Degree: Master of Fine Arts. April '92. Major: Studio Arts. Minor: Art History. Major Adviser: Victor Caglioti

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B.S. with distinction '87, University of Wisconsin. Degree: Master of Business Administration. April '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '84, United States Military Academy. Degree: Master of Business Administration. July '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.Stat. with high distinction '90, University of Minnesota. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '75, University of Minnesota. Degree: Master of Social Work. July '92. Major: Social Work. Major Adviser: Jean K. Quam

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B.S.B. with distinction '91, University of Minnesota. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. '81, Gustavus Adolphus College. Degree: Master of Business Administration. May '92. Major: Business Administration. Major Adviser: Donald R. Bell

**James Curtis Luth, St. Paul**

B.A. '83, Wartburg College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**David G. Machacek, Northfield**

B.E.E. '81, M.S.E.E. '83, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Luis Eduardo Junqueira Machado, Sao Paulo, Sao Paulo, Brazil**

Bacharel em Direito '88, Universidade de Sao Paulo. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. magna cum laude '69, University of Notre Dame; M.S. '71, Stanford University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.A. with distinction '89, Baylor University. Degree: Master of Planning, September '92. Major: Planning. Major Adviser: Richard S. Bolan

**Margaret Ellen Martin, Green Bay, Wis.**

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**Peter MacNamee Martin, New Brighton**

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B.Comp.Sc. '86, University of Minnesota. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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B.S. '87, University of Southern California. Degree: Master of Business Administration. June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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**Thomas Daniel O'Connor, Farmington**

B.A. '89, St. Olaf College. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Laura Ann O'Halloran Helmer, Savage**

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**Jeanne Marie Oleson**

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**Wayne L. Olhoff, Shoreview**

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**Eric Towley Olson, Virginia**

B.B.A. '89, University of Minnesota. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Jean Leslie Olson, Bloomington**

B.A. '80, Gustavus Adolphus College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Sandra Lea Orbeck, White Bear Lake**

B.A. '88, College of St. Thomas. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Daniel Lee Ossmann, West Allis, Wis.**

B.S. cum laude '76, University of Wisconsin. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Christine Ann Richardson Pagel, Burnsville**

B.A. '74, University of Minnesota. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Sara M. Taber

**Stylianios Pappas, Athens, Greece**

Diploma '87, Athens University of Economics and Business. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Jong Pal Park, Seoul, Korea**

B.Econ. '84, Chung-Ang University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Young Shik Park, Seoul, Korea**

B.S. '83, Yonsei University. Degree: Master of Architecture, May '92. Major: Architecture. Thesis: A Design Proposal for the Korean Presbyterian Church of Minnesota as a Centripetal Place for the Korean Community in Minnesota. Major Adviser: John G. Rauma

**Daniel Martin Parks, Plymouth**

B.C.E. '82, University of Minnesota. Degree: Master of Civil Engineering, September '92. Major: Civil Engineering. Minor: Related Fields. Major Adviser: John S. Gulliver

**Christopher Howard Patton, Minneapolis**

B.A. '85, Simpson College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Holly Carol Paulsen, Brookfield, Wis.**

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

**Elizabeth Mary Pauly, La Crosse, Wis.**

B.A. cum laude '80, Viterbo College; M.Ed. '88, University of Wisconsin. Degree: Master of Music, May '92. Major: Music. Major Adviser: Lawrence Weller

**Nicholas Joffre Pedretti, Eden Prairie**

B.S. highest honors '84, University of Wisconsin. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Kim T. Pengelly, St. Paul**

B.A. summa cum laude '83, Carleton College. Degree: Master of Social Work, July '92. Major: Social Work. Major Adviser: Oliver J. Williams

**Gary Paul Peterson, Shoreview**

B.S. with high distinction '85, University of Minnesota. Degree: Master of Business Taxation, July '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

**Richard John Phillips, Richfield**

B.A. '84, Asbury College. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Ross Gerard Phillips, Minneapolis**

B.A. '86, Bethel College. Degree: Master of Social Work, August '92. Major: Social Work. Major Adviser: Jerome Beker

**Janet D. Pomerantz, Boston, Mass.**

B.S. '78, Northeastern University. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Linda E. Jones

**Karen Sue Porter, Wayzata**

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

**Paul Christopher Qualy, Zumbrota**

B.S. '85, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Nii-Ayite Animle Quaye, Minneapolis**

B.A. '90, Ottawa University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Laurie Marie Rabl, Wisconsin**

B.A. '87, University of Wisconsin. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Nancy Johnston

**Shahreen Adeeba Rahman, Bangladesh**

B.A. '91, College of St. Catherine. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Craig T. Ranheim, Minneapolis**

B.A. '83, St. Olaf College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Amy Susan Raskin, Minnetonka**

B.S. with honors '83, University of Illinois. Degree: Master of Social Work, September '92. Major: Social Work. Major Adviser: Esther Wattenberg

**Thomas A. Rasmussen, Chanhassen**

B.S. cum laude '83 University of Wisconsin. Degree: Master of Civil Engineering. May '92. Major: Civil Engineering. Minor: Related Fields. Project: Analysis of Atrazine Levels in the Lower Missouri River. Major Adviser: Efi Foufoula-Georgiou

**Noel Raymond, State College, Pa.**

B.F.A. '89, Ithaca College. Degree: Master of Fine Arts, June '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Barbara Reid

**Scott Robert Reid**

B.B.A. '90, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**John Howard Rempfer**

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

**Scott John Reubish, White Bear Lake**

B.A. '89, College of St. Thomas. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Jinho Rhee, Seoul, Korea**

B.A. '81, Sogang University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Gerald Harry Rhoades, Eden Prairie**

B.S. summa cum laude '89, Metropolitan State College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**John Albert Rhody, Ogema, Wis.**

B.S.B. '78, University of Minnesota. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**John M. Ries, Shoreview**

B.S. '78, St. John's University. Degree: Master of Business Taxation, April '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

**Rachel Tate Riggs, Newton, Mass.**

B.M. '90, Eastman School of Music. Degree: Master of Music, June '92. Major: Music. Major Adviser: Roland Vamos

**Carlisa Jose Rivamonte, St. Paul**

Degree: Master of Fine Arts, September '92. Major: Studio Arts. Minor: Related Fields. Major Adviser: Thomas R. Cowette

**Donald Loudon Roche, Minneapolis**

B.A. '72, University of Minnesota. Degree: Master of Fine Arts, June '92. Major: Studio Arts. Minor: Related Fields. Major Adviser: Wayne E. Potratz

**Susan Lynn Rode, Santa Barbara, Calif.**

B.A. '90, University of California. Degree: Master of Social Work, August '92. Major: Social Work. Major Adviser: Oliver J. Williams

**Mark D. Roffers, Milwaukee, Wis.**

B.A. '90, University of Wisconsin. Degree: Master of Planning, June '92. Major: Planning. Major Adviser: Richard S. Bolan

**Steven Paul Rohde, Hartford, Wis.**

B.S. '86, University of Wisconsin. Degree: Master of Fine Arts, July '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Martin B. Gwinup

**Keith Robert Rose, Minneapolis**

B.S.B.A. cum laude '83, Bucknell University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Jean Marie Roskam, Edina**

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

**James Paul Ross, Calumet**

B.S.E.E. '84, University of North Dakota. Degree: Master of Electrical Engineering, April '92. Major: Electrical Engineering. Minor: Related Fields. Project: Digital Signal Conditioning for Sensors. Major Adviser: K. S. P. Kumar

**Kenneth Lee Rouse, Milwaukee, Wis.**

B.S.E.E. '88, Marquette University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**William A. Ruhr, Woodbury**

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**Carol E. Rundle, LaCrosse, Wis.**

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**Jerome John Ryan, Minneapolis**

B.A. '88, University of Minnesota. Degree: Master of Architecture, August '92. Major: Architecture. Thesis: A Garden of Earthly Delights. Major Adviser: John G. Rauma

**Paul Eric Ryan, Manitowoc, Wis.**

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

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B.A. '75, B.I.S. '90, University of Minnesota. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Irl E. Carter

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B.A. '76, University of Minnesota. Degree: Master of Architecture, July '92. Major: Architecture. Thesis: A Consolidated Music Building for the University of Minnesota School of Music. Major Adviser: Roger D. Clemence

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**Paul William Schlumberger**

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**Linda Katherine Schwalen, Minneapolis**

B.S. '65, B.F.A. '87, University of Minnesota. Degree: Master of Fine Arts, June '92. Major: Studio Arts. Minor: Related Fields. Major Adviser: M. Diane Katsiaficas

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**Bradley L. Simenson, Ham Lake**

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B.A. cum laude '91, University of Minnesota. Degree: Master of Architecture, July '92. Major: Architecture. Thesis: The Chicago Hindu Crematorium and Funerary Complex. Major Adviser: Julia Robinson

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B.S. '87, University of Colorado. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Shabir Mohamed Somani, Minneapolis**

B.S. '77, University of Wisconsin. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Laurel M. Sorlie, Fergus Falls**

B.S.B.A. '61, M.S. '69, University of North Dakota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Robert Charles Soukup, Wayzata**

B.A. '90, University of Wisconsin. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Lawrence Paul Spilberg, Los Angeles, Calif.**

B.A. '80, University of California. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Gerald Joseph Stahl, Detroit, Mich.**

B.A. '68, St. John's University. Degree: Master of Music, July '92. Major: Music. Major Adviser: Thomas S. Lancaster

**Randy Thomas Starkweather, Eden Prairie**

B.A. '82, University of Northern Iowa. Degree: Master of Business Administration, September '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Eric Walter Starr, Minneapolis**

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

**Jonathan H. Stechmann, Minneapolis**

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

**Gregory James Stenmoe, Woodbury**

B.A. '77, University of Minnesota; J.D. '81, William Mitchell College of Law. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Alan Matthew Stricker**

B.A.E.M. '85, University of Minnesota. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Thomas Alan Stroh**

B.A. '86, University of Northern Iowa. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Gary Ryan Stroick, Minneapolis**

B.S. '77, M.S. '80, University of Wisconsin. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Eric W. Stults**

A.B. '80, Dartmouth College. Degree: Master of Planning, June '92. Major: Planning. Major Adviser: Barbara L. Lukermann

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**Aurolyn Renee Stwyer, Warm Springs, Ore.**

B.S. '90, Marylhurst College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Thomas Yougho Suk, Flossmoor, Ill.**

B.A. '88, Carleton College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Patrick J. Sullivan, Melrose**

B.A. '88, University of St. Thomas. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Nat Jorn Suwarnasarn, Woodbury**

B.A. '78, University of Kansas; Ph.D. '83, University of North Dakota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Chi Ping Sze, Hong Kong**

B.Comp.S. with distinction '83, M.S. '85, University of Minnesota. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Virginia Marie Tackett**

B.S. magna cum laude '87, Bemidji State University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Judith Ann Lennander Tande, Minnetonka**

B.A. '72, Macalester College. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Jane F. Gilgun

**Francis S. Tautin, LaCrosse, Wis.**

D.D.S. '67, University of Detroit. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Sandra Ann Thalmann, St. Louis Park**

B.A. '80, University of Iowa. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Sara M. Taber

**Carol Ann Thies, Burnsville**

B.S. '91, Cardinal Stritch College. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Scott Dean Thompson, Fillmore, N.D.**

B.S. '85, Valley City State University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Timothy Thomas Thompson, Edina**

B.S. '90, Pepperdine University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Todd Thorsen, Brooklyn Park**

B.A. '81, Augsburg College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Jonathon Jay Thull, Lucan**

B.A. '85, College of St. Thomas. Degree: Master of Music, July '92. Major: Music. Major Adviser: Thomas S. Lancaster

**Brent Alan Thureen**

B.A. '85, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Terry Lynne Tilsen**

B.S. '72, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**David Charles Timmer, Minneapolis**

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

**Todd Edward Torvinen, Duluth**

B.Acct. '84, University of Minnesota. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Penny Lynne Turner, Minnetonka**

B.S.B.A. '90, University of Denver. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**William Franklin Ubbes, Cincinnati, Ohio**

B.S.E. '79, University of Michigan. Degree: Master of Geo-Engineering, July '92. Major: Geo-Engineering. Minor: Related Fields. Thesis: Design and Analysis of a Block Flatjack Test Series. Major Adviser: Charles Fairhurst

**Warren David Vala, Minneapolis**

B.S. with distinction '84, Iowa State University of Science and Technology. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Steven G. Valerius, Osseo**

B.S. summa cum laude '86, Mankato State University. Degree: Master of Business Taxation, April '92. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

**Nancy Lynn Van Gieson, Alder Creek, N.Y.**

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

**Paula Liberg Varin, Minneapolis**

B.S. '87, University of Minnesota. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Betty Lou Vaughan-Myers, Brooklyn Center**

B.S. '90, Augsburg College. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Jean K. Quam

**Frederick Thomas Ventura, Minneapolis**

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

**Timothy Allen Vieburg, Minneapolis**

B.S. '90, University of Wisconsin. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Mary Ellen Vietor, Minneapolis**

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

**Cristina Vogeler, Caracas, Venezuela**

B.S. summa cum laude '83, B.A. magna cum laude '83, Boston University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Jacqueline Vuillier-Devillers**

D.E.C.F. '89, French Ministry of Education. Degree: Master of Business Administration, April '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Reed Martin Wahlberg, Crystal**

B.A. '76, St. Olaf College; B.S. '81, University of Minnesota. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Lon Howard Waldinger, Maple Grove**

B.S. '77, University of Wisconsin. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Melanie Jane Warm-Ostroot, Eden Prairie**

B.A. '87, College of St. Catherine. Degree: Master of Social Work, September '92. Major: Social Work. Major Adviser: Jane F. Gilgun

**Linda Diane Plzak Wee, Granite Falls**

B.A. cum laude '88, Southwest State University. Degree: Master of Social Work, July '92. Major: Social Work. Major Adviser: Nancy M. Abramson

**Laura Ann Weikert**

B.S. '84, University of Colorado. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Susan J. Wein, Aberdeen, S.D.**

B.S. '76, University of South Dakota; M.S.Ed. '88, Northern State University. Degree: Master of Social Work, August '92. Major: Social Work. Major Adviser: Mark S. Umbreit

**Sara Rothholz Weiner, Brooklyn, New York**

B.A. '79, Antioch College; B.A. '87, University of Minnesota. Degree: Master of Architecture, July '92. Major: Architecture. Thesis: Gathering Site and Reflecting Discovered Cosmologies in Design at Gateway National Park, Riis Park Division, Rockaway Park, New York. Major Adviser: John G. Rauma

**Ann Marie Weingart, Paradise Valley, Ariz.**

B.S.B.A. '91, University of Denver. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Robert Thomas Weisbecker, La Crosse, Wis.**

B.S. '88, University of Wisconsin. Degree: Master of Business Administration, July '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Frank Jay Wells, Robinson, N.D.**

B.A. '82, Jamestown College. Degree: Master of Music, July '92. Major: Music. Major Adviser: Thomas S. Lancaster

**Debra Taphorn Wessel, St. Louis Park**

B.S. '86, Moorhead State University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Susan M. Wessin, Fountain City, Wis.**

B.S. '87, University of Wisconsin. Degree: Master of Social Work, April '92. Major: Social Work. Major Adviser: Jean K. Quam

**Douglas Jay Westendorp, Edina**

B.F.A. summa cum laude '89, University of Minnesota. Degree: Master of Fine Arts, July '92. Major: Studio Arts. Minor: Related Fields. Major Adviser: Victor Caglioti

**Richard Wells Westgard, St. Paul**

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

**Mitzi Sue Westra, Sioux Falls, S.D.**

B.A. magna cum laude '86, Augustana College. Degree: Master of Music, June '92. Major: Music. Major Adviser: Lawrence Weller

**Patrick Joseph Wethington, St. Paul**

B.A. magna cum laude '90, Clemson University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Cynthia Crystal White, Minneapolis**

B.S. '86, Mankato State University. Degree: Master of Social Work, July '92. Major: Social Work. Major Adviser: Ronald H. Rooney

**Laurie Lynn White**

B.M. '90, Oberlin College. Degree: Master of Music, July '92. Major: Music. Major Adviser: Almita Vamos

**Robin Ruth Whitebird, Minneapolis**

B.S. '89, Augsburg College. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Helen Q. Kivnick

**Catherine Morgan Wicks, Rochester**

A.B. with distinction '88, Stanford University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Judith Louise Widrig, Syracuse, N.Y.**

B.M. '90, University of Hartford. Degree: Master of Music, September '92. Major: Music. Major Adviser: Lydia Artymiw

**Randall James Williamson, Minneapolis**

B.A. '85, Lake Forest College. Degree: Master of Business Administration, August '92. Major: Business Administration. Major Adviser: Donald R. Bell

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**Kathleen Elizabeth Wirtz, St. Paul**

B.A. '81, College of St. Catherine. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Mark S. Umbreit

**David Michael Wise, Hudsonville, Mich.**

B.S.E.E. '85, Michigan Technological University. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Elayne Berman Wolfenson**

B.F.A. summa cum laude '87, University of Minnesota. Degree: Master of Fine Arts, June '92. Major: Studio Arts. Minor: Related Fields. Major Adviser: M. Diane Katsiaticas

**Sheila D. Wolk, Minneapolis**

B.F.A. '72, University of Minnesota. Degree: Master of Music, September '92. Major: Music. Major Adviser: Everett L. Sutton

**David Ross Woodley, Edina**

B.Ch.Eng. '83, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Ok-Ryung Yang, Daegu, Kyung Book, Korea**

B.Mus. '82, Ewha Womans University; M.Mus. '85, Mokwan Methodist University. Degree: Master of Music, September '92. Major: Music. Major Adviser: Dean W. Billmeyer

**Mark Anthony Yelich, Brooklyn Center**

B.S. '82, B.S. '85, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Claire Elisabeth Young, Edina**

B.B.A. cum laude '91, Saint Mary's College. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Pamela Jackson Young, Edina**

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

**Ye Yu**

Bachelor '82, Sichuan Conservatory of Music. Degree: Master of Music, August '92. Major: Music. Major Adviser: John E. Anderson

**Kent James Zehrer, New Hope**

B.M.E. '84, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Debra Kay Mickelson Zellar**

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

**Steven Philip Zeller, Victoria**

B.M.E. '82, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Dwayne Richard Zona, Edina**

B.S.B. '89, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

**Spiros George Zorbalas**

B.A. magna cum laude '89, University of Minnesota. Degree: Master of Business Administration, June '92. Major: Business Administration. Major Adviser: Donald R. Bell

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*Professional Master's Degrees***University of Minnesota, Duluth****Gary A. Battuello, Duluth**

B.S. magna cum laude '83, University of Wisconsin. Degree: Master of Business Administration, August '92. Major: Business Administration. Major Adviser: Donald N. Steinnes

**Jill Muir Falls, Duluth**

B.S. '88, University of Wisconsin. Degree: Master of Social Work, July '92. Major: Social Work. Major Adviser: Dennis R. Falk

**Urslynn Ann Hardesty, Duluth**

B.A. '75, University of Minnesota. Degree: Master of Social Work, May '92. Major: Social Work. Major Adviser: Joyce M. Kramer

**Richard William Johnson, Duluth**

B.A. '89, University of Minnesota. Degree: Master of Social Work, June '92. Major: Social Work. Major Adviser: Dennis R. Falk

**Ivan Manev Manev, Plovdiv, Bulgaria**

Diploma '87, Higher Institute of Economics. Degree: Master of Business Administration, August '92. Major: Business Administration. Major Adviser: Kjell R. Knudsen

**Janet Elizabeth Sletner, St. Paul**

B.S. '89, University of Minnesota. Degree: Master of Social Work, August '92. Major: Social Work. Major Adviser: Joyce M. Kramer

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**Donald Wayne Stellmaker, Duluth**  
B.S. magna cum laude '79, University of Minnesota.  
Degree: Master of Business Administration. May '92.  
Major: Business Administration. Major Adviser: Jerrold  
M. Peterson

**Carol Agnes Yeager, Duluth**  
B.A. '64, St. Olaf College. Degree: Master of Business  
Administration, August '92. Major: Business  
Administration. Major Adviser: Kjell R. Knudsen

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### *Master of Science*

**Fredrick G. Adams**  
B.A. '78, North Park College. Degree: Master of  
Science, August '92. Major: Environmental Health.  
Minor: Related Fields. Major Adviser: Jeffrey B. Stevens

**Joyce Addo, Accra, Ghana**  
B.D.S. '87, University of Ghana. Degree: Master of  
Science, August '92. Major: Dentistry. Minor: Related  
Fields. Thesis: Comparison of Bonding Agents  
Effectiveness in Combating Salivary Disruption of the  
Sealant-Enamel Bond: A Microleakage Study. Major  
Adviser: Robert J. Feigal

**Vijay Agrawal, Jaipur, Rajasthan, India**  
B.Tech. '90, Banaras Hindu University. Degree: Master  
of Science, June '92. Major: Materials Science and  
Engineering. Minor: Related Fields. Thesis: Initial Stages  
of Epitaxial Growth of Dysprosium Barium Copper Oxide  
Films on Strontium Titanate Substrates. Major Adviser:  
Martha L. Mecartney

**Alejandro M. Aguirre-Gaudiano, Mexico City,  
Mexico**  
Cirujano Dentista '89, Universidad Nacional Autonoma  
de Mexico. Degree: Master of Science, May '92. Major:  
Dentistry. Minor: Related Fields. Thesis: The Effect of  
Using Ultrasonics on Sealer Distribution and Sealing of  
Root Canals. Major Adviser: Kenneth M. Hargreaves

**Irshad Ali, Pakistan**  
B.Sc.Ag. '70 University of Peshawar; M.Sc.Ag. '83,  
N.W.F.P. Agricultural University. Degree: Master of  
Science, April '92. Major: Plant Pathology. Minor:  
Related Fields. Thesis: Resistance to Unique Wheat Leaf  
Rust Cultures. Major Adviser: Alan P. Roelfs

**Md Murtaza Ali, Dhaka, Bangladesh**  
B.Sc.Eng '90, Bangladesh University of Engineering and  
Technology, Dhaka. Degree: Master of Science in  
Electrical Engineering, July '92. Major: Electrical  
Engineering. Minor: Related Fields. Thesis: Modeling of  
Signals by Multiscale Difference Equation. Major  
Adviser: Ahmed H. Tewfik

**Lori Ann Allums, Plymouth**  
B.S.N. with honor '82, University of Tulsa. Degree:  
Master of Science, June '92. Major: Nursing. Minor:  
Related Fields. Major Adviser: Ruth D. Lindquist

**Sujata Arora, New Brighton**  
B.A. magna cum laude '90, St. Olaf College. Degree:  
Master of Science, August '92. Major: Statistics. Minor:  
Related Fields. Major Adviser: Sanford Weisberg

**Mark William Arriola, St. Paul**  
B.S. '86, Westminster College. Degree: Master of  
Science, September '92. Major: Chemistry. Minor:  
Related Fields. Thesis: Synthesis of Acetylcholine  
Analogues. Major Adviser: Michael A. Raftery

**Supaporn Auychai, Bangkok, Thailand**  
D.D.S. '87, Chulalongkorn University. Degree: Master of  
Science, August '92. Major: Dentistry. Minor: Related  
Fields. Thesis: Comparison of Cytotoxicity Between a  
Chemical Cured and a Light Cured Glass Ionomer  
Cement. Major Adviser: Robert J. Feigal

**Colleen Marie Baggot, Madison, Wis.**  
B.S. with distinction '86, University of Wisconsin.  
Degree: Master of Science, June '92. Major: Wildlife  
Conservation. Minor: Related Fields. Thesis:  
Reproductive Ecology of Kittiwakes on Buldir Island,  
Alaska. Major Adviser: Donald B. Siniff

**Godfrey Bones Bahiigwa**  
B.Sc.Ag. '89, Makerere University. Degree: Master of  
Science, September '92. Major: Agricultural and Applied  
Economics. Minor: Related Fields. Major Adviser: Terry  
L. Roe

**Marina Elizabeth Bahmer, St. Cloud**  
B.S.N. with distinction '81, University of Minnesota.  
Degree: Master of Science, June '92. Major: Nursing.  
Minor: Related Fields. Major Adviser: Patricia Crisham

**Dorothy Moen Baker, Eagan**  
B.S. high distinction '71, University of Minnesota.  
Degree: Master of Science, February '89. Major:  
Nursing. Minor: Related Fields. Major Adviser: Muriel B.  
Ryden

**Mahrokh Baniani, Tehran, Iran**  
Diploma '79, Tehran Polytechnic University. Degree:  
Master of Science in Industrial Engineering, July '92.  
Major: Industrial Engineering. Minor: Related Fields.  
Major Adviser: Patrick J. Starr

**Greg Banks, Saint Paul**  
B.A. '80, Macalester College. Degree: Master of  
Science, June '92. Major: Forestry. Minor: Related  
Fields. Major Adviser: Kenneth N. Brooks

**Cary Lee Bates, Rochester**  
B.S. '84, Bemidji State University. Degree: Master of  
Science, July '92. Major: Computer and Information  
Sciences. Minor: Related Fields. Major Adviser: Shashi  
Shekhar

**Margaret Jo Baxter, Virginia**

B.A. cum laude '84, College of St. Scholastica. Degree: Master of Science, September '92. Major: Entomology. Minor: Neuroscience. Major Adviser: Karen A. Mesce

**Stephan Michael Becker, Plainview**

B.Ag.E. '90, University of Minnesota. Degree: Master of Science in Agricultural Engineering, April '92. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Hydraulics of Aluminum Structural Plate Drop Structures. Major Adviser: George R. Foster

**Troy Allan Becker, Apple Valley**

B.S. '90, University of Minnesota. Degree: Master of Science, June '92. Major: Genetics. Minor: Related Fields. Major Adviser: Bonnie S. Leroy

**Daniel Carl Bejune, Worcester, Mass.**

B.S. '90, Worcester Polytechnic Institute. Degree: Master of Science in Mechanical Engineering, June '92. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Arthur G. Erdman

**Hugo Andres Belalcazar**

B.E.E. '88, University of Minnesota. Degree: Master of Science, July '92. Major: Biomedical Engineering. Minor: Related Fields. Thesis: A Low Cost ECG Monitoring and Fitness Evaluation System. Major Adviser: James E. Holte

**Janet Lynn Bellinger, Hudson, Wis.**

B.Comp.Sc. '79, University of Minnesota. Degree: Master of Science, July '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Carrie Beth Berge, Scandia**

B.A. '83, Gustavus Adolphus College. Degree: Master of Science, August '92. Major: Food Science. Minor: Related Fields. Thesis: Vitamin A Stability in Low Fat Milks. Major Adviser: David E. Smith

**Erik Owen Berger, Wayzata**

B.S.E.E. '83, Massachusetts Institute of Technology. Degree: Master of Science in Electrical Engineering, July '92. Major: Electrical Engineering. Minor: Physics. Major Adviser: Dennis L. Polla

**Terriel Bennett Berggren, St. Paul**

B.A. magna cum laude '81, University of Minnesota. Degree: Master of Science, July '92. Major: Cell and Developmental Biology. Minor: Biochemistry. Major Adviser: Jeffrey L. Platt

**Kurt David Bergquist, Minneapolis**

B.E.E. with distinction '86, University of Minnesota. Degree: Master of Science in Electrical Engineering, June '92. Major: Electrical Engineering. Minor: Physics. Major Adviser: James E. Holte

**Debra Lynn Bermel**

B.S. '79, Mankato State University. Degree: Master of Science, April '92. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

**Yosef Bitton**

B.S.E.E. with honors '87, University of Texas. Degree: Master of Science in Electrical Engineering, August '92. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Richard Y. Kain

**Kristin Marie Blasko**

B.A. '85, College of St. Catherine. Degree: Master of Science, May '92. Major: Nursing. Minor: Related Fields. Major Adviser: Sandra R. Edwardson

**Laura Morais Borem, Itaguara, Minas Gerais, Brazil**

Cirurgino-Dentista '83, Universidade Federal de Minas Gerais. Degree: Master of Science, August '92. Major: Dentistry. Minor: Related Fields. Thesis: The Effect of an Intermediate Bonding Agent on Microleakage of Sealant Bonded to Moisture Contaminated Enamel Surface. Major Adviser: Robert J. Feigal

**Terri Alice Born, Jordan**

B.S. with distinction '88, University of Minnesota. Degree: Master of Science, May '92. Major: Food Science. Minor: Related Fields. Thesis: Properties and Interactions of Vital Wheat Gluten in a Model Dough System. Major Adviser: Elaine H. Asp

**Reid Krippner Bornhoft, Crookston**

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, April '92. Major: Electrical Engineering. Minor: Statistics. Major Adviser: Mostafa Kaveh

**Amit Atindra Bose, Bombay, Maharashtra, India**

B.Eng. '90, Shivaji University. Degree: Master of Science, July '92. Major: Biomedical Engineering. Minor: Electrical Engineering. Major Adviser: Stanley M. Finkelstein

**Carl Philip Bostrom, Hawthorne, N.J.**

B.S. with highest honors '88, Rutgers University. Degree: Master of Science, September '92. Major: Mathematics. Minor: Related Fields. Major Adviser: Paul B. Garrett

**Mourad Bouhaja**

B.C.E. '90, University of Minnesota. Degree: Master of Science in Civil Engineering, July '92. Major: Civil Engineering. Minor: Mathematics. Major Adviser: David E. Newcomb

**Tambra Lynn Breyer**

B.S. '86, University of Wisconsin. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Mark Edward Brigham, Minneapolis**

B.A. '88, University of Minnesota. Degree: Master of Science in Civil Engineering, April '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Accumulation of Mercury in Minnesota, Alaska, and Wisconsin Lakes. Major Adviser: Patrick L. Brezonik

**Timothy Paul Brown, Minneapolis**

B.Geo.E. with high distinction '90, B.S.Geo.E. with high distinction '90, University of Minnesota. Degree: Master of Science in Civil Engineering, May '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Stochastic Analytic Elements for Groundwater Modeling. Major Adviser: Randal J. Barnes

**Rachel Ann Budelsky, Carbondale, Ill.**

B.A. '86, Southern Illinois University. Degree: Master of Science, June '92. Major: Ecology. Minor: Related Fields. Thesis: Underwater Behavior and Vocalizations of the Bearded Seal (*Erignathus barbatus*), off Point Barrow, Alaska. Major Adviser: Donald B. Siniff

**Joseph Richard Bumblis, Fairport Harbor, Ohio**

B.S.E.E. '78, Ohio University. Degree: Master of Science, July '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**James Sheldon Busse, Randolph, Wis.**

B.S. '89, University of Wisconsin. Degree: Master of Science, May '92. Major: Horticulture. Minor: Related Fields. Thesis: Investigations on the Rooting Ability of *Aesculus* sp. "Autumn Splendor" Softwood Cuttings. Major Advisers: Harold M. Pellett and Wesley P. Hackett

**Man-Ping Cai, Xian, Shannxi, China**

B.S. '82, Shanxi Mechanical Institute; M.S. '88, Xian Jiaotong University. Degree: Master of Science in Electrical Engineering, July '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: E. Bruce Lee

**Kathy Lynn Carlson, Minneapolis**

B.S. with honors '85, University of Wisconsin. Degree: Master of Science, July '92. Major: Chemistry. Minor: Biochemistry. Thesis: Microbore High-Performance Liquid Chromatographic Analysis of Cyclosporine from Blood, Bile, and Tissue. Major Advisers: Larry D. Bowers and Marian Stankovich

**Lisa Jo Cawiezell, Muscatine, Iowa**

B.S.N. '84, Northeast Missouri State University. Degree: Master of Science, April '92. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

**Rosanna Kyomi Chambliss, Waverly**

B.M.E. '85, University of Minnesota. Degree: Master of Science in Mechanical Engineering, July '92. Major: Mechanical Engineering. Minor: Industrial Engineering. Thesis: Application of the Elastica for Sustaining a Gravitationally-Induced Load. Major Adviser: Darrell A. Frohrib

**Barbara Elizabeth Champlin**

B.A. '80, Gustavus Adolphus College. Degree: Master of Science, June '92. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

**Simon Yat-Kwong Chan**

B.Med. '83, M.S. '87, China Medical College. Degree: Master of Science, July '92. Major: Health Informatics. Minor: Related Fields. Major Adviser: Stanley M. Finkelstein

**Seung-Eae Chen, Korea**

B.S. '82, Inha University. Degree: Master of Science in Mechanical Engineering, July '92. Major: Mechanical Engineering. Minor: Aerospace Engineering. Thesis: The Effect of Fin Shapes on the Mass Transfer and Pressure Drop of the Staggered Array of Short Pin-Fins. Major Adviser: Richard J. Goldstein

**Lan Chiang, Taipei, Taiwan**

B.S. '87, National Taiwan University. Degree: Master of Science, May '92. Major: Genetics. Minor: Related Fields. Thesis: Characterization of Chicken Endogenous Retrovirus EV6. Major Adviser: Kathleen F. Conklin

**Tip-ar-pa Chitasombat, Bangkok, Thailand.**

Diploma in Nursing '79, Phra-Pok-Kloa College of Nursing. Degree: Master of Science, June '92. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

**Lan-Ping Chu**

B.S.Med.Tech. '87, National Taiwan University. Degree: Master of Science, August '92. Major: Clinical Laboratory Science. Minor: Related Fields. Thesis: Nucleotide Sequence and Methylation Analysis of a Deoxyguanosine/Deoxycytosine-Rich Region of the SCL/TAL Gene on Human Chromosome Number 1. Major Adviser: James M. Greenberg

**Wendy E. Clark**

B.A. magna cum laude '85, Knox College. Degree: Master of Science, May '92. Major: Ecology. Minor: Related Fields. Thesis: A Spatial Simulation Model of a Minnesota Black Bear Population. Major Advisers: John R. Tester and Anthony M. Starfield

**Sean Philip Clarke**

B.A magna cum laude '79, Macalester College. Degree: Master of Science, May '92. Major: Food Science. Minor: Related Fields. Major Adviser: William M. Breene

**Paul Patrick Commins, Bethesda, Md.**

B.A. '86, Grinnell College. Degree: Master of Science, June '92. Major: Statistics. Minor: Related Fields. Major Adviser: Douglas M. Hawkins

**Brendan Mead Conner, Chicago, Ill.**

B.S. '85, University of Illinois. Degree: Master of Science, July '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Zhiyuan Li

**Mark H. Corpron, Chanhassen**

B.M.E. with distinction '90, University of Minnesota. Degree: Master of Science in Mechanical Engineering, August '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Design and Characterization of a Ventilation Chamber. Major Advisers: Thomas H. Kuehn and James W. Ramsey

**Wendy Jean Crowell**

B.A. cum laude '86, Hunter College. Degree: Master of Science, May '92. Major: Forestry. Minor: Water Resources. Thesis: The Effects of Harvesting on the Growth and Distribution of Eurasian Watermilfoil and the use of GIS to Monitor and Manage Populations in Lake Minnetonka, MN. Major Adviser: James A. Perry

**Branko Djordje Damjanac, Belgrade, Yugoslavia**  
Diploma '84, Belgrade University. Degree: Master of Science, September '92. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Charles Fairhurst

**Thomas Edward Daniel, Rockville, Md.**  
B.S. '89, Virginia Polytechnic Institute & State University. Degree: Master of Science in Mechanical Engineering, August '92. Major: Mechanical Engineering. Minor: Biomedical Engineering. Thesis: An Experimentally Verified Finite Element Model of a Canine Intervertebral Motion Segment. Major Adviser: Jack L. Lewis

**Douglas Wayne Davis, Ponca City, Okla.**  
B.S. '89, Oklahoma State University. Degree: Master of Science, July '92. Major: Plant Breeding. Minor: Related Fields. Thesis: Characterization of Oat Haploids and Their Progeny. Major Adviser: Howard W. Rines

**David Louis DeKoeper, London, Ontario, Canada**  
B.Sc. '89, University of Guelph. Degree: Master of Science, June '92. Major: Plant Breeding. Minor: Related Fields. Thesis: Effects of Recurrent Selection for Grain Yield on Oat Kernel Morphology. Major Adviser: Deon D. Stuthman

**Walter Ross Denman III**  
B.S.M.E. '82, University of Colorado. Degree: Master of Science, August '92. Major: Environmental Health. Minor: Related Fields. Major Adviser: Ian A. Greaves

**William David Dick, Waukesha, Wis.**  
B.Math. with distinction '87, University of Minnesota. Degree: Master of Science in Mechanical Engineering, August '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Size and Composition-Dependent Response of the DAWN-A Multiangle Single-Particle Optical Detector. Major Adviser: Peter H. McMurry

**Joseph Edward Dohar, Youngstown, Ohio**  
B.A. '83, Ohio State University; M.D. '83, Ohio State University. Degree: Master of Science in Otolaryngology, June '92. Major: Otolaryngology. Minor: Related Fields. Thesis: The Effects of Inhalational Anesthetic Agents on Survival in a Pig Random Skin-Flap Model. Major Advisers: George S. Goding, Jr. and Robert H. Maisel

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B.E.E. with distinction '89, University of Minnesota. Degree: Master of Science in Electrical Engineering, July '92. Major: Electrical Engineering. Minor: Physics. Major Adviser: Marshall I. Nathan

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B.S. '78, Regis College; M.S.E.E. '80, University of Notre Dame. Degree: Master of Science, July '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

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B.S. '82, College of St. Francis. Degree: Master of Science, July '92. Major: Nursing. Minor: Related Fields. Major Adviser: Sandra R. Edwardson

**Annabelle Eloise Ong Dy**  
D.D.M. '86, Centro Escolar University. Degree: Master of Science, August '92. Major: Dentistry. Minor: Related Fields. Thesis: A Long Term Study on the Stability of Transpalatal Arch Expansions. Major Adviser: Thomas M. Speidel

**Cathy Ann Dybiec, St. Paul**  
B.S. '90, University of Minnesota. Degree: Master of Science, May '92. Major: Forestry. Minor: Related Fields. Thesis: Effects of Training on Job Performance of Outdoor Recreation Professionals. Major Adviser: Dorothy H. Anderson

**Susan Marie Ellenbecker, Fridley**  
B.S.N. '90, University of North Dakota. Degree: Master of Science, June '92. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

**Jeffrey L. Emmel**  
B.S. '78, South Dakota State University. Degree: Master of Science, April '92. Major: Forestry. Minor: Related Fields. Major Adviser: David W. Lime

**Katherine Louise Empson, Eden Prairie**  
B.S. '84, University of Minnesota. Degree: Master of Science, June '92. Major: Food Science. Minor: Related Fields. Thesis: Phytic Acid: A Natural Food Antioxidant. Major Adviser: Theodore P. Labuza

**James Kenneth Engstrom**  
B.S. '82, University of Minnesota. Degree: Master of Science, May '92. Major: Forestry. Minor: Related Fields. Thesis: Analysis of the Size and Shape of Areas of Forest Ingrowth into Grasslands at Cedar Creek Natural History Area from 1938-1977. Major Adviser: David F. Grigal

**Allan Kenneth Evans, Harlow, Essex, England**  
B.A. '91, University of Cambridge. Degree: Master of Science, September '92. Major: Physics. Minor: Related Fields. Major Adviser: Leonid Glazman

**Mark David Fairbrother, Minneapolis**  
B.Geo.E. '88, University of Minnesota. Degree: Master of Science, September '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Numerical Solution to the Hyperbolic Differential Equation for Moving Front Dispersion with Rate-Limiting Sorption and Decay: A Method of Characteristics Approach. Major Adviser: Otto D. L. Strack

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B.S.E.E. with high honor '81, Michigan Technical University. Degree: Master of Science in Electrical Engineering, April '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Larry L. Kinney

**Elizabeth Leonila Fasola**  
M.D. '80, Universidad de Chile. Degree: Master of Science, June '92. Major: Clinical Laboratory Science. Minor: Related Fields. Thesis: Beta-Lactam Antibiotic Binding to Penicillin-Binding Proteins Correlated with in vivo Activity Against Methicillin Resistant Staphylococcus aureus (MRSA). Major Adviser: Lance R. Peterson

**Marlan Ray Fender, Carbondale, Colo.**

B.S. '79, D.V.M. '82, Colorado State University. Degree: Master of Science, July '92. Major: Veterinary Pathology. Minor: Related Fields. Major Adviser: Mary M. Walser

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B.S. with distinction and high honors '83, University of Wisconsin. Degree: Master of Science in Civil Engineering, July '92. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Walter J. Maier

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B.A. cum laude '86, Augustana College. Degree: Master of Science, September '92. Major: Environmental Health. Minor: Related Fields. Major Adviser: William A. Toscano, Jr.

**Mark Laurence Ferrey, White Bear Lake**

B.S. cum laude '82, University of Minnesota. Degree: Master of Science, July '92. Major: Soil Science. Minor: Related Fields. Thesis: Nodulation Efficiency and Nodule Occupancy of Bradyrhizobium japonicum on Genotypes of Soybean that Restrict Nodulation by Particular Strains. Major Adviser: Peter H. Graham

**Beth Ann Foudriat, Minneapolis**

B.S. '79, St. Louis University. Degree: Master of Science, May '92. Major: Physical Therapy. Minor: Related Fields. Thesis: Development of Balance: Sensory Organization Responses in 3 to 6 Year Olds. Major Adviser: Richard P. Difabio

**Thomas Walter Frame, Coon Rapids**

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**Peter M. Gaertner, Minneapolis**

B.S. '90, Carnegie-Mellon University. Degree: Master of Science, May '92. Major: Computer and Information Sciences. Minor: Psychology. Major Adviser: Marvin L. Stein

**Toni Annette Goins, Olmsted, Ill.**

D.D.S. '90, University of Missouri. Degree: Master of Science, August '92. Major: Dentistry. Minor: Related Fields. Thesis: Analysis of Costs for Various Categories of Orthodontic Treatment. Major Adviser: Thomas M. Speidel

**William Ainsworth Gould, Minneapolis**

B.S. '88, University of Minnesota. Degree: Master of Science, June '92. Major: Plant Biological Sciences. Minor: Related Fields. Thesis: Macrolichens of the Coppermine, Hood, and Thomsen Rivers Northwest Territories, Canada. Major Adviser: Clifford M. Wetmore

**Lee Brian Graba, Minneapolis**

B.A.E.M. with distinction '83, University of Minnesota. Degree: Master of Science in Electrical Engineering, June '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Tryphon T. Georgiou

**Sheryl Lu Gregg, Richfield**

B.S. '80, University of Minnesota, M.S. '85, University of California. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Timothy Matthew Grundhoffer, Rapid City, S.D.**

B.C.E. '89, University of Minnesota. Degree: Master of Science in Civil Engineering, April '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Bond Behavior of Uncoated and Epoxy Coated Reinforcement in Concrete. Major Adviser: Catherine E. French

**Richard Philip Guillery, Mineapolis**

B.S. '85, University of Wisconsin. Degree: Master of Science, August '92. Major: Forestry. Minor: Related Fields. Major Adviser: Dietmar W. Rose

**Deborah Fay Hanson, Minneapolis**

B.S. '85, University of Minnesota. Degree: Master of Science, June '92. Major: Clinical Laboratory Science. Minor: Related Fields. Thesis: Interactions of Listeria monocytogenes with Mouse Peritoneal Macrophages and Cultured Epithelial Cells. Major Adviser: Carol L. Wells

**James Lewis Hanson, Cedarburg, Wis.**

B.S. '90, University of Wisconsin. Degree: Master of Science in Geo-Engineering, September '92. Major: Geo-Engineering. Minor: Related Fields. Thesis: Development of Direct Shear Apparatus for Granular Materials. Major Adviser: Andrzej Drescher

**Michael John Hardy, Minneapolis**

B.M. '80, University of Minnesota. Degree: Master of Science, June '92. Major: Statistics. Minor: Related Fields. Major Adviser: James M. Dickey

**Charles Joseph Hathaway, St. Paul**

B.A. magna cum laude '77, St. John's University. Degree: Master of Science in Civil Engineering, July '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Modeling Daphnia Populations in Wastewater Stabilization Ponds in Minnesota. Major Adviser: Heinz G. Stefan

**Ulrich Hausner**

Diplom '86, University of Bonn. Degree: Master of Science, May '92. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Harald Vonwitzke

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B.S. '82, Northland College. Degree: Master of Science, June '92. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Walter J. Maier

**Michael James Heideman, St. Paul**

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Science in Electrical Engineering, June '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Richard Y. Kain

**James S. Heintz, Plattsburgh, N.Y.**

B.S. '90, Cornell University. Degree: Master of Science, June '92. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: An Investigation into the Values Inherent in Social Discounting. Major Adviser: Richard A. Levins

**Susan C. Heitzman, Des Moines, Iowa**

B.S.N. '81, University of Iowa. Degree: Master of Science, April '92. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

**Robert Clark Hendrickson, St. Paul**

B.Phys. with distinction '89, University of Minnesota. Degree: Master of Science in Materials Science and Engineering, August '92. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: Monte Carlo Simulations of Cyclization and Substitution Effect in Stepwise Polymerization. Major Adviser: Christopher W. Macosko

**Andrea Michelle Herr, Minnesota**

B.A. '87, B.S. summa cum laude '87, North Carolina State University. Degree: Master of Science. May '92. Major: Conservation Biology. Minor: Related Fields. Thesis: Assessing Spatial Patterns of Greater Sandhill Crane Nesting Habitat Using GIS and Remote Sensing. Major Adviser: Francesca J. Cuthbert

**Elizabeth Kline Hill, St. Paul**

B.A. magna cum laude '76, Macalester College. Degree: Master of Science, August '92. Major: Plant Breeding. Minor: Related Fields. Thesis: Competitive Ability of Oat Genotypes with Giant and Green Foxtail. Major Adviser: Deon D. Stuthman

**David Wayne Hillman, Northwood, Iowa**

B.S magna cum laude '89, Winona State University. Degree: Master of Science, August '92. Major: Biostatistics. Minor: Related Fields. Major Adviser: James D. Neaton

**Audrey Marie Himes, Bloomington**

B.S.N. '87, University of Phoenix. Degree: Master of Science, July '92. Major: Nursing. Minor: Related Fields. Major Adviser: Patricia Crisham

**Richard Dale Hoffman, Omaha, Neb.**

B.S. cum laude '89, Creighton University. Degree: Master of Science, July '92. Major: Chemistry. Minor: Related Fields. Thesis: Catalytic Processes Involving a Novel Biruthenium Catalyst: Carbonylation, Dehydrogenation, Hydrogenation Reactions. Major Adviser: Wayne L. Gladfelder

**Renata G. Hoglund-Corbin, Spokane, Washington**

B.S. '85, Washington State University. Degree: Master of Science, June '92. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

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B.S. '72, Iowa State University of Science and Technology. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

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B.E.E. with distinction '79, University of Minnesota. Degree: Master of Science, May '92. Major: Statistics. Minor: Electrical Engineering. Major Adviser: F. Kinley Larntz

**John Michael Howard, White Bear Lake**

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, August '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Tryphon T. Georgiou

**Jasmina Hranisavljevic, Belgrade, Yugoslavia**

Diploma '89, University of Belgrade. Degree: Master of Science, August '92. Major: Chemistry. Minor: Related Fields. Thesis: Chemistry of Mixed-Metal-Gold Clusters with Isonitrile Ligands. Major Adviser: Louis H. Pignolet

**Li-Chung Huang, Taipei, Taiwan**

B.S.Ag. '87, National Taiwan University. Degree: Master of Science, April '92. Major: Microbial Engineering. Minor: Related Fields. Thesis: Kinetic Studies of Carrot Somatic Embryo Development in Fed-Batch Cultures. Major Adviser: Wei-Shou Hu

**Michael Louis Hull, Redford, Mich.**

B.S. '90, University of Michigan. Degree: Master of Science, June '92. Major: Biostatistics. Minor: Related Fields. Major Adviser: Patricia M. Grambsch

**Anak Iamaroon, Chiangmai, Thailand**

D.D.S. '87, Chulalongkorn University. Degree: Master of Science, July '92. Major: Dentistry. Minor: Related Fields. Thesis: Characterization of Oral Verruciform Xanthoma By in situ Hybridization and Immunohistochemistry. Major Adviser: Robert A. Vickers

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B.S. '83, Marquette University. Degree: Master of Science, July '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Kerry Christopher Imming, Rochester**

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Science in Electrical Engineering, May '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: William A. Plice

**I. Angus Sigurd Irvine, Little Bookham, United Kingdom**

Degree: Master of Science, September '92. Major: Fisheries. Minor: Related Fields. Thesis: Reproductive Biology of Common Carp (*Cyprinus carpio*) in Minnesota: Olfactory Sensitivity to Putative Sex Pheromones and Environmental Influences on Spawning. Major Adviser: Peter W. Sorensen

**Shahram Jamshidi**

B.E.E. magna cum laude '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, July '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Jay Moon

**Jonathan Arthur Jank**

B.S. '88, Valparaiso University. Degree: Master of Science in Electrical Engineering, May '92. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: David S. Lo

**Luis Filipe Jardim, Oeiras, Portugal**

Lic.Med.Dent. '88, University of Lisbon. Degree: Master of Science, August '92. Major: Dentistry. Minor: Related Fields. Thesis: A Comparative Study of Stability of Mandibular Advancement Surgery by Sagittal Split Osteotomy with Rigid and Wire Fixation. Major Adviser: Richard R. Bevis

**Curtis John Jevne, Crystal**

B.S. '85, University of Minnesota. Degree: Master of Science, July '92. Major: Animal Science. Minor: Related Fields. Thesis: Effect of Corn Texture, Barley, Enzyme, Pellets, and Grit on Performance of Large White Female Turkeys. Major Adviser: Paul E. Waibel

**Xiaohong Jia, Beijing, China**

Bachelor's '82, Beijing Agricultural University. Degree: Master of Science, August '92. Major: Nutrition. Minor: Related Fields. Thesis: The Metabolic Fate of Dietary Oxysterols in Hamster. Major Advisers: Craig A. Hassel and Paul B. Addis

**Steven Arnie Johnson, Thief River Falls**

B.M.E. '75, University of Minnesota. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Paul Edward Jorgensen, Minneapolis**

B.S. '89, St. Cloud State University. Degree: Master of Science in Electrical Engineering, April '92. Major: Electrical Engineering. Minor: Related Fields. Thesis: Choosing Discrete Orthogonal Wavelets for Signal Analysis and Approximation. Major Adviser: Ahmed H. Tewfik

**Georgii Kamennov**

Diploma '82, Institute of Mechanical Engineering N.E. Bauman. Degree: Master of Science, September '92. Major: Geo-Engineering. Minor: Related Fields. Thesis: Estimation of Groundwater Upwelling in the Vicinity of a Normal Fault Due to an Extreme Seismic Event. Major Adviser: Charles Fairhurst

**Zena Kassa**

Diploma '86, Kharkov Agricultural Institute. Degree: Master of Science, June '92. Major: Soil Science. Minor: Related Fields. Thesis: Pore Water Pressure and Some Associated Mechanical Responses to Uniaxial Stress in Structured Agricultural Soils. Major Adviser: Raymond R. Allmaras

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B.Stat. '87, University of Minnesota. Degree: Master of Science, September '92. Major: Biostatistics. Minor: Related Fields. Major Adviser: William Thomas

**Patrick J. Keane, Rochester**

B.A. '80, Saint Mary's College. Degree: Master of Science, July '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

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B.A. magna cum laude '83, St. Cloud State University. Degree: Master of Science, August '92. Major: Food Science. Minor: Related Fields. Major Adviser: Edmund A. Zottola

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D.D.S. '87, University of Michigan. Degree: Master of Science, August '92. Major: Dentistry. Minor: Related Fields. Thesis: Settling of the Occlusion Following Orthodontic Treatment: A Comparison of Adults and Adolescents. Major Advisers: Gary C. Anderson and Richard R. Bevis

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B.S. '78, University of Santa Clara. Degree: Master of Science, September '92. Major: Plant Biological Sciences. Minor: Genetics. Major Adviser: David A. Somers

**Farchid Ketabchi, Astara, Iran**

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**Erny Kilis**

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**Wontae Kim, Korea**

B.S. '81, M.S. '83, Sung Kyun Kwon University. Degree: Master of Science, July '92. Major: Physics. Minor: Related Fields. Major Advisers: John S. Dahler and Clayton F. Giese

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B.S. with distinction '79, University of Minnesota. Degree: Master of Science, June '92. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Richard A. Levins

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B.S.E.E. cum laude '81, Marquette University. Degree: Master of Science, June '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Wei-Tek Tsai

**William Kou, Rochester**

B.S.E.E. with honors '88, Ohio State University. Degree: Master of Science in Electrical Engineering, September '92. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Constrained Topological Mapping for High-Dimensional Regression and Time-Series Prediction. Major Adviser: Vladimir Cherkassky

**Deborah Anne Kozak, Gillett, Wis.**

B.S. '89, Liberty University. Degree: Master of Science, July '92. Major: Physiology. Minor: Related Fields. Thesis: Development of a New Method for Microapplication of Drugs to Arterioles, in vivo. Major Adviser: David Mohrman

**Daniel G. Krueger Jr., Rhinelander, Wis.**

B.S. with highest distinction '88, University of Wisconsin. Degree: Master of Science, April '92. Major: Horticulture. Minor: Related Fields. Thesis: Effects of Radicle Clipping, Auxin, and Production Method on Root Morphology and Seedling Performance of Quercus rubra L. Major Adviser: Bert T. Swanson

**Srinivas Ramrao Kulkarni, Bangalore, India.**

B.E. '85, Bangalore University. Degree: Master of Science, May '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Jaideep Srivastava

**Ramanujachary Kumanduri, Hyderabad, India**

B.Tech '86, Indian Institute of Technology, Madras. Degree: Master of Science, July '92. Major: Mathematics. Minor: Related Fields. Major Adviser: Paul B. Garrett

**Kyran Edward Kunkel, Harrisburg, S.D.**

B.S.Bio.Sci. '87, South Dakota State University. Degree: Master of Science, May '92. Major: Wildlife. Minor: Related Fields. Thesis: Factors Affecting Wolf and Black Bear Predation on White-Tailed Deer Fawns in Northeastern Minnesota. Major Adviser: L. David Mech

**Su-Chen Kuo**

B.S '87, Kaohsiung Medical College: B.Ed. '74, National Taiwan College of Education. Degree: Master of Science, September '92. Major: Nursing. Minor: Related Fields. Major Adviser: Patricia S. Tomlinson

**Jane Teresa Kure, Virginia**

B.S. '86, University of Wisconsin. Degree: Master of Science, July '92. Major: Animal Physiology. Minor: Related Fields. Major Adviser: Bo G. Crabo

**Rita Ann Kuznia, Wells**

B.S. '80, University of Minnesota. Degree: Master of Science, April '92. Major: Plant Pathology. Minor: Related Fields. Thesis: Fungi Associated with White Lupins in Minnesota. Major Advisers: Richard A. Meronuck and Elwin L. Stewart

**Mark Dennis Lagerquist, Roseville**

B.A. magna cum laude '89, Carleton College. Degree: Master of Science in Electrical Engineering, June '92. Major: Electrical Engineering. Minor: Related Fields. Thesis: Scanning Force Microscopy: Operation and Application for Magnetic Imaging. Major Adviser: Jack H. Judy

**Janice Louise Larson, Hopkins**

B.S. with distinction '89, University of Minnesota. Degree: Master of Science, June '92. Major: Nutrition. Minor: Related Fields. Thesis: The Short Term Effect of Soluble and Insoluble Fibers on Sex Hormone Metabolism and Beta-Glucuronidase Activity in Healthy Men. Major Adviser: Mindy S. Kurzer

**Raymond Andre Larson, Eagan**

B.A. '62, St. Paul Seminary; M.A. '73, University of Minnesota. Degree: Master of Science, July '92. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: An Architecture for Explicit Representation of Cause and Function in Discrete Event Simulation Modeling. Major Adviser: James R. Slagle

**Chee Seng Lee**

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**Choungseop Lee, Korea**

B.A. '85, D.V.M. '88, Kyungpook National University. Degree: Master of Science, April '92. Major: Theriogenology. Minor: Related Fields. Thesis: Development of an ELISA Method to Detect Antisperm Antibodies in Equine Serum. Major Adviser: Harry W. Momont

**Jongsoo Lee, Seoul, Korea**

B.S. '88, M.S. '90, Yonsei University. Degree: Master of Science in Aerospace Engineering, June '92. Major: Aerospace Engineering. Minor: Related Fields. Thesis: Acoustics of Unsteady Transonic Flow. Major Adviser: Anastasios S. Lyrintzis

**Kyungjae Lee, Seoul, South Korea**

B.S. '83, M.S. '85, Ewha Womans University. Degree: Master of Science, June '92. Major: Nutrition. Minor: Biochemistry. Thesis: Hypocholesterolemic Effects of Hydroxypropyl Methylcellulose and Guar Gum of Different Viscosities in the Hamster. Major Adviser: Craig A. Hassel

**Clarence Leslie Lehman, Mound**

B.A. magna cum laude '67, University of Minnesota. Degree: Master of Science, June '92. Major: Ecology. Minor: Related Fields. Thesis: Phyllotaxis: Self-Shading and Optimal Leaf Placement in Plants. Major Adviser: G. David Tilman

**Henry Wai Keung Leung, Hong Kong**

B.S. '89, Colorado State College. Degree: Master of Science, August '92. Major: Biomedical Engineering. Minor: Related Fields. Thesis: Gradient-Guided Interpolation Technique for Digital Images. Major Adviser: Xiaoping Hu

**Frederic Evan Levy, Chicago, Ill.**

B.S. cum laude '83, University of Illinois; M.D. '87, Rush University. Degree: Master of Science in Otolaryngology, June '92. Major: Otolaryngology. Minor: Related Fields. Thesis: Healing of Osseous Defects Through the use of a Biodegradable Barrier System. Major Adviser: Edward H. Szachowicz II

**Hojiang Li**

B.S. '83, Beijing Normal University. Degree: Master of Science, May '92. Major: Astronomy. Minor: Related Fields. Major Adviser: Lawrence Rudnick

**Woon-Chin Liew, Kuala Lumpur, Malaysia**

B.S. with distinction '90, Iowa State University of Science and Technology. Degree: Master of Science in Electrical Engineering, July '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Anand Gopinath

**Baohua Liu, Wuhan, Hubei, China**

M.S. '87, Huazhong Normal University. Degree: Master of Science, August '92. Major: Biophysical Sciences. Minor: Related Fields. Major Adviser: E. Russell Ritenour

**Hsien-Ching Liu, Taoyuan, Taiwan**

B.S. '81, National Taiwan University. Degree: Master of Science, September '92. Major: Biochemistry. Minor: Related Fields. Thesis: Thyroid Hormone Receptor Regulation of S14 Gene Expression in Hepatocytes. Major Adviser: Howard C. Towle

**Yue Liu, China**

B.S. '86, Peking University. Degree: Master of Science in Electrical Engineering, May '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Stephen Y. Chou

**Beverly Irene Lundell**

B.S. magna cum laude '80, Augsburg College. Degree: Master of Science, August '92. Major: Nutrition. Minor: Related Fields. Thesis: Dietary and Developmental Influences on Galactose-1-phosphate uridylyltransferase Activity. Major Adviser: Dennis A. Savaiano

**Chenglie Ma, Shenyang, China**

B.A. '88, Nankai University. Degree: Master of Science, May '92. Major: Biochemistry. Minor: Related Fields. Thesis: DNA Condensation in Alcohol-Water Mixtures. Major Adviser: Victor A. Bloomfield

**Yuemei Ma**

B.S. '82, M.S. '84, Beijing Medical University. Degree: Master of Science, July '92. Major: Food Science. Minor: Related Fields. Major Adviser: Gary A. Reineccius

**Robert Alan Mallett, Rochester**

B.S.E.E. '83, South Dakota State University; M.S. '85, Texas A & M University. Degree: Master of Science, July '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Loanne Gros Martin**

B.S. summa cum laude '87, Bemidji State University. Degree: Master of Science, May '92. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen Sodergren

**Michael Bacileo Martinez**

B.A. '90, University of Minnesota. Degree: Master of Science, May '92. Major: Biochemistry. Minor: Related Fields. Thesis: Kinetic Properties of Clustered Enzymes in Vivo. Major Adviser: Gary L. Nelsestuen

**Joseph A. Mason, Chicago, Ill.**

B.S. with high honors '89, University of Wisconsin. Degree: Master of Science, September '92. Major: Soil Science. Minor: Geology. Thesis: Loess Distribution and Soil Landscape Evolution in Southeastern Minnesota. Major Adviser: Edward A. Nater

**John Joseph Matta, Shoreview**

B.A. cum laude '73, Washington and Jefferson College. Degree: Master of Science, April '92. Major: Biochemistry. Minor: Related Fields. Thesis: High Resolution Analysis of Spin Label Orientation Distribution: Application to Muscle Cross-Bridges. Major Adviser: David D. Thomas

**Merrill Glend May, Mankato**

B.S. '88, University of Minnesota. Degree: Master of Science, July '92. Major: Animal Science. Minor: Related Fields. Thesis: Effect of Lupins (*Lupinus albus*) as a Protein Supplement for Lactating Holstein Dairy Cows. Major Adviser: Donald E. Otterby

**Robert John McCarthy, Boston, Mass.**

B.S. '79, Boston College; D.V.M. '83, Tufts University. Degree: Master of Science, April '92. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Related Fields. Major Adviser: Alan Lipowitz

**David Russell McKenzie, Northfield**

B.A. '83, St. John's University. Degree: Master of Science, June '92. Major: Statistics. Minor: Related Fields. Major Adviser: Douglas M. Hawkins

**Andrew C. McNeil**

B.S.M.E. with honors '83, Michigan Technological University. Degree: Master of Science in Mechanical Engineering, May '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Critical Heat Flux in Highly Wetting Liquids. Major Adviser: Avram Bar-Cohen

**Mary Beth McRaith, Little Canada**

B.A. '84, Gustavus Adolphus College. Degree: Master of Science, July '92. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

**Richard Jondall Mehus, Richfield**

B.S.M.E. '71, University of North Dakota. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Jeffery David Meister**

B.S. '81, Bemidji State University. Degree: Master of Science, August '92. Major: Food Science. Minor: Related Fields. Thesis: Analysis of Composition Variable Effects on Heating Performance of Microwave Susceptor Films. Major Adviser: Theodore P. Labuza

**Tammy Lea Meister, Plymouth**

B.A. '83, Gustavus Adolphus College; D.D.S. '87, University of Minnesota. Degree: Master of Science, June '92. Major: Dentistry. Minor: Related Fields. Thesis: The Reliability and Validity of Thermography in the Detection of Myofascial Pain. Major Adviser: James R. Friction

**Michael James Melander, St. Paul**

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, June '92. Major: Electrical Engineering. Minor: Industrial Engineering. Thesis: Development of an Expert System for Electric Power System Operations. Major Adviser: Bruce F. Wollenberg

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B.S. '84, Michigan Technological University. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Heidi C. Mickelson, Goodridge**

B.S. with honor '89, North Dakota State University. Degree: Master of Science, August '92. Major: Plant Breeding. Minor: Related Fields. Thesis: Congruity Backcrossing as a Method of Establishing Multi-Species Gene Pools in *Phaseolus*. Major Adviser: Peter D. Ascher

**Harry Mihas**

B.Math '84, University of Minnesota. Degree: Master of Science, July '92. Major: Mathematics. Minor: Statistics. Major Adviser: Joel L. Roberts

**John L. Miller**

B.S. '89, Washington University. Degree: Master of Science, August '92. Major: Biomedical Engineering. Minor: Mechanical Engineering. Major Adviser: Perry L. Blackshear

**Robert Miller**

B.Comp.Sc.'90, University of Minnesota. Degree: Master of Science in Electrical Engineering, June '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Matthew T. Okeefe

**David A. Mills, DePere, Wis.**

B.S. '85, University of Wisconsin. Degree: Master of Science, August '92. Major: Biochemistry. Minor: Related Fields. Thesis: Characterization of meso-Diaminopimelate Decarboxylase from Bacillus MGA3. Major Adviser: Michael C. Flickinger

**Sandra Louwagie Mohr, Marshall**

B.S. '88, University of Minnesota. Degree: Master of Science, June '92. Major: Food Science. Minor: Related Fields. Thesis: Oganoleptic Properties of Gouda Cheese Manufactured Using Lactococcus lactis Subspecies lactis KB and its Lactose-negative, Proteinase-negative Derivative. Major Adviser: Edmund A. Zottola

**Steven Edward Mossey, Crystal**

B.A. with special honors '82, University of Chicago. Degree: Master of Science, April '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Daniel L. Boley

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B.A. '89, College of St. Catherine. Degree: Master of Science, July '92. Major: Chemistry. Minor: Related Fields. Major Adviser: Steven R. Kass

**A. Mbassa Ndiro**

Ing. Agronome '86, Ecole Nationale Superieure Agronomique. Degree: Master of Science, May '92. Major: Plant Breeding. Minor: Related Fields. Thesis: Relationship of Heterosis and Genetic Diversity in F1 Hybrid X Inbred Maize Crosses. Major Adviser: Robert E. Stucker

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B.S. '89, University of Wisconsin. Degree: Master of Science, June '92. Major: Food Science. Minor: Related Fields. Major Adviser: Joan Gordon

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B.A. cum laude '89, St. Olaf College. Degree: Master of Science, June '92. Major: Genetics. Minor: Related Fields. Major Adviser: Bonnie S. Leroy

**Kenneth Lloyd Nelson, St. Paul**

B.S. cum laude '85, University of North Dakota. Degree: Master of Science, August '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Phillip J. Barry

**Lissa Taka Jennings Nelson, West Chester, Pa.**

B.S. '88, Lebanon Valley College. Degree: Master of Science, July '92. Major: Chemistry. Minor: Related Fields. Thesis: The Synthesis and Characterization of Large Metal Clusters Containing Gold and/or Palladium. Major Adviser: Louis H. Pignolet

**Mark David Nelson, Blue Earth**

B.A. cum laude '82, Winona State University. Degree: Master of Science, July '92. Major: Wildlife Conservation. Minor: Statistics. Thesis: Predicting Kirtland's Warbler (*Dendroica kirtlandii*) Habitat Suitability on the Breeding Grounds, Northern Lower Michigan. Major Adviser: Francesca J. Cuthbert

**Patricia Fay Nelson, Stillwater**

B.A. magna cum laude '90, St. Olaf College. Degree: Master of Science, August '92. Major: Mathematics. Minor: Related Fields. Major Adviser: Stephen B. Agard

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B.A. '80, Fisk University; B.E. '82, Vanderbilt University. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Duc Thai Nguyen**

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**Tuyet Thi-Ngoc Nguyen**

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B.S.N.'86, McKendree College. Degree: Master of Science, July '92. Major: Nursing. Minor: Related Fields. Major Adviser: Ellen T. Fahy

**Clifton Malcolm Nock, Minneapolis**

B.S.Comp.Sc. with high honor '91, South Dakota State University. Degree: Master of Science, September '92. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Anand R. Tripathi

**Jeanne Marie Nolden, Forest Lake**

B.A. '88, Saint Mary's College. Degree: Master of Science, July '92. Major: Environmental Health. Minor: Related Fields. Major Adviser: William A. Toscano, Jr.

**Saleem E. Noormohamed**

B.S. '84, B.S.Pharm. '87, University of Minnesota. Degree: Master of Science, June '92. Major: Hospital Pharmacy. Minor: Related Fields. Thesis: Predicting Zidovudine Serum Concentrations: Strategies for Dose Optimization. Major Adviser: Courtney V. Fletcher

**Kathleen Ann Giesen Norlien, St. Paul**

B.A. '80, College of St. Catherine. Degree: Master of Science, May '92. Major: Environmental Health. Minor: Related Fields. Major Adviser: Donald Vesley

**Elizabeth Pearsall Noyes, Shoreview**

B.S. '79, University of Maryland; D.V.M. '83, University of Florida. Degree: Master of Science, May '92. Major: Veterinary Medicine. Minor: Related Fields. Thesis: Impact of Several Environmental Factors on Growth and Health of Weaned Pigs. Major Adviser: Carlos Pijoon

**Pamela J. Nutting, LaPorte, Tex.**

B.S. '90, Texas A & M University. Degree: Master of Science, June '92. Major: Genetics. Minor: Related Fields. Major Adviser: Bonnie S. Leroy

**Derek H. Ogle, Shoreview**

B.S. magna cum laude '89, Northland College. Degree: Master of Science, June '92. Major: Fisheries. Minor: Related Fields. Thesis: Trophic Relations of Ruffe (*Gymnocephalus cernuus* (L.)) in the St. Louis River Harbor, Lake Superior. Major Advisers: Raymond M. Newman and Mary G. Henry

**Cary Tiffred Oien, Mora**

B.A. '88, Concordia College. Degree: Master of Science, June '92. Major: Entomology. Minor: Related Fields. Thesis: A Species-Specific Enzyme-Linked Immunosorbent Assay for *Nosema furnacalis* (Microspora: Nosematidae). Major Adviser: David W. Ragsdale

**Thomas Shaun Olinger, Brooklyn Park**

B.Ch.E. '90, University of Minnesota. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Steven John Olson, Deerfield, Ill.**

B.S. '84, University of Illinois. Degree: Master of Science in Mechanical Engineering, June '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: The Flow Pattern of Convection in a Heated Horizontal Fluid Layer at Moderate Rayleigh Number. Major Adviser: Richard J. Goldstein

**Donna Jean Otto-Schoenaur, Maple Grove**

B.A. '84, University of Minnesota. Degree: Master of Science, June '92. Major: Food Science. Minor: Related Fields. Major Adviser: Edmund A. Zottola

**Tracy Xin Ouyang, China**

B.S. '89, Peking University. Degree: Master of Science, June '92. Major: Biochemistry. Minor: Related Fields. Thesis: Overexpression, Purification, and Investigation of Stress-Induced Expression of the *E. coli* Stringent Starvation Protein. Major Adviser: Michael C. Flickinger

**Mitchell Lee Page, Green Bay, Wis.**

D.D.S. '83, University of Minnesota. Degree: Master of Science, July '92. Major: Dentistry. Minor: Related Fields. Thesis: A Comparison of the Sealing Ability of the Concentric Condensation Technique with Laterally Condensed Gutta-Percha. Major Adviser: Kenneth M. Hargreaves

**Bruce Christopher Palmquist, Minneapolis**

B.A. magna cum laude '84, Augsburg College. Degree: Master of Science, June '92. Major: Physics. Minor: Related Fields. Major Adviser: Robert O. Pepin

**Lane Mikel Paolucci**

B.S. '80, University of Wisconsin. Degree: Master of Science, July '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Mary E. Pauza, Cottage Grove**

B.S. '81, Nebraska Wesleyan University. Degree: Master of Science, April '92. Major: Clinical Laboratory Science. Minor: Pathobiology. Thesis: Analysis of Immunoglobulin Light Chain Gene Rearrangements in Cultured Human B-Lineage Cells. Major Adviser: Tucker W. Leber

**Larry Edward Peacocke, Dartmouth, Nova Scotia, Canada**

B.S. '72, D.D.S. '80, Dalhousie University. Degree: Master of Science, July '92. Major: Dentistry. Minor: Related Fields. Thesis: A Comparison of a Computerized Analysis Technique with a Conventional Analysis of Canal Curvature. Major Adviser: Kenneth M. Hargreaves

**Christopher Thomas Pedro, Roseville**

B.Comp.Sc. '89, University of Minnesota. Degree: Master of Science, June '92. Major: Computer and Information Sciences. Minor: Scientific Computation. Major Adviser: Anthony T. Chronopoulos

**Mark Joseph Perkovich, Arcadia, Calif.**

B.S. '86, California Polytechnic State University. Degree: Master of Science in Mechanical Engineering, June '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: An Experimental Study of a Reciprocating Refrigeration Compressor. Major Advisers: Thomas H. Kuehn and James W. Ramsey

**Teresa Jo Perry, Little Canada**

B.C.E. '84, University of Minnesota. Degree: Master of Science in Civil Engineering, May '92. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Walter J. Maier

**Brenda Jean Peterson, Apple Valley**

B.S. '79, Mankato State University. Degree: Master of Science, April '92. Major: Nursing. Minor: Related Fields. Major Adviser: Ellen C. Egan

**Michael James Pirner, Deerwood**

B.A. '85, Augsburg College. Degree: Master of Science, September '92. Major: Environmental Health. Minor: Related Fields. Major Adviser: Charles E. McJilton

**John Owen Pliam, Minneapolis**

B.E.E. '88, University of Minnesota. Degree: Master of Science in Electrical Engineering, June '92. Major: Electrical Engineering. Minor: Mathematics. Thesis: An Algebraic Approach to Signal Flow Graph Theory. Major Adviser: E. Bruce Lee

**Steven Earl Poss, Shoreview**

B.A. '84, St. John's University; B.Ch.E. '86, University of Minnesota. Degree: Master of Science, June '92. Major: Chemistry. Minor: Related Fields. Major Adviser: Wilmer G. Miller

**Thomas Richard Prentice, St. Paul**

B.S. cum laude '85, University of Wisconsin. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Eric Bernard Preud'Homme, Pont-Audemer, France**

Ingenieur '89, Ecole Nationale Supérieure des Mines de Saint-Etienne. Degree: Master of Science in Civil Engineering, September '92. Major: Civil Engineering. Minor: Related Fields. Thesis: Relationship Between Water Temperatures and Air Temperatures for Central U.S. Streams. Major Adviser: Heinz G. Stefan

**Linda Mae Prigge**

B.S. '73, Mankato State College. Degree: Master of Science, August '92. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

**Arthur John Punyko, Minneapolis**

B.E.E. '89, University of Minnesota. Degree: Master of Science in Electrical Engineering, May '92. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Fredric N. Bailey

**Mingwei Qian, Chongqing, Sichuan, China**

B.Med. '82, Chongqing University. Degree: Master of Science, June '92. Major: Environmental Health. Minor: Related Fields. Thesis: Tobacco-borne Siderophoric Activity: Purification and Pathological Implications. Major Adviser: William A. Toscano, Jr.

**Qiu Qiu**

B.Med. '82, Hunan Medical College. Degree: Master of Science, July '92. Major: Cell and Developmental Biology. Minor: Related Fields. Major Adviser: Ross G. Johnson

**John James Quinn, Downers Grove, Ill.**

B.S. '87, Purdue University. Degree: Master of Science, May '92. Major: Geology. Minor: Civil Engineering. Thesis: Modeling of Groundwater Flow, Leachate Migration, and Geostatistical Aspects of a Portion of the Anoka Sandplain, Minnesota. Major Adviser: Hans O. Pfannkuch

**Frank Joseph Raab II, Minneapolis**

D.D.S. '88, University of Texas. Degree: Master of Science, April '92. Major: Dentistry. Minor: Related Fields. Thesis: Automatic Ambulatory Monitoring of Circadian Blood Pressure and Heart Rate Variations Associated with Periodontal Therapy. Major Adviser: James E. Hinrichs

**Rajesh Shankar Rao, Bombay, India**

B.E. '91, University of Bombay. Degree: Master of Science in Civil Engineering, June '92. Major: Civil Engineering. Minor: Mechanics. Thesis: Finite Element Analysis of Composite Plates Using Weak Form of the Kirchhoff Constraints. Major Adviser: Henryk K. Stolarski

**Kathryn Ann Raven, Wanamingo**

B.S. '87, College of St. Teresa. Degree: Master of Science, June '92. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen Sodergren

**James Garrett Rickard, Woodbury**

B.S. '87, Iowa State University of Science and Technology. Degree: Master of Science in Industrial Engineering, May '92. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Patrick J. Starr

**John Russell Rickers, Worthington**

B.S. '89, University of Minnesota. Degree: Master of Science, June '92. Major: Forestry. Minor: Related Fields. Major Adviser: Lloyd P. Queen

**Randall S. Risser, Holtwood, Pa.**

B.S. Ag. cum laude '91, University of Delaware. Degree: Master of Science, September '92. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: Will Global Talk Lead to Global Action? Theoretical and Empirical Evidence Regarding Carbon Dioxide Abatement. Major Adviser: Harald Vonwitzke

**James Andrew Ritz, Vadnais Heights**

B.A. cum laude '86, College of St. Thomas. Degree: Master of Science, July '92. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Perry L. Blackshear

**Clifton E. Roberts, Battle Lake**

B.S. '80, Winona State University. Degree: Master of Science, July '92. Major: Nursing. Minor: Related Fields. Major Adviser: Ellen T. Fahy

**Karl John Rockne, St. Paul**

B.C.E. '90, University of Minnesota. Degree: Master of Science, September '92. Major: Civil Engineering. Minor: Related Fields. Thesis: The Chemical Water Quality of Wastewater Stabilization Ponds in Minnesota. Major Adviser: Patrick L. Brezonik

**James Richard Roth**

B.C.E. '87, University of Minnesota. Degree: Master of Science in Civil Engineering, July '92. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Roberto Tomas Leon

**Jian Ruan**

B.Med. '83, Beijing Second Medical College. Degree: Master of Science, July '92. Major: Biomedical Engineering. Minor: Physiology. Thesis: The Relationship Between the Mechanical Structure of the Cat Muscle Spindle and its Response Characteristics. Major Adviser: Richard E. Poppele

**William Neil Salk, Albany**

B.A. '88, St. Cloud State University. Degree: Master of Science, May '92. Major: Biophysical Sciences. Minor: Related Fields. Major Adviser: Firmin C. Deibel

**Kurt Howard Sauerma, Maplewood**

B.S. with distinction '90, University of Minnesota. Degree: Master of Science, July '92. Major: Forestry. Minor: Related Fields. Major Adviser: Alvin A. Alm

**Peter Joseph Schiller, Minneapolis**

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, July '92. Major: Electrical Engineering. Minor: Related Fields. Thesis: Surface-Micromachined Piezoelectric Pressure Sensors. Major Adviser: Dennis L. Polla

**Ingrid Eleanore Schneider, Sioux Falls, S.D.**

B.S. '90, University of Minnesota. Degree: Master of Science, July '92. Major: Forestry. Minor: Related Fields. Major Adviser: Dorothy H. Anderson

**Kent Allen Schnetzler, Springfield, Mo.**

B.S. cum laude '86. Southwest Missouri State University. Degree: Master of Science, June '92. Major: Food Science. Minor: Related Fields. Thesis: Twin-Screw Extrusion Processing of Amaranth. Major Adviser: William M. Breene

**Susan Bold Schumacher**

B.A. '81. Gustavus Adolphus College. Degree: Master of Science, August '92. Major: Nursing. Minor: Gerontology. Major Adviser: Ruth D. Lindquist

**Arlen Wayne Seeman, Alma, Neb.**

B.S.M.E. with distinction '90. University of Nebraska. Degree: Master of Science in Aerospace Engineering, September '92. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Thomas W. Shield

**Kelly Kay Seyid, St. Louis Park**

B.A. '85. The American University. Degree: Master of Science, September '92. Major: Agricultural and Applied Economics. Minor: Related Fields. Thesis: The United States and United Nations Development Assistance: U.S. Participation in Specialized Agencies and Voluntary Programs Involved in Assistance to Developing Countries. Major Adviser: Vernon W. Ruttan

**Aarti Shanker**

B.Stat. with high distinction '85. University of Minnesota. Degree: Master of Science, September '92. Major: Statistics. Minor: Related Fields. Major Adviser: Sanford Weisberg

**Meir Shargal, Israel**

B.Comp.Sc. cum laude '91. University of Minnesota. Degree: Master of Science, September '92. Major: Computer and Information Sciences. Minor: Industrial Engineering. Major Adviser: Shashi Shekhar

**Vivek Sharma, Shimla, H.P., India**

B.Tech (honours) '90. Indian Institute of Technology, Kharagpur. Degree: Master of Science in Aerospace Engineering, August '92. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Yiyuan Zhao

**William A. Shaver, Platteville, Wis.**

B.S. summa cum laude '84. University of Wisconsin. Degree: Master of Science in Electrical Engineering, April '92. Major: Electrical Engineering-Rochester. Minor: Related Fields. Major Adviser: Larry L. Kinney

**Katherine A. Ogens Siegler**

B.A. '74. Antioch University; B.S.N. '76. Case Western Reserve University. Degree: Master of Science, August '92. Major: Nursing. Minor: Related Fields. Major Adviser: Margaret J. Bull

**John Allan Siekmeier, Mahtomedi**

B.C.E. with distinction '89. University of Minnesota. Degree: Master of Science in Geo-Engineering, July '92. Major: Geo-Engineering. Minor: Related Fields. Thesis: Design Criteria for an Underground Lunar Mine. Major Adviser: Raymond L. Sterling

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B.A. cum laude '85. Concordia College. Degree: Master of Science, August '92. Major: Mathematics. Minor: Related Fields. Major Adviser: Paul B. Garrett

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B.S. '88. University of Iowa. Degree: Master of Science, June '92. Major: Genetics. Minor: Bioethics. Major Adviser: Bonnie S. Leroy

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**Joseph Michael Spitzmueller, St. Paul**

B.S. '73. University of Minnesota. Degree: Master of Science, June '92. Major: Agronomy. Minor: Related Fields. Thesis: Influence of Ammonium Sulfate on Sethoxydim Efficacy and Quackgrass (*Elytrigia repens*) Crown Bud Development. Major Adviser: Donald L. Wyse

**Dick Sserunkuuma**

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

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**Kari Stange, Oslo, Norway**

Cand. Mag. '87. University of Trondheim. Degree: Master of Science, April '92. Major: Environmental Health. Minor: Ecology. Thesis: Uptake of Polychlorinated Biphenyls (PCBs) by Phytoplankton: A Species Comparison. Major Adviser: Deborah L. Swackhamer

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B.S. summa cum laude '87. Winona State University. Degree: Master of Science, August '92. Major: Biostatistics. Minor: Related Fields. Major Adviser: William Thomas

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B.E.E. with distinction '87. University of Minnesota. Degree: Master of Science in Electrical Engineering, July '92. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: James E. Holte

**Laurence David Stone, Jr., Methuen, Mass.**  
B.S. summa cum laude '86, University of Lowell.  
Degree: Master of Science in Mechanical Engineering.  
September '92. Major: Mechanical Engineering. Minor:  
Mathematics. Thesis: Film Cooling of Curved Surfaces at  
Low Injection Angles. Major Adviser: Richard J.  
Goldstein

**James David Strom, Rochester**  
B.S. '83, Iowa State University of Science and  
Technology. Degree: Master of Science in Electrical  
Engineering, September '92. Major: Electrical  
Engineering-Rochester. Minor: Related Fields. Thesis:  
Method and Discussion of a Four Phase Clock  
Distribution System. Major Adviser: Dennis L. Polla

**Li Sun**  
Bachelor's degree '83, Beijing Union University. Degree:  
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Major: Electrical Engineering. Minor: Computer and  
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Sensitivity Analysis. Major Adviser: Bruce F. Wollenberg

**Ping Suo**  
B.S. '82, M.S. '85, Tianjin University. Degree: Master of  
Science in Mechanical Engineering, August '92. Major:  
Mechanical Engineering. Minor: Electrical Engineering.  
Major Adviser: Kim A. Stelson

**Connie L. Swenson, Fergus Falls**  
B.S.N. '87, Moorhead State University. Degree: Master  
of Science, June '92. Major: Nursing. Minor: Related  
Fields. Major Adviser: Ellen T. Fahy

**Shoaib Tayyab, Karachi, Pakistan**  
B.Eng. '85, NED University of Engineering and  
Technology. Degree: Master of Science, July '92. Major:  
Agricultural and Applied Economics. Minor: Business  
Administration. Major Adviser: Kent D. Olson

**Qin Tian, Hangzhou, Zhejiang, China**  
B.S. '89, Hangzhou Institute of Electronic Engineering.  
Degree: Master of Science, July '92. Major: Biostatistics.  
Minor: Statistics. Major Adviser: Thomas A. Louis

**Susan Jean Tighe, Dubuque, Iowa**  
B.A. '70, Clarke College; B.S.N. '86, University of  
Dubuque. Degree: Master of Science, July '92. Major:  
Nursing. Minor: Related Fields. Major Adviser: Kathleen  
G. Dineen

**Barbara Jean Timm-Brock, Shoreview**  
B.Ch.E. '82, University of Minnesota. Degree: Master of  
Science, July '92. Major: Management of Technology.  
Major Adviser: Yechiel Shulman

**Robert Glenn Tipping, St. Paul**  
B.A. '81, Carleton College. Degree: Master of Science,  
April '92. Major: Geology. Minor: Related Fields. Thesis:  
An Isotopic and Chemical Study of Groundwater Flow in  
the Prairie du Chien and Jordan Aquifers, Northern  
Dakota County, Minnesota. Major Adviser: E. Calvin  
Alexander, Jr.

**David G. Torgersen, Milaca**  
B.A. '86, Eckerd College. Degree: Master of Science,  
September '92. Major: Microbiology. Minor: Related  
Fields. Thesis: Effect of Environmental Conditions on  
Group A Streptococcal Pyrogenic Exotoxin Production.  
Major Adviser: Patrick M. Schlievert

**Jerry Lee Torrison, Eagan**  
B.A. '80, Concordia College; D.V.M. '86, University of  
Minnesota. Degree: Master of Science, April '92. Major:  
Veterinary Medicine. Minor: Related Fields. Thesis: A  
Contact Method of Pseudorabies Challenge in Pigs. Major  
Adviser: Robert B. Morrison

**Martin Scott Traina**  
B.A. '86, University of Minnesota. Degree: Master of  
Science, August '92. Major: Food Science. Minor:  
Related Fields. Thesis: Evaluation of Commercial Full-Fat  
Soy Flours for Composition, Functionality, and Chemical  
and Physical Properties. Major Adviser: William M.  
Breene

**Lawrence Charles Trost, Hibbing**  
B.S. '89, University of Minnesota. Degree: Master of  
Science, July '92. Major: Pharmacology. Minor:  
Physiology. Major Adviser: Kendall B. Wallace

**Lawrence Walter Ulanowski**  
B.S. '86, North Dakota State University. Degree: Master  
of Science in Mechanical Engineering, June '92. Major:  
Mechanical Engineering. Minor: Industrial Engineering.  
Major Adviser: Darrell A. Frohrib

**Joseph Valentino**  
B.S. with high honors '81, Lehigh University. Degree:  
Master of Science in Otolaryngology, July '92. Major:  
Otolaryngology. Minor: Related Fields. Thesis: The Role  
of the Superoxide Dismutase Activity of Rat Skin on  
Photodynamic Therapy when Manipulated by DDC and  
PEG-SOD. Major Adviser: George S. Goding, Jr.

**Lee James Vetter**  
B.S. '84, University of Notre Dame. Degree: Master of  
Science, September '92. Major: Management of  
Technology. Major Adviser: Yechiel Shulman

**Dale James Visser, Olivia**  
B.S. '89, Mankato State University. Degree: Master of  
Science, April '92. Major: Mathematics. Minor: Related  
Fields. Major Adviser: Peter J. Olver

**Jonathan Collins Vlaming, Edina**  
B.A. '89, University of Minnesota. Degree: Master of  
Science, August '92. Major: Forestry. Minor: Related  
Fields. Thesis: Modeling Impacts of Roads on Recreation  
Opportunities. Major Adviser: David W. Lime

**Craig Louis Walsh, Erlanger, Ky.**  
D.M.D. '77, University of Kentucky Medical Center.  
Degree: Master of Science, July '92. Major: Dentistry.  
Minor: Related Fields. Thesis: A Comparison of Hand and  
Ultrasonic Endodontic Instrumentation. Major Adviser:  
Harold H. Messer

**Guey-Shin Wang, Taiwan**  
B.Ed. '88, National Taiwan Normal University. Degree:  
Master of Science, June '92. Major: Nutrition. Minor:  
Related Fields. Major Adviser: Craig A. Hassel

**Juan Wang, Changsha, Hunan, China**

Bachelor of Physical Chemistry '83, Master's '86. Central South University of Technology. Degree: Master of Science in Chemical Engineering, July '92. Major: Chemical Engineering. Minor: Related Fields. Thesis: A Quartz Resonator-Based Study of the pH Dependent Behavior of Amphoteric Polymeric Films and Self-Assembled Thiol Monolayers. Major Adviser: Michael D. Ward

**Yongda Wang, China**

Bachelor of Medicine '82, Shanghai Second Medical University. Degree: Master of Science, May '92. Major: Oral Biology. Minor: Related Fields. Thesis: Neutrophil Elastase and Alpha-1-Antitrypsin in Human Periodontal Sites. Major Adviser: Quenton T. Smith

**Martin Walter Wangenstein, St. Paul**

B.A. '84, Macalester College. Degree: Master of Science in Civil Engineering, April '92. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Walter J. Maier

**Lance David Weems, Billings, Mont.**

B.S. '89, B.A. with highest distinction '89, Montana State University. Degree: Master of Science, May '92. Major: Physics. Minor: Related Fields. Major Adviser: Earl A. Peterson

**Michael Yingmin Wei**

B.S. '85, Beijing University of Iron and Steel Technology. Degree: Master of Science, June '92. Major: Chemistry. Minor: Related Fields. Thesis: Mechanistic Studies of Organometallic Chemical Vapor Deposition of Metal Thin Films. Major Adviser: Wayne L. Gladfelter

**Paul Trygve White, Minneapolis**

B.A. '86, St. Olaf College. Degree: Master of Science, July '92. Major: Conservation Biology. Minor: Public Affairs. Major Adviser: Donald P. Geesaman

**Thomas Anderson White, Asheville, N.C.**

B.S. '83, Humboldt State University. Degree: Master of Science, April '92. Major: Forestry. Minor: Related Fields. Thesis: Factors Influencing Participation in Cooperative Watershed Management in Maissade, Haiti. Major Adviser: Hans M. Gregersen

**Nancy Louise Wiborg, Plymouth**

B.S. '87, Mankato State University. Degree: Master of Science, July '92. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

**Gregory Peter Widin, West Lakeland Township**

B.A. summa cum laude '74, Kenyon College. Degree: Master of Science, July '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**James M. Wiest, Wishek, N.D.**

B.S. '69, North Dakota State University. Degree: Master of Science, July '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Ellen Gwynn Witkowsky, Minneapolis**

B.S. '82, University of Minnesota. Degree: Master of Science, June '92. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

**Chanseng Wong, Singapore**

B.S.M.E. with honors '90, University of Texas. Degree: Master of Science in Mechanical Engineering, June '92. Major: Mechanical Engineering. Minor: Computer and Information Sciences. Thesis: Implementation of Coordinate Measuring Machine to Inspect Multi-Bent Metal Workpieces. Major Adviser: Kim A. Stelson

**Christina Cheng Ning Wu**

B.S. '89, National Chung-Hsing University. Degree: Master of Science, July '92. Major: Entomology. Minor: Related Fields. Thesis: Studies on Cultured Mosquito Cells (*Aedes albopictus*) with Respect to Heavy Metals and Metallothioneins. Major Adviser: Ann M. Fallon

**Yi Wu**

B.Eng. '82, Shanghai Jiaotong University; M.S. '85, Tsinghua University. Degree: Master of Science in Mechanical Engineering, September '92. Major: Mechanical Engineering. Minor: Related Fields. Major Advisers: Thomas H. Kuehn and Benjamin Y. H. Liu

**Lee S. Wyland, Stillwater**

B.S. '87, University of Wisconsin. Degree: Master of Science, September '92. Major: Management of Technology. Major Adviser: Yechiel Shulman

**Houhui Xia**

B.S. '88, Peking University. Degree: Master of Science, September '92. Major: Physics. Minor: Related Fields. Major Adviser: Clayton F. Giese

**Jinliang Xue, Hefei, Anhui, China**

Bachelor's '82, Anhui College of Agriculture. Degree: Master of Science, September '92. Major: Theriogenology. Minor: Related Fields. Major Adviser: Gary D. Dial

**Stephen Bruce Yaholnitsky, Canada**

D.M.D. '82, University of Saskatchewan. Degree: Master of Science, September '92. Major: Dentistry. Minor: Related Fields. Major Adviser: James E. Hinrichs

**Yasuyo Yamazaki, Tokyo, Japan**

B.Agric., '84, M.Sc.Vet.Med. '86, Nippon Veterinary and Zoo Technical College. Degree: Master of Science, August '92. Major: Veterinary Medicine. Minor: Related Fields. Thesis: A Canine Staphylococcus intermedius Skin Infection Model for Evaluating Mupirocin, a Topical Antibacterial Agent. Major Adviser: Patrick J. McKeever

**Xiaochao Yan, Shanghai, China**

B.S. '82, Tongji University. Degree: Master of Science in Mechanical Engineering, July '92. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Determination of Material Fatigue Life Properties from Cyclic Test Data. Major Adviser: Jeffrey H. Vogel

**Michael James Yapel, Bloomington**

D.D.S. '90, University of Minnesota. Degree: Master of Science, July '92. Major: Dentistry. Minor: Related Fields. Thesis: Enamel Damage in Simulated Traumatic Debonding of Orthodontic Brackets. Major Adviser: Donald C. Quick

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**Carl William Zanner, Washington, D.C.**

B.A. '71, University of Wisconsin. Degree: Master of Science, July '92. Major: Soil Science. Minor: Related Fields. Thesis: The Nitrogen Nutrition of Cultivated Wild Rice: Additions, Losses and Transformations that Influence Nitrogen Availability in Histosols. Major Adviser: Paul R. Bloom

**Lambros Zelos, Athens, Greece**

D.D.S. '86, National and Capodistrian University of Athens. Degree: Master of Science, September '92. Major: Dentistry. Minor: Related Fields. Thesis: Evaluation of the Ceramic/Ceramic Interface. Major Adviser: Richard R. Bevis

**Jiali Zhang, Zhejiang, China**

B.E. '88, Shaanxi Institute of Mechanical Engineering. Degree: Master of Science in Aerospace Engineering, June '92. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Daniel D. Joseph

**Xiang Zhang**

B.S. '85, M.S. '88, Nanjing University. Degree: Master of Science in Mechanical Engineering, July '92. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Benjamin Y. H. Liu

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*Master of Science***University of Minnesota, Duluth****Gary Alan Anderson, Turtle Lake, Wis.**

B.S. '87, University of Wisconsin. Degree: Master of Science, May '92. Major: Computer Science. Minor: Related Fields. Major Adviser: Douglas J. Dunham

**Xueying Cao, Beijing, China.**

B.E. '87, East China University of Chemical Technology. Degree: Master of Science, August '92. Major: Chemistry. Minor: Related Fields. Thesis: Subcellular Localization of Two Glutamine-dependent Carbamoyl-phosphate Synthetases and Related Enzymes in Liver of *Micropterus salmoides* (Largemouth Bass) and Properties of Isolated Liver Mitochondria: Comparative Relationships with Elasmobranchs. Major Adviser: Paul M. Anderson

**Chad Ronald Christiansen, Richfield**

B.S. '90, University of Minnesota. Degree: Master of Science, September '92. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Barry R. James

**Joseph S. Clevenger, Wausau, Wis.**

B.S. '90, University of Minnesota. Degree: Master of Science, June '92. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Ronald R. Regal

**Zhifeng Deng, Wuhan, Hubei, China.**

B.S. '84, Wuhan University; M.S. '87, Institute of Oceanology (CASS). Degree: Master of Science, August '92. Major: Chemistry. Minor: Related Fields. Thesis: The Improved Predictability of Biological Activity Through the Kinetic Characterization of Reaction Intermediates. Major Adviser: Robert M. Carlson

**Mark Vincent Hanson, Yankton, S.D.**

B.S. '89, University of South Dakota. Degree: Master of Science, July '92. Major: Chemistry. Minor: Related Fields. Thesis: The Synthesis and Chemistry of Alkenyl Silver Reagents. Major Adviser: Brian L. Groh

**Shashikant Joshi, India**

B.Tech (honours) '90, Indian Institute of Technology, Kharagpur. Degree: Master of Science, June '92. Major: Computer Science. Minor: Applied and Computational Mathematics. Thesis: Treasures in an Art Gallery. Major Adviser: Linda L. Deneen

**Michael Thomas Mageau, Duluth**

B.S. '89, University of Minnesota. Degree: Master of Science, August '92. Major: Biology. Minor: Geology. Thesis: The Effects of Turbulence and Carbon Concentration on Competition Between *Microcystis aeruginosa* and *Scenedesmus bijugatus*. Major Adviser: Andrew R. Klemmer

**Sudhir Mummaneni, Guntur, A.P., India**

Degree: Master of Science, September '92. Major: Applied and Computational Mathematics. Minor: Computer Science. Major Adviser: Harlan W. Stech

**Charles Lee Rose, Roseau**

B.S. '85, North Dakota State University. Degree: Master of Science, August '92. Major: Biology. Minor: Related Fields. Thesis: Nitrogen and Phosphorus Limitation of Phytoplankton in Northeastern Minnesota Lakes. Major Adviser: Richard P. Axler

**Todd Jon Rosedahl**

B.S.E.E. '89, Mankato State University. Degree: Master of Science, July '92. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Harlan W. Stech

**Gretchen Mary Scheuer, Grand Rapids**

B.A. cum laude '81, St. Olaf College. Degree: Master of Science, August '92. Major: Applied and Computational Mathematics. Minor: Related Fields. Thesis: Statistical Models for Junior High Students. Major Adviser: Ronald R. Regal

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**Jeffrey Allan Schuldt, Faribault**

B.A. '85, Gustavus Adolphus College. Degree: Master of Science. April '92. Major: Biology. Minor: Related Fields. Thesis: Daily Ration Estimates for Young-of-the-Year Yellow Perch (*Perca flavescens*) and Sunfish (*Lepomis spp.*) from Lake Itasca, Minnesota. Major Adviser: Melbourne C. Whiteside

**Nancy Ruth Smith**

B.S. '76, Harvey Mudd College. Degree: Master of Science. May '92. Major: Physics. Minor: Biology. Major Adviser: Michael Sydor

**Liqiang Tao, Nanjing, China.**

B.S. '82, Nanjing Normal University. Degree: Master of Science. August '92. Major: Physics. Minor: Related Fields. Thesis: Methods for Measurement of the Frequency Response of a Piezoelectric Tube. Major Adviser: Jonathan Maps

**David Alan Thomas**

B.Sc. '84, Carleton University. Degree: Master of Science. July '92. Major: Geology. Minor: Related Fields. Thesis: Lithostratigraphy, Petrology, Diagenesis and Environments of Deposition of the Upper Cambrian Jordan Sandstone, Southeastern Minnesota. Major Adviser: Richard W. Ojakangas

**Jo A. Thompson**

B.S. with honors '88, University of Wisconsin. Degree: Master of Science. June '92. Major: Biology. Minor: Related Fields. Thesis: Cellular Fluorescence Capacity as an Endpoint in Algal Toxicity Testing. Major Adviser: Andrew R. Klemmer

**Tao-Nan Peter Tsai, Taiwan**

B.S. '85, National Chiao Tung University. Degree: Master of Science. May '92. Major: Computer Science. Minor: Applied and Computational Mathematics. Major Adviser: Douglas J. Dunham

**Steven Thomas Wanzong**

B.S. '87, University of Wisconsin. Degree: Master of Science. June '92. Major: Physics. Minor: Applied and Computational Mathematics. Major Adviser: Jonathan Maps

**Li Wei, Beijing, China.**

B.Eng. '87, Beijing Polytechnic University. Degree: Master of Science. August '92. Major: Computer Science. Minor: Related Fields. Major Adviser: Douglas J. Dunham

**Joseph J. Wivoda, Hibbing**

B.S. '90, University of Minnesota. Degree: Master of Science. August '92. Major: Physics. Minor: Applied and Computational Mathematics. Thesis: Numerical Solution of a Quantum Field Theory. Major Adviser: John R. Hiller

**Xun Zhao, Guangzhou, People's Republic of China**

B.S. '84, Jinan University. Degree: Master of Science. May '92. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Steven A. Trogdon

**Xun Zhao, Guangzhou, People's Republic of China**

B.S. '84, Jinan University. Degree: Master of Science. May '92. Major: Computer Science. Minor: Related Fields. Major Adviser: Clark D. Thomborson

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*Master of Arts***Mary Elizabeth Ailes, Spokane, Wash.**

B.A. cum laude '89, Pacific Lutheran University. Degree: Master of Arts. May '92. Major: History. Minor: Related Fields. Major Adviser: Michael F. Metcalf

**Sarah Grace Allen**

B.A. '81, University of Wisconsin. Degree: Master of Arts. September '92. Major: Sociology. Minor: Related Fields. Major Adviser: Joseph Galaskiewicz

**Christa Mai Anders**

B.A. cum laude '85, St. Olaf College. Degree: Master of Arts. July '92. Major: Public Affairs. Major Adviser: Barbara J. Nelson

**Dayna Lynn Anderson**

B.A. summa cum laude '87, University of Minnesota. Degree: Master of Arts. April '92. Major: Communication Disorders. Minor: Educational Psychology. Major Adviser: Joe E. Reichle

**Karen Pat Anderson, Minnetonka**

B.S. '82, University of Minnesota. Degree: Master of Arts. August '92. Major: Art Education. Minor: Educational Psychology. Major Adviser: Margaret K. Diblasio

**Karn Nancy Anderson**

B.S. summa cum laude '87, Mankato State University. Degree: Master of Arts. July '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Richard D. Arvey

**Peggy Arendt Anderson, Minneapolis**

B.S. with distinction '74, University of Minnesota. Degree: Master of Arts. July '92. Major: Home Economics Education. Minor: Related Fields. Major Adviser: Ruth G. Thomas

**Thor Martin Anderson, Minneapolis**

B.A. '87, St. Olaf College. Degree: Master of Arts, August '92. Major: Music. Minor: Related Fields. Thesis: Alvin Steadfast on Vernacular Island. Major Adviser: Paul Fetler

**Peter John Aussenus, Minneapolis**

B.J. '82, University of Nebraska. Degree: Master of Arts, September '92. Major: Mass Communication. Minor: Related Fields. Thesis: Journalism in National Crises: A Cultural History of the Garfield and McKinley Assassinations. Major Adviser: Nancy L. Roberts

**Salah Ayari**

Maitrise '88, Universite de Tunis. Degree: Master of Arts, May '92. Major: English as a Second Language. Minor: Related Fields. Thesis: Exploring the Role of NL in L2 Writing: Evidence from Arabic Learners of English. Major Adviser: Elaine E. Tarone

**Colleen Dorsey Barberio, Willmar**

B.A. magna cum laude '85, St. Cloud State University. Degree: Master of Arts, August '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: James G. Scoville

**Christopher Michael Bennett, Waukegan, Ill.**

B.S. '87, University of Iowa. Degree: Master of Arts, June '92. Major: Child Psychology. Minor: Related Fields. Thesis: Interactions Between Boys and Girls During the Transition to Adolescence: Definition of a Developmental Task and Construct Validation. Major Adviser: L. Alan Sroufe

**Marcia Ann Benshoof**

B.A. magna cum laude '81, Hamline University. Degree: Master of Arts, July '92. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Patricia A. Broen

**Mark Andrew Berg, Edgar, Wis.**

B.A. '89, University of Wisconsin. Degree: Master of Arts, July '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Brian P. McCall

**Christian Anthony Berge, Norway**

B.A. '89, Rice University. Degree: Master of Arts, June '92. Major: Child Psychology. Minor: Related Fields. Thesis: The Whorfian Hypothesis Revisited: English and Spanish Conceptions of Gender. Major Adviser: Maria D. Sera

**Lynn Marie Bergeron, Baudette**

B.A. '89, University of Minnesota. Degree: Master of Arts, June '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: John L. Romano

**Ian Michael Beveridge, St. Albans, England**

M.Sc. '77, University of London. Degree: Master of Arts, May '92. Major: Mathematics Education. Minor: Related Fields. Major Adviser: Thomas R. Post

**Dianne M. Blazek**

B.A. '83, Rosary College. Degree: Master of Arts, June '92. Major: Elementary Education. Minor: Related Fields. Major Adviser: Dianne L. Monson

**William Clarence Block, Minneapolis**

B.A. summa cum laude '89, Concordia College. Degree: Master of Arts, June '92. Major: History. Minor: Related Fields. Major Adviser: Russell R. Menard

**Carla Jeanne Blow, Maple Grove**

B.A. '85, Bethel College. Degree: Master of Arts, June '92. Major: Mathematics Education. Minor: Related Fields. Major Adviser: Robert E. Orton

**Lisa Greer Boehlke**

B.A. '75, Macalester College. Degree: Master of Arts, September '92. Major: Education. Minor: Educational Psychology. Major Adviser: Dale L. Lange

**Todd Michael Borgerding**

B.S. summa cum laude '86, Mankato State University. Degree: Master of Arts, September '92. Major: Music. Minor: Related Fields. Thesis: Processional Contrapunti in Sixteenth-Century Seville: Style and Function. Major Adviser: Donna G. Cardamone Jackson

**William Remi Boudreau, Minneapolis**

B.A. '71, University of Minnesota. Degree: Master of Arts, May '92. Major: Geography. Minor: Related Fields. Thesis: Relevant Aspects of Geographic Modeling in Three Minneapolis Urban Renewal Neighborhoods. Major Adviser: Helga M. Leitner

**Maria Blanche Boyreau**

B.A. cum laude '89, Georgetown University. Degree: Master of Arts, August '92. Major: Public Affairs. Major Adviser: James E. Jernberg

**Barbara Louise W. Brian, Dellwood**

B.A. '73, College of St. Catherine. Degree: Master of Arts, June '92. Major: Speech-Communication. Minor: Related Fields. Major Adviser: George L. Shapiro

**Delana Gerber Brinkman, New Brighton**

B.A. '86, Bethel College. Degree: Master of Arts, June '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Lorraine S. Hansen

**Rachel Anne Brown, Falcon Heights**

B.A. '88, St. Olaf College. Degree: Master of Arts, July '92. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

**Michael John Bull, Presque Isle, Me.**

B.A. '87, Hood College. Degree: Master of Arts, September '92. Major: Public Affairs. Major Adviser: Dean E. Abrahamson

**John P. Byers, Broomall, Pa.**

B.S. Arch. St. '85, Philadelphia College of Art. Degree: Master of Arts, September '92. Major: Geography. Minor: Related Fields. Major Adviser: Helga M. Leitner

**Nancy Lynn Bynum**

B.S. '82, University of Wisconsin; B.S. cum laude '88, Bemidji State University. Degree: Master of Arts, July '92. Major: Education. Minor: Related Fields. Major Adviser: Frances P. Lawrenz

**Caitlin Elizabeth Albaum Cameron, Los Angeles, Calif.**

B.A. '87. University of California. Degree: Master of Arts. June '92. Major: German. Minor: Related Fields. Major Adviser: Ray M. Wakefield

**Ai-Lin Chiu**

B.A. '86. National Cheng Kung University. Degree: Master of Arts. July '92. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

**Kristy D. Clark, Ellensburg, Wash.**

B.A. cum laude '89. Central Washington University. Degree: Master of Arts. June '92. Major: French. Minor: Related Fields. Thesis: The Romantic Heroine in the Theatrical Works of Victor Hugo. Major Adviser: Eileen B. Sivert

**Leslie Holaday Cole, Seattle, Wash.**

B.A. cum laude '85. University of Washington. Degree: Master of Arts. September '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Hazel Dicken-Garcia

**Merrill Cole, Rochester**

B.A. '79. St. Olaf College; J.D. '83. William Mitchell College. Degree: Master of Arts. September '92. Major: Art History. Minor: Related Fields. Major Adviser: Marion J. Nelson

**Christopher John Commers, St. Paul**

B.A. '87. Lawrence University. Degree: Master of Arts. May '92. Major: History. Minor: Related Fields. Thesis: The Great Northern Strike of 1894: Temporary Triumph for the American Railway Union. Major Adviser: Hyman Berman

**Camille Mary Connel, Stillwater**

B.A. with highest honors '81. Macalester College. Degree: Master of Arts. June '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: John C. Busterna

**Annette M. Cook**

B.A. summa cum laude '86. Northern State College. Degree: Master of Arts. May '92. Major: Art Education. Minor: Related Fields. Major Adviser: Kerry J. Freedman-Norberg

**Kelly Ann Craigmile, San Jose, Calif.**

B.A. '85. University of California. Degree: Master of Arts. July '92. Major: English. Minor: Related Fields. Major Adviser: Charles J. Sugnet

**Elizabeth Vivienne Cutter, Minneapolis**

B.E.S. '74. University of Minnesota; J.D. cum laude '80. Macalester College. Degree: Master of Arts. August '92. Major: Philosophy. Minor: Bioethics. Major Adviser: Arthur L. Caplan

**Catherine Jean Dangler**

B.A. '84. University of California. Degree: Master of Arts. July '92. Major: Hispanic Literature. Minor: Related Fields. Thesis: The Social Foundation of Romance in Spain: The Book of Apollonius (XIII). Major Adviser: Anthony N. Zahareas

**Kenneth Olaf Danielson, McGrath**

B.A. '88. Bethel College. Degree: Master of Arts. July '92. Major: Kinesiology. Minor: Related Fields. Thesis: A Correlational Study between Peak Ball Velocity, Peak Torque, Degree Range of Motion and Lever Arm Lengths in Pitchers and Position Players. Major Adviser: Nancy L. Greer

**Susan Marie Dean, St. Paul**

B.S.B. '82. University of Minnesota. Degree: Master of Arts. April '92. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Nancy J. Stenson

**Isabelle Francoise Deconinck, France**

Licencie '84. Universite de Pais-Sorbonne (Paris IV); M.Music '89. University of Oklahoma. Degree: Master of Arts. September '92. Major: Comparative Literature. Minor: Related Fields. Major Adviser: Peter Canning

**Felix Ruben Delgado, Callao, Lima, Peru**

Bachilles '78. Universidad Nacional Mayor de San Marcos; M.A. '79. University of Essex. Degree: Master of Arts. April '92. Major: Education. Minor: Educational Psychology. Major Adviser: Dale L. Lange

**Linda L. DeMaris, Roseville**

B.S. magna cum laude '84. Mankato State University. Degree: Master of Arts. June '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Mario F. Bognanno

**Joyce Cecile Denham, St. Paul**

B.S. with distinction '78. University of Minnesota. Degree: Master of Arts. April '92. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

**Janice Mae De Noble**

B.A. with distinction '69. University of Wisconsin. Degree: Master of Arts. July '92. Major: English. Minor: Related Fields. Major Adviser: Toni A. H. McNaron

**Sofia Michelle Dimoglou, Colchester, Essex, England**

B.A. '84. Sunderland Polytechnic. Degree: Master of Arts. June '92. Major: English. Minor: Related Fields. Major Adviser: Kent R. Bales

**Eleni Dolaptsi, Thessaloniki, Greece**

Diploma '88. Aristotelian University of Thessaloniki. Degree: Master of Arts. May '92. Major: German. Minor: Related Fields. Major Adviser: Wolfgang F. Taraba

**Kathleen McGorray Dougherty**

B.A. with distinction '85. Indiana University. Degree: Master of Arts. June '92. Major: Public Affairs. Major Adviser: James E. Jernberg

**Valerie Ann Downing**

B.A. '88. University of Minnesota. Degree: Master of Arts. July '92. Major: French. Minor: Related Fields. Major Adviser: Joseph L. Waldauer

**Shane David Drefcinski, Stevens Point, Wis.**

B.A. summa cum laude '89. College of St. Thomas. Degree: Master of Arts. June '92. Major: Philosophy. Minor: Related Fields. Major Adviser: Sandra L. Peterson

**LeeAnn Drolet-Cook, Minneapolis**

B.S. with distinction '79, University of Minnesota.  
Degree: Master of Arts, August '92. Major: Educational  
Administration. Minor: Related Fields. Major Adviser:  
Gary F. Alkire

**Julie Ann Edin**

B.S. '80, University of Minnesota. Degree: Master of  
Arts, April '92. Major: Theatre Arts. Minor: Related  
Fields. Major Adviser: Monty K. Neely

**Barbara Dee Elvecrog, St. Paul**

B.A. '69, Macalester College. Degree: Master of Arts,  
May '92. Major: Education. Minor: Related Fields. Major  
Adviser: Richard D. Kimpston

**Sharon Elsa Engel, Edina**

B.S. '68, St. Cloud State College. Degree: Master of  
Arts, May '92. Major: Music Education. Minor: Related  
Fields. Major Adviser: Robert L. Borg

**Anne Enke**

B.A. with distinction '87, Swarthmore College. Degree:  
Master of Arts, June '92. Major: Comparative Studies in  
Discourse and Society. Minor: Related Fields. Major  
Adviser: Bruce K. Lincoln

**Cynthia Evelyn Epland, New Brighton**

B.A.S. '86, University of Minnesota. Degree: Master of  
Arts, May '92. Major: Educational Psychology. Minor:  
Related Fields. Major Adviser: John E. Rynders

**Richard Paul Fairbanks, Minneapolis**

B.S. '88, California State University. Degree: Master of  
Arts, April '92. Major: Home Economics Education.  
Minor: Related Fields. Thesis: Sex Education: The Hidden  
Agenda. Major Adviser: Jane E. Plihal

**Martin Shields Fallon**

B.A. cum laude '88, St. John's University. Degree:  
Master of Arts, August '92. Major: History. Minor:  
Related Fields. Major Adviser: Theofanis G. Stavrou

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B.A. cum laude '88, St. John's University. Degree:  
Master of Arts, July '92. Major: Speech-Communication.  
Minor: Related Fields. Major Adviser: George L. Shapiro

**Susan Christine Farmer, Minneapolis**

B.A. '84, Carleton College. Degree: Master of Arts, May  
'92. Major: English as a Second Language. Minor:  
Related Fields. Major Adviser: Elaine E. Tarone

**Carlos A Pessoa de Figueiredo, Recife,  
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Engenheiro '76, Universidade Federal de Pernambuco.  
Degree: Master of Arts, July '92. Major: Public Affairs.  
Major Adviser: John M. Bryson

**James F. Flegel, Minneapolis**

B.A. cum laude '87, St. Olaf College. Degree: Master of  
Arts, June '92. Major: Music. Minor: Related Fields.  
Thesis: Quintet for Guitar and Strings. Major Adviser:  
Paul Fetler

**Katrin Regina Frimansdottir, Akureyri, Iceland**

B.Ed. '83, Iceland Institute of Education. Degree: Master  
of Arts, June '92. Major: Educational Administration.  
Minor: Related Fields. Major Adviser: Neal C. Nickerson

**Ching Hui Samantha Fu, Taiwan**

B.A. '85, National Taiwan Normal University. Degree:  
Master of Arts, April '92. Major: Music Education.  
Minor: Related Fields. Major Adviser: Charles E. Furman

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B.A. with distinction '89, University of Kansas. Degree:  
Master of Arts, September '92. Major: Public Affairs.  
Major Adviser: Robert T. Kudrle

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B.B.A. '85, University of North Dakota. Degree: Master  
of Arts, July '92. Major: Speech-Communication. Minor:  
Related Fields. Thesis: An Examination of Gender  
Biasing in Instructor-Student Interaction in Corporate  
Level Training. Major Adviser: Becky S. Kröll

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B.S. '84, St. Cloud State University. Degree: Master of  
Arts, June '92. Major: Industrial Relations. Minor:  
Related Fields. Major Adviser: Brian P. McCall

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B.A. '87, Concordia College. Degree: Master of Arts,  
April '92. Major: German. Minor: Related Fields. Major  
Adviser: Ruth-Ellen B. Joeres

**Thomas Brian Gilles, Clear Lake, Iowa**

B.B.A. with distinction '86, University of Iowa. Degree:  
Master of Arts, August '92. Major: Public Affairs. Major  
Adviser: Donald P. Geesaman

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B.S.Ed. '82, University of Wisconsin. Degree: Master of  
Arts, April '92. Major: Kinesiology. Minor: Related  
Fields. Major Adviser: Michael Wade

**Thomas N. Gottesman, Media, Pa.**

B.A. summa cum laude '86, Hunter College. Degree:  
Master of Arts, August '92. Major: Psychology. Minor:  
Related Fields. Major Adviser: Auke Tellegen

**Alison Kennedy Grant, Dayton, Ohio**

B.A. '82, University of Minnesota. Degree: Master of  
Arts, May '92. Major: Mass Communication. Minor:  
Related Fields. Major Adviser: Donald M. Gillmor

**Lisa Ann Green, St. Paul**

B.S.N. '84, University of Minnesota. Degree: Master of  
Arts, August '92. Major: Kinesiology. Minor: Related  
Fields. Major Adviser: Richard S. Crow

**Elizabeth Anne Griffin, Dumfries, Va.**

B.A. with high distinction '85, University of Virginia.  
Degree: Master of Arts, August '92. Major:  
Communication Disorders. Minor: Educational  
Psychology. Major Adviser: Joe E. Reichle

**Loren Oscar Gustafson**

A.B. magna cum laude '85, Ripon College. Degree:  
Master of Arts, June '92. Major: English. Minor: Related  
Fields. Major Adviser: Philip G. Furia

**In Ah Ha, Seoul, Korea**

B.A. '88, Hankuk University of Foreign Studies. Degree:  
Master of Arts, June '92. Major: East Asian Studies.  
Minor: Related Fields. Major Adviser: Edward M.  
Copeland

**Andrea Jeanne Hageman, St. Paul**

B.S.B. '89, University of Minnesota. Degree: Master of Arts. September '92. Major: Public Affairs. Major Adviser: James E. Jernberg

**Susan Janan Hagstrom, Minneapolis**

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**David Dean Hamilton**

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**Julie Anne Harrold, Edina**

B.S. '88, University of Minnesota. Degree: Master of Arts. August '92. Major: Public Affairs. Major Adviser: G. Edward Schuh

**Fredrik James Hausmann, Moorhead**

B.A. cum laude '88, Concordia College. Degree: Master of Arts. May '92. Major: English. Minor: Related Fields. Major Adviser: Michael D. Browne

**Anne Katherine Hauss**

B.A. '86, University of California. Degree: Master of Arts. July '92. Major: Political Science. Minor: Related Fields. Major Adviser: Terence W. Ball

**Risa Marie Hazel**

B.A. with honors '77, M.A. '83, University of Texas. Degree: Master of Arts, August '92. Major: English. Minor: Related Fields. Major Adviser: Maria Damon

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B.A. cum laude '84, Augustana College. Degree: Master of Arts. August '92. Major: Kinesiology. Minor: Related Fields. Major Adviser: Lela J. Stoner

**Catherine S. Henderson, Eden Prairie**

B.A. '79, Gustavus Adolphus College. Degree: Master of Arts. June '92. Major: Mathematics Education. Minor: Related Fields. Major Adviser: James E. Stochl

**Matthew William Henderson**

B.S. '89, North Dakota State University. Degree: Master of Arts. July '92. Major: Industrial Relations. Minor: Related Fields. Thesis: Job Candidate's Perceptions of Pre-Employment Integrity Testing. Major Adviser: Paul R. Sackett

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B.A. summa cum laude '86, University of Minnesota. Degree: Master of Arts, August '92. Major: English. Minor: Related Fields. Major Adviser: Peter J. Reed

**Carlin Adeline Hibbard, Eau Claire, Wis.**

B.S. '68, University of Wisconsin. Degree: Master of Arts. June '92. Major: Art History. Minor: Related Fields. Major Adviser: Michael W. Stoughton

**Edyth Allene Hill**

B.A. '85, Bennington College. Degree: Master of Arts. June '92. Major: Music. Minor: Related Fields. Major Adviser: Lloyd Ultan

**Kristi Jean Holden**

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**Bruce Wood Holsinger, Leesburg, Va.**

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**Zuway-R Hong**

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B.A. '88, Syracuse University. Degree: Master of Arts. June '92. Major: Comparative Studies in Discourse and Society. Minor: Related Fields. Major Adviser: John W. Mowitz

**Hsiu-Mei Huang**

B.A. '85, M.A. '87, National Taiwan University. Degree: Master of Arts. August '92. Major: Economics. Minor: Related Fields. Major Adviser: John S. Chipman

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**Joni Ann Iaquinto, Minneapolis**

B.S. '86, University of Minnesota. Degree: Master of Arts. July '92. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: John Schultz

**Noriko Iikura, Stanford, Calif.**

B.A. '69, Tsuda College. Degree: Master of Arts. June '92. Major: Japanese. Minor: Linguistics. Major Adviser: Wesley M. Jacobsen

**Paul Wayne Isaacs, St. Paul**

B.S. magna cum laude '80, Mankato State University. Degree: Master of Arts. July '92. Major: Music Education. Minor: Related Fields. Major Adviser: Paul A. Haack

**Ann Marie Isaacson, St. Paul**

B.A. '80, University of Minnesota. Degree: Master of Arts. September '92. Major: Design, Housing, and Apparel. Minor: Related Fields. Thesis: Scandinavian Mangleboards: A Comparative Study of Regional Styles from a Minnesota Sampling. Major Adviser: Timothy T. Blade

**Patricia Ann Iverson, Eden Prairie**

B.G.S. '81, University of Minnesota. Degree: Master of Arts. June '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Richard D. Arvey

**Eric Paul Jacobsen, Westlake, Ohio**

B.A. '89, College of Wooster. Degree: Master of Arts. July '92. Major: German. Minor: Related Fields. Major Adviser: Ruth-Ellen B. Joeres

**Nancy Ellen Jagger, Roseville**

B.S.B. '83, University of Minnesota. Degree: Master of Arts, January '90. Major: Industrial Relations. Minor: Related Fields. Major Adviser: James G. Scoville

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B.A. with distinction '83, University of Minnesota. Degree: Master of Arts, June '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Albert R. Tims, Jr.

**Doreen Elaine Johnson, Minneapolis**

A.B. magna cum laude '77, Augustana College. Degree: Master of Arts, September '92. Major: Public Affairs. Major Adviser: Morris M. Kleiner

**Mary Kathleen Johnston, Detroit, Mich.**

B.A. '87, University of Michigan. Degree: Master of Arts, April '92. Major: Child Psychology. Minor: Related Fields. Major Adviser: L. Alan Sroufe

**Paul Kevin Johnston, Minneapolis**

B.A. cum laude '77, St. John's University. Degree: Master of Arts, July '92. Major: Hispanic Literature. Minor: Related Fields. Thesis: The Function of Madness in the Humanism of Cervantes and Erasmus. Major Adviser: Anthony N. Zahareas

**Susan Stowe Johnston, Shawnee, Kan.**

B.A. with highest distinction '88, University of Kansas. Degree: Master of Arts, May '92. Major: Communication Disorders. Minor: Related Fields. Thesis: The Influence of Symbol Size and Array Type on Normal Children's Non-Identity Matching-Skills. Major Adviser: Joe E. Reichle

**Earl Robert Johnston III, Minneapolis**

B.A. '85, University of Iowa. Degree: Master of Arts, June '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Albert R. Tims, Jr.

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B.S. '82, Mankato State University. Degree: Master of Arts, April '92. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Stuart J. Schleien

**Amanda Bayla Kaibel, Minneapolis**

B.S. '90, University of Minnesota. Degree: Master of Arts, July '92. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Patricia A. Broen

**Jacqueline C. Kalina, Northfield**

B.A. '90, College of Saint Benedict. Degree: Master of Arts, August '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra L. Christenson

**Devorah C. Kantorowicz**

B.Sc. '81, M.Sc. '84, Technion—Israel Institute of Technology. Degree: Master of Arts, July '92. Major: Economics. Minor: Related Fields. Major Adviser: Neil Wallace

**Doris Kay Karls, Forest Lake**

B.A. '71, College of St. Benedict. Degree: Master of Arts, May '92. Major: Home Economics Education. Minor: Related Fields. Thesis: Parents' Experiences of Involvement in the Education of their High School Sophomores. Major Adviser: Marilyn A. M. Rossmann

**Satsuki Kawano, Japan**

B.A. '89, Keio University. Degree: Master of Arts, April '92. Major: Anthropology. Minor: Related Fields. Thesis: Selfhood and the Other in Japanese Fiction and Ethnography. Major Adviser: Gloria Goodwin Raheja

**John Anthony Kayfes, Jr., Hibbing**

B.A. magna cum laude '87, University of Minnesota. Degree: Master of Arts, June '92. Major: History. Minor: Related Fields. Major Adviser: Rudolph J. Vecoli

**Kimberly Jo Keefe, LaFayette, N.Y.**

B.S. '90, Le Moyne College. Degree: Master of Arts, July '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: James G. Scoville

**Karen Ann Keely**

B.A. '89, College of William and Mary. Degree: Master of Arts, July '92. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

**Kenneth Dean Kiehm**

B.S. '82, University of Minnesota. Degree: Master of Arts, August '92. Major: English as a Second Language. Minor: Linguistics. Major Adviser: Jeanette K. Gundel

**Dong-il Kim, Seoul, Korea**

B.A. '87, Seoul National University. Degree: Master of Arts, May '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Stanley L. Deno

**Karen Patricia Kingsley**

B.A. '85, Duke University. Degree: Master of Arts, April '92. Major: Public Affairs. Major Adviser: Barbara J. Nelson

**Robert Michael Kocher, Bloomington**

B.A. cum laude '89, University of Minnesota. Degree: Master of Arts, June '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Brian P. McCall

**Susan Elizabeth Kollin**

A.B. with high distinction '88, University of Michigan. Degree: Master of Arts, August '92. Major: English. Minor: Related Fields. Major Adviser: Kent R. Bales

**Darwin Craig Kreft, Manila, Philippines**

B.A. magna cum laude '76, Concordia College. Degree: Master of Arts, August '92. Major: Education. Minor: Related Fields. Major Adviser: John J. Cogan

**Ruth Ann Krueger**

B.S. '81, University of Minnesota. Degree: Master of Arts, June '92. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Richard E. Sykes

**Steven James Kuchera, Hibbing**

B.S. with distinction '81, University of Minnesota. Degree: Master of Arts, September '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Dona B. Schwartz

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**Jiyeon Hwang Kwun**

B.F.A. '85, Hong-Ik University. Degree: Master of Arts, April '92. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Advisers: Bonnie M. Morrison and Marian O. Bagley

**Andrew David Lainsbury, Edina**

B.A. summa cum laude '89, University of Minnesota. Degree: Master of Arts, August '92. Major: American Studies. Major Adviser: Karal Ann R. Marling

**Loren Weeks Langan, St. Paul**

A.B. with distinction '81, Dartmouth College. Degree: Master of Arts, September '92. Major: Economics. Minor: Related Fields. Major Adviser: Herbert D. Mohring

**Volker Max Langbehn, Stade, Germany**

M.S. '89, Cornell University. Degree: Master of Arts, September '92. Major: German. Minor: Related Fields. Major Adviser: Jochen Schulte-Sasse

**Fatima Tanni Lawson**

B.A. '83, M.A. '86, University of Ife. Degree: Master of Arts, July '92. Major: Educational Administration. Minor: Related Fields. Major Adviser: Charles H. Sederberg

**Linlee Lee**

B.A. magna cum laude '90, University of Wisconsin. Degree: Master of Arts, August '92. Major: Speech-Communication. Minor: Related Fields. Major Advisers: J. Vernon Jensen and Karlyn K. Campbell

**Theodore Gordon Lewis, Minneapolis**

B.A. magna cum laude '83, Bethel College. Degree: Master of Arts, May '92. Major: Religious Studies. Thesis: Idolatry and Iconoclasm in Pre-Exilic Israel. Major Adviser: Jonathan S. Paradise

**Mark A. Lindquist, Arden Hills**

B.A. '89, St. John's University. Degree: Master of Arts, June '92. Major: Public Affairs. Major Adviser: Dean E. Abrahamson

**Julie Rae Lindstrom, White Bear Lake**

B.S. '89, University of Minnesota. Degree: Master of Arts, April '92. Major: Communication Disorders. Minor: Related Fields. Thesis: A Performance-Intensity Function for Connected Discourse. Major Adviser: Charles E. Speaks

**Kristin Kay Little, Charles City, Iowa**

B.A. magna cum laude '90, Luther College. Degree: Master of Arts, August '92. Major: Communication Disorders. Minor: Related Fields. Thesis: The Influence of Familiarization on Perception of Severely Dysarthric Speech: An Acoustic/Perceptual Investigation. Major Adviser: Julie M. Liss

**Cheryl Beth Lochner, Janesville**

B.A. summa cum laude '86, Concordia College. Degree: Master of Arts, July '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Patricia R. McCarthy

**Fran Lowell, Minneapolis**

B.A. '76, Dowling College. Degree: Master of Arts, September '92. Major: Public Affairs. Major Adviser: Dean E. Abrahamson

**Kimberly Jean Lynch, Coon Rapids**

B.A. '84, Hamline University. Degree: Master of Arts, April '92. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

**Carolyn Carman MacDonald, Minneapolis**

B.A. '74, University of Minnesota. Degree: Master of Arts, July '92. Major: Sociology. Minor: Related Fields. Major Adviser: Ronald E. Anderson

**Diana Lynn Magnuson, New Brighton**

B.A. '88, Bethel College. Degree: Master of Arts, September '92. Major: History. Minor: Related Fields. Major Adviser: Sara M. Evans

**Paula Jo Maier, Hopkins**

B.A. cum laude '83, St. Olaf College. Degree: Master of Arts, June '92. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Jeanette K. Gundel

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B.S. with honors '87, University of South Dakota. Degree: Master of Arts, April '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Donald G. Maceachern

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B.A. '89, Spelman College. Degree: Master of Arts, July '92. Major: Public Affairs. Major Adviser: Barbara L. Lukermann

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B.A. with honors '86, Denison University. Degree: Master of Arts, May '92. Major: English. Minor: Related Fields. Major Adviser: Kent R. Bales

**Michael G. Matejcek, Minneapolis**

B.A. '88, University of Minnesota. Degree: Master of Arts, August '92. Major: English. Minor: Related Fields. Major Adviser: Michael D. Browne

**Setsuko Matsuyama, Japan**

B.A. '84, M.A. '86, Gakushuin University. Degree: Master of Arts, July '92. Major: Japanese. Minor: Related Fields. Major Adviser: R. Livia Monnet

**Kristin Helen Mayville**

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**Linda Mary McCarthy, Dublin, Ireland**

B.A. (honours) '89, University College Dublin. Degree: Master of Arts, August '92. Major: Geography. Minor: Related Fields. Major Adviser: Judith A. Martin

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B.P.E. '77, Lakehead University. Degree: Master of Arts, June '92. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Leo H. McAvoy, Jr.

**Steven Paul McGuire**

B.A. '83, University of Minnesota. Degree: Master of Arts, September '92. Major: English as a Second Language. Minor: Related Fields. Thesis: An Application of Cooperative Learning to Teaching English as a Foreign Language in Japan. Major Adviser: Elaine E. Tarone

**Meredith Ann McNab**

B.A. magna cum laude '82, Colorado College. Degree: Master of Arts, July '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Phillip J. Tichenor

**Katherine Lara Megarry, Coon Rapids**

B.A. summa cum laude '87, Hamline University. Degree: Master of Arts, August '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Mario F. Bognanno

**Emily Louise Meier**

B.A. '66, Brown University. Degree: Master of Arts, June '92. Major: English. Minor: Related Fields. Major Adviser: Michael D. Browne

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B.A. magna cum laude '71, College of St. Thomas; M.A. '76, Pacific Lutheran University. Degree: Master of Arts, June '92. Major: Public Affairs. Major Adviser: James E. Jernberg

**David P. Mermin, Atlanta, Ga.**

B.A. magna cum laude '87, Brown University. Degree: Master of Arts, July '92. Major: Geography. Minor: Related Fields. Major Adviser: Helga M. Leitner

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B.A. high honors '87, Wesleyan University. Degree: Master of Arts, June '92. Major: American Studies. Major Adviser: Susan K. McClary

**Janet Marie Mikrut, Duluth**

B.S. magna cum laude '74, Mankato State College. Degree: Master of Arts, June '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Glen W. Gadberry

**Kendall H. Millard, Sioux Falls**

B.A. summa cum laude '90, Morningside College. Degree: Master of Arts, September '92. Major: East Asian Studies. Minor: Related Fields. Major Adviser: Edward M. Copeland

**Scott Aaron Miller, Bloomington**

B.M. '84, University of Minnesota. Degree: Master of Arts, June '92. Major: Music. Minor: American Legal Institutions. Thesis: Symphonietta. Major Adviser: Paul Fetler

**Rae Zandlo Montgomery, St. Paul**

B.S. '80, University of Minnesota. Degree: Master of Arts, May '92. Major: Education. Minor: Related Fields. Major Adviser: Charles R. Bruning

**William John Moore, St. Paul**

B.A. '66, M.A. '67, Aquinas Institute of Philosophy and Theology. Degree: Master of Arts, August '92. Major: Education. Minor: Related Fields. Major Adviser: Howard Y. Williams

**Peter Martin Morales**

A.B. '86, Ripon College. Degree: Master of Arts, June '92. Major: Hispanic Literature. Minor: Luso-Brazilian Literature. Major Adviser: Rene Jara

**Monica Leigh Moses, Minneapolis**

B.A. Summa Cum Laude '81, St. Olaf College. Degree: Master of Arts, June '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Robert L. Craig

**Julie Ann Nelson, Minneapolis**

B.A. magna cum laude '89, Kansas State University. Degree: Master of Arts, May '92. Major: Anthropology. Minor: Related Fields. Thesis: Relics, Politics, Churches, and the Faithful in Anglo-Saxon England. Major Adviser: Peter S. Wells

**Alonzo Morris Newby**

B.A. '84, Elizabeth City State University. Degree: Master of Arts, April '92. Major: Public Affairs. Major Adviser: John E. Brandl

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B.S. summa cum laude '88, B.A. summa cum laude '88, University of Minnesota. Degree: Master of Arts, August '92. Major: Geography. Minor: Related Fields. Thesis: The Potential Impact of Global Greenhouse Warming: Scenarios on Minnesota's Water Resources. Major Adviser: Richard H. Skaggs

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B.A. '81, St. Olaf College. Degree: Master of Arts, April '92. Major: East Asian Studies. Minor: Related Fields. Major Adviser: Ann B. Waltner

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B.A. magna cum laude '90, University of Wisconsin. Degree: Master of Arts, August '92. Major: Education. Minor: Related Fields. Major Adviser: Caroline Turner

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B.M. '87, University of Minnesota. Degree: Master of Arts, June '92. Major: Music. Minor: Related Fields. Major Adviser: David A. Damschroder

**Miho Omi, Kanagawa, Japan**

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**Anthony A. Oshiotse**

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**Aroua Ouanes**

Maitrise '80, Université de Tunis. Degree: Master of Arts, May '92. Major: French. Minor: Related Fields. Major Adviser: Maria F. Paganini

**Samir Ouanes**

Maitrise Es-Sciences '77, Université de Paris-Sud; DEA '78, Université de Paris-Dauphine; DEA '79 Institut National des Sciences et Techniques Nucleaires; Doctorat de Troisieme cycle '81, Université de Paris-Dauphine. Degree: Master of Arts, August '92. Major: Economics. Minor: Related Fields. Major Adviser: John S. Chipman

**Andrew Wade Padula, Anoka**

B.A. cum laude '86. Carleton College. Degree: Master of Arts, July '92. Major: Japanese. Minor: Related Fields. Major Adviser: Byron K. Marshall

**Robert Alan Paolino, Albany, N.Y.**

A.B. summa cum laude '84, Washington University in St. Louis. Degree: Master of Arts, August '92. Major: Political Science. Minor: Public Affairs. Thesis: A Comparative Analysis of Interest Group Representation in the Fifty States. Major Adviser: Virginia Gray

**Karen Lee Pastell, Minneapolis**

B.S. '85, University of Minnesota. Degree: Master of Arts, April '92. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Timothy N. Doyle

**Laura E. Pedrick**

B.S. '82, University of Wisconsin. Degree: Master of Arts, May '92. Major: Mass Communication. Minor: Related Fields. Thesis: The Transformation of the Political Press in Britain: A Case Study of the Manchester Guardian and Irish Home Rule, 1886-1914. Major Adviser: Chin-Chuan Lee

**Patricia Rys Peterson, St. Paul**

B.A. cum laude '88. College of Saint Benedict. Degree: Master of Arts, July '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Richard D. Arvey

**Mary Bridget Phifer, Eugene, Ore.**

B.A. magna cum laude '83, University of Oregon. Degree: Master of Arts, July '92. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Michal Kobialka

**Kurt McNeel Piemonte, Salem, Mass.**

B.A. cum laude '89, University of Massachusetts. Degree: Master of Arts, April '92. Major: Geography. Minor: Related Fields. Thesis: To the Farthest Port of the Rich East: The Growth of Salem and Nagasaki as Entrepots and Massachusetts Commercial Relations with Japan, 1799-1801. Major Adviser: Judith A. Martin

**Daniel Ford Pinkerton**

B.A. '75, University of Nevada. Degree: Master of Arts, April '92. Major: History. Minor: Related Fields. Major Adviser: Richard L. Rudolph

**Randall Helgoe Quale, St. Paul**

B.A. '83, University of Minnesota. Degree: Master of Arts, August '92. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Mary Jo Kane

**Peggy Sue Quirk**

B.B.A. summa cum laude '86, University of Wisconsin. Degree: Master of Arts, September '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Raymond A. Noe

**Janice Rae Horsager Rasmussen, St. Paul**

B.S. '86, University of Minnesota. Degree: Master of Arts, April '92. Major: Home Economics Education. Minor: Related Fields. Thesis: Always a Foreigner: Experiences of Nigerian Women in the Twin Cities. Major Adviser: Jane E. Pihlal

**Edward R. Raupp, Independence**

B.S. '58, Carnegie Institute of Technology; M.B.A. '66, University of Pennsylvania. Degree: Master of Arts, May '92. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

**David Timothy Rayson, Minneapolis**

B.A. summa cum laude '90, University of Minnesota. Degree: Master of Arts, June '92. Major: History. Minor: Related Fields. Thesis: "Like Evening Shadows": The History of Southeastern Native Americans from the Mississippian Era Until 1670. Major Advisers: Russell R. Menard and Jean M. Obrien

**Timothy John Reardon, Minneapolis**

B.A. '81, St. John's University. Degree: Master of Arts, July '92. Major: Public Affairs. Major Adviser: John E. Brandl

**Wendy Sue Reed-Wilkins, Omaha, Neb.**

B.A. with distinction '88, University of Nebraska. Degree: Master of Arts, June '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Thomas J. Hummel

**Randall Scott Reid**

B.S. '88, University of Minnesota. Degree: Master of Arts, July '92. Major: Music Education. Minor: Related Fields. Major Adviser: Paul A. Haack

**Jay John Reker, Worthington**

B.S. '75, University of Minnesota. Degree: Master of Arts, July '92. Major: Educational Administration. Minor: Related Fields. Major Adviser: Gary F. Alkire

**Thomas Joseph Reynolds, Minneapolis**

B.A. with honors '81, University of Notre Dame. Degree: Master of Arts, May '92. Major: English. Minor: Related Fields. Major Adviser: Edward M. Griffin

**Barbara Hull Riesen, Shorewood**

B.A. magna cum laude '82, Cornell College. Degree: Master of Arts, August '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra L. Christenson

**Renee D. Robinson**

B.A. summa cum laude '90, Texas Christian University. Degree: Master of Arts, May '92. Major: Political Science. Minor: Related Fields. Major Adviser: Martin W. Sampson III

**Frank A. Romero, Chicago, Ill.**

B.A. '87, Northeastern Illinois University. Degree: Master of Arts, September '92. Major: Public Affairs. Related Fields. Major Adviser: Nancy N. Eustis

**Andrea Dee Roslansky, Minneapolis**

B.A. '89, Hamline University. Degree: Master of Arts, July '92. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Clark D. Starr

**William Anthony Rozaitis, Minneapolis**

B.A. '86, Gustavus Adolphus College. Degree: Master of Arts, April '92. Major: English. Minor: Related Fields. Major Adviser: Robert L. Brown, Jr.

**Thomas John Ryan**

B.A. '86, University of Minnesota. Degree: Master of Arts, September '92. Major: English. Minor: Related Fields. Major Adviser: Michael D. Browne

**Karen Louise Hanson Savage, Minneapolis**

B.S. '82, Moorhead State University. Degree: Master of Arts, April '92. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Samuel K. Haroldson

**Paul Stephen Schmid, St. Paul**

B.A. '84, College of St. Thomas. Degree: Master of Arts, July '92. Major: Sociology. Minor: Related Fields. Major Adviser: Ronald E. Anderson

**Douglas Devlin Schmidt, Edmonton, Alberta, Canada**

B.A. (special) '89, University of Alberta. Degree: Master of Arts, July '92. Major: Child Psychology. Minor: Related Fields. Major Adviser: Charles A. Nelson

**Diane Iva Schon, Minneapolis**

A.B. '86, Columbia University. Degree: Master of Arts, June '92. Major: Elementary Education. Minor: Related Fields. Major Adviser: John C. Manning

**Albert Laverne Shaff, Menahga**

B.S. '61, Bemidji State College. Degree: Master of Arts, June '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Phillip J. Tichenor

**Gregory Thomas Skwira, Royal Oak, Mich.**

B.A. '70, St. John's University. Degree: Master of Arts, May '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Donald M. Gillmor

**Anne Elizabeth Sletten, Ames, Iowa**

B.A. '83, St. Olaf College. Degree: Master of Arts, June '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Paul R. Sackett

**Stephen Joseph Smela, Minneapolis**

A.B. with high honors '87, Princeton University. Degree: Master of Arts, September '92. Major: Geography. Minor: Related Fields. Major Adviser: John G. Rice

**Cooksey Jean Smith**

B.S. '78, University of Minnesota. Degree: Master of Arts, April '92. Major: Elementary Education. Minor: Related Fields. Major Adviser: Harlan S. Hansen

**Deborah B. Smith, Glenn Dale, Md.**

B.S. '88, Cornell University. Degree: Master of Arts, July '92. Major: Family Social Science. Minor: Related Fields. Thesis: Factors Influencing the Labor Force Participation and Labor Force Attachment Decision of Minnesota Farm Women. Major Adviser: Sharon M. Danes

**Gregory Wayne Smith, Vadnais Heights**

B.A. '79, Bethel College. Degree: Master of Arts, July '92. Major: Mass Communication. Minor: Related Fields. Thesis: Making Medicine Matter: A Study of Hospital Communications. Major Adviser: Phillip J. Tichenor

**Carol Joyce Steinbach, Minneapolis**

B.A. '77, Bethel College. Degree: Master of Arts, April '92. Major: English. Minor: Related Fields. Major Adviser: Michael D. Browne

**James G. Stevens**

B.M. '78, Northern Illinois University. Degree: Master of Arts, May '92. Major: Music. Minor: Related Fields. Major Adviser: Paul Fetler

**Mary Margaret Stieber**

B.S. magna cum laude '86, Carroll College. Degree: Master of Arts, June '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Lorraine S. Hansen

**Scott Andrew Storia, Maplewood**

B.S. '68, University of Minnesota. Degree: Master of Arts, June '92. Major: Mathematics Education. Minor: Related Fields. Major Adviser: James E. Stochl

**Karen A. Storz, Hamden, Conn.**

B.A. magna cum laude '83, Wellesley College. Degree: Master of Arts, July '92. Major: German. Minor: Related Fields. Major Adviser: Ruth-Ellen B. Joeres

**Kimberly Ann Stuart, Minneapolis**

B.A. magna cum laude '88, Hamline University. Degree: Master of Arts, June '92. Major: Public Affairs. Major Adviser: G. Edward Schuh

**Kevin Arthur Stueven, Lake Benton**

B.S. '82, B.S. '83, Mankato State University. Degree: Master of Arts, June '92. Major: Ancient Studies. Major Adviser: Philip H. Sellew

**Lucia Aurora Stueven, Lake Benton**

Diploma '80, "Babes-Bolyai" University of Cluj-Napoca. Degree: Master of Arts, August '92. Major: French. Minor: Related Fields. Major Adviser: Maria F. Paganini

**Helen Violet Swanson**

B.G.S. '78, University of Minnesota. Degree: Master of Arts, August '92. Major: Marketing Education. Minor: Related Fields. Major Adviser: James R. Stone III

**Michelle Marie Swift, Minneapolis**

B.A. '86, Augsburg College. Degree: Master of Arts. August '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Cheri Ostroff

**Zahra Tafarrodi**

B.A. '88, University of Minnesota. Degree: Master of Arts. September '92. Major: Home Economics Education. Minor: Related Fields. Thesis: Early Sexual Experiences and Pregnancy of Jamaican Women. Major Adviser: Jerry McClelland

**Todd Robert Taylor**

B.S. cum laude '89, Central Michigan University. Degree: Master of Arts, June '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: James E. Ysseldyke

**Robert F. Thimmesh, Minneapolis**

B.S.B. '59, University of Minnesota. Degree: Master of Arts. July '92. Major: Philosophy. Minor: Political Science. Thesis: Desert, Natural Talents, and the Difference Principle: On John Rawls' Theory of Justice. Major Adviser: H. E. Mason

**Sandra Marie Thull, Lucan**

B.A. cum laude '88, College of St. Benedict. Degree: Master of Arts. June '92. Major: Educational Psychology. Minor: Elementary Education. Thesis: The Relationship Between Science Knowledge and Scientific Reasoning Skills Among Elementary School Students. Major Adviser: William M. Bart

**Susan Kristine Tollefson, Minneapolis**

B.A. '88, University of Minnesota. Degree: Master of Arts. August '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: John A. Fossum

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B.A. '90, National Taiwan University. Degree: Master of Arts. July '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Albert R. Tims, Jr.

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B.S. '79, Syracuse University. Degree: Master of Arts. May '92. Major: Public Affairs. Major Adviser: Nancy N. Eustis

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Doctorandus '88, Rijksuniversiteit te Leiden. Degree: Master of Arts. June '92. Major: History. Minor: Related Fields. Major Adviser: James D. Tracy

**Kathleen Anne Voss**

B.A. '87, Macalester College. Degree: Master of Arts. April '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra L. Christenson

**Jianping Wang, Jinan, Shandong, China**

B.A. '83, M.A. '88, Shandong University. Degree: Master of Arts. May '92. Major: Chinese. Minor: Related Fields. Major Adviser: Margaret Decker

**Peggy Jane Warner, Circle Pines**

B.S.N. '80, University of Wisconsin. Degree: Master of Arts. June '92. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Mario F. Bognanno

**Gloria Denise Warren, Detroit, Mich.**

B.S. '78, Michigan State University. Degree: Master of Arts. May '92. Major: Home Economics Education. Minor: Related Fields. Major Adviser: Ruth G. Thomas

**Kristin Grace Watkins, Chesterfield, Va.**

B.A. '90, Virginia Polytechnic Institute and State University. Degree: Master of Arts. September '92. Major: Public Affairs. Major Adviser: Barbara J. Nelson

**Mary Kay Pearson Watson, Minneapolis**

B.A. '68, University of Minnesota. Degree: Master of Arts. July '92. Major: Mass Communication. Minor: Related Fields. Major Adviser: Phillip J. Tichenor

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B.A. '89, University of Minnesota. Degree: Master of Arts. August '92. Major: Public Affairs. Major Adviser: Barbara J. Kanninen

**Thomas Anderson White, Asheville, N.C.**

B.S. '83, Humboldt State University. Degree: Master of Arts. April '92. Major: Anthropology. Minor: Related Fields. Thesis: Peasant Groups and Innovations in Soil Conservation in Haiti. Major Adviser: Frank C. Miller

**Jennifer Sue Wilson**

B.A. cum laude '86, University of Colorado. Degree: Master of Arts. June '92. Major: English. Minor: Related Fields. Major Adviser: Toni A. H. McNaron

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**Jonathan Stanley Byrne, Bovey**

B.A. '85, University of Minnesota. Degree: Master of Arts, September '92. Major: English. Minor: Education. Major Adviser: Martin F. Bock

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B.S. '89, University of Minnesota. Degree: Master of Arts, July '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra J. Woolum

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B.S. magna cum laude '87, University of Wisconsin. Degree: Master of Arts, May '92. Major: English. Minor: Related Fields. Major Adviser: Martin F. Bock

**Barbara Swift Balsley Day, Hoyt Lakes**

B.A. summa cum laude '87, University of Minnesota. Degree: Master of Arts, June '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Kristelle E. Miller

**Jeffrey D. Drake, Deer River**

B.A. '90, Gustavus Adolphus College. Degree: Master of Arts, September '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Jane C. Hovland

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B.S. '90, University of Minnesota. Degree: Master of Arts, July '92. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra J. Woolum

**Teresa Ann Boyle Falsani, Portland, Me.**

A.B. '71, Colby College. Degree: Master of Arts, May '92. Major: English. Minor: Related Fields. Major Adviser: Klaus P. Jankofsky

**Karen P. Frykholm, Duluth**

B.M.E. '73, Greenville College. Degree: Master of Arts, August '92. Major: Education-Music. Minor: Related Fields. Major Adviser: Judith A. Kritzmire

**Mara Kirk Hart, Duluth**

Degree: Master of Arts, September '92. Major: English. Minor: Related Fields. Major Adviser: Carol A. Bock

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B.S. cum laude '88, University of Wisconsin. Degree: Master of Arts, July '92. Major: English. Minor: Related Fields. Major Adviser: Klaus P. Jankofsky

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B.S. '66, Wayne State University. Degree: Master of Arts, June '92. Major: English. Minor: Related Fields. Major Adviser: Carol A. Bock

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B.A. '71, St. Olaf College. Degree: Master of Arts, June '92. Major: English. Minor: Related Fields. Major Adviser: Klaus P. Jankofsky

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B.A. '86, College of St. Catherine. Degree: Master of Arts, June '92. Major: Communication Disorders. Minor: Related Fields. Major Adviser: John T. Hatten

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**Nancy Muriel VanderVeen, Wingham, Ontario, Canada**

B.S. '89, Liberty University. Degree: Master of Arts. May '92. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Cindy S. Spillers

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*Specialist Certificate in Education*

**Cheryll Ann Gilman, Plymouth**

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**Jacqueline C. Kalina, Northfield**

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**Earline R. King**

B.S. '78, M.S. '84, St. Cloud State University. Degree: Certificate of Specialist in Education, August '92. Major: Education. Field: General Curriculum Supervision. Major Adviser: Richard D. Kimpston

**Julie Ann LeCaptain, Winthrop**

B.S.Ed. '74, Concordia Teachers College; M.A. '87, Cardinal Stritch College. Degree: Certificate of Specialist in Education, July '92. Major: Educational Administration. Field: Elementary School Administration. Major Adviser: Charles H. Sederberg

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B.A. '66, Concordia College; M.A. '72, St. Cloud State College. Degree: Certificate of Specialist in Education, June '92. Major: Educational Administration. Field: Secondary School Administration. Major Adviser: Clifford P. Hooker

**Yasmin Elvia Lucas-Rivera**

B.S. '75, M.Ed. '77, University of Oklahoma. Degree: Certificate of Specialist in Education, September '92. Major: Educational Administration. Field: General Educational Administration. Major Adviser: Neal C. Nickerson

**Wayne Arthur Olson, Waseca**

B.S. '75, Moorhead State College. Degree: Certificate of Specialist in Education, June '92. Major: Educational Administration. Field: Secondary School Administration. Major Adviser: William M. Ammentorp

**Wendy Sue Reed-Wilkins, Omaha, Neb.**

B.A. with distinction '88, University of Nebraska. Degree: Certificate of Specialist in Education, June '92. Major: Educational Psychology. Field: Counseling. Major Adviser: Thomas J. Hummel

**Barbara Hull Riesen, Shorewood**

B.A. magna cum laude '82, Cornell College. Degree: Certificate of Specialist in Education, September '92. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Sandra L. Christenson

**Kathleen Anne Voss**

B.A. '87, Macalester College. Degree: Certificate of Specialist in Education, April '92. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Sandra L. Christenson

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## *Doctor of Education*

### **LaMont D. Meinen, Menomonie, Wis.**

B.S. '68, M.S. '88, Stout State University. Degree: Doctor of Education, May '92. Major: Vocational Education. Minor: Supporting Program. Project: Technology Deployment for Wisconsin Manufacturers. Major Adviser: George H. Copa

### **Sharon Ann Boudinot Owens, Richfield**

B.S. '68, St. Cloud State College; M.A. '80, Spec.Ed. '82, University of Minnesota. Degree: Doctor of Education, May '92. Major: Educational Administration. Minor: Supporting Program. Project: Selecting Effective Teachers: The Interview Process. Major Adviser: Van D. Mueller

### **Luz Maria Serrano, Shoreview**

B.A. summa cum laude '76, Methodist College; Cert.Spec.Ed. '82, University of Minnesota. Degree: Doctor of Education, June '92. Major: Educational Administration. Minor: Supporting Program. Project: A Study of Post Secondary Enrollment Options for Saint Paul High School Students with Emphasis on Minority Students' Participation. Major Adviser: Neal C. Nickerson

### **Alice Kay Bechik Woog, St. Paul**

B.S. with distinction '72, M.A. '78, University of Minnesota; Spec.Ed. '85, College of St. Thomas. Degree: Doctor of Education, June '92. Major: Educational Administration. Minor: Supporting Program. Project: School Attendance Policy and its Effect on Unexcused Absences. Major Adviser: Neal C. Nickerson

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## *Doctor of Musical Arts*

### **David Overn Henderson, Fargo, N.D.**

B.S. '79, North Dakota State University; M.M. '87, University of Minnesota. Degree: Doctor of Musical Arts, June '92. Major: Music. Minor: Supporting Program. Major Advisers: Lawrence Weller and Everett L. Sutton

### **Harriet McCleary, Houston, Tex.**

B.M. '70, B.Mus.Ed. '70, Texas Christian University; M.M. '76, Westminster Choir College. Degree: Doctor of Musical Arts, June '92. Major: Music. Minor: Supporting Program. Major Adviser: Glenda Maurice

### **J. David Oliver, Cali, Columbia**

B.M. '84, Baylor University; M.M. '87, Peabody Conservatory of Music. Degree: Doctor of Musical Arts, June '92. Major: Music. Minor: Supporting Program. Major Advisers: Lydia Artymiw and Paul W. Freed

### **Stephanie Anne Wendt, Adelaide, South Australia**

B.M. '82, Curtis Institute of Music; M.M. '84, Indiana University. Degree: Doctor of Musical Arts, June '92. Major: Music. Minor: Supporting Program. Major Advisers: Everett L. Sutton and Lydia Artymiw

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## *Doctor of Philosophy*

### **Said Aboulfaraj, Meknes, Morocco**

Diplome d'Ingenieur d'Etat '83, Institut Agronomique et Veterinaire Hassan II; D.A.A. '83, Institut National Agronomique, Paris. Degree: Doctor of Philosophy, July '92. Major: Entomology. Minor: Supporting Program. Thesis: Comparison of the Two Principal Moroccan Races of Honey Bee (*Apis mellifera* L.). Major Adviser: Basil Furgala

### **John Jeffery Allen, Sun Prairie, Wis.**

B.S. with distinction '86, University of Wisconsin. Degree: Doctor of Philosophy, May '92. Major: Psychology. Minor: Supporting Program. Thesis: The Development and Validation of an Event-Related Potential Memory Assessment Procedure: Application to Hypnotically-Induced Amnesia. Major Adviser: William G. Iacono

### **Janet Lynn Andersen**

B.A. summa cum laude '79, LeTourneau College; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Mathematics. Minor: Supporting Program. Thesis: Determinantal Rings Associated with Symmetric Matrices: A Counterexample. Major Adviser: Joel L. Roberts

### **Pablo Emilio Arellano, Mexico**

D.V.M. '85, Universidad Nacional Autonoma de Mexico; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Performance and Economics of a Low-Input Housing System for a Feeder-Pig Operation. Major Adviser: Carlos Pijoan

### **Mary Ellen Ashcroft**

B.A. '87, College of St. Catherine. Degree: Doctor of Philosophy, September '92. Major: English. Minor: Supporting Program. Thesis: Exorcising the Angel by Craft: Writing as Incantation/Incarnation in the Work of Dorothy L. Sayers. Major Adviser: Lillian S. Bridwell-Bowles

### **Lance Bischoff Augustin, Chicago, Ill.**

B.S. '81, Northern Illinois University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Biochemistry. Minor: Supporting Program. Thesis: Regulation of Ribonucleotide Reductase Expression in *Escherichia coli*. Major Adviser: James A. Fuchs

**Alexandra Eloise Austin**

B.A. '86, M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Speech-Communication. Minor: Supporting Program. Thesis: Audience Processing of Mass Media Messages Concerning AIDS. Major Adviser: David L. Rarick

**Heidar Ghajar Azodanloo, Tehran, Iran**

B.A. '85, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Comparative Studies in Discourse and Society. Minor: Supporting Program. Thesis: Discourses of Mobilization in Post-Revolutionary Iran. Major Adviser: Bruce K. Lincoln

**Michael Alan Babcock, Lynchburg, Va.**

B.A. '82, M.F.A. '83, University of North Carolina. Degree: Doctor of Philosophy, May '92. Major: Germanic Philology. Thesis: The Stories of Attila's Death. Major Adviser: Robert P. Sonkowsky

**Hakima Bahri, Morocco**

Diplome d'Agronomie Generale '85, Diplome d'Ingenieur Agronome '87, Institut Agronomique et Veterinaire, Hasan II. Degree: Doctor of Philosophy, April '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Early Generation Bulk Testing and Combining Ability Analysis for a Recurrent Selection Program in Oat. Major Adviser: Deon D. Stuthman

**Samiran Banerjee, New Delhi, India**

Degree: Doctor of Philosophy, July '92. Major: Economics. Minor: Supporting Program. Thesis: Dominance Implementation. Major Advisers: Marcel K. Richter and Leonid Hurwicz

**Biman Basu, Calcutta, India**

M.A. '82, Jadavpur University; M.A. '83, North Carolina State University. Degree: Doctor of Philosophy, July '92. Major: English. Minor: Supporting Program. Thesis: Hybridity and the Dialogic in Black Women's Fiction. Major Advisers: Lillian S. Bridwell-Bowles and John S. Wright

**Carol McCormick Batty, St. Louis Park**

B.M.E. '74, Loyola University; M.Ed. '80, University of Maryland. Degree: Doctor of Philosophy, June '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparison of Computer Simulation and Video-Taped Roleplays as Instructional Methods in the Teaching of Specific Interviewing Skills. Major Adviser: Dorothy R. Loeffler

**Thomas James Belich, Shoreview**

B.A. '72, University of Minnesota; M.A. '78, University of Nebraska. Degree: Doctor of Philosophy, August '92. Major: Business Administration. Minor: Supporting Program. Thesis: Developing Foreign Trade Among Small Firms. Major Adviser: Orville C. Walker, Jr.

**Bonnie Holte Bennett, Sunfish Lake**

B.A. cum laude '82, College of St. Thomas; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: A Problem-Solving Approach to the Localization Problem. Major Adviser: William B. Thompson

**Karin Margaret Best, Ventura, Calif.**

B.A. '80, Williams College; B.A. '87, University of California. Degree: Doctor of Philosophy, June '92. Major: Psychology. Minor: Child Psychology. Thesis: The Role of IQ as a Predictive and Protective Factor for Competence From Middle Childhood to Late Adolescence. Major Advisers: Auke Tellegen and Ann S. Masten

**Deborah Gwayne Betsworth, Iowa City, Iowa**

B.A. magna cum laude '86, Luther College. Degree: Doctor of Philosophy, May '92. Major: Psychology. Minor: Supporting Program. Thesis: An Investigation of the Genetic and Environmental Influences on Vocational Interests. Major Adviser: Jo-Ida C. Hansen

**Sherrie Lynn Bettenhausen, Watford City, N.D.**

B.S.Ed. '79, M.S. '82, Minot State University. Degree: Doctor of Philosophy, June '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effect of Self-Recording and Self-Recording Plus Self-Reinforcement on Spelling Achievement. Major Adviser: Frank Henderson Wood

**Madhumita Bhowmick, Calcutta, India**

B.Tech. '82, University of Calcutta; M.Tech. '85, I.I.T. Kanpur. Degree: Doctor of Philosophy, July '92. Major: Civil Engineering. Minor: Supporting Program. Thesis: A Novel Closed Loop Air Stripping Process. Major Adviser: Michael J. Semmens

**Anthony Austin Bibus III, Richfield**

B.A. '68, College of St. Thomas; M.Ag. '70, University of Virginia. Degree: Doctor of Philosophy, July '92. Major: Social Work. Minor: Supporting Program. Thesis: The Influence of Supervisors on Social Workers' Practice with Involuntary Clients: An Exploratory Study of a Child Welfare Training Project. Major Adviser: Ronald H. Rooney

**David Walter Blackburn, Watertown, Conn.**

B.A. cum laude '85, Carleton College. Degree: Doctor of Philosophy, July '92. Major: Chemistry. Minor: Supporting Program. Thesis: Highly Reduced Organometallics of the Group IV Elements. Major Adviser: John E. Ellis

**Carl Edward Blair, St. Paul**

B.A. '85, St. Olaf College; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Ancient Studies. Minor: Supporting Program. Thesis: The Scale and Organization of the Iron Industry at Celtic Oppida: As Characterized by the Oppidum at Kelheim, Bavaria. Major Advisers: Peter S. Wells and Martha L. Mecartney

**David Eric Block, Newington, Conn.**

B.S.E. magna cum laude '86, University of Pennsylvania. Degree: Doctor of Philosophy, June '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Investigation of Host-Vector Interactions Using Polyploid *Saccharomyces cerevisiae*. Major Adviser: Friedrich Srienc

**Rachid Bouabid**

Diplome d'Agronomie Generale '85, Diplome d'Ingenieur Agronome, '87, Institut Agronomique et Veterinaire, Hassan II. Degree: Doctor of Philosophy, April '92. Major: Soil Science. Minor: Supporting Program. Thesis: Soil Solution Chemistry, Mineral Weathering, and Pedogenesis in Sandy Outwash Soils of East-Central Minnesota. Major Advisers: Edward A. Nater and David F. Grigal

**Kyria Louise Boundy-Mills, Minneapolis**

B.S. magna cum laude '87, Hope College. Degree: Doctor of Philosophy, August '92. Major: Biochemistry. Minor: Supporting Program. Thesis: A Saccharomyces cerevisiae RAD52 Allele Expressing a C-terminal Truncation Protein: Activities and Intragenic Complementation of Missense Mutations. Major Adviser: Dennis M. Livingston

**Jennifer Moye Bowes, Columbus, Ohio**

B.A. with honors '86, Ohio State University. Degree: Doctor of Philosophy, June '92. Major: Psychology. Minor: Supporting Program. Thesis: Nonverbal Memory Assessment for Dementia Evaluation: Improving the Visual Reproduction Test. Major Adviser: Auke Tellegen

**Vijaya L. Boyapati, Andhra Pradesh, India**

B.Pharm. '86, Banaras Hindu University. Degree: Doctor of Philosophy, June '92. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Design and Synthesis of Naltrindole Analogues as Delta Opioid Receptor Probes. Major Adviser: Philip S. Portoghese

**Simon Brandon, Haifa, Israel**

B.Sc. '87, Technion-Israel Institute of Technology. Degree: Doctor of Philosophy, August '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Heat Transfer by Combined Conduction, Convection and Radiation in Axisymmetric Enclosures. Applications to Crystal Growth from the Melt. Major Adviser: Jeffrey J. Derby

**Bonita Jo Bratina, Ladysmith, Wis.**

B.S. '81, University of Wisconsin. Degree: Doctor of Philosophy, April '92. Major: Microbiology. Minor: Supporting Program. Thesis: Determination of Methanotroph Profiles for Different Environments Using Molecular Biological Techniques. Major Adviser: Richard S. Hanson

**Andrew Chappell Brod, Durham, N.C.**

A.B. cum laude '81, University of Illinois; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Economics. Minor: Supporting Program. Thesis: Ore-Quality Selection in Nonrenewable Resource Extraction. Major Adviser: Herbert D. Mohring

**Nicholas Bull, Arlington, Va.**

B.A. '79, Ohio State University; M.A. '86, California State University. Degree: Doctor of Philosophy, September '92. Major: Economics. Minor: Supporting Program. Thesis: Optimal Taxation in an Endogenous Growth Model with Human Capital. Major Adviser: Timothy Kehoe

**John Knapp Butts**

B.S. '73, Jamestown College; M.S. '78, Iowa State University. Degree: Doctor of Philosophy, July '92. Major: Education. Minor: Supporting Program. Thesis: An Analysis of Curriculum Decision Making in Arizona School Districts. Major Adviser: Richard D. Kimpston

**Mario Cesareo**

B.A. magna cum laude '83, University of California; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Hispanic and Luso-Brazilian Literature and Linguistics. Minor: Supporting Program. Thesis: Estetica del Discurso Religioso Colonial. Major Adviser: Hernan Vidal

**Baekin Cha, Seoul, Korea**

B.Econ. '81, Seoul National University; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Economics. Minor: Supporting Program. Thesis: External Indebtedness, External Shocks, and Macroeconomic Managements. Major Adviser: Christopher A. Sims

**Dana Craig Chabot, Minneapolis**

B.A. summa cum laude '74, Macalester College; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Political Science. Minor: Supporting Program. Thesis: Skepticism and Citizenship in Modern Political Thought. Major Adviser: James Farr

**Yu-Wen Chang**

B.A. '83, M.S. '86, National Taiwan University. Degree: Doctor of Philosophy, June '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparison of Unidimensional and Multidimensional IRT Approaches to Test Information in a Test Battery. Major Adviser: Mark L. Davison

**Chien-Shing Chen, Taiwan**

B.Med '85, China Medical College. Degree: Doctor of Philosophy, May '92. Major: Pathobiology. Minor: Supporting Program. Thesis: A Mapping Study of Chromosome 11 Band q23—A Region Implicated in Hematopoietic Malignancies. Major Adviser: John H. Kersey

**Ken S.A. Chen, Kaiping, China**

B.S.Ch.E. cum laude '83, University of Maryland; M.S. '86, University of California. Degree: Doctor of Philosophy, July '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Studies of Multilayer Slide Coating and Related Processes. Major Adviser: L. E. Scriven

**Youjun Chen, Shanghai, China**

B.S. '86, University of Science and Technology of China; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Physics. Minor: Supporting Program. Thesis: Magnetotransport and Magnetometer Studies of Magnetic Thin, Sandwich and Multilayer Films. Major Adviser: E. Dan Dahlberg

**Yi Cheng**

B.S. '82, East China Normal University. Degree: Doctor of Philosophy, July '92. Major: Statistics. Minor: Mathematics. Thesis: Group Sequential Strategies in Two-Armed Bandit Problems. Major Adviser: Donald A. Berry

**Chia-Pin Chiu, Taiwan**

B.S. Eng. '84, National Taiwan University; M.S.M.E. '88, University of Minnesota. Degree: Doctor of Philosophy. April '92. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Particle Nucleation and Growth in a Plasma Synthesis Reactor. Major Adviser: Steven L. Girshick

**Phillip Kim Chou, Irvine, Calif.**

B.S. '84, University of Utah; M.S. '86, University of Wyoming. Degree: Doctor of Philosophy. August '92. Major: Chemistry. Minor: Supporting Program. Thesis: Reactive Species in the Gas Phase: A Variable Temperature Flowing Afterglow Study on the Formation, Reactivity, and Stability of Carbanions and Radical Anions. Major Adviser: Steven R. Kass

**Yueh-Ching Virginia Chou, Taiwan**

B.A. '81, Fu Jen Catholic University; M.A. '85, Tunghai University. Degree: Doctor of Philosophy. July '92. Major: Social Work. Minor: Supporting Program. Thesis: Developing and Testing an Intervention Program for Assisting Chinese Families in Taiwan who Have a Member with Developmental Disabilities. Major Adviser: Ronald H. Rooney

**Jin Taek Chung, Seoul, Korea**

B.Eng. '83, M.Eng. '85, Korea University. Degree: Doctor of Philosophy. August '92. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Flow and Heat Transfer Experiments in the Turbine Airfoil/Endwall Region. Major Adviser: Terrence W. Simon

**Candyce Lynn Clayton, St. Paul**

B.A. '71, Macalester College; M.A. '83, University of Minnesota. Degree: Doctor of Philosophy. April '92. Major: Comparative Literature. Minor: Supporting Program. Thesis: The Riddle, the Tale, the Question: Telling Gender, Poetics, and Psychoanalysis. Major Advisers: Ronald W. Sousa and Madelon Sprengnether

**Robert Russell Clinton, Minneapolis**

B.A. '83, University of Minnesota; M.S. '86, Florida Institute of Technology. Degree: Doctor of Philosophy. July '92. Major: Physics. Minor: Supporting Program. Thesis: A Cosmic Ray Propagation Model. Major Adviser: Cecil J. Waddington

**Sarit Sorana Cofman, Jerusalem, Israel**

B.A. '82, Hebrew University; M.A. '89, Tel Aviv University. Degree: Doctor of Philosophy. August '92. Major: Theatre Arts. Minor: Supporting Program. Thesis: Mnouchkine, Kantor, Brook: Spacetime Theatre Arts. Major Advisers: Charles M. Nolte and Michal Kobialka

**Stephen Tucker Cole, Providence, R.I.**

B.A. '79, University of Rochester; Ed.M. '82, Harvard University. Degree: Doctor of Philosophy. July '92. Major: Psychology. Minor: Supporting Program. Thesis: Negative and Positive Emotionality, Life Events and Adaptation During Late Adolescence. Major Advisers: Auke Tellegen and Ann S. Masten

**Daniel F. Cooper, Menasha, Wis.**

B.A. cum laude '83, University of Wisconsin; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy. July '92. Major: English. Minor: Supporting Program. Thesis: The Aztec Palimpsest: Discursive Appropriations of Mexican Culture. Major Adviser: Patricia M. Hampl

**Verna Corrine Corgan, St. Paul**

B.A. '84, M.A. '86, University of Minnesota. Degree: Doctor of Philosophy. September '92. Major: Speech-Communication. Minor: Supporting Program. Thesis: Stories of Justice: Controversial Judicial Opinions and the Community. Major Adviser: Robert L. Scott

**Mary Lynn Cowan, Johnstown, Pa.**

B.S. magna cum laude '79, University of Wisconsin; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy. May '92. Major: Education. Minor: Supporting Program. Thesis: The Effects of Take-Home Science Activities on Curiosity Levels, Attitudes Toward Science, and Parent/Child Interactions. Major Advisers: Eugene D. Gennaro and Frances P. Lawrenz

**David Scott Cross**

B.S. '81, University of Richmond; M.D. '87, Medical College of Virginia. Degree: Doctor of Philosophy in Otolaryngology. June '92. Major: Otolaryngology. Minor: Supporting Program. Thesis: Tumor Associated Prostaglandins and Host Immune Response in Squamous Cell Carcinoma of the Head and Neck. Major Advisers: Sung K. Juhn and George L. Adams

**Robert Joseph Dado, Elmwood, Wis.**

B.A. cum laude '86, Macalester College. Degree: Doctor of Philosophy. April '92. Major: Neuroscience. Minor: Supporting Program. Thesis: Anatomical and Physiological Studies of the Spinothalamic Tract in Rats. Major Adviser: Glenn J. Giesler, Jr.

**Joseph Irvine Daniel, Athens, Ohio**

B.A. '81, J.D. '84, Northwestern University. Degree: Doctor of Philosophy. June '92. Major: Economics. Minor: Supporting Program. Thesis: Peak-Load-Congestion Pricing and Optimal Capacity of Large Hub Airports: With Application to the Minneapolis-St. Paul Airport. Major Adviser: Herbert D. Mohring

**Khaled Day**

D.Eng. '86, University of Tunis; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy. April '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Arrangement Graphs: A Novel Class of Interconnection Networks. Major Adviser: Anand R. Tripathi

**Manuel Adrian Del Pino, Santiago, Chile**

Ingeniero '87, Universidad de Chile. Degree: Doctor of Philosophy. September '92. Major: Mathematics. Minor: Supporting Program. Thesis: Some Semilinear Elliptic Systems Without Variational Structure. Major Adviser: Wei-Ming Ni

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**Gianni De Nicolò**

Laurea '83, University of Rome. Degree: Doctor of Philosophy, September '92. Major: Economics. Minor: Supporting Program. Thesis: Optimal Banking Arrangements in Some Diamond and Dybvig Models with Sequential Service. Major Adviser: Neil Wallace

**Susan Harrington DeVogel, Minneapolis**

A.B. cum laude '71, Radcliffe College. Degree: Doctor of Philosophy, May '92. Major: Education. Minor: Supporting Program. Thesis: Ethical Decision Making in Organization Development: Current Theory and Practice. Major Adviser: Gary N. McLean

**Jonathan Paul Dick, Mountain Lake**

B.A. with highest honors '86, Tabor College. Degree: Doctor of Philosophy, August '92. Major: Chemistry. Minor: Supporting Program. Thesis: Laser Negative Ion Photoelectron Spectroscopy of Coordinatively Unsaturated Rhenium Carbonyls. Major Adviser: Doreen G. Leopold

**Murray Eldon Dixon, Calgary, Alberta, Canada**

B.S. (Honours) '85, University of Calgary; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Astrophysics. Minor: Supporting Program. Thesis: The Gamma-Ray Spectrum Resulting from pp Interactions in Quasars. Major Adviser: Wayne A. Stein

**Katharine Kelley Donaldson, Minneapolis**

B.S. '70, Skidmore College. Degree: Doctor of Philosophy, June '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Relationship of Maternal Depressive Symptoms and Attachment. Major Adviser: Byron Egeland

**Susan Gail Mackley Dosen**

B.S. '73, M.A. '75, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Educational Administration. Minor: Supporting Program. Thesis: Interagency Early Intervention Committees in Minnesota: Relationships Between Decision Making Style and Perception of Group Performance. Major Adviser: Richard F. Weatherman

**Sandra Lynn Drake, Flint, Mich.**

B.S. with honors '82, M.P.H. '84, University of Michigan. Degree: Doctor of Philosophy, August '92. Major: Pathobiology. Minor: Supporting Program. Thesis: Tumor Cell Heparan Sulfate Proteoglycan Mediates Adhesion to Fibronectin. Major Adviser: James B. McCarthy

**Lawrence Douglas Dunn, Minneapolis**

B.E.E. with distinction '81, M.S.E.E. '83, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: A New Approach to Test Vector Generation for Combinational Logic. Major Adviser: Larry L. Kinney

**Michael Allen Dvorak, Waconia**

B.A. cum laude '87, St. Olaf College. Degree: Doctor of Philosophy, July '92. Major: Chemistry. Minor: Supporting Program. Thesis: Far Infrared Spectroscopy of Van Der Waals Complexes and the Microwave Elucidation of a Quasi-Covalent System. Major Adviser: Kenneth R. Leopold

**Mary McIlvaine Dybvig**

A.B. cum laude '58, Radcliffe College; M.A. '68, New York University. Degree: Doctor of Philosophy, June '92. Major: Educational Administration. Minor: Supporting Program. Thesis: Student Characteristics of Low-Achieving Non-Special Education Secondary School Students in an Urban Setting. Major Adviser: Van D. Mueller

**Elisabete Cristina Echevarria, Bilbao, Spain**

Degree: Doctor of Philosophy, June '92. Major: Economics. Minor: Supporting Program. Thesis: Sectoral Composition and its Relation to Development. Major Adviser: Timothy Kehoe

**Jo Anne Eckhardt, Vadnais Heights**

B.S. '83, M.S. '86, University of Wisconsin. Degree: Doctor of Philosophy, September '92. Major: Education. Minor: Supporting Program. Thesis: Organizational Socialization of Adults in Professional Education Programs: Role Conceptions of Graduating Registered Nurses. Major Adviser: Karen S. Louis

**Michael Arthur Eierman, Oshkosh, Wis.**

B.S.B. '84, M.S. '85, University of Wisconsin. Degree: Doctor of Philosophy, May '92. Major: Business Administration. Minor: Supporting Program. Thesis: An Exploratory Investigation of the Process of Managerial Problem Definition: The Effect of Experiential Knowledge on the Structure and Content of Information Processing. Major Adviser: Carl R. Adams

**Salman Elbedour, Israel**

B.A. '85, Ben Gurion University of the Negev; M.A. '88, Spec.Cert.Ed. '90, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: Psychology of Children of War. Major Advisers: Geoffrey M. Maruyama and V. Lois Erickson

**Todd Anthony Ell**

B.S.E.E. magna cum laude '82, M.S. '83, University of North Dakota. Degree: Doctor of Philosophy, June '92. Major: Control Science and Dynamical Systems. Thesis: Hypercomplex Spectral Transformations. Major Adviser: E. Bruce Lee

**Pamela Ruth Erickson, Eagan**

B.S. '81, Marquette University; D.D.S. '87, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Oral Biology. Minor: Microbiology. Thesis: Characterization of the Platelet Aggregation-Associated Protein From Streptococcus sanguis. Major Adviser: Mark C. Herzberg

**Julio Escolano, Valencia, Spain**

Degree: Doctor of Philosophy, September '92. Major: Economics. Minor: Supporting Program. Thesis: Essays on Fiscal Policy, Intergenerational Transfers and Distribution of Wealth. Major Adviser: Timothy Kehoe

**Albert Crawford Esterline, Faribault**

B.A. '69, Lawrence University; M.Litt. '71, University of St. Andrews. Degree: Doctor of Philosophy, July '92. Major: Computer and Information Sciences. Minor: Mathematics. Thesis: Generation and Execution of Constraints in an Executable Subset of an Interval Temporal Logic. Major Adviser: James R. Slagle

**Kathy Jo Evertz, Fridley**

B.A. '82, M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Art History. Minor: American Studies. Thesis: Selling the Lady: Commercialization and the 1986 Statue of Liberty Centennial. Major Adviser: Robert B. Silberman

**Robert Parsons Ewing, Arnes, Iowa**

B.S. with highest distinction '83, University of Maine; M.S. '88, University of North Carolina. Degree: Doctor of Philosophy, April '92. Major: Soil Science. Minor: Supporting Program. Thesis: A Study of Surface Sealing Using Network Modeling and Image Analysis. Major Adviser: Satish C. Gupta

**Anne Elizabeth Faassen, Minneapolis**

B.A. '84, St. Olaf College; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Pathobiology. Minor: Supporting Program. Thesis: Cell Surface Chondroitin Sulfate Proteoglycan Involvement in Collagen-Mediated Melanoma Cell Motility and Invasion. Major Adviser: James B. McCarthy

**Debby Meredith Filler**

B.S. with distinction '76, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Incongruity in the Progeny of Interspecific Crosses of Vitis. Major Advisers: Peter D. Ascher and James J. Luby

**Deborah Gail Finkel**

B.S. summa cum laude '86, Centre College. Degree: Doctor of Philosophy, August '92. Major: Psychology. Minor: Supporting Program. Thesis: The Relationship Between Cognitive, Lifestyle, and Personality Variables and Age Differences in Memory Performance: Individual Differences and Behavior Genetic Approaches. Major Advisers: Matthew K. McGue and Paul W. Fox

**Janice Ann Fiola, Worthington**

B.A. '69, College of St. Catherine; B.S. '75, Mankato State College. Degree: Doctor of Philosophy, September '92. Major: Sociology. Minor: Supporting Program. Thesis: Development and Gender Stratification in the Labor Force: A Case Study of Brazil. Major Adviser: Ronald R. Aminzade

**Abby Sue Fisher**

B.A. '76, M.A. '83, California State University. Degree: Doctor of Philosophy, June '92. Major: Design, Housing, and Apparel. Minor: Supporting Program. Thesis: Mestizaje and the Cuadros de Castas: Visual Representations of Race, Status, and Dress in Eighteenth Century Mexico. Major Advisers: Joanne B. Eicher and Marla C. Berns

**Jeffrey Michael Florczak**

B.S. summa cum laude '85, Saginaw Valley State College. Degree: Doctor of Philosophy, May '92. Major: Physics. Minor: Supporting Program. Thesis: Transport and Structural Studies of Metallic Multilayer Films. Major Adviser: E. Dan Dahlberg

**Haakon Fossen, Bergen, Norway**

Cand.Mag. '83, Cand.Scient. '86, University of Bergen. Degree: Doctor of Philosophy, June '92. Major: Geology. Minor: Supporting Program. Thesis: Devonian Extensional Deformation in the Caledonian Orogen, Southern Norway. Major Advisers: Peter J. Hudleston and Christian P. Teyssier

**Daniel A. Freedman**

B.A. cum laude '86, Macalester College. Degree: Doctor of Philosophy, July '92. Major: Chemistry. Minor: Supporting Program. Thesis: 1. Investigations of Thermal and Photochemical Arene Displacement Reactions From Ruthenium and Osmium Arene Complexes. 2. Photochemical Carbon-Hydrogen Bond Activation Via the Photolysis of Iridium (III) Azide and Oxalate Complexes. Major Adviser: Kent R. Mann

**John Brent Friesen, Mountain Lake**

B.A. magna cum laude '81, Bethel College. Degree: Doctor of Philosophy, May '92. Major: Chemistry. Minor: Supporting Program. Thesis: The Biosynthesis and Metabolism of Pyridine Alkaloids in Nicotiana: Nicotine Demethylase and Nicotine Synthase. Major Adviser: Marian Stankovich

**Qin Fu**

Degree: Doctor of Philosophy, May '92. Major: Genetics. Minor: Supporting Program. Thesis: Structural and Functional Analysis of Solo LTR-1 Locus in the Line-0 Chicken. Major Adviser: Anthony J. Faras

**Gary Dean Gackstetter, Watertown, S.D.**

B.S. '74, B.S. '75, South Dakota State University; D.V.M. '79, Iowa State University of Science and Technology; M.P.H. '85, Boston University. Degree: Doctor of Philosophy, September '92. Major: Epidemiology. Minor: Supporting Program. Thesis: The Use of Coarse Resolution Satellite Imagery to Predict Human Puumala Virus Epidemics in Sweden. Major Advisers: Robert W. Jeffery and Sandra L. Melnick

**Thomas M. Gaetz, Duluth**

B.S. '74, M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Education. Minor: Supporting Program. Thesis: The Effects of A Self-Monitoring Checklist on Elementary Students' Postreading Question-Answering Performance. Major Adviser: Barbara M. Taylor

**Gregory Arthur Gaut, Minneapolis**

B.A. '69, Saint Mary's College; J.D. cum laude '74, William Mitchell College of Law. Degree: Doctor of Philosophy, August '92. Major: History. Minor: Supporting Program. Thesis: A Christian Westernizer: Vladimir Solovyov and Russian Conservative Nationalism. Major Adviser: Theofanis G. Stavrou

**David John Gebhardt, Hayfield**

B.S. with distinction '87, Iowa State University of Science and Technology; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Relationship of Kernel Weight and Morphology to Agronomic and Malting Quality Traits in Barley. Major Adviser: Donald C. Rasmuson

**Robert Eugene Geer, Akron, Ohio**

B.S. summa cum laude '86, Miami University. Degree: Doctor of Philosophy, April '92. Major: Physics. Minor: Supporting Program. Thesis: Heat Capacity Studies of Surface and Dimensional Effects on the Liquid-Hexatic Transition in Free-Standing Liquid-Crystal Films. Major Adviser: Cheng-Cher Huang

**Michael James Genin, New Brighton**

B.A. cum laude '87, College of St. Thomas. Degree: Doctor of Philosophy, July '92. Major: Medicinal Chemistry. Minor: Chemistry. Thesis: Asymmetric Synthesis and Conformational Analysis of Lactam and Spirolactam Analogues of L-Prolyl-L-Leucylglycinamide. Major Adviser: Rodney L. Johnson

**Frank Barry Gigler, Ada**

B.S. '83, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Business Administration. Minor: Supporting Program. Thesis: Self-Enforcing Voluntary Disclosures. Major Adviser: Chandra S. Kanodia

**Richard William Grinnell, San Luis Obispo, Calif.**

B.S. '84, California Polytechnic State University. Degree: Doctor of Philosophy, July '92. Major: English. Minor: Supporting Program. Thesis: English Demonology and Renaissance Drama: The Politics of Fear. Major Adviser: Shirley N. Clark Garner

**Anna Anita Grotans, Minneapolis**

B.A. '84, University of Minnesota; M.A. '85, University of Toronto. Degree: Doctor of Philosophy, August '92. Major: Germanic Philology. Thesis: Syntax in the St. Gall Classroom: Notker Labeo and the ordo naturalis. Major Adviser: Evelyn S. Firchow

**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, May '92. Major: Surgery. Minor: Supporting Program. Thesis: Local Immunosuppression in a Canine Renal Allograft Model. Major Advisers: Arthur J. Matas and Henry Buchwald

**Alice Mae Haviland Guckin, Duluth**

B.S. '56, M.Ed. '60, M.A. '66, Pennsylvania State University. Degree: Doctor of Philosophy, May '92. Major: Education. Minor: Supporting Program. Thesis: The Role of Mathematics Informal Focussed Writing in College Mathematics Instruction. Major Advisers: Thomas R. Post and Robert E. Orton

**Katherine Ann Guenther**

B.A. summa cum laude '75, Lawrence University. Degree: Doctor of Philosophy, July '92. Major: English. Minor: Supporting Program. Thesis: Motherdeath: A Meditation on the Sources and Consequences of the Language of Science and Medicine. Major Adviser: Robert L. Brown, Jr.

**Glen A. Halva-Neubauer, Radcliffe, Iowa**

B.A. '80, University of Iowa. Degree: Doctor of Philosophy, September '92. Major: Political Science. Minor: Supporting Program. Thesis: Legislative Agenda Setting in the States: The Case of Abortion Policy. Major Adviser: Virginia Gray

**Abdelhaq Hanafi, Morocco**

Diplome d'Ingenieur d'Application '80, Institut Agronomique et Veterinaire Hassan II; D.E.A. '83, Universite Pierre et Marie Curie. Degree: Doctor of Philosophy, July '92. Major: Entomology. Minor: Supporting Program. Thesis: Spread and Control of Potato Leafroll Virus in Potato: Implications for Management of Seed Potatoes in the Souss Valley, Morocco. Major Advisers: Edward B. Radcliffe and David W. Ragsdale

**Craig J. Hansen, Stillwater**

A.B. magna cum laude '76, A.M. '80, University of Illinois. Degree: Doctor of Philosophy, August '92. Major: English. Minor: Supporting Program. Thesis: Flow, Form, Context, and Technology: A Model for Understanding Communication in a Business Setting. Major Adviser: Donald Ross, Jr.

**Mary Patricia Harbaugh, Shoreview**

B.S. with honors '71, University of Maryland; B.S. magna cum laude '87, University of Wisconsin. Degree: Doctor of Philosophy, July '92. Major: Microbiology. Minor: Supporting Program. Thesis: Studies on Antigenic Variation of M Proteins of Group A Streptococci. Major Adviser: Paul P. Cleary

**Scott Richard Haring, Portage, Mich.**

B.S. Chem. '86, Michigan Technological University. Degree: Doctor of Philosophy, June '92. Major: Chemistry. Minor: Supporting Program. Thesis: Improved Reagents for Episulfonium Ion and Lewis Acid Mediated Cationic Cascade Annulations. Applications to Natural Product Synthesis. Major Adviser: Thomas S. Livinghouse

**Denise Janine Hazlett, Iowa City, Iowa**

B.A. '86, Grinnell College. Degree: Doctor of Philosophy, August '92. Major: Economics. Minor: Supporting Program. Thesis: Deposit Insurance and Regulation in a Diamond-Dybvig Banking Model with a Risky Technology. Major Adviser: Neil Wallace

**Sigian He**

B.Sc. '87, University of Science and Technology of China. Degree: Doctor of Philosophy, September '92. Major: Biochemistry. Minor: Supporting Program. Thesis: Kinetics of DNA Condensation by Hexamine Cobalt (III). Major Adviser: Victor A. Bloomfield

**Janet Lucille Reichl Heidinger**

B.S. with distinction '68, M.A. '80, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: Individual Differences in the Acquisition of Mastery and the Acquisition of Automaticity in Learning to Read Mirror-Image Text. Major Adviser: S. Jay Samuels

**Lenief Darlene Heimstead, St. Paul**

B.A. '76, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Linguistics. Minor: Supporting Program. Thesis: Cross-Language Studies of Adpositional Marking Form and Function. Major Adviser: Gerald A. Sanders

**Jeanne Frances Henjum, St. Paul**

B.A. '70, Macalester College; M.A. '74, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: Predictors of College Eating Disturbances. Major Adviser: James R. Rest

**Wayne Robert Hickenbottom, Tacoma, Wash.**

B.S. cum laude '85, University of Puget Sound. Degree: Doctor of Philosophy, September '92. Major: Economics. Minor: Supporting Program. Thesis: Dynamic Fiscal Policy with Endogenous Human Capital. Major Adviser: Timothy Kehoe

**Daniel Alan Hickman, Peoria, Ill.**

B.S. with distinction '88, Iowa State University of Science and Technology. Degree: Doctor of Philosophy, September '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Selectivity of Oxidation Reactions Over Catalytic Monoliths. Major Adviser: Lanny D. Schmidt

**D. Eric Hirst, Montreal, Quebec, Canada**

B.A. '85, M.Acct. '85, University of Waterloo. Degree: Doctor of Philosophy, April '92. Major: Business Administration. Minor: Supporting Program. Thesis: Auditors' Sensitivity to Factors Affecting the Reliability of Evidence Sources in Belief Revision. Major Adviser: Edward J. Joyce

**Carol Frances Hoffman, Center City**

B.S.N. cum laude '57, Hamline University; M.S. '76, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Family Social Science. Minor: Supporting Program. Thesis: Caregiving Among Older Couples: Context, Roles, and Adjustment. Major Advisers: M. Janice Hogan and Shirley L. Zimmerman

**Daniel J. Hofrenning, Northfield**

B.A. '80, Concordia College; M.Div. '84, Luther Theological Seminary; M.A. '85, Duke University. Degree: Doctor of Philosophy, August '92. Major: Political Science. Minor: Supporting Program. Thesis: In Washington But Not of It: Religious Lobbyists Challenge the State. Major Adviser: Virginia Gray

**Ralph John Holcomb**

B.A. '73, University of the Pacific; M.A. '77, M.S.W. '84, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Social Work. Minor: Supporting Program. Thesis: Mitigating the Effects of Depression in Elderly Males Through Environmental Manipulation: A Field Experiment. Major Adviser: Clifton D. Hollister

**Midhat Hondzo, Sarajevo, Yugoslavia**

Diploma '83, University of Sarajevo; M.S. '88, Free University of Brussels. Degree: Doctor of Philosophy, September '92. Major: Civil Engineering. Minor: Supporting Program. Thesis: Water Temperature Characteristics of Lakes Subjected to Climate Change. Major Adviser: Heinz G. Stefan

**Margaret Justine Hornbacher, Edina**

A.B. '63, University of California. Degree: Doctor of Philosophy, September '92. Major: Educational Administration. Minor: Supporting Program. Thesis: Leadership Consensus and Quality in Eight Magnet Programs of the Minneapolis Public Schools. Major Adviser: Van D. Mueller

**Shari Lynn Horner, Minneapolis**

B.A. cum laude '83, Luther College. Degree: Doctor of Philosophy, June '92. Major: English. Minor: Supporting Program. Thesis: Women's Literacy and Female Textuality in Old English Poetry. Major Adviser: Calvin B. Kendall

**Todd Jonathan Hostager, Maplewood**

B.A. cum laude '81, St. Olaf College. Degree: Doctor of Philosophy, April '92. Major: Business Administration. Minor: Supporting Program. Thesis: The Effects of Viewing Organizational Problems Through Single and Dual Metaphoric Lenses: An Experimental Study. Major Adviser: Stuart Albert

**Li-ts'ui Hsu, Changhua City, Taiwan**

B.A. '79 National Taiwan Normal University; M.A. '82, National Taiwan University. Degree: Doctor of Philosophy, June '92. Major: American Studies. Thesis: Images and Identity: Chinese Americans in Euro-American and Chinese American Fiction, 1970-1989. Major Adviser: Hyman Berman

**Yi-Min Hsu, San-Chung City, Taiwan**

B.S. '86, National Tsing Hua University. Degree: Doctor of Philosophy, September '92. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Study of Crystalline Textures and Noise Characteristics of CoCrTa Longitudinal Thin Film Media. Major Adviser: John M. Siverisen

**Haochuan Hu, Jiangsu, China**

B.Eng. '82, Zhejiang University. Degree: Doctor of Philosophy, June '92. Major: Aerospace Engineering. Minor: Supporting Program. Thesis: Studies in Multi-Component Fluid Mechanics. Major Adviser: Daniel D. Joseph

**Kin-Shan Huang, Taiwan**

B.S. '85, Chung-Yuan Christian University. Degree: Doctor of Philosophy, June '92. Major: Chemistry. Minor: Supporting Program. Thesis: Hydrogen-Bonded Nitroaniline Aggregates: Design, Preparation, Characterization, and Application to Nonlinear Optical Materials. Major Advisers: Margaret C. Etter and Louis H. Pignolet

**Christina Lois Drott Huck, Minneapolis**

B.A. cum laude '62, Lawrence University; M.A. '71, Cert.Spec.Ed. '82, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Educational Psychology. Minor: Psychology. Thesis: Midlife Career Changes of Men and Women. Major Adviser: Lorraine S. Hansen

**Charles Paul Hyser, Minneapolis**

B.A. '71, Cornell College; M.A. '78, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Education. Minor: Supporting Program. Thesis: Writing to Learn: Specific Applications in Third Grade Social Studies. Major Adviser: Barbara M. Taylor

**Eunmin Hyun**

M.H.Ec. '80, Hyosung Women's University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Family Social Science. Minor: Supporting Program. Thesis: Resource Adequacy Perception and Marital Satisfaction of Rural Couples: A Nonrecursive Model. Major Advisers: M. Janice Hogan and Jean W. Bauer

**Lisa Marie Isenberg, Lafayette**

B.A. '83, Gustavus Adolphus College. Degree: Doctor of Philosophy, April '92. Major: Psychology. Minor: Supporting Program. Thesis: Attention in Foveal and Peripheral Vision. Major Adviser: Gordon E. Legge

**Krishna Ramalingam Iyer, Bombay, India**

Degree: Doctor of Philosophy, April '92. Major: Pharmacognosy. Minor: Supporting Program. Thesis: Evaluation and Metabolism of (-)-6-Deoxycarbovir as a Prodrug for (-)-Carbovir. Major Advisers: W. Thomas Shier and Rory P. Remmel

**Lisa Jane vonBehren Jarvis, St. Paul**

B.S.Med.Tech. with distinction '77, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Biochemistry. Minor: Supporting Program. Thesis: Functional Studies of Lens Fiber Cell Membrane Proteins. Major Adviser: Charles F. Louis

**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, June '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Characterization of Image-Enhanced, C-Banded Oat (*Avena Spp.*) Monosomics and Identification of Oat Genomes and Homoeologous Chromosomes. Major Adviser: Ronald L. Phillips

**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, May '92. Major: Mass Communication. Minor: Supporting Program. Thesis: Knowing Pornography. Major Adviser: Donald M. Gillmor

**Gang-Hoan Jeong, Seoul, Korea**

B.A. '86, Hankuk University of Foreign Studies; M.S. '87, University of Wisconsin. Degree: Doctor of Philosophy, May '92. Major: Education. Minor: Supporting Program. Thesis: Perceived Post-Olympic Socio-Cultural Impacts by Residents from a Tourism Perspective: A Case Study in Chamsil, Seoul, Korea. Major Adviser: John Schultz

**Hoe-Uk Jeong, Korea**

B.A. '85, Seoul National University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Educational Administration. Minor: Supporting Program. Thesis: A Study of the Validity of a Korean Version of the Purdue Teacher Opinionnaire. Major Advisers: Charles H. Sederberg and Vernon L. Hendrix

**David Carl Jewett, Jefferson, Wis.**

B.A. cum laude '88, St. Olaf College. Degree: Doctor of Philosophy, June '92. Major: Psychology. Minor: Neuroscience. Thesis: Neuropeptide Y (NPY): Effects on Food Reinforced Behavior and Discriminative Stimulus Effects. Major Adviser: J. Bruce Overmier

**Lauren Dean Johnson, Plentywood, Mont.**

B.S.Agr. '87, Montana State University; M.S. '89, New Mexico State University. Degree: Doctor of Philosophy, June '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Morphology and Inheritance of Root Types in Alfalfa. Major Adviser: Donald K. Barnes

**David R. Jollie, Minneapolis**

B.S. '81. B.S. '82, University of Illinois. Degree: Doctor of Philosophy, September '92. Major: Biochemistry. Minor: Chemistry. Thesis: Structure and Mechanism of Formate Dehydrogenase Isolated from the Methanotroph, *Methylosinus trichosporium* OB3b. Major Adviser: John D. Lipscomb

**Ki In Joo, Korea**

B.Econ. '85, Yonsei University; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Sociology. Minor: Supporting Program. Thesis: Population Dynamics of Scientists: A Model Construction Approach from Ecological Ideas and Simulation Study. Major Adviser: David Knoke

**Jaya Raj Joshi, Darchula, Nepal**

B.Sc.Ag. with honors '77, Punjab Agricultural University; M.S. '81, University of Wisconsin. Degree: Doctor of Philosophy, April '92. Major: Soil Science. Minor: Supporting Program. Thesis: Tillage Effects on the Fate of Nitrogen Applied to Corn as Animal Manure and Fertilizer. Major Advisers: Satish C. Gupta and John F. Moncrief

**Michael Brian Jost, St. Cloud**

B.S. '87, College of St. Benedict. Degree: Doctor of Philosophy, June '92. Major: Materials Science and Engineering. Minor: Physics. Thesis: Electronic States of Fullerenes and Alkaline Earth Fullerenes: Photoemission and Inverse Photoemission Studies. Major Adviser: John H. Weaver

**Shawn Michael Kaeppler, Sheboygan, Wis.**

B.S. '87, University of Wisconsin. Degree: Doctor of Philosophy, June '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Molecular and Genetic Studies of Tissue Culture-Induced Variation in Maize. Major Adviser: Ronald L. Phillips

**Tamara Lynn Kaiser, Minneapolis**

B.A. '70, M.S. '72, University of Wisconsin. Degree: Doctor of Philosophy, May '92. Major: Family Social Science. Minor: Supporting Program. Thesis: The Supervisory Relationship: A Study of the Relationship Between Supervisor and Supervisee in the Clinical Supervision of Marriage and Family Therapists. Major Adviser: William J. Doherty

**Mark Steven Kalkoske, Wausau, Wis.**

B.S. with distinction '83, University of Wisconsin. Degree: Doctor of Philosophy, August '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Internal Representation of Attachment and Its Relationship to Moral Orientation in Middle Childhood. Major Adviser: Byron Egeland

**Nemanja Kaloper, Novi Sad, Serbia, Yugoslavia**

Diploma '87, University of Novi Sad. Degree: Doctor of Philosophy, September '92. Major: Physics. Minor: Supporting Program. Thesis: Some General Relativity from String Theory. Major Adviser: Keith A. Olive

**Byung-Chang Kang, Seoul, Korea**

B.Eng. '78, M.Eng. '80, Korea University. Degree: Doctor of Philosophy, September '92. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: A Study of Combining Networks. Major Adviser: Richard Y. Kain

**Kerry Lee Keen, Brodhead, Wis.**

B.S.E. magna cum laude '77, University of Wisconsin; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Geology. Minor: Supporting Program. Thesis: Geomorphology, Recharge, and Water-Table Fluctuations in Stabilized Sand Dunes: The Nebraska Sand Hills, U.S.A. Major Adviser: Hans O. Pfannkuch

**Steven H. Kelder, Cary, Ill.**

B.S. '82, Northern Illinois University; M.P.H. '88, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Epidemiology. Minor: Supporting Program. Thesis: Youth Cardiovascular Disease Risk and Prevention: The Minnesota Heart Health Program and the Class of 1989 Study. Major Adviser: Cheryl L. Perry

**Gregory Scott Kelner**

B.A. '85, University of California. Degree: Doctor of Philosophy, July '92. Major: Microbiology. Minor: Supporting Program. Thesis: The Murine Immune Response to Mouse Testicular Cytochrome C. Major Adviser: Ronald R. W. Jemmerson

**Joel Alan Kennedy, Mora**

B.E.E. '85, M.S.E.E. '88, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Methods of Analog-to-Digital Conversion in Power Constrained Signal Processing Systems. Major Adviser: Gerald E. Sobelman

**James Robert Keogh**

B.Ch.E. '86, M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Biomedical Engineering. Minor: Supporting Program. Thesis: Albumin-Binding Surfaces for Implantable Medical Devices. Major Adviser: John W. Eaton

**Gerard Lee Kiely, Leonia, N.J.**

B.A. '78, M.A. '80, Upsala College. Degree: Doctor of Philosophy, September '92. Major: Psychology. Minor: Supporting Program. Thesis: The Robustness of Item and Person Parameter Estimates to Variation in Person Discrimination in the Two-Parameter Logistic Model. Major Adviser: David J. Weiss

**Michael Ward Kierski, Sauk City, Wis.**

B.A. '84, St. Mary's College. Degree: Doctor of Philosophy, June '92. Major: Environmental Health. Minor: Supporting Program. Thesis: The Oral Bioavailability of Soil-Lead in the Weanling Rabbit. Major Advisers: Donald E. Barber and Jeffrey B. Stevens

**Dong Goo Kim, Korea**

M.D. '79, M.M.Sc. '82, Yonsei University. Degree: Doctor of Philosophy, September '92. Major: Pharmacology. Minor: Supporting Program. Thesis: Cocaine and Development: A Neurobehavioral Assessment. Major Adviser: Sheldon B. Sparber

**Jinyoung Kim, Kosung, Korea**

B.S. '85, Seoul National University; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Physics. Minor: Supporting Program. Thesis: String Model of Quantum Chromodynamics and Relativistic Meson Wavefunction. Major Adviser: Hiroshi Suura

**Myungsoo Kim, Seoul, Korea**

B.A. '75, M.Ed. '80, Seoul National University. Degree: Doctor of Philosophy, August '92. Major: Education. Minor: Supporting Program. Thesis: A Comparative Perspective on Rates of Return to Investments in Teacher Education: The Case of Korea. Major Adviser: Darrell R. Lewis

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**Tae San Kim, South Korea**

B.Ag. '77, Seoul City University; M.S.Ag. '85, Seoul National University. Degree: Doctor of Philosophy, June '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Identification of Genomic Regions Controlling Maturity in Maize (*Zea Mays* L.). Major Adviser: Ronald L. Phillips

**Yoon Hee Kim-Hwang, Seoul, Korea**

B.M. '83, M.M. '85, Seoul National University. Degree: Doctor of Philosophy, July '92. Major: Music. Minor: Supporting Program. Thesis: The Songs for Finding the Ox. Major Adviser: Alex J. Lubet

**Jack Kohler, Minneapolis**

B.A. '83, University of Pennsylvania. Degree: Doctor of Philosophy, September '92. Major: Geology. Minor: Supporting Program. Thesis: Glacial Hydrology of Storglaciaren, Northern Sweden. Major Adviser: Roger L. Hooke

**Kariofilis Theodoros Konstadinidis, Drama, Greece**

Diploma '87, Aristotelian University of Thessaloniki. Degree: Doctor of Philosophy, July '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Irreversible Adsorption of Polymers. Major Adviser: Matthew V. Tirrell

**Steven David Kopczak, San Pedro, Calif.**

B.S. '83, University of California. Degree: Doctor of Philosophy, July '92. Major: Genetics. Minor: Supporting Program. Thesis: Partial Characterization of the Arabidopsis Thaliana Tubulin Gene Families and Analysis of the TUA1 Isoform Using Antisense RNA. Major Adviser: D. Peter Snustad

**Karl Robert Krause, Naperville, Ill.**

B.S. *summa cum laude* '88, University of Illinois. Degree: Doctor of Philosophy, August '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Microstructure and Reactivity of Rhodium/Cerium Supported Catalysts. Major Adviser: Lanny D. Schmidt

**Betsy Thompson Kren, Minneapolis**

A.B. '78, Grinnell College. Degree: Doctor of Philosophy, April '92. Major: Biochemistry. Minor: Genetics. Thesis: Function and Regulation of Glutaredoxin in *Escherichia coli*. Major Adviser: James A. Fuchs

**Theresa Louise Kreutzer, Denver, Colo.**

Degree: Doctor of Philosophy, July '92. Major: Educational Psychology. Minor: Child Psychology. Thesis: Foster Care During the Infancy and Toddler Periods: A Prospective Study of the Impact of Placement on Development. Major Adviser: Byron Egeland

**Karl Ruben Krohn, St. Paul**

B.S. '68, University of Wisconsin; M.A. '83, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Sociology. Minor: Supporting Program. Thesis: Incomplete Data in Surveys of Human Populations: A Review of Sources and Solutions. Major Adviser: Donald G. McTavish

**Per Lennart Krusell, Stockholm, Sweden**

Civilekonom '85, Stockholm School of Economics. Degree: Doctor of Philosophy, April '92. Major: Economics. Minor: Supporting Program. Thesis: Dynamic, Firm-Specific Increasing Returns and the Long-Run Performance of Growing Economies. Major Adviser: Neil Wallace

**Jinghua Kuang, Yongxin, Jiangxi, China**

M.Sc. '85, Sichuan University. Degree: Doctor of Philosophy, September '92. Major: Mathematics. Minor: Supporting Program. Thesis: Certain Siegel-Hilbert Modular Forms of Square-Free Levels Are Representable as Theta Series. Major Adviser: Paul B. Garrett

**Jaeho Kum, Seoul, Korea**

B.Econ. '80, M.Econ. '82, Yonsei University. Degree: Doctor of Philosophy, July '92. Major: Economics. Minor: Supporting Program. Thesis: Dynamic Search of Non-Employed Individuals. Major Adviser: Kenneth I. Wolpin

**Lili Kuo, Taipei, Taiwan**

B.S. '84, National Taiwan University. Degree: Doctor of Philosophy, April '92. Major: Microbiology. Minor: Supporting Program. Thesis: Genomic Structure of Lactate Dehydrogenase-Elevating Virus (LDV). Major Adviser: Peter G. W. Plagemann

**Wing Sum Vincent Kwan**

B.SC. '87, University of Hong Kong. Degree: Doctor of Philosophy, June '92. Major: Chemistry. Minor: Supporting Program. Thesis: The Studies of Thiol-Terminated Oligoimide Rods on Gold. Major Adviser: Larry L. Miller

**Ming-Tain Lai, Taiwan**

B.S. '81, Tunghai University; M.S. '83, National Taiwan Normal University. Degree: Doctor of Philosophy, September '92. Major: Chemistry. Minor: Supporting Program. Thesis: Mechanistic Study of the Inactivation of Medium Chain Acyl-CoA Dehydrogenase by (Methylenecyclopropane) Acetyl-CoA, Molecular Basis of Jamaican Vomiting Sickness. Major Adviser: Hung-Wen Liu

**Zona C. Lai, St. Paul**

B.A. '86, Duke University. Degree: Doctor of Philosophy, August '92. Major: Psychology. Minor: Supporting Program. Thesis: A Neuropsychological Test of Cortical Circuitry Subserving Affective Processing in the Developing Human Brain. Major Advisers: Gloria R. Leon and Elsa G. Shapiro

**Abderrazak Lakjaa, Meknes, Morocco**

Diplome d'Agronomie General '80, Ingenieur d'Etat en Agronomie '82, Institut Agronomique et Veterinaire Hassan II. Degree: Doctor of Philosophy, July '92. Major: Education. Minor: Supporting Program. Thesis: A Reassessment of the Classical Diffusion of Innovations Model in the Meknes Region of Morocco. Major Advisers: Edgar A. Persons and George W. Wardlow

**Marion Hogan Larson, Richfield**

B.A. with high honor '82, Wheaton College. Degree: Doctor of Philosophy, June '92. Major: English. Minor: Supporting Program. Thesis: Writers in Transition: Undergraduate Interns Face New Demands. Major Adviser: Donald Ross, Jr.

**Chengho Lee, Taiwan**

B.S. '82, M.S. '85, National Taiwan University. Degree: Doctor of Philosophy, April '92. Major: Geo-Engineering. Minor: Supporting Program. Thesis: Identification of Failure Mechanisms of Underground Openings by an Approximate Reasoning System. Major Adviser: Raymond L. Sterling

**Gil U. Lee**

B.S. with highest distinction '87, Purdue University. Degree: Doctor of Philosophy, July '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: A Study of Selected Biological Macromolecules with Scanning Probe Microscopy. Major Adviser: D. Fennell Evans

**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, June '92. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Particulate Retention by Microporous Membrane Filters in Liquid Filtration. Major Adviser: Benjamin Y. H. Liu

**Ki-Jeong Lee, Seoul, Korea**

B.A. '83, M.A. '85, Hanyang University. Degree: Doctor of Philosophy, August '92. Major: Linguistics. Minor: Supporting Program. Thesis: Topics in the Internal Structure of Phonological Representations: With Reference to External Evidence. Major Adviser: Joseph P. Semberger

**Paul Norman Lee, Minneapolis**

B.A. '74, Minot State College; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Education. Minor: Supporting Program. Thesis: Graphic Identities of Prestigious American Colleges and Universities: Organizational Culture and Institutional Identity. Major Adviser: Darrell R. Lewis

**Seok-Young Lee, Korea**

B.B.A. '83, Seoul National University. Degree: Doctor of Philosophy, August '92. Major: Business Administration. Minor: Supporting Program. Thesis: Essays on Management Accounting and Incentive Contracts for Some New Production and Selling Strategies. Major Adviser: Rajiv D. Banker

**Young-Myon Lee, Korea**

B.B.A. '84, Yonsei University; M.B.A. '86, Seoul National University. Degree: Doctor of Philosophy, August '92. Major: Industrial Relations. Minor: Supporting Program. Thesis: Strike Incidence and Duration in Korea: An Empirical Analysis of Asymmetric Information and Industrial Relations Variables. Major Adviser: Mario F. Bognanno

**Marsha Lynn Lewis, Edina**

B.S.N. cum laude '72, Wisconsin State University; M.S. '77, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Education. Minor: Supporting Program. Thesis: Development and Testing of a Cognitive Task Complexity Model. Major Adviser: Carol A. Carrier

**Jianjun Li, China**

B.S. '83, Xiangtan University; M.S. '86, Nankai University. Degree: Doctor of Philosophy, September '92. Major: Chemistry. Minor: Supporting Program. Thesis: Solvatochromic and Thermodynamic Studies of Retention in Gas Chromatography and Gas-Liquid Equilibria. Major Adviser: Peter W. Carr

**Xiaoming Li**

B.S. '82, Nanjing University. Degree: Doctor of Philosophy, August '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: An Investigation of Proximity Measures with Dichotomous Item Response Data in Nonmetric Multidimensional Scaling. Major Advisers: Jack C. Merwin and Mark L. Davison

**Moez Limayem, Ksar-Hellal, Tunisia**

Maitrise '85, Institut Supérieur de Gestion; M.B.A. '88, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Business Administration. Minor: Supporting Program. Thesis: Automating Decision Guidance: Design and Impacts in a Group Decision Support Environment. Major Adviser: Gerardine Desanctis

**Dezhang Lin**

Degree: Doctor of Philosophy, June '92. Major: Geo-Engineering. Minor: Supporting Program. Thesis: Elements of Rock Block Modeling. Major Adviser: Charles Fairhurst

**Huann-Shyang Lin, Taiwan**

B.Ed. '77, National Taiwan Normal University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Education. Minor: Supporting Program. Thesis: Trend Analysis and Prediction of Students' Science Attitude and Achievement in Taiwan, Republic of China. Major Adviser: Frances P. Lawrenz

**Jyh-Cherng Lin, Taiwan**

B.S. '82, National Chung-Hsing University; M.S. '84, National Tsing Hua University. Degree: Doctor of Philosophy, June '92. Major: Biophysical Sciences. Minor: Supporting Program. Thesis: Vascular Thermotolerance and its Influence on Tumor Response to Hyperthermia. Major Adviser: Chang W. Song

**Yu-Chen Lin, Taiwan**

B.A. '78, National Taiwan University; M.A. '81, State University of New York. Degree: Doctor of Philosophy, May '92. Major: English. Minor: Supporting Program. Thesis: The Poetics of Alterity in James Joyce's Ulysses. Major Adviser: Chester G. Anderson

**Rebecca Ann Lind, Manchester, N.H.**

B.A. '87, Humboldt State University; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Speech-Communication. Minor: Supporting Program. Thesis: Viewer Evaluations of Ethically Controversial Local Television News Content. Major Adviser: David L. Rarick

**Jeannette Marie Lindholm, St. Paul**

B.A. summa cum laude '83, Concordia College; M.A. '86, Indiana University. Degree: Doctor of Philosophy, July '92. Major: English. Minor: Supporting Program. Thesis: Bearing Witness to the Word: Language, Faith, and Learning in an Evangelical College Community. Major Adviser: Lillian S. Bridwell-Bowles

**Daqun Liu, Shijiazhuang City, China**

B.S. '82, Hebei Agricultural University; M.S. '85, Chinese Academy of Agricultural Sciences. Degree: Doctor of Philosophy, June '92. Major: Plant Pathology. Minor: Supporting Program. Thesis: Biological Control of *Streptomyces scabies* and Other Plant Pathogens. Major Adviser: Neil A. Anderson

**Jian Yi Liu**

M.S. '81, University of Science and Technology of China, Graduate School. Degree: Doctor of Philosophy, August '92. Major: Geography. Minor: Supporting Program. Thesis: China's Urban-Economic Regions: Spatial Structures, Functional Patterns and Territorial Organization Problems of Development. Major Adviser: John S. Adams

**Wenxiong Liu, Changsha, China**

M.S. '85, Chansha Institute of Technology. Degree: Doctor of Philosophy, April '92. Major: Mathematics. Minor: Supporting Program. Thesis: Blowup Problems of Semilinear Heat Equations. Major Adviser: Avner Friedman

**Whei-Ching Liu, Taiwan**

B.Ed. '79, M.Ed. '81, National Taiwan Normal University. Degree: Doctor of Philosophy, June '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: Conflict Resolution Processes in Close Relationships. Major Adviser: Geoffrey M. Maruyama

**Xiaohe Liu**

M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Industrial Engineering. Minor: Supporting Program. Thesis: Process Knowledge Base for Continuous Process Improvement. Major Adviser: Kevin J. Dooley

**Zhaowei Liu, Dalian, Liaoning, China**

B.S. '82, M.S. '84, Northeast Teachers' University; M.S. '89, Lakehead University. Degree: Doctor of Philosophy, September '92. Major: Forestry. Minor: Supporting Program. Thesis: Genome Analysis of Trembling Aspen and Bigtooth Aspen Using Molecular Genetic Markers. Major Adviser: Glenn R. Furnier

**Stanley F. Lo, Burnsville**

B.A. cum laude '85, St. Olaf College. Degree: Doctor of Philosophy, September '92. Major: Chemistry. Minor: Supporting Program. Thesis: Cloning and Characterization of the CDP-6-Deoxy-Delta-3,4-Glucose Reductase Gene. Major Adviser: Hung-Wen Liu

**Marc C. 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, July '92. Major: Civil Engineering. Minor: Mechanics. Thesis: A Three-Dimensional Boundary Element Method for Linear Elastodynamics. Major Adviser: Steven L. Crouch

**Randall Ray Lombard, Eau Claire, Wis.**

B.S. cum laude '75, M.S.Ed. '79, University of Wisconsin. Degree: Doctor of Philosophy, May '92. Major: Educational Administration. Minor: Supporting Program. Thesis: Persistence of Nontraditional Students in a Two-Year College: A Test of the Bean and Metzner Model. Major Adviser: William M. Ammentorp

**Mark Steffen Longtine**

B.S. '85, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Genetics. Minor: Supporting Program. Thesis: Characterization of a Telomere Binding Activity and of Telomere Repeat Plasmid Segregation in *Saccharomyces Cerevisiae*. Major Adviser: Judith G. Berman

**Ivo Luis Lopez-Bakovic**

B.S. magna cum laude '85, Texas A&M; M.S.Ag.E. '89, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Agricultural Engineering. Minor: Agricultural and Applied Economics. Thesis: Stochastic Modeling of Diffusive Contaminants in Porous Media. Major Adviser: John L. Nieber

**Jin Ma, Shanghai, China**

B.S. '82, M.S. '85, Fudan University. Degree: Doctor of Philosophy, June '92. Major: Mathematics. Minor: Supporting Program. Thesis: Topics on Singular Stochastic Control and Related Stochastic Differential Equations. Major Adviser: Naresh C. Jain

**Yamin Ma, Lingbi, Anhui, China**

B.S. '82, Branch College, Peking University; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A High Sensitivity, High Resolution Mass Spectrometer Beam System for Trace Contaminant Measurements. Major Advisers: Benjamin Y. H. Liu and Konrad Mauersberger

**Sherry A. Mulrooney Machen**

B.A. '80, M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Family Social Science. Minor: Supporting Program. Thesis: Family Structure and Family Resources: Their Influence on Children's Academic and Social Competence. Major Advisers: Kathryn D. Rettig and Ann S. Masten

**Joseph Anthony Maglio, Jr., Menomonie, Wis.**

B.B.A. '67, B.S.E. '70, Wisconsin State College; M.S. '78, Ed.S. '84, University of Wisconsin. Degree: Doctor of Philosophy, July '92. Major: Education. Minor: Supporting Program. Thesis: A Consumer Behavior Perspective on Choice of University. Major Adviser: Charles R. Hopkins

**Connie Jo Magnuson, Minneapolis**

B.S. '85, Wayne State University; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Education. Minor: Supporting Program. Thesis: Motives for Working in a Non-Traditional Organizational Summer Camp Job: A Test of the Content Theories. Major Adviser: Leo H. McAvoy, Jr.

**Matthias Kasaija Magunda, Kampala, Uganda**

B.Sc. '74, Makerere University; Licentiaat '81, State University of Ghent. Degree: Doctor of Philosophy, July '92. Major: Soil Science. Minor: Supporting Program. Thesis: Influence of Some Physico-Chemical Properties on Soil Strength, Stability of Crusts and Soil Erosion. Major Adviser: William E. Larson

**S. Maheswaran, India**

P.G.D.M. '86, Indian Institute of Management, Calcutta. Degree: Doctor of Philosophy, May '92. Major: Business Administration. Minor: Supporting Program. Thesis: Predictable Short-Term Variation in Asset Prices. Major Advisers: Christopher A. Sims and Ravi K. Jagannathan

**Sara Frances Maltzman, Golden Valley**

B.A. with honors '81, University of Oregon; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Psychology. Minor: Neuroscience. Thesis: An Analysis of Visual Stimulus Characteristics Which Modify the Perception of Acute Pain. Major Advisers: Jo-Ida C. Hansen and J. Bruce Overmier

**Timothy Richard McClernon, Saint Paul**

B.A. '79, College of St. Thomas; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Education. Minor: Supporting Program. Thesis: Effects of Computer-Based Support on Team Building with Management and Work Groups. Major Adviser: Richard A. Swanson

**Rose Antonia Meier, Capron, Ill.**

B.A. cum laude '80, Luther College; M.S. '83, Northern Illinois University. Degree: Doctor of Philosophy, April '92. Major: Botany. Minor: Plant Pathology. Thesis: The Viability and Life Cycle of Spores of *Glomus mosseae*, a Vesicular-Arbuscular Mycorrhizal Fungus. Major Adviser: Iris D. Charvat

**Debi Kroll Mensing, St. Paul**

B.A. summa cum laude '83, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Psychology. Minor: Supporting Program. Thesis: Differentiating Anxiety and Depression: An Experience Sampling Analysis. Major Adviser: Eric Klinger

**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, July '92. Major: Soil Science. Minor: Supporting Program. Thesis: Silicon, Nitrogen, and Boron in Peats and Availability to Wild Rice. Major Adviser: Paul R. Bloom

**Daniel Edward Mickus**

B.A. '87, St. Olaf College. Degree: Doctor of Philosophy, September '92. Major: Chemistry. Minor: Supporting Program. Thesis: The Total Synthesis of the Unnatural Enantiomer of Cholesterol and its Interaction with Amphoteracin B. Major Adviser: Scott D. Rychnovsky

**Perry Ray Miller, Carrot River, Canada**

B.S.A. '84, University of Saskatchewan; M.S. '89, University of Guelph. Degree: Doctor of Philosophy, August '92. Major: Plant Breeding. Minor: Supporting Program. Thesis: Inheritance of Condensed Tannins and Tannin-Forage Quality Relationships in Birdsfoot Trefoil (*Lotus corniculatus* L.). Major Advisers: Donald K. Barnes and Nancy J. Ehlke

**Diane Marie Millis, Moorhead**

B.A. '84, M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Education. Minor: Speech-Communication. Thesis: The Meaning of Family Communication. Major Adviser: Marilyn A. M. Rossmann

**Elizabeth Ruth Mittman, Eugene, Ore.**

B.A. magna cum laude '81, St. Olaf College; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: German. Minor: Comparative Literature. Thesis: Encounters with the Institution: Woman and Wissenschaft in GDR Literature. Major Adviser: Ruth-Ellen B. Joeres

**Harry Keith Moffat, New York, N.Y.**

B.A. summa cum laude '82, University of Pennsylvania. Degree: Doctor of Philosophy, June '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Numerical Modeling of Chemical Vapor Deposition Processes in Horizontal Reactors. Major Adviser: Klavs F. Jensen

**Markus Kristinn Moller, Gardabaer, Iceland**

B.S. '75, University of Iceland. Degree: Doctor of Philosophy, September '92. Major: Economics. Minor: Supporting Program. Thesis: Essays on Overlapping Generations. Major Adviser: Timothy Kehoe

**Hyounng Koo Moon, Seoul, Korea**

B.A. '77, Seoul National University; M.B.A. '81, Yonsei University. Degree: Doctor of Philosophy, September '92. Major: Business Administration. Minor: Supporting Program. Thesis: Determinants of Goal Choice: The Effects of Assigned Goal, Self-Esteem, Feedback, and Self-Efficacy. Major Adviser: Larry L. Cummings

**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, April '92. Major: Educational Administration. Minor: Supporting Program. Thesis: Qualitative Decision Making: Using Fuzzy Logic in an Expert Model Environment. Major Adviser: William M. Ammentorp

**Nancy Ruth Mosier**

B.S. '71, Iowa State University; M.A. '78, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Vocational Education. Minor: Supporting Program. Thesis: Development of a Framework for Measuring the Return on Investment in Employee Training. Major Adviser: Richard A. Swanson

**John Walker Mullins, Evergreen, Colo.**

B.A. '67, Lehigh University; M.B.A. '69, Stanford University. Degree: Doctor of Philosophy, June '92. Major: Business Administration. Minor: Supporting Program. Thesis: Marketing Judgments and Strategic Competitive Response: Marketing Managers' Framing of Competitive Signals. Major Adviser: Orville C. Walker, Jr.

**Kevin D. Murphy, Marshall**

B.S. '84, M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Animal Science. Minor: Supporting Program. Thesis: The Effects of Selection for Milk Production on Composition of Growth, Feed Intake and Growth Related Hormone Levels in Holstein Heifers. Major Advisers: Brian A. Crooker and Hugh Chester-Jones

**Penelope Starratt Myers, Rochester**

B.A. '70, Concordia University; M.A. '74, George Washington University. Degree: Doctor of Philosophy, April '92. Major: Communication Disorders. Minor: Supporting Program. Thesis: The Effect of Visual and Inferential Complexity on the Verbal Expression of Non-Brain-Damaged and Right-Hemisphere-Damaged Adults. Major Adviser: Robert H. Brookshire

**William Douglas Nance, Shepherd, Mich.**

B.B.A. magna cum laude '81, Western Michigan University. Degree: Doctor of Philosophy, June '92. Major: Business Administration. Minor: Supporting Program. Thesis: Task/Technology Fit and Knowledge Worker Use of Information Technology: A Study of Auditors. Major Advisers: Gordon B. Davis and Detmar W. Straub

**Joseph H. Neisen, Minneapolis**

B.A. '76, St. John's University. Degree: Doctor of Philosophy, July '92. Major: Family Social Science. Minor: Supporting Program. Thesis: Family History, High Risk Behaviors and Human Immunodeficiency Virus (HIV) Infection Status in Adult Gay Men with Chemical Dependency Problems. Major Adviser: Richard H. Needle

**Robert C. Nelson, Rockville, Md.**

B.S.Pharm. '74, Long Island University; M.S. '79, George Washington University. Degree: Doctor of Philosophy, April '92. Major: Social and Administrative Pharmacy. Minor: Epidemiology. Thesis: Psychotherapeutic Drugs, Mental Disorders and Automobile Crashes: A Case Study of 1308 Females. Major Advisers: Albert I. Wertheimer and James C. Cloyd

**Sylvia Eleanor Nissila**

B.S. '60, M.Ed. '64, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Education. Minor: Supporting Program. Thesis: Lines of Reasoning in Clinical Nursing Decisions. Major Adviser: Howard Y. Williams

**Tom Andrew Nohel, Madison, Wis.**

B.A. '82, University of Wisconsin; M.S. '84, Northwestern University. Degree: Doctor of Philosophy, August '92. Major: Business Administration. Minor: Supporting Program. Thesis: An Investigation of the Information Content of Dividend Announcements. Major Advisers: Ravi K. Jagannathan and Patrick J. Hess

**Frederick L. Nolan, Cambridge**

B.A. '72, Macalester College; Spec.Ed. '79, Tri-College University. Degree: Doctor of Philosophy, July '92. Major: Educational Administration. Minor: Supporting Program. Thesis: Ethical Leadership and School Culture: An Exploratory Study of Nine Middle Level Schools. Major Adviser: Tim L. Mazzoni

**John Daniel Norton, Hungry Jack Lake**

B.Ch.E. with distinction, B.Mat.Sc.E. with distinction '87, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Electron-Transfer and Transport Mechanisms in Low Ionic Strength Solutions. Major Adviser: Henry S. White

**Steven David Norton, Ogden, Utah**

B.S. '88, Brigham Young University. Degree: Doctor of Philosophy, June '92. Major: Microbiology. Minor: Internal Minor. Thesis: Characterization of the Two APC-Derived Signals Required for IL-2 Production by T Cells. Major Advisers: Patrick M. Schlievert and Marc K. Jenkins

**Elizabeth Pearsall Noyes, Shoreview**

B.S. '79, University of Maryland; D.V.M. '83, University of Florida. Degree: Doctor of Philosophy, May '92. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: The Effect of Pneumonia Monitored During Lifetime and at Slaughter on Growth in Swine. Major Adviser: David G. Thawley

**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, June '92. Major: Theatre Arts. Minor: Feminist Studies. Thesis: The Resistant Gaze of the "Other": Feminist Theories of Representation and Theatre Practice. Major Adviser: Monty K. Neely

**Zeki Ogurtan**

D.V.M. '82, University of Ankara. Degree: Doctor of Philosophy, May '92. Major: Veterinary Surgery, Radiology, and Anesthesiology. Minor: Supporting Program. Thesis: Comparative Holding Strength Between Partially Threaded Tipped and Non-Threaded Tipped Pins for Fracture Fixation in the Canine Femur. Major Adviser: Larry J. Wallace

**Se Young Oh, Seoul, Korea**

B.S. '80, M.S. '82, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Efficient Methods for Large-Scale Sparse Linear and Quadratic Programs. Major Adviser: J. Ben Rosen

**Assenka Oksiloff, Willowick, Ohio**

B.S. cum laude '83, M.A. '85, Georgetown University. Degree: Doctor of Philosophy, August '92. Major: Comparative Literature. Minor: German. Thesis: Narratives of Modernism: Readings of Carl Einstein, Franz Kafka, and Walter Benjamin. Major Adviser: Jochen Schulte-Sasse

**Timothy Wesley Olchow, Pinawa, Manitoba, Canada**

D.V.M. '82, University of Guelph. Degree: Doctor of Philosophy, September '92. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Pathogenic Mechanisms of Bovine Respiratory Syncytial Virus. Major Adviser: Vaughn L. Larson

**Eric Monroe Olson, Portland, Ore.**

B.S. '75, Lewis and Clark College; M.B.A. '86, Portland State University. Degree: Doctor of Philosophy, May '92. Major: Business Administration. Minor: Supporting Program. Thesis: Functional Interaction in the New Product Development Process: The Effectiveness of Alternative Coordination Mechanisms. Major Adviser: Orville C. Walker, Jr.

**Judy E. O'Neill**

B.S. '78, B.A. '79, Eastern Illinois University; M.S. '81, DePaul University. Degree: Doctor of Philosophy, June '92. Major: History of Science and Technology. Minor: Supporting Program. Thesis: The Evolution of Interactive Computing Through Time-Sharing and Networking. Major Adviser: Edwin T. Layton

**Seng Poon Ong, Singapore, Singapore**

B.Sc. '84, M.Sc. '88, National University of Singapore. Degree: Doctor of Philosophy, September '92. Major: Chemistry. Minor: Supporting Program. Thesis: The Synthesis of Substrate Analogs and Their Interactions with Ribonucleotide Reductase from *Corynebacterium nephridii*. Major Advisers: Hung-Wen Liu and Harry P. C. Hogenkamp

**Okwudili Okeleke Onianwa, Asaba, Delta State, Nigeria**

B.S. summa cum laude '84, M.S. '86, Alabama Agricultural and Mechanical University. Degree: Doctor of Philosophy, June '92. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Taxing Nitrogen Fertilizer: Potential Effects on Corn Production. Major Adviser: Richard A. Levins

**Craig Edward Parman, St. Paul**

B.S. '86, Northeast Missouri State University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Physics. Minor: Supporting Program. Thesis: Conductance Fluctuations in Hydrogenated Amorphous Silicon. Major Adviser: James Kakalios

**Felino Garcia Pascual, Marikina, Philippines**

B.Sc. '82, Ateneo de Manila University. Degree: Doctor of Philosophy, August '92. Major: Mathematics. Minor: Supporting Program. Thesis: On Periodic Perturbations of Uniform Motion of a Planetary Ring. Major Adviser: Richard B. Moeckel

**Claire Ellen Pavlik**

B.A. '81, M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Geography. Minor: Supporting Program. Thesis: Quest for Growth: Investment Strategies of Three West German Steel Firms. Major Adviser: Eric S. Sheppard

**Donald Louis Pereira, St. Paul**

B.S. '80, University of Vermont; M.S. '83, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Fisheries. Minor: Statistics. Thesis: Dynamics and Biochronology of Freshwater Drum (*Aplodinotus grunniens*) in the Red Lakes, Minnesota. Major Adviser: George R. Spangler

**Shari Lou Young Peterson, Minneapolis**

B.S. '70, Drake University; M.Ed. '81, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Education. Minor: Supporting Program. Thesis: The Relationship Between Career Decision-Making Self-Efficacy and Dimensions of Institutional Integration Among Underprepared College Students. Major Advisers: Charles R. Hopkins and Sherry A. Schwartz

**Marie Elizabeth Petracek, Belview**

B.A. magna cum laude '86, College of Saint Teresa. Degree: Doctor of Philosophy, August '92. Major: Genetics. Minor: Supporting Program. Thesis: The Structure of *Chlamydomonas* Telomeres. Major Adviser: Judith G. Berman

**Betty Jean Phillips, Memphis, Tenn.**

B.S.Ed. '72, M.A. '74, Memphis State University. Degree: Doctor of Philosophy, June '92. Major: Theatre Arts. Minor: Supporting Program. Thesis: African-American Folk Archetypes and Language in the African-American Oral Tradition and Their Influence on Selected Contemporary African-American Poets. Major Adviser: Jean G. Congdon

**Kay Suzanne Pitkin, Minneapolis**

A.B. '78, University of Michigan. Degree: Doctor of Philosophy, July '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: Continuity of Temperament Across Early Childhood. Major Adviser: Byron Egeland

**Alisa Marie Potter, Madison, Wis.**

B.A. '89, Concordia College. Degree: Doctor of Philosophy, August '92. Major: Sociology. Minor: Supporting Program. Thesis: The Constituency Control of American Secondary Schools: A Study of Organizational Power and Influence. Major Adviser: David Knoke

**Abby Neva Powell, Valley Cottage, N.Y.**

B.S. '80, Cornell University; M.S. '86, San Diego State University. Degree: Doctor of Philosophy, July '92. Major: Wildlife Conservation. Minor: Supporting Program. Thesis: The Effects of Early Experience on the Development, Behavior and Survival of Shorebirds. Major Adviser: Francesca J. Cuthbert

**Paul Arthur Prior**

A.B. '77, M.S. '79, Indiana University. Degree: Doctor of Philosophy, August '92. Major: Education. Minor: English. Thesis: Contextualizing Writing and Response in Graduate Seminars: A Sociohistoric Perspective on Academic Literacies. Major Adviser: Dale L. Lange

**Sutinun Pronanuluck, Thailand**

B.Eng. '84, Chulalongkorn University; M.S.E.E. '87, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Fault Tolerance in Pipelined Computer Architecture. Major Adviser: William A. Plice

**Mark Robert Prowatzke, Oakdale**

B.S. cum laude '75, M.S. '78, University of Wisconsin. Degree: Doctor of Philosophy, April '92. Major: Educational Administration. Minor: Supporting Program. Thesis: Quality of Life Experiences of Developmentally Disabled Deaf Adults in Community Residential Settings. Major Adviser: William M. Ammentorp

**Zhining Qin, Nanjing, Jiangsu, China**

Dipl. '82, Naning Teacher's College; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Education. Minor: Supporting Program. Thesis: A Meta-Analysis of the Effectiveness of Achieving Higher Order Learning Tasks in Cooperative Learning Compared with Competitive Learning. Major Adviser: Richard D. Kimpston

**Sergio Ernando Quinones-Cisneros, Sayula, Jalisco, Mexico**

M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Mechanics. Minor: Supporting Program. Thesis: Critical Behavior in Fluid Systems. Major Adviser: Roger Fosdick

**Sumita Raghuram, New York, N.Y.**

Post Graduate Diploma '81, Xavier Labour Relations Institute. Degree: Doctor of Philosophy, September '92. Major: Industrial Relations. Minor: Supporting Program. Thesis: Linking Management Staffing and Training Practices with Business Strategy. Major Adviser: Richard D. Arvey

**Steven James Ratering, Pella, Iowa**

B.A. summa cum laude '84, Central College, M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Goal Directed Robot Navigation in a Known Indoor Environment with Unknown Stationary and Moving Obstacles. Major Adviser: Maria Gini

**Ajay Kumar Ray, Calcutta, India.**

Degree: Doctor of Philosophy, June '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Simulated Countercurrent Moving Bed Chromatographic Reactor: A Novel Reactor-Separator. Major Advisers: Robert W. Carr, Jr. and Rutherford Aris

**Douglas William Reader, Fairmont**

B.S. with high distinction '73, University of Minnesota; M.M. '78, Northwestern University. Degree: Doctor of Philosophy, May '92. Major: Music. Minor: Supporting Program. Thesis: Overture to a Broken Wall. Major Adviser: Paul Fetler

**Scott W. Reeve, Minneapolis**

B.A. cum laude '87, Augsburg College. Degree: Doctor of Philosophy, July '92. Major: Chemical Physics. Thesis: Far Infrared and Microwave Spectroscopic Examination of Weakly Bound Molecular Complexes: Potential Energy Surfaces and Internal Dynamics. Major Adviser: Kenneth R. Leopold

**Lynette Reini-Grandell, Minneapolis**

B.A. cum laude '82, Carleton College; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: English. Minor: Supporting Program. Thesis: The Modern Sound: American Poetry and the Rise of the Recording Industry, 1920-1940. Major Advisers: Philip G. Furia and John S. Wright

**Donald Michael Roback**

B.S. cum laude '86, University of Rochester. Degree: Doctor of Philosophy, August '92. Major: Physics. Minor: Supporting Program. Thesis: Measurement of the Atmospheric Neutrino Ratio Flavor Ratio with the Soudan 2 Detector. Major Adviser: Earl A. Peterson

**Anna Marie Roberts**

B.S. '80, Western Illinois University; M.S. '82, Kansas State University. Degree: Doctor of Philosophy, July '92. Major: Food Science. Minor: Supporting Program. Thesis: Sensory Attributes and Preferences for Cheddar Cheese. Major Adviser: Zata M. Vickers

**Lisa Caroline Roetzel, St. Paul**

B.A. cum laude '81, Macalester College; M.A. '84, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: German. Minor: Supporting Program. Thesis: Constructing Masculine Identity: The Function of Women and Family in Eighteenth-Century German Literature. Major Adviser: Jochen Schulte-Sasse

**Thomas Richard Rohleder, St. Paul**

B.S.B. with distinction '83, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Business Administration. Minor: Supporting Program. Thesis: An Economic Analysis of Scheduling in a Dynamic Job Shop. Major Advisers: Gary D. Scudder and W. David Kelton

**Brad Lee Roper, Olton, Tex.**

B.S. '88, Texas A & M University. Degree: Doctor of Philosophy, June '92. Major: Psychology. Minor: Supporting Program. Thesis: Comparability and Validity of Computerized Adaptive Testing with the MMPI-2. Major Adviser: James N. Butcher

**Wayne Daniel Rosamond, Creve Coeur, Mo.**

B.S. '80, Colorado State University; M.S. '84, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Epidemiology. Minor: Supporting Program. Thesis: Thrombolytic Therapy in Suspected Acute Myocardial Infarction: Assessment of Practice Patterns and Outcomes. Major Adviser: Russell V. Luepker

**Thomas Donald Rossin, Minneapolis**

B.M.E. '72, Valparaiso University; M.F.A. '74, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Music. Minor: Supporting Program. Thesis: The Calov Bible of Johann Sebastian Bach – An Analysis of the Composer's Markings. Major Adviser: Stephen Schultz

**Lisa Mignon Rotterman**

B.S. '75, University of Maryland; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Ecology. Minor: Genetics. Thesis: Patterns of Genetic Variability in Sea Otters After Severe Population Subdivision and Reduction. Major Adviser: Donald B. Siniff

**Richard Donald Rowley**

A.B. '69, University of Michigan; M.A. '76, Central Michigan University. Degree: Doctor of Philosophy, June '92. Major: Speech-Communication. Minor: Supporting Program. Thesis: How Natural Drinking Groups Talk about Drinking: An Exploratory Discourse Analysis of Talk and Drinking Rules. Major Adviser: Richard E. Sykes

**Raymond Nathan Russell, Madison, Wis.**

B.A. with honors '84, Earlham College. Degree: Doctor of Philosophy, May '92. Major: Chemistry. Minor: Supporting Program. Thesis: I. Stereochemical and Mechanistic Studies of the Biosynthesis of CDP-Asarylose and II. Purification of a Lipid Inhibitor of Lymphoid Cell Growth from Macrophage Hybridoma Cells. Major Adviser: Hung-Wen Liu

**Mohammad Taghi Saghafi, Tehran, Iran**

Licence '68, Tehran University. Degree: Doctor of Philosophy, August '92. Major: Mass Communication. Minor: Supporting Program. Thesis: The Press, National Interests, and National Identification: A Comparative Study of the Elite American Press Coverage of Seven Middle Eastern Nations During the 1991 Persian Gulf War. Major Adviser: Phillip J. Tichenor

**Jose Miguel Sanchez, Chile**

Ingeniero Comercial '83, Magister en Economia '83, Pontificia Universidad Catolica de Chile; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Economics. Minor: Supporting Program. Thesis: An Estimable Dynamic Model of Housing Tenure Choice. Major Adviser: Kenneth I. Wolpin

**SiniJean Prosper Sanou**

Licence '81, Universite de Ouagadougou; M.A. '85, College of St. Thomas. Degree: Doctor of Philosophy, May '92. Major: Education. Minor: Supporting Program. Thesis: Composing in French as a Foreign Language: Case Studies of Four Advanced Graduate Students' Constraints Accommodation Strategies. Major Adviser: Dale L. Lange

**Steven Lee Savitt, Minneapolis**

B.E.E. '71, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: A Context Sensitive Segmentation Approach for Outdoor Terrain Feature Extraction. Major Adviser: William B. Thompson

**Arlin Dean Schieve, Fargo, N.D.**

B.A. '74, M.S. '79, North Dakota State University. Degree: Doctor of Philosophy, July '92. Major: Education. Minor: Supporting Program. Thesis: The Contribution of Educational Attainment to the Prediction of Life Satisfaction in the NLS-72 Data Base. Major Advisers: Darrell R. Lewis and Darwin D. Hendel

**David John Schmid, Fairmont**

B.S. with distinction '86, Iowa State University. Degree: Doctor of Philosophy, May '92. Major: Physics. Minor: Supporting Program. Thesis: First Nucleon Decay Results From the Soudan 2 Detector. Major Adviser: Earl A. Peterson

**Robert Joseph Schneider, Minneapolis**

B.A. '82, Carleton College. Degree: Doctor of Philosophy, July '92. Major: Psychology. Minor: Supporting Program. Thesis: An Individual-Differences Approach to Understanding and Predicting Social Competence. Major Advisers: Ruth Kanfer and Phillip L. Ackerman

**Kory Jon Schuh, Neenah, Wis.**

B.A. '85, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Psychology. Minor: Neuroscience. Thesis: Discrimination and Generalization of the Stimulus Effects of Feeding-Inducing Operations. Major Adviser: J. Bruce Overmier

**Terry Haugerud Schultz, Minneapolis**

B.A. with distinction '69, M.A. '78, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Educational Administration. Minor: Supporting Program. Thesis: Urban Educational Executive Policy Leadership: John B. Davis' Superintendency in the Minneapolis Public Schools. Major Advisers: Tim L. Mazzoni and Van D. Mueller

**Sakir Selcuk, Tokat, Turkey**

B.S. '76, Istanbul Technical University; M.S. '81, Colorado School of Mines. Degree: Doctor of Philosophy, September '92. Major: Geo-Engineering. Minor: Supporting Program. Thesis: A Higher-Order Direct Boundary Integral-Displacement Discontinuity Method for Fracture Propagation in Layered Elastic Media. Major Adviser: Steven L. Crouch

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**Susan Louise Senecah**

B.S. '72, Bemidji State College; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Environmental Discourse of David Brower: Using Advocacy Advertising to Save the Grand Canyon. Major Adviser: Karlyn K. Campbell

**David William Senkow, Selkirk, Manitoba, Canada**

B.Com. '73, M.B.A. '74, University of Manitoba. Degree: Doctor of Philosophy, August '92. Major: Business Administration. Minor: Supporting Program. Thesis: Pricing Mechanisms for Resource Allocation in Decentralized Organizations: Experimental Evidence. Major Adviser: John W. Dickhaut

**Han Son Seo, Taegu, Korea**

B.Econ. '83, M.Econ. '86, Yonsei University. Degree: Doctor of Philosophy, July '92. Major: Statistics. Minor: Supporting Program. Thesis: Robust Bayesian Optimal Designs. Major Adviser: F. Kinley Larntz

**Janet Sue Severance, Kalamazoo, Mich.**

B.A. '82, Kalamazoo College. Degree: Doctor of Philosophy, September '92. Major: Sociology. Minor: Supporting Program. Thesis: Talking Around the Elderly: Participation in Long-Term Care Decision-Making. Major Adviser: Robert K. Leik

**Craig Robert Shankwitz**

B.S. '83, Iowa State University of Science and Technology; M.S. '85, University of Illinois. Degree: Doctor of Philosophy, June '92. Major: Control Science and Dynamical Systems. Minor: Supporting Program. Thesis: Identification of Dynamical Systems. Major Adviser: Tryphon T. Georgiou

**Dale Lynn Shannon, Bismark, N.D.**

B.S.Ed. '82, M.A. '84, University of North Dakota. Degree: Doctor of Philosophy, June '92. Major: Speech-Communication. Minor: Supporting Program. Thesis: Time Pressure and Negotiation Support: A Test of a Negotiation Support System Using a Complex Labor-Management Negotiation. Major Adviser: Marshall S. Poole

**Brenda Ann Shearer, Osceola, Wis.**

B.S. '70, M.S. '85, University of Wisconsin. Degree: Doctor of Philosophy, June '92. Major: Education. Minor: Supporting Program. Thesis: The Long-Term Effects of Whole Language Instruction on Children's Written Composition. Major Advisers: Robert Dykstra and Barbara M. Taylor

**Joanna H. Shih**

B.B.A. '81, National Chengchi University; M.S. '84, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Biostatistics. Minor: Supporting Program. Thesis: Models and Analysis for Multivariate Failure Time Data. Major Adviser: Thomas A. Louis

**Shengqiang Shu**

B.S. '82, Huazhong Agricultural College; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Entomology. Minor: Supporting Program. Thesis: Sex Pheromone of *Eriborus terebrans* (Gravenhorst) [Hymenoptera: Ichneumonidae]: A Larval Parasitoid of the European Corn Borer (*Ostrinia nubilalis* (Hubner)). Major Adviser: Richard L. Jones

**Avraham Simhony, Israel**

B.Sc. '84, M.A. '87, Hebrew University of Jerusalem. Degree: Doctor of Philosophy, September '92. Major: Economics. Minor: Supporting Program. Thesis: Wage and Price Rigidities and the Non-Neutrality of Money in a General Equilibrium Model. Major Adviser: Neil Wallace

**Zhaohui Song, St. Paul**

B.S. '86, Beijing Medical University. Degree: Doctor of Philosophy, April '92. Major: Pharmacology. Minor: Supporting Program. Thesis: Spinal Opioid Mechanisms Involved in the Actions of Corticotropin-Releasing Factor. Major Adviser: Akira E. Takemori

**Catherine Therese Spaeth, St. Paul**

B.A. '81, College of St. Benedict; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: American Studies. Thesis: Purgatory or Promised Land?: French Emigres in Philadelphia and their Perceptions of America in the 1790s. Major Adviser: Edward M. Griffin

**Patricia Ann Spoentgen, Clear Lake, Wis.**

B.A. '70, M.S. '85, University of Wisconsin. Degree: Doctor of Philosophy, August '92. Major: Family Social Science. Minor: Supporting Program. Thesis: Goal-Setting in Family Therapy with Intrafamilial Sexual Abuse Families. Major Adviser: James W. Maddock

**Barbara Jo Stallman**

B.A. '73, Mary Manse College; M.S. '81, St. Louis University. Degree: Doctor of Philosophy, April '92. Major: Chemistry. Minor: Supporting Program. Thesis: Synthesis and Properties of Oligoimides. Major Adviser: Larry L. Miller

**Thomas Scott Sundquist, Minneapolis**

B.Math. with high distinction '86, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Mathematics. Minor: Supporting Program. Thesis: Pfaffians, Involutions, and Schur Functions. Major Adviser: Dennis W. Stanton

**Ruth Helene Tallakson, St. Paul**

B.A. '68, Concordia College; M.A. '81, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: Learning Style and Imagery in Counseling: Behavioral Analysis of Client Differences. Major Adviser: Patricia R. McCarthy

**Edmund McDonald Tavernier, Pointe Michel, Dominica**

B.S. '87, Tuskegee University. Degree: Doctor of Philosophy, June '92. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: The Canadian Hog Stabilization Program: Effect on U.S. Retail Pork Prices. Major Adviser: William F. Lazarus

**Marvin Hunter Taylor, Lexington, Mass.**

A.B. magna cum laude '82, Harvard College; M.A. '85, University of Minnesota. Degree: Doctor of Philosophy. May '92. Major: Germanic Philology. Thesis: Verbal Aggression in Early Germanic Prose: Content, Style, Composition. Major Adviser: Anatoly Liberman

**Edward Henry Tebbenhoff, Downsville, N.Y.**

B.A. '73, M.A. '75, Duquesne University. Degree: Doctor of Philosophy, June '92. Major: History. Minor: Supporting Program. Thesis: The Momentum of Tradition: Dutch Society and Identity in Schenectady, 1660-1790. Major Adviser: Russell R. Menard

**Mehmet Okan Tekman, Ankara, Turkey**

B.Sc. '82, Middle East Technical University. Degree: Doctor of Philosophy, July '92. Major: Mathematics. Minor: Supporting Program. Thesis: Special Values of L-Functions Attached to Holomorphic Cuspforms on Orthogonal Groups of Hermitian Type. Major Adviser: Paul B. Garrett

**Barbara Christine Telser-Gadow, Neustadt, Germany**

Diplom '80, Johannes Gutenberg – Universität Mainz; M.A. '83, Arizona State University. Degree: Doctor of Philosophy, July '92. Major: Speech-Communication. Minor: Supporting Program. Thesis: Intercultural Communication Competence in Intercultural Marriages. Major Adviser: Donald R. Browne

**Julie Ann Tharp, Mankato**

B.S. '82, M.A. '86, Mankato State University. Degree: Doctor of Philosophy, July '92. Major: English. Minor: Supporting Program. Thesis: Embracing Contradiction: A Cross-Cultural Study of the Mother in Writing by Women of Color. Major Adviser: Madelon Sprengnether

**Douglas Edward Thomas, Minneapolis**

B.A. '88, University of North Carolina; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Speech-Communication. Minor: Supporting Program. Thesis: Toward a Nietzschean Theory of Rhetoric: The Valuative Interpretation of Discourse and the Reversal of Platonism. Major Adviser: Robert L. Scott

**Ronald Robert Tidd, Boise, Idaho**

B.S. '77, Iowa State University of Science & Technology. Degree: Doctor of Philosophy, August '92. Major: Business Administration. Minor: Supporting Program. Thesis: Geopolitical Considerations in the Administration of U.S. Income Tax Policy: An Assessment of Income Tax Enforcement Efforts, 1975-1988. Major Adviser: Gordon L. Duke

**Noursaid Tligui**

D.V.M. '82, Institut Agronomique et Veterinaire Hassan II. Degree: Doctor of Philosophy, September '92. Major: Veterinary Pathology. Minor: Supporting Program. Thesis: Ferula Communis Variety Brevifolia Intoxication of Sheep: A Study of the Coagulopathy. Major Adviser: George R. Ruth

**Anna Lee Yvonne Tonkovich, Billings, Mont.**

B.S. with high distinction '87, University of Rochester. Degree: Doctor of Philosophy, July '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Simulated Countercurrent Chromatographic Reactor and Separator. Major Advisers: Robert W. Carr, Jr. and Rutherford Aris

**Kathy Lynn Toohey, Sun Prairie, Wis.**

B.S. '73, M.S. '84, University of Wisconsin. Degree: Doctor of Philosophy, August '92. Major: Microbiology. Minor: Supporting Program. Thesis: Mutational Analysis of the V-Rev Gene of Visna Virus. Major Adviser: Ashley T. Haase

**Csaba Toth**

Diploma '78, Lorand Eotvos University. Degree: Doctor of Philosophy, April '92. Major: American Studies. Thesis: The Transatlantic Dialogue: 19th-Century American Utopianism and Europe. Major Adviser: David W. Noble

**Nels H. Troelstrup, Jr., Julesburg, Colo.**

B.A. '81, University of Northern Colorado; M.S. '85, University of Nebraska. Degree: Doctor of Philosophy, April '92. Major: Forestry. Minor: Supporting Program. Thesis: Structural and Functional Patterns of Benthic Stream Communities in a Heterogeneous Ecoregion: The Driftless Area. Major Adviser: James A. Perry

**Kendrick Ann Trostel, St. Paul**

B.A. magna cum laude '83, Brown University; M.Sc. '87, University of British Columbia. Degree: Doctor of Philosophy, September '92. Major: Veterinary Biology. Minor: Supporting Program. Thesis: Submedullary Sympathetic Nerve Activity in Conscious Rats. Major Advisers: John W. Osborn and David R. Brown

**Jonathan K. Trower, Waco, Tex.**

B.A. '82, Drury College; M.B.A. '83, Baylor University. Degree: Doctor of Philosophy, June '92. Major: Business Administration. Minor: Supporting Program. Thesis: Improving the Performance of Technologists and Nontechnologists on Interdisciplinary Teams: An Analysis of Information Systems Project Teams. Major Advisers: Detmar W. Straub and James C. Wetherbe

**Padmini Shamarao Udupa, India**

B.Sc. '75, M.Sc. '78, University of Bombay; B.Ed. '79, SNDT Women's University; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: Concept Mapping/Cooperative Learning as a Technique to Improve the Learning of "At-Risk" and Nondisabled Students. Major Adviser: John E. Rynders

**Anthony Varghese, Irinjalakuda, Kerala, India**

B.S. summa cum laude '83, University of Wisconsin; M.S.E.E. '86, University of Minnesota. Degree: Doctor of Philosophy, September '92. Major: Biomedical Engineering. Minor: Electrical Engineering. Thesis: Dynamics of the Electrical Activity in Cardiac Purkinje Fibers. Major Adviser: James E. Holte

**Shankar Venkatraman, Bombay, India**

B.Sc.(Tech.) '86, University of Bombay. Degree: Doctor of Philosophy, September '92. Major: Chemistry. Minor: Supporting Program. Thesis: Cycloaddition Reactions of Isatogens and Their Analogs with Dipolarophiles. Major Adviser: Wayland E. Noland

**Stella Mark Veretnik, Jerusalem, Israel**

B.S. '83, Hebrew University of Jerusalem. Degree: Doctor of Philosophy, July '92. Major: Genetics. Minor: Computer and Information Sciences. Thesis: Isolation of U6 Gene in Maize and Characterization of its Upstream Regulatory Region. Major Adviser: Irwin Rubenstein

**Ronald James Vetter, Linton, N.D.**

B.S. '84, North Dakota State University. Degree: Doctor of Philosophy, June '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Network Architectures for High Performance Computing Environments. Major Adviser: David H. Du

**Busaya Virakul**

M.Ed. '84, University of Minnesota. Degree: Doctor of Philosophy, April '92. Major: Education. Minor: Supporting Program. Thesis: The Attitudes of Graduate Students in MBA Programs in Thailand About Potentially Hazardous Technologies in Business, Industry, and Agribusiness Firms: An Ethical Perspective. Major Adviser: Edgar A. Persons

**Suchin Visavateeranon, Bangkok, Thailand**

B.Ed. '76, M.Ed. '79, Chulalongkorn University. Degree: Doctor of Philosophy, September '92. Major: Education. Minor: Supporting Program. Thesis: Effect of Research Experiences on Teachers' Perceptions of the Nature of Science. Major Adviser: Fred N. Finley

**Gholamreza Vossoughi**

B.M.E. with distinction '82, M.S. '85, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Achieving Robust Performance for Electrohydraulic Servo Systems: An H-infinity / mu-Synthesis Solution for Manipulation and Contouring. Major Adviser: Max Donath

**Wende Michelle Vyborney**

B.A. '86, California State College; M.A. '88, University of California. Degree: Doctor of Philosophy, June '92. Major: Speech-Communication. Minor: Supporting Program. Thesis: Computer Reasons and Human Power: Epideictic Strategies in Popularized Scientific Discourse on the Nature & Potential of Computer Technology. Major Adviser: Robert L. Scott

**David Jay Wagner, Sheboygan, Wis.**

B.S. with highest honors '74, University of Wisconsin; A.M. '77, Indiana University. Degree: Doctor of Philosophy, April '92. Major: American Studies. Thesis: The Material Culture of SLEWAPs: Signed Limited Edition Wildlife Art Photolithographs. Major Adviser: Kent R. Bales

**Matthew Lincoln Wagner, Akron, Ohio**

B.S. with honors '87, Carnegie Mellon University. Degree: Doctor of Philosophy, June '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Surface Chemistry of Carbon, Nitrogen, and Oxygen Bonds on Transition Metals. Major Adviser: Lanny D. Schmidt

**Deming Wang, Tianjin, China**

Degree: Doctor of Philosophy, August '92. Major: Sociology. Minor: Supporting Program. Thesis: The Timing of Marriage and Fertility in Rural and Urban China. Major Adviser: Robert E. Kennedy, Jr.

**Jin Wang, Hangzhou, Zhejiang, China**

B.S. '82, Hangzhou University; M.Ed. '87, Frostburg State University. Degree: Doctor of Philosophy, May '92. Major: Kinesiology. Minor: Supporting Program. Thesis: Youth Sport Motivation in the People's Republic of China. Major Advisers: Diane M. Wiese-Bjornstal and Michael Wade

**Karen Lee Wang, Lincolnwood, Ill.**

B.S. '86, M.S. '86, Massachusetts Institute of Technology. Degree: Doctor of Philosophy, August '92. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Improving Performance of Hollow Fiber Separators. Major Adviser: Edward L. Cussler

**Tiefei Wang**

B.S. '86, Fudan University. Degree: Doctor of Philosophy, September '92. Major: Physics. Minor: Supporting Program. Thesis: Physical Properties of Ultrathin Films of High Temperature Superconductors. Major Adviser: Allen M. Goldman

**Yingmin Wang, Xinjiang, China**

B.S. '82, Beijing College of Forestry; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Prediction of Ephemeral Gully Formation and Erosion on Hillslopes. Major Advisers: George R. Foster and Bruce N. Wilson

**Thomas Philip Weber, Star Lake, N.Y.**

B.A. '85, Gustavus Adolphus College. Degree: Doctor of Philosophy, June '92. Major: Chemistry. Minor: Supporting Program. Thesis: The Development and Characterization of High Performance Liquid Chromatographic Supports Based on High Temperature Modified Porous Zirconia Micro-spheres. Major Adviser: Peter W. Carr

**Nathan Charles Weed, San Diego, Calif.**

B.S. cum laude '86, University of Illinois. Degree: Doctor of Philosophy, July '92. Major: Psychology. Minor: Supporting Program. Thesis: An Evaluation of the Efficacy of MMPI-2 Indicators of Validity. Major Adviser: James N. Butcher

**Scott Joseph Wells, Vassar, Mich.**

B.S. with high honor '82, D.V.M. with honor '84, Michigan State University. Degree: Doctor of Philosophy, May '92. Major: Veterinary Medicine. Minor: Epidemiology. Thesis: Epidemiologic Evaluation of Clinical Lameness in Dairy Cattle. Major Adviser: R. Ashley Robinson

**Roberta Werner, St. Joseph**

B.A. '56, College of St. Benedict; M.M. '74, De Paul University. Degree: Doctor of Philosophy, June '92. Major: Music. Minor: Supporting Program. Thesis: The Songs of Josephine Caroline Lang: The Expression of a Life. Major Adviser: Charles E. Furman

**Robin Lee Wetzel, Columbus, Ohio**

B.A. '81, Ohio State University. Degree: Doctor of Philosophy, June '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effects of Reading Task on the Reading Comprehension and Reading Rate of Braille and Print Readers. Major Adviser: Marie Knowlton

**Stephen Mark Wiele, Los Angeles, Calif.**

B.A. '75, California State University; B.S. '83, University of Washington. Degree: Doctor of Philosophy, May '92. Major: Geology. Minor: Supporting Program. Thesis: A Computational Investigation of Bank Erosion and Mid-Channel Bar Formation in Gravel-Bed Rivers. Major Adviser: Christopher Paola

**Timothy L. Wilkerson, Fort Wayne, Ind.**

B.A. '85, Indiana University; M.A. '87, University of Iowa. Degree: Doctor of Philosophy, July '92. Major: French. Minor: Supporting Program. Thesis: Constructing Woman as Subject: Subversive Discourse and Sexual Politics in Selected Works of George Sand. Major Adviser: Eileen B. Sivert

**Kenneth Arthur Williams, Houghton, Mich.**

B.S. '75, M.S. '85, Michigan Technological University. Degree: Doctor of Philosophy, June '92. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Embedding Virtual Topologies in Wavelength Division Multiplexed Optical Networks. Major Adviser: David H. Du

**Mark David Williams, La Crosse, Wis.**

B.S. '83, University of Wisconsin. Degree: Doctor of Philosophy, August '92. Major: Biochemistry. Minor: Supporting Program. Thesis: Regulation and Function of the Stringent Starvation Protein of Escherichia coli. Major Advisers: James A. Fuchs and Michael C. Flickinger

**Robert Maxwell Wiseman, Austin**

B.S. '80, M.B.A. '82, University of Wisconsin. Degree: Doctor of Philosophy, June '92. Major: Business Administration. Minor: Supporting Program. Thesis: An Empirical Examination of Strategic Change in the Savings and Loan Industry: An Evolutionary View of the Firm. Major Adviser: Philip Bromiley

**Lunxi Xia, Jiangxi, China**

M.E. '83, Shanghai JiaoTong University. Degree: Doctor of Philosophy, July '92. Major: Fluid Mechanics. Minor: Supporting Program. Thesis: A Numerical and Experimental Studies of Flow Characteristics in Centrifugal Fans. Major Adviser: Cesar Farell

**Wenhao Xu, Shanghai, China**

M.S. '86, Shanghai Second Medical University. Degree: Doctor of Philosophy, September '92. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Identification and Characterization of Epididymis-Specific Proteins Associated with Post-Testicular Sperm Development. Major Adviser: David W. Hamilton

**Zhaohui Xu, Suzhou, Jiangsu, China**

B.S. '89, University of Science and Technology of China. Degree: Doctor of Philosophy, August '92. Major: Biochemistry. Minor: Supporting Program. Thesis: The Molecular Structure of the Adipocyte Lipid Binding Protein. Major Adviser: Leonard J. Banaszak

**Zhi Xu, Chengdu, China**

B.Agric. '82, M.Agric. '85, Beijing Forestry College; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, August '92. Major: Forestry. Minor: Supporting Program. Thesis: Distributional Impacts of Forest-Based Projects in Relation to Sustainable Development. Major Adviser: Hans M. Gregersen

**Songlin Xue, Datong, Shanxi, China**

B.Med. '82, Shanxi Medical College; M.Med. '85, Hunan Medical College. Degree: Doctor of Philosophy, September '92. Major: Epidemiology. Minor: Supporting Program. Thesis: Trends in Stroke Mortality, Morbidity, Survival and Risk Factors From 1970 to 1985: The Minnesota Heart Survey. Major Advisers: J. Michael Sprafka and Henry W. Blackburn, Jr.

**Ding-Yah Yang**

B.S. '84, National Chung-Hsing University. Degree: Doctor of Philosophy, June '92. Major: Chemistry. Minor: Supporting Program. Thesis: I. Mechanistic Studies of Biosynthesis of 3,6-Dideoxyhexoses. II. Studies of the Mechanistic Diversity of Sodium Cyanoborohydride Reduction of Tosylhydrazones and Oxidation of Tosylhydrazines by N-Iodosuccinimide. Major Adviser: Hung-Wen Liu

**Yan Ye**

B.Sc. '82, Xian Jiaotong University; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Mechanical Engineering. Minor: Aerospace Engineering. Thesis: A Fundamental Study of Residue Particle Formation During Pressure Reduction. Major Adviser: David Y. H. Pui

**Ching-Yun Yeh, Taipei, Taiwan**

B.Ed. '85, National Chengchi University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, June '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Use of Passage Reading Measures to Assess Reading Proficiency of Chinese Elementary School Students. Major Adviser: Stanley L. Deno

**Mitchell Louis Yell, Minneapolis**

B.S. with distinction '72, University of Minnesota; M.S. '83, St. Cloud State University. Degree: Doctor of Philosophy, August '92. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparison of Three Instructional Procedures on Task Attention, Interfering Behaviors, and Achievement of Students with Emotional and Behavioral Disorders. Major Adviser: Frank Henderson Wood

**Pau Yong Yen, Kota Kinabalu, Sabah, Malaysia**

B.S. '85, M.S. '87, Oklahoma State University. Degree: Doctor of Philosophy, May '92. Major: Soil Science. Minor: Supporting Program. Thesis: Influence of Degradation and Sorption Processes on the Persistence and Movement of Alachlor and Dicamba in Soils. Major Adviser: William C. Koskinen

**Ping Yi**

B.S. '82, Wuhan Institute of Hydraulic and Electrical Engineering; M.S.C.E. '86, Washington State University. Degree: Doctor of Philosophy, May '92. Major: Civil Engineering. Minor: Supporting Program. Thesis: Development and Field Testing of Advanced Continuum Traffic Flow Models for Congested Freeways. Major Adviser: Panos Michalopoulos

**Taek-Lim Yoon, South Korea**

B.A. '84, Yonsei University; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, May '92. Major: Anthropology. Minor: Supporting Program. Thesis: Koreans' Stories About Themselves: An Ethnographic History of Hermit Pond Village in South Korea. Major Adviser: William L. Rowe

**Fang Yu, Harbin, China**

B.S. '84, Jilin University. Degree: Doctor of Philosophy, August '92. Major: Physics. Minor: Supporting Program. Thesis: Superconducting Phase Transition of Artificial Wire Networks. Major Adviser: Allen M. Goldman

**Xiaohua Yu**

B.S. '84, Peking University. Degree: Doctor of Philosophy, April '92. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Local Parameters of Semiconductor Heterojunctions. Major Adviser: Alfonso Franciosi

**Jianyi Zhang**

B.Med. '83, Shanghai First Medical College. Degree: Doctor of Philosophy, July '92. Major: Biomedical Engineering. Minor: Supporting Program. Thesis: Bioenergetic Consequences of Severe Left Ventricular Hypertrophy. Major Advisers: Robert J. Bache and James E. Holte

**Guosong Zhao, Guangzhou, China**

B.Agric. '82, South China Agricultural University; M.P.H. '88, University of Minnesota. Degree: Doctor of Philosophy, July '92. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Studies on the Epidemiology of Pasteurella multocida Pneumonia in Two Different Swine Production Systems. Major Adviser: Carlos Pijoan

**Xiaoxiang Zhu, China**

B.S. '82, South China Normal University; M.S. '86, Eastern Illinois University. Degree: Doctor of Philosophy, April '92. Major: Chemistry. Minor: Supporting Program. Thesis: Surfactant Fluid Microstructure and Surfactant Aided Spreading. Major Advisers: Wilmer G. Miller and H. Ted Davis

**Eric Edward Zilbert, Venice, Calif.**

B.S. '80, M.Ed. '83, University of California. Degree: Doctor of Philosophy, July '92. Major: Education. Minor: Supporting Program. Thesis: Selectivity Bias in the Economic Evaluation of Postsecondary Vocational Education. Major Advisers: Gary W. Leske and Darrell R. Lewis

**Henghui Zou, Hengyang City, China**

B.Sc. '82, Xiangtan University; M.Sc. '85, Peking University. Degree: Doctor of Philosophy, August '92. Major: Mathematics. Minor: Supporting Program. Thesis: The Existence and Non-Existence and the Asymptotic Behavior of Solutions of the Equations of Chipot and Weissler. Major Adviser: James B. Serrin, Jr.

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## *Degrees Pending*

The following individuals had not completed all the requirements for their degrees as of September 30, 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, master of arts, specialist certificates, and doctoral degrees.

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## *Professional Master's Degrees*

### **Brent Virgil Aberg, Mabel**

B.A. '87, St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

### **Susan Cecelia Adamson**

B.S.B. '85, University of Minnesota. Degree: Master of Business Taxation. Major: Business Taxation.

### **Mark Fred Bjornson, Bismarck, N.D.**

B.S.B. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

### **Douglas Joseph Blesener, Roseville**

B.B.A. cum laude '90, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

### **Robert Jeffrey Blons, Burnsville**

B.S. '88, University of Illinois. Degree: Master of Business Administration. Major: Business Administration.

### **Eugene William Boissenin, Annandale, Va.**

B.A. '84, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

### **Thomas Allen Boman, Plymouth**

B.A. magna cum laude '78, Hamline University; J.D. cum laude '81, University of Minnesota. Degree: Master of Business Taxation. Major: Business Taxation.

### **Stuart Frank Bradt, St. Anthony**

B.Acc. '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

### **Randy Bunting, Minneapolis**

B.S. magna cum laude '83, Mankato State University. Degree: Master of Business Administration. Major: Business Administration.

### **Lawrence Paul Carlson**

B.A. '83, Northwestern College. Degree: Master of Music. Major: Music.

### **Michael Melvin Engelmeyer, St. Anthony**

B.S. '82, Saint John's University. Degree: Master of Business Taxation. Major: Business Taxation.

### **Deborah Ann Everson**

B.F.A. '86, University of Minnesota. Degree: Master of Architecture. Major: Architecture.

### **Beth A. Fredrickson**

B.Acc. cum laude '86, University of Minnesota. Degree: Master of Business Taxation. Major: Business Taxation.

### **Gregg Daniels Groechel, Minneapolis**

B.S.B. '88, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

### **Steven Alex Hanka**

B.A. '76, Gustavus Adolphus College. Degree: Master of Business Administration. Major: Business Administration.

### **Keith Robert Havemann, Eureka, Calif.**

B.A. '84, University of California. Degree: Master of Business Administration. Major: Business Administration.

### **Peggy A. Herrmann**

B.S.B. '81, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

### **Carol Adelaide Hofstad**

B.A. cum laude '76, Concordia College. Degree: Master of Music. Major: Music.

### **Todd Arthur Jackson**

B.S. cum laude '82, St. Cloud State University. Degree: Master of Business Taxation. Major: Business Taxation.

### **Wendy Sue Janzen, Minneapolis**

Bach. of Religious Studies-Music '89, Mennonite Brethren Bible College; B.A. '90, University of Winnipeg. Degree: Master of Music. Major: Music.

### **Jennifer Timbrell Judge, Toronto, Ontario, Canada**

B.F.A. '83, Queen's University. Degree: Master of Fine Arts. Major: Studio Arts.

### **Michael S. Judge, Kingston, Ontario, Canada**

B.F.A. '86, Queen's University. Degree: Master of Fine Arts. Major: Studio Arts.

### **Hyunsoo Kahng, Seoul, Korea**

B.S. honors '86, Illinois Institute of Technology. Degree: Master of Business Taxation. Major: Business Taxation.

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**Boris Kalanj**

Diploma '89, University of Zagreb. Degree: Master of Social Work. Major: Social Work.

**Mark Wallace Kowalski, Pelican Rapids**

B.S. '88, Moorhead State University. Degree: Master of Business Administration. Major: Business Administration.

**Subramanian Krishnan, St. Paul**

M.S. '72, University of Madras; Ph.D. '77, Pennsylvania State University. Degree: Master of Business Administration. Major: Business Administration.

**Mark Donald Kuck, Sioux Falls, S.D.**

B.S.B. '84, University of Minnesota. Degree: Master of Business Taxation. Major: Business Taxation.

**Paul Walter Maahs, Plymouth**

B.S.B. '81, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

**Richard Arthur Mansfield, Fergus Falls**

B.S. '78, Mankato State University. Degree: Master of Business Administration. Major: Business Administration.

**Patricia Voeller Martinson, Maplewood**

B.S.B. '79, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

**Kim M. Mertens, Shakopee**

B.S. cum laude '88, Mankato State University. Degree: Master of Business Taxation. Major: Business Taxation.

**Mark Allan Molenaar**

B.S. Astrop. '81, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

**Keith D. Moore, Madison, Wis.**

B.S. with high honors '88, University of Illinois. Degree: Master of Architecture. Major: Architecture.

**Becky Louise Nelson**

B.A. '85, Bethel College. Degree: Master of Social Work. Major: Social Work.

**Steven Allen Olson, Bismarck, N.D.**

B.S.E.E. '84, B.S. '85, University of North Dakota. Degree: Master of Business Administration. Major: Business Administration.

**Gene D. Rayburn, St. Paul**

B.A. '73, B.B.A. '79, M.A. '80, University of Iowa. Degree: Master of Business Taxation. Major: Business Taxation.

**Frederick J. Rozumalski**

B.S. '87, University of Wisconsin. Degree: Master of Landscape Architecture. Major: Landscape Architecture.

**Paul T. Runice, Minneapolis**

B.S. '82, Washington University. Degree: Master of Business Administration. Major: Business Administration.

**Glen Curtis Sandager, Stillwater**

B.S.B. '82, University of Minnesota. Degree: Master of Business Taxation. Major: Business Taxation.

**Lori Ann Schiffler, Woodbury**

B.A. cum laude '90, College of St. Thomas. Degree: Master of Chemical Engineering. Major: Chemical Engineering.

**Valeri Lee Schillberg, Edmonds, Wash.**

B.S. '83, University of Wisconsin. Degree: Master of Architecture. Major: Architecture.

**Perry Joseph Schmidt, Elrosa**

B.S. '85, St. John's University. Degree: Master of Business Administration. Major: Business Administration.

**David Scholten, Great Falls, Mont.**

B.A. magna cum laude '82, Northwestern College. Degree: Master of Business Administration. Major: Business Administration.

**Youxin Shi, Beijing, China**

B.A. '83, Peking University. Degree: Master of Social Work. Major: Social Work.

**Marjorie Ellen Spelman, White Bear Lake**

B.A. '85, College of St. Catherine. Degree: Master of Business Administration. Major: Business Administration.

**David Girard Swenson, Forest Lake**

B.F.A. '89, Kansas City Art Institute. Degree: Master of Fine Arts. Major: Studio Arts.

**Maureen Ann Wagner, Woodbury**

B.S. with honors '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

**Ruth M. Wilson, Minneapolis**

B.A. summa cum laude '90, Hamline University. Degree: Master of Business Administration. Major: Industrial Relations.

**Debra Kay Mickelson Zellar, Eagan**

B.S.B. '81, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

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## *Professional Master's Degrees*

### **University of Minnesota, Duluth**

**Arthur Paul Laneve Jr.**

B.S. '86, North Dakota State University. Degree: Master of Business Administration. Major: Business Administration.

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## *Master of Science*

**Tabare Abadie, Montevideo, Uruguay**

Ingeniero Agronomo. '82. Universidad de la Republica.  
Degree: Master of Science. Major: Plant Breeding.

**Jameel Ahmed, Secunderabad, A.P. India**

B.Eng. '89. Osmania University. Degree: Master of  
Science in Civil Engineering. Major: Civil Engineering.

**Shoukat Ali, Nausheroferoze, Pakistan**

B.E. '89. N.E.D. University of Engineering and  
Technology. Degree: Master of Science in Industrial  
Engineering. Major: Industrial Engineering.

**Ellen Elizabeth Anderson, Marine on St. Croix**

B.A. '84. Carleton College. Degree: Master of Science.  
Major: Clinical Laboratory Science.

**Anwar Iqbal Bhatti, Pakistan**

B.Sc.Eng. '89. University of Engineering and Technology  
Lahore. Degree: Master of Science. Major: Mineral  
Engineering.

**Rosanna Kyomi Chambliss, Waverly**

B.M.E. '85. University of Minnesota. Degree: Master of  
Science in Mechanical Engineering. Major: Mechanical  
Engineering.

**Hirak Chanda, Calcutta, India**

B.Tech. '89. Indian Institute of Technology. Kharagpur.  
Degree: Master of Science in Mechanical Engineering.  
Major: Mechanical Engineering.

**Linda Lee Chlan, Apple Valley**

B.A. cum laude '83. College of St. Scholastica. Degree:  
Master of Science. Major: Nursing.

**Kelly Patrick Coleman, Mankato**

B.A. cum laude '79. Gustavus Adolphus College: M.S.  
'87. Colorado School of Mines. Degree: Master of  
Science. Major: Civil Engineering.

**Mark James Conroy, Prior Lake**

B.S. '85. University of Minnesota. Degree: Master of  
Science. Major: Biophysical Sciences.

**Gary Eugene Cook, Eden Prairie**

B.A. '73. University of Iowa: D.D.S. '77. Loyola  
University. Degree: Master of Science. Major: Dentistry.

**Rafael Augusto Cortez, Lima, Peru**

Bachiller en Econ '87. Universidad del Pacifico. Degree:  
Master of Science. Major: Agricultural and Applied  
Economics.

**Jared Robert Creason, Terre Haute, Ind.**

B.A. '88. Indiana State University. Degree: Master of  
Science. Major: Agricultural and Applied Economics.

**John David Crellin, Minnetonka**

B.S. with distinction '89. Purdue University. Degree:  
Master of Science. Major: Soil Science.

**Sophia Magdalen Czechowicz, Minneapolis**

Engineer '82. Technical University of Gdansk. Degree:  
Master of Science. Major: Food Science.

**Tara Beth Dale, Burnsville**

B.S. with distinction '87. University of Minnesota.  
Degree: Master of Science. Major: Fisheries.

**Teresa Karen Earle-Kubas, Austin**

B.A. summa cum laude '90. Moorhead State University.  
Degree: Master of Science. Major: Nutrition.

**Paul Eric Felix, Stillwater**

B.M.E. '83. University of Minnesota. Degree: Master of  
Science in Mechanical Engineering. Major: Mechanical  
Engineering.

**Daniel John Fitzpatrick**

B.S. '78. University of Minnesota. Degree: Master of  
Science. Major: Forestry.

**Thomas Arthur Fry, North St. Paul**

B.S. with distinction '89. University of Minnesota.  
Degree: Master of Science. Major: Agronomy.

**Paul A. Funk, Minneapolis**

B.S.M.E. '88. Bradley University. Degree: Master of  
Science in Agricultural Engineering. Major: Agricultural  
Engineering.

**David William Gohl, St. Paul**

B.A. summa cum laude '85. College of St. Thomas.  
Degree: Master of Science. Major: Chemistry.

**Mahdevan Gopalakrishnan, India**

Degree: Master of Science in Civil Engineering. Major:  
Civil Engineering.

**Sara Elizabeth Gruenhagen, Owatonna**

B.A. '76. College of Saint Teresa. Degree: Master of  
Science. Major: Soil Science.

**David Michael Gryte, Kirksville, Mo.**

B.S.Ch.E. magna cum laude '89. University of Missouri.  
Degree: Master of Science in Chemical Engineering.  
Major: Chemical Engineering.

**Mary Lee Gustafson, St. Paul**

B.A. '75. B.S. with distinction '75. University of  
Minnesota. Degree: Master of Science. Major: Nursing.

**Kristel Hart Hach, Spicer**

B.S. '81. College of St. Francis. Degree: Master of  
Science. Major: Nursing.

**Pamela Sue Hansen, Lake Park, Iowa**

B.S. '76. South Dakota State University. Degree: Master  
of Science. Major: Nursing.

**Peter John Henrich, White Bear Lake**

B.Phys. '88. University of Minnesota. Degree: Master of  
Science. Major: Physics.

**Charng Yi Hsiao, Taipei, Taiwan**

B.B.A. '84. National Chengchi University. Degree:  
Master of Science. Major: Statistics.

**Patricia Ada Jemie, Minneapolis**

B.Comp.Sc. '91. University of Minnesota. Degree:  
Master of Science. Major: Computer and Information  
Sciences.

**Annette Marie Kavanaugh**

B.A. '85. University of Chicago. Degree: Master of  
Science. Major: Mathematics.

**Michel Marie Klein, Ellsworth, Wis.**

B.S. '89, University of Wisconsin. Degree: Master of Science. Major: Fisheries.

**Steven Michael Kloiber, Minneapolis**

B.A. '88, St. Olaf College. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

**Janelle Jurek Kozak, St. Paul**

B.A. '87, College of St. Catherine. Degree: Master of Science. Major: Computer and Information Sciences.

**Venetia Laganis, Athens, Greece**

Diploma '89, National University of Athens. Degree: Master of Science. Major: Dentistry.

**Yattung Lam, Hong Kong**

B.S. '90, Oklahoma State University. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

**Weiwei Lee, Beijing, China**

B.Eng. '85, M.Eng. '88, Beijing University of Science and Technology. Degree: Master of Science. Major: Mineral Engineering.

**Mathew Todd Lewis, Kirk, Colo.**

B.S. '90, Colorado State University. Degree: Master of Science. Major: Animal Science.

**Wendy Sue Lewis, Iliff, Colo.**

B.S. summa cum laude '90, Colorado State University. Degree: Master of Science. Major: Agricultural and Applied Economics.

**Yarong Li**

B.Med. '82, Chengdu College of Traditional Chinese Medicine. Degree: Master of Science. Major: Nutrition.

**Dominic Joseph Louwagie, Cottonwood**

B.M.E. '87, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

**Weizhong Lu, Shanghai, China**

B.S. '83, Shanghai University of Engineering Science. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

**Jane E. Lundberg, St. Paul**

B.S.Civ.E. '91, Marquette University. Degree: Master of Science. Major: Civil Engineering.

**Brian Gary Lundquist, Woodbury**

B.A.E.M. '90, University of Minnesota. Degree: Master of Science in Aerospace Engineering. Major: Aerospace Engineering.

**Robert F. Lyons, Hanover, Me.**

B.S. '87, Georgetown University; M.Ed. '90, Boston College. Degree: Master of Science. Major: Agricultural and Applied Economics.

**Katy Maureen Maker**

B.A. '87, Luther College. Degree: Master of Science. Major: Nursing.

**Kevin Lynn Mann, Minneapolis**

B.S. with honor '83, Michigan Technological University. Degree: Master of Science. Major: Geo-Engineering.

**Alan T. McClure**

B.S. '76, University of Wisconsin. Degree: Master of Science. Major: Fisheries.

**Randall Alan McClure, St. Paul**

B.S. with honor '77, North Dakota State University. Degree: Master of Science. Major: Computer and Information Sciences.

**Elizabeth Ann Mensing, Pewaukee, Wis.**

B.A. with distinction '83, University of Wisconsin. Degree: Master of Science. Major: Nutrition.

**Brent Alan Metfessel, Minneapolis**

B.S. '81, University of Southern California; M.D. '87, University of California. Degree: Master of Science. Major: Health Informatics.

**Thomas William Miller, Corvallis, Ore.**

B.A. '68, Ursinus College. Degree: Master of Science. Major: Statistics.

**Diane Compo Milow, Troy, N.Y.**

B.S.N. '84, University of Utah. Degree: Master of Science. Major: Nursing.

**Emmanuel Munyankusi, Kuvumu, Kibuye, Rwanda**

Ingenieur Agronome '88, Universite Nationale du Rwanda. Degree: Master of Science. Major: Soil Science.

**David A. Nemetz, Brookfield, Conn.**

B.S. summa cum laude '89, Beloit College. Degree: Master of Science. Major: Geology.

**Gary Joseph Nie, Washington Mo.**

B.S.Ag. '85, D.V.M. '88, University of Missouri. Degree: Master of Science. Major: Theriogenology.

**Daniel Richard Northrop, Phillips, Wis.**

B.S. magna cum laude '87, University of Wisconsin. Degree: Master of Science. Major: Environmental Health.

**Gzim Ocakoglu, Brussels, Belgium**

Ingenieur Civil '90, Universite Libre de Bruxelles. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

**Dan Patrick O'Connor, Lakefield**

B.S. '90, University of Minnesota. Degree: Master of Science. Major: Animal Science.

**Ignacio Orozco-Avila, Atotonilco El Alto, Mexico**

Ing. Quimico '89, University de Guadalajara. Degree: Master of Science. Major: Food Science.

**Shaomin Peng, Lanzhou, China**

B.S. '84, M.S. '87, Xi'an Jiantong University. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

**Nancy Eleanor Peters, St. Paul**

B.A. '88, Concordia College. Degree: Master of Science. Major: Biophysical Sciences.

**Steve Joe Plehn, Waukesha, Wis.**

B.S. '87, University of Wisconsin. Degree: Master of Science. Major: Plant Breeding.

**Joyce Marie Powdrill, Okmulgee, Okla.**

B.S. cum laude '89, Jackson State University. Degree: Master of Science. Major: Microbiology.

**Donovan Lee Raatz, Watertown**

B.E.E. summa cum laude '91, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

**Patricia Andrea Reeve**

B.S. '87, University of Iowa. Degree: Master of Science in Aerospace Engineering. Major: Aerospace Engineering.

**Kathryn Marie Reynolds, New Brighton**

B.S. with highest scholarship '88, Oregon State University. Degree: Master of Science. Major: Soil Science.

**Scott Duane Roettger, Stillwater**

B.S. cum laude '86, Michigan Technological University. Degree: Master of Science. Major: Biomedical Engineering.

**Bradley Thomas Rogrud, Mound**

B.S.Pharm. '81, University of Minnesota. Degree: Master of Science. Major: Health Informatics.

**Carolyn Jean Sampson, Minneapolis**

B.A. '82, B.A. '84, University of Minnesota. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

**David Roger Schmidt, Plymouth**

B.S. '82, University of Wisconsin. Degree: Master of Science in Agricultural Engineering. Major: Agricultural Engineering.

**Joseph Richard Schultz, Stillwater**

B.A.E.M. with high distinction '91, University of Minnesota. Degree: Master of Science in Aerospace Engineering. Major: Aerospace Engineering.

**Liang Schweizer, Taizhou, Jiangsu, China**

B.S. '89, University of Science and Technology of China. Degree: Master of Science. Major: Microbial Engineering.

**Timothy John Smith, Minneapolis**

B.M.E. '86, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

**Stephen P. Sohm, Rochester**

B.S.Aero.E. '90, Tri-State University. Degree: Master of Science in Aerospace Engineering. Major: Aerospace Engineering.

**Stephen P. Sohm, Rochester**

B.S.Aero.E. '90, Tri-State University. Degree: Master of Science. Major: Civil Engineering.

**Daniel George Sorenson, Racine, Wis.**

B.A. cum laude '85, Carthage College. Degree: Master of Science. Major: Forestry.

**JoAnn Lynn Stapfer, Shorewood**

B.A. '87, Gustavus Adolphus College. Degree: Master of Science. Major: Horticulture.

**Kathleen Marie Stenersen, River Falls, Wis.**

B.M.E. '91, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

**Kevin Lynn Van Dee, North English, Iowa**

B.S. with distinction '90, Iowa State University of Science and Technology. Degree: Master of Science. Major: Agronomy.

**Carolyn Rohrer Vitek**

B.A. cum laude '83, Saint Mary's College. Degree: Master of Science. Major: Genetics.

**Ruth Angela Wandera, Nairobi, Kenya**

B.D.S. '87, University of Nairobi. Degree: Master of Science. Major: Dentistry.

**Dingcheng Wang, Taipei, Taiwan**

B.S. '86, National Yang-Ming Medical College. Degree: Master of Science. Major: Health Informatics.

**Mark Allan Werner, Manchester, Iowa**

B.S. with highest distinction '90, University of Iowa. Degree: Master of Science. Major: Environmental Health.

**Karl David Westenfield, Coon Rapids**

B.M.E. '87, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

**Ronald Dean Wiese, Paynesville**

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

**Jinhua Yan**

B.S. '89, Peking University. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

**Toneluh Andrew Yang**

B.Ed. '83, National Taiwan Normal University. Degree: Master of Science. Major: Computer and Information Sciences.

**Ping Yu, Beijing, China**

B.S. '85, M.S. '88, Northern Jiatong University. Degree: Master of Science. Major: Civil Engineering.

**Joan Elizabeth Zak, New Brighton**

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

**Darrick Donald Zarleng, Omro, Wis.**

B.M.E. '90, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

**John Mark Zupfer, St. Paul**

B.S. '89, Bethel College. Degree: Master of Science. Major: Food Science.

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## *Master of Science*

### **University of Minnesota, Duluth**

**Peter Aas, Duluth**

B.A. '87, Macalester College. Degree: Master of Science. Major: Biology.

**Glenn Lowell Evavold, Duluth**

B.C.E. with distinction '61, University of Minnesota. Degree: Master of Science. Major: Geology.

**Handong Tu, Shanghai, China**

B.Eng. '82, Shanghai Jiatong University. Degree: Master of Science. Major: Applied and Computational Mathematics.

**Dimitrios Xirouchakis, Athens, Greece**

Diploma '88, National University of Athens. Degree: Master of Science. Major: Geology.

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## *Master of Arts*

**Theresa Zak Alyeshmerni**

B.A. '89, University of Minnesota. Degree: Master of Arts. Major: Public Affairs.

**Georgia Barcouras, Athens, Greece.**

Diploma '88, National and Cappodistrian University of Athens. Degree: Master of Arts. Major: German.

**Julie Ann Berg, St. Paul**

B.A. '81, University of Minnesota. Degree: Master of Arts. Major: Marketing Education.

**Laura Mae Blankers, Rochester**

B.S. cum laude '83, Mankato State University. Degree: Master of Arts. Major: Business Education.

**Virginia June Boehr**

B.S.El.Ed. '72, Bethel College. Degree: Master of Arts. Major: Education.

**Lisa Kaye Brandt, Minneapolis**

B.A. '89, University of Minnesota. Degree: Master of Arts. Major: Anthropology.

**Bruce W. Calhoun, St. Paul**

B.A. '86, Gustavus Adolphus College. Degree: Master of Arts. Major: Industrial Relations.

**Yuan-Yin Chao, Taipei, Taiwan.**

B.A. '89, National Cheng Kung University. Degree: Master of Arts. Major: Speech-Communication.

**Sandra Lee Dahl**

B.S. '83, University of Minnesota. Degree: Master of Arts. Major: Educational Administration.

**Abigail F. Davis, Fleischmanns, N.Y.**

B.A. '72, Ithaca College. Degree: Master of Arts. Major: English.

**Yvonne M. Duperon, Minneapolis**

A.B. '73, Indiana University. Degree: Master of Arts. Major: Communication Disorders.

**Mark Gerald Fischer, Richfield**

B.A. magna cum laude '83, Briar Cliff College. Degree: Master of Arts. Major: Art History.

**Todd Kelly Gardner, Fairmont**

B.A. '83, St. Olaf College. Degree: Master of Arts. Major: History.

**Steven David Gjerstad**

B.Math. with distinction '86, University of Minnesota. Degree: Master of Arts. Major: Economics.

**Maynard Goff**

B.A. '75, University of Northern Iowa; M.A. '76, University of Iowa. Degree: Master of Arts. Major: Psychology.

**Linda Kay Gregory, Champaign, Ill.**

B.A. magna cum laude '86, College of St. Thomas. Degree: Master of Arts. Major: Educational Administration.

**Sarah Louise Grussing, St. Paul**

B.A. magna cum laude '88, Carleton College. Degree: Master of Arts. Major: Hispanic Literature.

**Juli Ann Gunard, Roseville**

B.A. '90, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

**Michael James Harvey, White Bear Lake**

B.S. '70, B.A. '72, University of Minnesota. Degree: Master of Arts. Major: Philosophy.

**Fiona Gillian Holland, Garstang, Lancashire, England**

B.A. '89, Loughborough University of Technology. Degree: Master of Arts. Major: Kinesiology.

**Kenneth Richard Howson, Arlington, Va.**

B.S. '87, Georgetown University. Degree: Master of Arts. Major: Industrial Relations.

**Leanne Melanie Hull, Winnipeg, Manitoba, Canada**

B.Ed. '90, University of Manitoba. Degree: Master of Arts. Major: Communication Disorders.

**Jovito Galagar Inoferio**

M.A. '78, University of the Philippines. Degree: Master of Arts. Major: Economics.

**Sandra Anne Jahn, Roseville**

B.A. '91, University of Minnesota. Degree: Master of Arts. Major: History.

- Carol Parton Johnson, St. Cloud**  
B.A. '67, Hunter College of the City University of New York; M.S. '79, Drexel University. Degree: Master of Arts. Major: Industrial Relations.
- Elizabeth Marie B. Johnson, Edina**  
B.S. cum laude '65, University of Massachusetts. Degree: Master of Arts. Major: English.
- Soo-Hee Kang**  
B.A. '83, Andong National University. Degree: Master of Arts. Major: Design, Housing, and Apparel.
- John Arthur Kieselhorst, Roseville**  
B.A. '80, College of St. Thomas. Degree: Master of Arts. Major: Russian Area Studies.
- John Peter Kostouros**  
B.A. '69, Western Illinois University. Degree: Master of Arts. Major: Mass Communication.
- Jill Gurwitz Kozberg**  
B.S.Ed. '86, University of Texas. Degree: Master of Arts. Major: Psychology.
- Junko Kubota, Tokyo, Japan**  
B.A. '87, Sophia University. Degree: Master of Arts. Major: Speech-Communication.
- Kenneth Bruce Little, Edina**  
A.B. '66, Wheaton College; M.A. '74, College of St. Thomas. Degree: Master of Arts. Major: Industrial Relations.
- Carol Ann Mason, Charleston, W.Va.**  
B.A. with honors '86, Den son University. Degree: Master of Arts. Major: English.
- Michael Duran McCarthy, Minneapolis**  
B.A. '88, Pennsylvania State University. Degree: Master of Arts. Major: Industrial Relations.
- John William McKone, Cresco, Iowa**  
B.M. '88, University of Minnesota. Degree: Master of Arts. Major: Music.
- Sandra Jean Peckham Miller, Pacific Grove, Calif.**  
B.A. '72, Stanislaus State College. Degree: Master of Arts. Major: Educational Psychology.
- James Timothy Molberg, St. Paul**  
B.S. summa cum laude '89, University of Minnesota. Degree: Master of Arts. Major: Educational Psychology.
- Andres Fatima Moreno**  
B.A. '82, University of Minnesota. Degree: Master of Arts. Major: Hispanic Literature.
- Prudence Renee Myatt, Raleigh, N.C.**  
B.A. '83, Saint Augustine's College. Degree: Master of Arts. Major: Public Affairs.
- Todd Patrick Olness, Minneapolis**  
B.A. '90, University of Minnesota. Degree: Master of Arts. Major: Industrial Relations.
- Hyerang Park, Seoul, Korea.**  
B.A. '86, Hong-Ik University; M.A. '89, Sogang University. Degree: Master of Arts. Major: Linguistics.
- Bridget Mary Phifer, Eugene, Ore.**  
B.A. magna cum laude '83, University of Oregon. Degree: Master of Arts. Major: Theatre Arts.
- Brian Dale Phillips, Minneapolis**  
B.A. '87, B.S. '87, Iowa State University of Science and Technology. Degree: Master of Arts. Major: Public Affairs.
- Mohan P. Ramanujan, Pilani, India**  
M.Sc.(Tech) '88, M.E. '89, Birla Institute of Technology and Science. Degree: Master of Arts. Major: Public Affairs.
- Jerry Joseph Rasmusson**  
B.S. '68, University of Minnesota. Degree: Master of Arts. Major: Education.
- Thomas Joseph Reynolds, Minneapolis**  
B.A. with honors '81, University of Notre Dame. Degree: Master of Arts. Major: Mass Communication.
- Diane Marie Rubright, Iowa City, Iowa**  
B.A. cum laude '87, Macalester College. Degree: Master of Arts. Major: Social and Philosophical Foundations of Education.
- Carol Sorenson Rye, Minnetonka**  
B.S. '64, University of Minnesota. Degree: Master of Arts. Major: Educational Administration.
- Peter C. Saari**  
B.A. '90, University of Minnesota. Degree: Master of Arts. Major: Education.
- Karen E. Scheltema, Houston, Tex.**  
B.S. '88, Texas A & M University. Degree: Master of Arts. Major: Educational Psychology.
- David Harvey Sick, Lancaster, Pa.**  
B.A. '88, College of Wooster. Degree: Master of Arts. Major: Classical Studies.
- Cheryl Fales Steinmetz**  
B.A. '89, University of Minnesota. Degree: Master of Arts. Major: History.
- Kristin Lynn Stolte**  
B.B.A. cum laude '83, James Madison University. Degree: Master of Arts. Major: Educational Psychology.
- Yaecob Sulamo**  
B.A. cum laude '75, St. Olaf College. Degree: Master of Arts. Major: Industrial Relations.
- Jill K. Swenson, Edina**  
B.A. '89, St. Olaf College. Degree: Master of Arts. Major: Industrial Relations.
- Michael John Taylor, Taylor's Falls**  
B.S. '68, Drake University. Degree: Master of Arts. Major: History.
- Todd Evan Temkin**  
B.A. '88, University of Minnesota. Degree: Master of Arts. Major: English.
- James Milton Toyota, Lynd**  
B.A. '86, University of Minnesota. Degree: Master of Arts. Major: Chinese.

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**Catherine Mary Trainor, Brooklyn Center**

B.A. '85, Saint Mary's College. Degree: Master of Arts.  
Major: Communication Disorders.

**Lynn Marie Trochil, Willmar**

B.A. magna cum laude '90, University of Minnesota.  
Degree: Master of Arts. Major: Industrial Relations.

**Madelin Tundidor, West Los Angeles, Calif.**

B.A. '88, University of California. Degree: Master of  
Arts. Major: Educational Psychology.

**Jeffrey R. Vesel**

B.A. '90, St. John's University. Degree: Master of Arts.  
Major: French.

**Saranya Wajnanwat, Bangkok, Thailand**

B.A. '79, Chulalongkorn University. Degree: Master of  
Arts. Major: Business Education.

**Donna M. Weispfenning**

B.S. '66, University of North Dakota. Degree: Master of  
Arts. Major: Mass Communication.

**Jenny Gladys Wilson, Vina del Mar, Chile.**

Profesor de Estado '84, Universidad de Chile. Degree:  
Master of Arts. Major: Hispanic Literature.

**Cheryl Lynn Winch, Madison, Wis.**

B.A. summa cum laude '88, Bethel College. Degree:  
Master of Arts. Major: Educational Psychology.

**Wendy Louise Wold, Minnetonka**

B.S. with distinction '75, University of Minnesota.  
Degree: Master of Arts. Major: Art Education.

**Yaoliang Yan**

B.A. '82, M.A. '87, Guangzhou Institute of Foreign  
Languages. Degree: Master of Arts. Major: Japanese.

---

*Master of Arts*

**University of Minnesota, Duluth**

**Dana M. Bartlett**

B.A. '90, University of Minnesota. Degree: Master of  
Arts. Major: Educational Psychology.

**Patricia Ann Gorski, Milwaukee, Wis.**

B.S. with honors '83, University of Wisconsin. Degree:  
Master of Arts. Major: English.

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*Specialist Certificate in Education*

**Valeria S. Brockton, Chile**

B.E.S. '90, St. Cloud State University; M.A. '91,  
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*Doctor of Education*

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